

**APPENDIX C**

**COMPILATION OF EXISTING WATER DATA**

**APPENDIX C-1**

**EAST HELENA WATER  
HISTORICAL MONITORING WELL DATA**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

### Table of Contents by Station Type

<u>Page</u>	<u>Station Type</u>	<u>Station Name</u>
1	Groundwater	APSD-1
53	Groundwater	APSD-2
67	Groundwater	APSD-3
79	Groundwater	APSD-4
89	Groundwater	APSD-7
109	Groundwater	APSD-8
126	Groundwater	APSD-9
11	Groundwater	APSD-10
22	Groundwater	APSD-11
31	Groundwater	APSD-12
40	Groundwater	APSD-13
47	Groundwater	APSD-14
49	Groundwater	APSD-15
51	Groundwater	APSD-16
136	Groundwater	DH-1
224	Groundwater	DH-2
316	Groundwater	DH-3
348	Groundwater	DH-4
408	Groundwater	DH-5
479	Groundwater	DH-6
531	Groundwater	DH-7
546	Groundwater	DH-8
560	Groundwater	DH-9
149	Groundwater	DH-10
155	Groundwater	DH-10A
161	Groundwater	DH-11
1046	Groundwater	DH-12
1054	Groundwater	DH-13
174	Groundwater	DH-14
187	Groundwater	DH-15
195	Groundwater	DH-16
199	Groundwater	DH-17
1065	Groundwater	DH-18
211	Groundwater	DH-19
219	Groundwater	DH-19R
238	Groundwater	DH-20
1080	Groundwater	DH-21
252	Groundwater	DH-22
263	Groundwater	DH-23
273	Groundwater	DH-24
292	Groundwater	DH-26
1095	Groundwater	DH-27
296	Groundwater	DH-28

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

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303	Groundwater	DH-29
1107	Groundwater	DH-30
1113	Groundwater	DH-31
1119	Groundwater	DH-32
1121	Groundwater	DH-33
1126	Groundwater	DH-34
1134	Groundwater	DH-35
333	Groundwater	DH-36
339	Groundwater	DH-37
1140	Groundwater	DH-38
344	Groundwater	DH-39
370	Groundwater	DH-40
374	Groundwater	DH-41
377	Groundwater	DH-42
382	Groundwater	DH-43
385	Groundwater	DH-44
387	Groundwater	DH-45
391	Groundwater	DH-46
394	Groundwater	DH-47
400	Groundwater	DH-48
402	Groundwater	DH-49
423	Groundwater	DH-50
435	Groundwater	DH-51
440	Groundwater	DH-52
447	Groundwater	DH-53
453	Groundwater	DH-54
456	Groundwater	DH-55
460	Groundwater	DH-56
463	Groundwater	DH-57
468	Groundwater	DH-58
473	Groundwater	DH-59
492	Groundwater	DH-60
496	Groundwater	DH-61
497	Groundwater	DH-62
502	Groundwater	DH-63
506	Groundwater	DH-64
514	Groundwater	DH-65
517	Groundwater	DH-66
522	Groundwater	DH-67
527	Groundwater	DH-68
529	Groundwater	DH-69
544	Groundwater	DH-70
544	Groundwater	DH-71

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711	Groundwater	EH-50
725	Groundwater	EH-51
739	Groundwater	EH-52
753	Groundwater	EH-53
766	Groundwater	EH-54
781	Groundwater	EH-57A
792	Groundwater	EH-58
803	Groundwater	EH-59
816	Groundwater	EH-60
831	Groundwater	EH-61
842	Groundwater	EH-62
853	Groundwater	EH-63
860	Groundwater	EH-64
865	Groundwater	EH-65
871	Groundwater	EH-66
873	Groundwater	EH-67
877	Groundwater	EH-68
879	Groundwater	EH-69
570	Groundwater	EH-100
583	Groundwater	EH-101
592	Groundwater	EH-102
608	Groundwater	EH-103
613	Groundwater	EH-104
619	Groundwater	EH-106
628	Groundwater	EH-107
636	Groundwater	EH-109
643	Groundwater	EH-110
649	Groundwater	EH-111
659	Groundwater	EH-112
666	Groundwater	EH-113
673	Groundwater	EH-114
681	Groundwater	EH-115
685	Groundwater	EH-116
692	Groundwater	EH-117
697	Groundwater	EH-118
699	Groundwater	EH-119
701	Groundwater	EH-120
703	Groundwater	EH-121
705	Groundwater	EH-122
707	Groundwater	EH-123
707	Groundwater	EH-124
709	Groundwater	EH-125
709	Groundwater	EH-126

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711	Groundwater	EH-127
881	Groundwater	MW-1
893	Groundwater	MW-2
899	Groundwater	MW-3
905	Groundwater	MW-4
913	Groundwater	MW-5
919	Groundwater	MW-6
926	Groundwater	MW-7
929	Groundwater	MW-8
933	Groundwater	MW-9
887	Groundwater	MW-10
889	Groundwater	MW-11
937	Groundwater	PRB-1
937	Groundwater	PRB-2
939	Groundwater	PRB-3
1146	Groundwater	SDMW-1
1148	Groundwater	SDMW-2
1152	Groundwater	SDMW-3
1154	Groundwater	SDMW-4
1158	Groundwater	SDMW-5
939	Groundwater	SPARGE 1
941	Groundwater	SPARGE 2
942	Groundwater	SPARGE 3
951	Groundwater	STW-1
962	Groundwater	STW-2
973	Groundwater	STW-3
984	Groundwater	STW-4
995	Groundwater	STW-5
1005	Groundwater	STW-6
1013	Groundwater	STW-7
1024	Groundwater	STW-8
1038	Groundwater	STW-9
1160	Groundwater	TW-1

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836	00-53528-6	EHC-0005-150	5/3/2000	EH-61
836	00-90952-6	EHC-0011-151	11/8/2000	EH-61
349	73-1989	AEH-8506-508	6/11/1985	DH-4
409	73-1990	AEH-8506-513	6/11/1985	DH-5
562	73-1991	AEH-8506-517	6/11/1985	DH-9
532	73-2879	AEH-8508-723	8/14/1985	DH-7
531	73-2880	AEH-8508-706	8/14/1985	DH-7
162	73-2881	AEH-8508-727	8/14/1985	DH-11
162	73-2882	AEH-8508-708	8/14/1985	DH-11
350	73-2883	AEH-8508-720	8/15/1985	DH-4
350	73-2884	AEH-8508-704	8/15/1985	DH-4
319	73-2885	AEH-8508-719	8/15/1985	DH-3
318	73-2886	AEH-8508-705	8/15/1985	DH-3
548	73-2887	AEH-8508-707	8/15/1985	DH-8
548	73-2888	AEH-8508-724	8/15/1985	DH-8
224	85-676	AEH-8501-117	1/18/1985	DH-2
316	85-677	AEH-8501-118	1/18/1985	DH-3
348	85-678	AEH-8501-119	1/16/1985	DH-4
408	85-679	AEH-8501-120	1/17/1985	DH-5
479	85-680	AEH-8501-121	1/16/1985	DH-6
546	85-684	AEH-8501-123	1/17/1985	DH-8
560	85-685	AEH-8501-124	1/18/1985	DH-9
149	85-686	AEH-8501-125	1/18/1985	DH-10
136	85-688	AEH-8501-127	1/15/1985	DH-1
348	85-689	AEH-8501-128	1/16/1985	DH-4
408	85-690	AEH-8501-129	1/17/1985	DH-5
318	85-691	AEH-8501-130	1/18/1985	DH-3
136	85-696	AEH-8501-116	1/15/1985	DH-1
161	85-699	AEH-8501-126	1/15/1985	DH-11
161	85-700	AEH-8501-137	1/21/1985	DH-11
138	85-2473	AEH-8504-312	4/10/1985	DH-1
224	85-2474	AEH-8504-313	4/10/1985	DH-2
318	85-2475	AEH-8504-314	4/10/1985	DH-3
349	85-2476	AEH-8504-315	4/9/1985	DH-4
409	85-2477	AEH-8504-316	4/9/1985	DH-5
481	85-2478	AEH-8504-317	4/8/1985	DH-6
531	85-2479	AEH-8504-318	4/8/1985	DH-7
546	85-2480	AEH-8504-319	4/10/1985	DH-8
560	85-2481	AEH-8504-320	4/9/1985	DH-9
151	85-2482	AEH-8504-321	4/8/1985	DH-10
349	85-2483	AEH-8504-322	4/9/1985	DH-4
161	85-2487	AEH-8504-337	4/8/1985	DH-11
162	85-4496	AEH-8506-526	6/15/1985	DH-11

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318	85-4498	AEH-8506-524	6/12/1985	DH-3
162	85-4502	AEH-8506-519	6/15/1985	DH-11
151	85-4503	AEH-8506-518	6/15/1985	DH-10
562	85-4504	AEH-8506-517	6/11/1985	DH-9
546	85-4505	AEH-8506-516	6/14/1985	DH-8
531	85-4506	AEH-8506-515	6/14/1985	DH-7
481	85-4507	AEH-8506-514	6/13/1985	DH-6
409	85-4508	AEH-8506-513	6/11/1985	DH-5
349	85-4509	AEH-8506-512	6/11/1985	DH-4
318	85-4510	AEH-8506-511	6/12/1985	DH-3
226	85-4511	AEH-8506-510	6/12/1985	DH-2
138	85-4512	AEH-8506-509	6/13/1985	DH-1
349	85-4513	AEH-8506-508	6/11/1985	DH-4
350	85-6282	AEH-8508-704	8/15/1985	DH-4
319	85-6283	AEH-8508-705	8/15/1985	DH-3
532	85-6284	AEH-8508-706	8/14/1985	DH-7
548	85-6285	AEH-8508-707	8/15/1985	DH-8
162	85-6286	AEH-8508-708	8/14/1985	DH-11
409	85-6290	AEH-8508-716	8/13/1985	DH-5
138	85-6291	AEH-8508-717	8/12/1985	DH-1
226	85-6292	AEH-8508-718	8/13/1985	DH-2
319	85-6293	AEH-8508-719	8/15/1985	DH-3
350	85-6294	AEH-8508-720	8/15/1985	DH-4
410	85-6295	AEH-8508-721	8/13/1985	DH-5
481	85-6296	AEH-8508-722	8/12/1985	DH-6
532	85-6297	AEH-8508-723	8/14/1985	DH-7
548	85-6298	AEH-8508-724	8/15/1985	DH-8
562	85-6299	AEH-8508-725	8/13/1985	DH-9
151	85-6300	AEH-8508-726	8/13/1985	DH-10
162	85-6301	AEH-8508-727	8/14/1985	DH-11
532	85-6304	AEH-8508-732	8/14/1985	DH-7
532	85-6305	AEH-8508-733	8/14/1985	DH-7
350	85-6306	AEH-8508-734	8/15/1985	DH-4
350	85-6307	AEH-8508-735	8/15/1985	DH-4
583	86-7257	AEH-8610-148	10/30/1986	EH-101
583	86-7258	AEH-8610-149	10/30/1986	EH-101
725	86-7259	AEH-8610-150	10/30/1986	EH-51
174	86-7323	AEH-8611-2	11/4/1986	DH-14
174	86-7325	AEH-8611-3	11/4/1986	DH-14
188	86-7464	AEH-8611-5	11/6/1986	DH-15
188	86-7465	AEH-8611-6	11/6/1986	DH-15
711	86-7467	AEH-8611-8	11/7/1986	EH-50

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713	86-7468	AEH-8611-9	11/7/1986	EH-50
1054	86-7469	AEH-8611-10	11/7/1986	DH-13
570	86-7491	AEH-8611-12	11/11/1986	EH-100
571	86-7492	AEH-8611-13	11/11/1986	EH-100
592	86-7493	AEH-8611-14	11/11/1986	EH-102
739	86-7494	AEH-8611-15	11/11/1986	EH-52
753	86-7537	AEH-8611-17	11/13/1986	EH-53
753	86-7538	AEH-8611-18	11/13/1986	EH-53
1046	86-7539	AEH-8611-19	11/13/1986	DH-12
739	86-7782	AEH-8611-45	11/18/1986	EH-52
739	86-7784	AEH-8611-33	11/18/1986	EH-52
138	86-7785	AEH-8611-21	11/18/1986	DH-1
226	86-7786	AEH-8611-22	11/18/1986	DH-2
319	86-7787	AEH-8611-23	11/18/1986	DH-3
533	86-7788	AEH-8611-27	11/19/1986	DH-7
533	86-7789	AEH-8611-34	11/19/1986	DH-7
163	86-7791	AEH-8611-31	11/19/1986	DH-11
351	86-7792	AEH-8611-24	11/19/1986	DH-4
152	86-7793	AEH-8611-30	11/18/1986	DH-10
482	86-7832	AEH-8611-26	11/25/1986	DH-6
482	86-7833	AEH-8611-36	11/25/1986	DH-6
562	86-7835	AEH-8611-29	11/25/1986	DH-9
766	86-7836	AEH-8611-32	11/24/1986	EH-54
548	86-7837	AEH-8611-28	11/24/1986	DH-8
410	86-7839	AEH-8611-25	11/24/1986	DH-5
768	86-7840	AEH-8611-35	11/24/1986	EH-54
199	86-7891	AEH-8612-2	12/1/1986	DH-17
200	86-7892	AEH-8612-3	12/1/1986	DH-17
1067	86-8131	AEH-8612-9	12/8/1986	DH-18
792	86-8132	AEH-8612-11	12/8/1986	EH-58
792	86-8134	AEH-8612-13	12/8/1986	EH-58
174	87-646	AEH-8701-102	1/26/1987	DH-14
174	87-647	AEH-8701-126	1/26/1987	DH-14
1067	87-649	AEH-8701-105	1/27/1987	DH-18
188	87-650	AEH-8701-103	1/27/1987	DH-15
188	87-651	AEH-8701-128	1/27/1987	DH-15
1054	87-653	AEH-8701-101	1/28/1987	DH-13
1046	87-655	AEH-8701-100	1/28/1987	DH-12
200	87-656	AEH-8701-104	1/29/1987	DH-17
571	87-774	AEH-8701-109	2/2/1987	EH-100
571	87-775	AEH-8701-132	2/2/1987	EH-100
713	87-777	AEH-8701-108	2/2/1987	EH-50
755	87-779	AEH-8701-112	2/3/1987	EH-53

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725	87-784	AEH-8701-138	2/3/1987	EH-51
583	87-785	AEH-8701-107	2/3/1987	EH-101
592	87-786	AEH-8701-111	2/4/1987	EH-102
594	87-787	AEH-8701-139	2/4/1987	EH-102
740	87-788	AEH-8701-110	2/4/1987	EH-52
792	87-789	AEH-8701-115	2/4/1987	EH-58
768	87-790	AEH-8701-114	2/5/1987	EH-54
175	87-2234	AEH-8704-3	4/2/1987	DH-14
571	87-2354	AEH-8704-5	4/7/1987	EH-100
571	87-2355	AEH-8704-6	4/7/1987	EH-100
755	87-2424	AEH-8704-16	4/21/1987	EH-53
584	87-2425	AEH-8704-11	4/15/1987	EH-101
584	87-2426	AEH-8704-12	4/15/1987	EH-101
584	87-2428	AEH-8704-14	4/15/1987	EH-101
594	87-2429	AEH-8704-8	4/13/1987	EH-102
594	87-2430	AEH-8704-9	4/13/1987	EH-102
755	87-2823	AEH-8704-15	4/21/1987	EH-53
768	87-2826	AEH-8704-18	4/21/1987	EH-54
572	87-2828	AEH-8704-21	4/22/1987	EH-100
572	87-2829	AEH-8704-22	4/22/1987	EH-100
713	87-2832	AEH-8704-25	4/22/1987	EH-50
792	87-2833	AEH-8704-26	4/23/1987	EH-58
793	87-2834	AEH-8704-27	4/23/1987	EH-58
594	87-2836	AEH-8704-29	4/23/1987	EH-102
584	87-2837	AEH-8704-30	4/23/1987	EH-101
725	87-2838	AEH-8704-31	4/24/1987	EH-51
726	87-2839	AEH-8704-32	4/24/1987	EH-51
1080	87-2841	AEH-8704-50	4/27/1987	DH-21
740	87-3033	AEH-8705-38	5/6/1987	EH-52
238	87-3315	AEH-8705-31	5/12/1987	DH-20
713	87-3316	AEH-8705-128	5/11/1987	EH-50
238	87-3318	AEH-8705-103	5/12/1987	DH-20
805	87-3320	AEH-8705-40	5/13/1987	EH-59
805	87-3321	AEH-8705-112	5/13/1987	EH-59
263	87-3322	AEH-8705-33	5/13/1987	DH-23
188	87-3371	AEH-8705-129	5/12/1987	DH-15
533	87-3820	AEH-8705-19	5/21/1987	DH-7
533	87-3821	AEH-8705-46	5/21/1987	DH-7
163	87-3822	AEH-8705-23	5/21/1987	DH-11
138	87-4006	AEH-8706-03	6/2/1987	DH-1
139	87-4007	AEH-8706-34	6/2/1987	DH-1
321	87-4008	AEH-8706-05	6/2/1987	DH-3

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226	87-4009	AEH-8706-04	6/3/1987	DH-2
226	87-4010	AEH-8706-35	6/3/1987	DH-2
410	87-4012	AEH-8706-07	6/3/1987	DH-5
550	87-4013	AEH-8706-09	6/3/1987	DH-8
152	87-4014	AEH-8706-11	6/3/1987	DH-10
189	87-4016	AEH-8706-15	6/4/1987	DH-15
189	87-4017	AEH-8706-36	6/4/1987	DH-15
482	87-4018	AEH-8706-08	6/4/1987	DH-6
562	87-4019	AEH-8706-10	6/5/1987	DH-9
175	87-4020	AEH-8706-14	6/5/1987	DH-14
175	87-4021	AEH-8706-37	6/5/1987	DH-14
351	87-4091	AEH-8706-06	6/4/1987	DH-4
1067	87-4193	AEH-8706-17	6/9/1987	DH-18
1067	87-4194	AEH-8706-38	6/9/1987	DH-18
200	87-4196	AEH-8706-16	6/9/1987	DH-17
1055	87-4197	AEH-8706-13	6/9/1987	DH-13
292	87-4198	AEH-8706-100	6/9/1987	DH-26
1095	87-4199	AEH-8706-22	6/9/1987	DH-27
1080	87-4200	AEH-8706-101	6/9/1987	DH-21
1048	87-4201	AEH-8706-12	6/9/1987	DH-12
273	87-4235	AEH-8706-20	6/11/1987	DH-24
275	87-4236	AEH-8706-39	6/11/1987	DH-24
252	87-4238	AEH-8706-19	6/11/1987	DH-22
211	87-4239	AEH-8706-18	6/11/1987	DH-19
805	87-5179	AEH-8707-108	6/26/1987	EH-59
189	87-5180	AEH-8707-109	6/29/1987	DH-15
238	87-5181	AEH-8707-110	6/30/1987	DH-20
755	87-5211	AEH-8708-18	8/7/1987	EH-53
740	87-6484	AEH-8708-17	8/7/1987	EH-52
769	87-6486	AEH-8708-19	8/7/1987	EH-54
805	87-6488	AEH-8708-21	8/7/1987	EH-59
594	87-6490	AEH-8708-24	8/7/1987	EH-102
769	87-6494	AEH-8708-42	8/7/1987	EH-54
741	87-6495	AEH-8708-43	8/7/1987	EH-52
793	87-6634	AEH-8708-20	8/10/1987	EH-58
584	87-6635	AEH-8708-23	8/10/1987	EH-101
726	87-6636	AEH-8708-16	8/10/1987	EH-51
572	87-6637	AEH-8708-22	8/10/1987	EH-100
713	87-6638	AEH-8708-15	8/10/1987	EH-50
238	87-6639	AEH-8708-08	8/11/1987	DH-20
1068	87-6640	AEH-8708-06	8/11/1987	DH-18
175	87-6641	AEH-8708-03	8/11/1987	DH-14
189	87-6642	AEH-8708-04	8/12/1987	DH-15

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275	87-6644	AEH-8708-12	8/12/1987	DH-24
213	87-6645	AEH-8708-07	8/12/1987	DH-19
254	87-6646	AEH-8708-10	8/12/1987	DH-22
1055	87-6647	AEH-8708-02	8/13/1987	DH-13
793	87-6648	AEH-8708-44	8/10/1987	EH-58
239	87-6651	AEH-8708-45	8/11/1987	DH-20
176	87-6652	AEH-8708-46	8/11/1987	DH-14
190	87-6653	AEH-8708-47	8/12/1987	DH-15
1055	87-6655	AEH-8708-48	8/13/1987	DH-13
294	87-6873	AEH-8708-13	8/17/1987	DH-26
1095	87-6874	AEH-8708-14	8/17/1987	DH-27
200	87-6875	AEH-8708-05	8/17/1987	DH-17
1048	87-6876	AEH-8708-01	8/17/1987	DH-12
294	87-6878	AEH-8708-49	8/17/1987	DH-26
1082	87-7529	AEH-8708-09	8/24/1987	DH-21
1082	87-7531	AEH-8708-51	8/24/1987	DH-21
726	87-10536	AEH-8711-212	11/16/1987	EH-51
595	87-10537	AEH-8711-208	11/16/1987	EH-102
714	87-10540	AEH-8711-213	11/17/1987	EH-50
713	87-10541	AEH-8711-200	11/17/1987	EH-50
726	87-10542	AEH-8711-201	11/16/1987	EH-51
741	87-10543	AEH-8711-202	11/17/1987	EH-52
755	87-10544	AEH-8711-203	11/16/1987	EH-53
769	87-10545	AEH-8711-204	11/16/1987	EH-54
793	87-10546	AEH-8711-205	11/17/1987	EH-58
572	87-10547	AEH-8711-206	11/17/1987	EH-100
585	87-10548	AEH-8711-207	11/16/1987	EH-101
1048	87-10549	AEH-8711-227A	11/17/1987	DH-12
410	87-10567	AEH-8711-220	11/20/1987	DH-5
483	87-10568	AEH-8711-221	11/20/1987	DH-6
533	87-10569	AEH-8711-222	11/20/1987	DH-7
410	87-10570	AEH-8711-251	11/20/1987	DH-5
321	87-10571	AEH-8711-218	12/7/1987	DH-3
321	87-10572	AEH-8711-214	11/19/1987	DH-3
139	87-10573	AEH-8711-216	11/18/1987	DH-1
176	87-10574	AEH-8711-229	11/19/1987	DH-14
190	87-10575	AEH-8711-230	11/19/1987	DH-15
351	87-10578	AEH-8711-219	11/19/1987	DH-4
152	87-10579	AEH-8711-225	11/19/1987	DH-10
163	87-10580	AEH-8711-226	11/19/1987	DH-11
550	87-10780	AEH-8711-223	11/23/1987	DH-8
564	87-10781	AEH-8711-224	11/23/1987	DH-9

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1068	87-10783	AEH-8711-233	11/23/1987	DH-18
239	87-10784	AEH-8711-235	11/23/1987	DH-20
254	87-10785	AEH-8711-237	11/23/1987	DH-22
294	87-10786	AEH-8711-241	11/23/1987	DH-26
1095	87-10787	AEH-8711-242	11/23/1987	DH-27
227	87-10788	AEH-8711-217	11/24/1987	DH-2
275	87-10789	AEH-8711-239	11/24/1987	DH-24
195	87-10790	AEH-8711-231	11/24/1987	DH-16
1048	87-11004	AEH-8711-227	11/25/1987	DH-12
1055	87-11005	AEH-8711-228	11/25/1987	DH-13
264	87-11006	AEH-8711-238	11/25/1987	DH-23
213	87-11007	AEH-8711-234	11/30/1987	DH-19
1082	87-11008	AEH-8711-236	11/30/1987	DH-21
816	87-11009	AEH-8712-245	12/2/1987	EH-60
831	87-11010	AEH-8712-246	12/2/1987	EH-61
842	87-11011	AEH-8712-247	12/2/1987	EH-62
781	87-11012	AEH-8711-260	12/3/1987	EH-57A
1055	87-11013	AEH-8711-253	11/25/1987	DH-13
818	87-11016	AEH-8712-259	12/2/1987	EH-60
781	87-11017	AEH-8712-261	12/3/1987	EH-57A
213	87-11020	AEH-8712-264	11/30/1987	DH-19
296	88-21	AEH-8712-300	12/18/1987	DH-28
303	88-22	AEH-8712-303	12/18/1987	DH-29
296	88-23	AEH-8712-301	12/18/1987	DH-28
531	88-682	AEH-8501-122	1/18/1985	DH-7
175	88-2237	AEH-8704-4	4/2/1987	DH-14
714	88-2717	AEH-8804-342	4/15/1988	EH-50
756	88-2718	AEH-8804-345	4/13/1988	EH-53
769	88-2719	AEH-8804-346	4/13/1988	EH-54
781	88-2720	AEH-8804-347	4/13/1988	EH-57A
793	88-2721	AEH-8804-348	4/15/1988	EH-58
842	88-2722	AEH-8804-352	4/15/1988	EH-62
572	88-2723	AEH-8804-353	4/15/1988	EH-100
769	88-2729	AEH-8804-356	4/13/1988	EH-54
793	88-2730	AEH-8804-357	4/15/1988	EH-58
806	88-2735	AEH-8804-349	4/13/1988	EH-59
818	88-2772	AEH-8804-350	4/18/1988	EH-60
833	88-2773	AEH-8804-351	4/18/1988	EH-61
275	88-2774	AEH-8804-323	4/19/1988	DH-24
200	88-2775	AEH-8804-316	4/19/1988	DH-17
1082	88-2776	AEH-8804-320	4/19/1988	DH-21
595	88-2777	AEH-8804-355	4/20/1988	EH-102

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726	88-2779	AEH-8804-343	4/20/1988	EH-51
585	88-2780	AEH-8804-354	4/20/1988	EH-101
833	88-2783	AEH-8804-358	4/18/1988	EH-61
201	88-2785	AEH-8804-328	4/19/1988	DH-17
741	88-2787	AEH-8804-329	4/20/1988	EH-52
139	88-3118	AEH-8804-300	4/25/1988	DH-1
321	88-3119	AEH-8804-302	4/25/1988	DH-3
296	88-3120	AEH-8804-326	5/3/1988	DH-28
351	88-3120	AEH-8804-303	4/29/1988	DH-4
411	88-3121	AEH-8804-304	4/27/1988	DH-5
483	88-3122	AEH-8804-305	4/29/1988	DH-6
534	88-3123	AEH-8804-306	4/27/1988	DH-7
152	88-3124	AEH-8804-309	4/27/1988	DH-10
163	88-3125	AEH-8804-310	4/25/1988	DH-11
176	88-3126	AEH-8804-313	4/29/1988	DH-14
190	88-3127	AEH-8804-314	4/27/1988	DH-15
239	88-3128	AEH-8804-319	4/29/1988	DH-20
321	88-3129	AEH-8804-330	4/25/1988	DH-3
411	88-3130	AEH-8804-331	4/27/1988	DH-5
176	88-3131	AEH-8804-332	4/29/1988	DH-14
303	88-3135	AEH-8804-327	4/29/1988	DH-29
227	88-3200	AEH-8804-301	5/3/1988	DH-2
550	88-3201	AEH-8804-307	5/2/1988	DH-8
564	88-3202	AEH-8804-308	5/2/1988	DH-9
1056	88-3203	AEH-8804-312	5/2/1988	DH-13
1068	88-3204	AEH-8804-317	5/2/1988	DH-18
213	88-3205	AEH-8804-318	5/3/1988	DH-19
254	88-3206	AEH-8804-321	5/3/1988	DH-22
264	88-3207	AEH-8804-322	5/2/1988	DH-23
294	88-3208	AEH-8804-324	5/3/1988	DH-26
1095	88-3209	AEH-8804-325	5/3/1988	DH-27
264	88-3212	AEH-8804-333	5/2/1988	DH-23
295	88-3213	AEH-8804-334	5/3/1988	DH-26
727	89-6	AEH-8812-162	12/14/1988	EH-51
818	89-7	AEH-8812-169	12/14/1988	EH-60
833	89-8	AEH-8812-170	12/15/1988	EH-61
239	89-9	AEH-8812-138	12/15/1988	DH-20
550	89-10	AEH-8812-128	12/15/1988	DH-8
595	89-15	AEH-8812-174	12/13/1988	EH-102
595	89-16	AEH-8812-152	12/13/1988	EH-102
842	89-17	AEH-8812-171	12/13/1988	EH-62
741	89-18	AEH-8812-163	12/13/1988	EH-52

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227	89-21	AEH-8812-122	12/9/1988	DH-2
534	89-22	AEH-8812-127	12/9/1988	DH-7
163	89-23	AEH-8812-131	12/9/1988	DH-11
794	89-24	AEH-8812-167	12/9/1988	EH-58
781	89-25	AEH-8812-166	12/12/1988	EH-57A
756	89-26	AEH-8812-164	12/12/1988	EH-53
770	89-27	AEH-8812-165	12/12/1988	EH-54
714	89-28	AEH-8812-161	12/13/1988	EH-50
534	89-31	AEH-8812-153	12/9/1988	DH-7
1068	89-34	AEH-8812-136	12/19/1988	DH-18
1068	89-35	AEH-8812-151	12/19/1988	DH-18
352	89-36	AEH-8812-124	12/19/1988	DH-4
483	89-37	AEH-8812-126	12/19/1988	DH-6
152	89-38	AEH-8812-130	12/19/1988	DH-10
264	89-39	AEH-8812-141	12/20/1988	DH-23
295	89-40	AEH-8812-150	12/20/1988	DH-26
295	89-41	AEH-8812-143	12/20/1988	DH-26
1095	89-42	AEH-8812-144	12/20/1988	DH-27
304	89-43	AEH-8812-146	12/20/1988	DH-29
275	89-44	AEH-8812-142	12/21/1988	DH-24
276	89-45	AEH-8812-149	12/21/1988	DH-24
411	89-46	AEH-8812-125	12/19/1988	DH-5
254	89-50	AEH-8812-140	12/21/1988	DH-22
296	89-51	AEH-8812-145	12/21/1988	DH-28
201	89-52	AEH-8812-135	12/21/1988	DH-17
1056	89-53	AEH-8812-132	12/22/1988	DH-13
1056	89-54	AEH-8812-148	12/22/1988	DH-13
213	89-56	AEH-8812-137	12/28/1988	DH-19
1082	89-57	AEH-8812-139	12/28/1988	DH-21
214	89-58	AEH-8812-147	12/28/1988	DH-19
227	89-475	AEH-8904-201	4/11/1989	DH-2
322	89-476	AEH-8904-202	4/11/1989	DH-3
534	89-477	AEH-8904-206	4/11/1989	DH-7
164	89-478	AEH-8904-210	4/11/1989	DH-11
770	89-479	AEH-8904-236	4/11/1989	EH-54
794	89-480	AEH-8904-238	4/11/1989	EH-58
595	89-481	AEH-8904-245	4/11/1989	EH-102
782	89-482	AEH-8904-237	4/12/1989	EH-57A
756	89-483	AEH-8904-235	4/12/1989	EH-53
714	89-484	AEH-8904-232	4/12/1989	EH-50
239	89-485	AEH-8904-217	4/12/1989	DH-20

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741	89-488	AEH-8904-234	4/17/1989	EH-52
227	89-490	AEH-8904-246	4/11/1989	DH-2
782	89-492	AEH-8904-247	4/12/1989	EH-57A
1069	89-494	AEH-8904-248	4/17/1989	DH-18
818	89-495	AEH-8904-240	4/17/1989	EH-60
842	89-496	AEH-8904-242	4/18/1989	EH-62
550	89-497	AEH-8904-207	4/18/1989	DH-8
411	89-498	AEH-8904-204	4/18/1989	DH-5
139	89-499	AEH-8904-200	4/18/1989	DH-1
352	89-500	AEH-8904-203	4/18/1989	DH-4
483	89-501	AEH-8904-205	4/18/1989	DH-6
564	89-502	AEH-8904-208	4/19/1989	DH-9
153	89-503	AEH-8904-209	4/19/1989	DH-10
201	89-504	AEH-8904-214	4/19/1989	DH-17
1056	89-505	AEH-8904-211	4/19/1989	DH-13
276	89-506	AEH-8904-221	4/19/1989	DH-24
304	89-507	AEH-8904-225	4/19/1989	DH-29
264	89-508	AEH-8904-220	4/19/1989	DH-23
254	89-509	AEH-8904-219	4/19/1989	DH-22
297	89-510	AEH-8904-224	4/20/1989	DH-28
295	89-511	AEH-8904-222	4/20/1989	DH-26
1096	89-512	AEH-8904-223	4/20/1989	DH-27
214	89-513	AEH-8904-216	4/20/1989	DH-19
1082	89-514	AEH-8904-218	4/20/1989	DH-21
483	89-543	AEH-8904-271	4/18/1989	DH-6
153	89-545	AEH-8904-272	4/19/1989	DH-10
295	89-547	AEH-8904-291	4/20/1989	DH-26
322	89-792	AEH-8910-402	10/11/1989	DH-3
227	89-793	AEH-8910-401	10/11/1989	DH-2
140	89-794	AEH-8910-400	10/11/1989	DH-1
756	89-795	AEH-8910-443	10/12/1989	EH-53
770	89-796	AEH-8910-444	10/12/1989	EH-54
794	89-797	AEH-8910-446	10/12/1989	EH-58
715	89-798	AEH-8910-440	10/12/1989	EH-50
595	89-799	AEH-8910-453	10/12/1989	EH-102
534	89-801	AEH-8910-406	10/12/1989	DH-7
153	89-802	AEH-8910-409	10/12/1989	DH-10
782	89-804	AEH-8910-445	10/11/1989	EH-57A
322	89-806	AEH-8910-426	10/11/1989	DH-3
770	89-808	AEH-8910-427	10/12/1989	EH-54
727	89-809	AEH-8910-441	10/17/1989	EH-51

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842	89-812	AEH-8910-450	10/17/1989	EH-62
1048	89-813	AEH-8910-460	10/18/1989	DH-12
352	89-814	AEH-8910-403	10/18/1989	DH-4
411	89-815	AEH-8910-404	10/18/1989	DH-5
483	89-816	AEH-8910-405	10/17/1989	DH-6
550	89-817	AEH-8910-407	10/18/1989	DH-8
564	89-818	AEH-8910-408	10/18/1989	DH-9
1056	89-819	AEH-8910-411	10/18/1989	DH-13
201	89-820	AEH-8910-414	10/19/1989	DH-17
1069	89-821	AEH-8910-415	10/18/1989	DH-18
239	89-822	AEH-8910-417	10/18/1989	DH-20
276	89-823	AEH-8910-421	10/18/1989	DH-24
240	89-826	AEH-8910-429	10/18/1989	DH-20
201	89-827	AEH-8910-430	10/19/1989	DH-17
164	89-829	AEH-8910-410	10/17/1989	DH-11
254	89-830	AEH-8910-419	10/19/1989	DH-22
164	89-832	AEH-8910-428	10/17/1989	DH-11
214	89-833	AEH-8910-416	10/23/1989	DH-19
1083	89-834	AEH-8910-418	10/24/1989	DH-21
265	89-835	AEH-8910-420	10/23/1989	DH-23
1096	89-836	AEH-8910-423	10/23/1989	DH-27
297	89-837	AEH-8910-424	10/24/1989	DH-28
304	89-838	AEH-8910-425	10/24/1989	DH-29
214	89-840	AEH-8910-431	10/23/1989	DH-19
304	89-841	AEH-8910-432	10/24/1989	DH-29
140	90-1030	AEH-9005-400	4/27/1990	DH-1
228	90-1031	AEH-9005-401	4/27/1990	DH-2
322	90-1032	AEH-9005-402	4/27/1990	DH-3
411	90-1033	AEH-9005-404	4/28/1990	DH-5
535	90-1034	AEH-9005-406	4/27/1990	DH-7
551	90-1035	AEH-9005-407	4/28/1990	DH-8
164	90-1036	AEH-9005-410	4/27/1990	DH-11
1069	90-1037	AEH-9005-415	4/28/1990	DH-18
240	90-1038	AEH-9005-417	4/28/1990	DH-20
228	90-1039	AEH-9005-426	4/27/1990	DH-2
782	90-1040	AEH-9005-427	4/28/1990	EH-57A
742	90-1041	AEH-9005-428	4/29/1990	EH-52
715	90-1045	AEH-9005-440	4/28/1990	EH-50
727	90-1046	AEH-9005-441	4/29/1990	EH-51
742	90-1047	AEH-9005-442	4/29/1990	EH-52
756	90-1048	AEH-9005-443	4/28/1990	EH-53

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782	90-1050	AEH-9005-445	4/28/1990	EH-57A
794	90-1051	AEH-9005-446	4/28/1990	EH-58
843	90-1052	AEH-9005-450	4/27/1990	EH-62
596	90-1053	AEH-9005-453	4/28/1990	EH-102
352	90-1054	AEH-9005-403	4/29/1990	DH-4
484	90-1055	AEH-9005-405	4/29/1990	DH-6
153	90-1056	AEH-9005-408	4/29/1990	DH-10
265	90-1057	AEH-9005-420	4/29/1990	DH-23
1096	90-1058	AEH-9005-423	4/29/1990	DH-27
819	90-1059	AEH-9005-448	4/29/1990	EH-60
1057	90-1061	AEH-9005-411	5/1/1990	DH-13
201	90-1062	AEH-9005-414	5/1/1990	DH-17
214	90-1063	AEH-9005-416	5/1/1990	DH-19
1083	90-1064	AEH-9005-418	5/1/1990	DH-21
255	90-1065	AEH-9005-419	5/1/1990	DH-22
276	90-1066	AEH-9005-421	5/1/1990	DH-24
297	90-1067	AEH-9005-424	5/1/1990	DH-28
304	90-1068	AEH-9005-425	5/1/1990	DH-29
276	90-1078	AEH-9005-429	5/1/1990	DH-24
535	90-2220	AEH-9011-713	11/27/1990	DH-7
322	90-2221	AEH-9011-709	11/27/1990	DH-3
228	90-2222	AEH-9011-708	11/27/1990	DH-2
140	90-2223	AEH-9011-707	11/28/1990	DH-1
715	90-2225	AEH-9011-744	11/28/1990	EH-50
782	90-2226	AEH-9011-749	11/28/1990	EH-57A
140	90-2227	AEH-9011-731	11/28/1990	DH-1
322	90-2229	AEH-9011-730	11/27/1990	DH-3
770	90-2230	AEH-9011-748	11/28/1990	EH-54
164	90-2231	AEH-9011-717	11/28/1990	DH-11
756	90-2233	AEH-9011-747	11/28/1990	EH-53
742	90-2234	AEH-9011-746	12/3/1990	EH-52
412	90-2235	AEH-9011-711	12/3/1990	DH-5
1069	90-2237	AEH-9011-720	12/3/1990	DH-18
153	90-2238	AEH-9011-716	12/3/1990	DH-10
1069	90-2239	AEH-9011-733	12/3/1990	DH-18
484	90-2240	AEH-9011-712	12/3/1990	DH-6
727	90-2241	AEH-9011-734	12/4/1990	EH-51
551	90-2242	AEH-9011-714	12/4/1990	DH-8
727	90-2243	AEH-9011-745	12/4/1990	EH-51
202	90-2244	AEH-9011-719	12/4/1990	DH-17
352	90-2245	AEH-9011-710	12/4/1990	DH-4
794	90-2246	AEH-9011-732	11/30/1990	EH-58

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265	90-2249	AEH-9011-725	12/4/1990	DH-23
843	90-2250	AEH-9011-753	11/30/1990	EH-62
240	90-2251	AEH-9011-722	11/30/1990	DH-20
596	90-2252	AEH-9011-754	11/30/1990	EH-102
806	90-2254	AEH-9011-771	11/30/1990	EH-59
794	90-2255	AEH-9011-750	11/30/1990	EH-58
1057	90-2257	AEH-9011-718	12/6/1990	DH-13
214	90-2258	AEH-9011-721	12/6/1990	DH-19
1083	90-2259	AEH-9011-723	12/6/1990	DH-21
255	90-2260	AEH-9011-724	12/5/1990	DH-22
276	90-2261	AEH-9011-726	12/5/1990	DH-24
1096	90-2262	AEH-9011-727	12/5/1990	DH-27
297	90-2263	AEH-9011-728	12/6/1990	DH-28
304	90-2264	AEH-9011-729	12/6/1990	DH-29
277	90-2265	AEH-9011-735	12/5/1990	DH-24
215	90-2266	AEH-9011-736	12/6/1990	DH-19
757	91-2660	AEH-9105-120	5/3/1991	EH-53
771	91-2661	AEH-9105-121	5/3/1991	EH-54
783	91-2662	AEH-9105-124	5/3/1991	EH-57A
795	91-2663	AEH-9105-125	5/3/1991	EH-58
140	91-2664	AEH-9105-134	5/3/1991	DH-1
228	91-2665	AEH-9105-135	5/3/1991	DH-2
323	91-2666	AEH-9105-136	5/3/1991	DH-3
228	91-2667	AEH-9105-137	5/3/1991	DH-2
535	91-2668	AEH-9105-142	5/3/1991	DH-7
164	91-2669	AEH-9105-148	5/3/1991	DH-11
806	91-2671	AEH-9105-126	5/6/1991	EH-59
596	91-2672	AEH-9105-133	5/6/1991	EH-102
819	91-2673	AEH-9105-144	5/8/1991	EH-60
819	91-2674	AEH-9105-127	5/8/1991	EH-60
843	91-2675	AEH-9105-132	5/6/1991	EH-62
806	91-2676	AEH-9105-122	5/6/1991	EH-59
715	91-2677	AEH-9105-117	5/6/1991	EH-50
551	91-2678	AEH-9105-143	5/8/1991	DH-8
202	91-2679	AEH-9105-150	5/8/1991	DH-17
255	91-2680	AEH-9105-157	5/8/1991	DH-22
240	91-2681	AEH-9105-129	5/7/1991	DH-20
240	91-2682	AEH-9105-155	5/7/1991	DH-20
1069	91-2683	AEH-9105-151	5/7/1991	DH-18
728	91-2684	AEH-9105-118	5/7/1991	EH-51
742	91-2685	AEH-9105-119	5/7/1991	EH-52
215	91-2688	AEH-9105-154	5/8/1991	DH-19

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412	91-2690	AEH-9105-140	5/7/1991	DH-5
265	91-2691	AEH-9105-158	5/8/1991	DH-23
153	91-2692	AEH-9105-147	5/8/1991	DH-10
484	91-2693	AEH-9105-141	5/8/1991	DH-6
1096	91-2815	AEH-9105-163	5/9/1991	DH-27
297	91-2816	AEH-9105-164	5/9/1991	DH-28
1057	91-2817	AEH-9105-149	5/9/1991	DH-13
1096	91-2818	AEH-9105-152	5/9/1991	DH-27
1083	91-2826	AEH-9105-156	5/10/1991	DH-21
1083	91-2827	AEH-9105-159	5/10/1991	DH-21
305	91-2828	AEH-9105-165	5/10/1991	DH-29
277	91-3053	AEH-9105-162	5/8/1991	DH-24
323	91-3611	AEH-9111-309	11/12/1991	DH-3
535	91-3612	AEH-9111-315	11/12/1991	DH-7
140	91-3613	AEH-9111-322	11/12/1991	DH-1
228	91-3614	AEH-9111-341	11/12/1991	DH-2
141	91-3616	AEH-9111-357	11/12/1991	DH-1
783	91-3617	AEH-9111-317	11/13/1991	EH-57A
757	91-3618	AEH-9111-318	11/13/1991	EH-53
715	91-3619	AEH-9111-321	11/13/1991	EH-50
843	91-3620	AEH-9111-325	11/13/1991	EH-62
771	91-3621	AEH-9111-328	11/13/1991	EH-54
165	91-3622	AEH-9111-345	11/13/1991	DH-11
757	91-3623	AEH-9111-355	11/13/1991	EH-53
1070	91-3854	AEH-9111-316	11/15/1991	DH-18
240	91-3855	AEH-9111-319	11/15/1991	DH-20
596	91-3856	AEH-9111-332	11/15/1991	EH-102
795	91-3857	AEH-9111-333	11/15/1991	EH-58
806	91-3858	AEH-9111-344	11/15/1991	EH-59
1070	91-3860	AEH-9111-360	11/15/1991	DH-18
728	91-3861	AEH-9111-300	11/18/1991	EH-51
564	91-3862	AEH-9111-301	11/18/1991	DH-9
551	91-3863	AEH-9111-320	11/18/1991	DH-8
154	91-3864	AEH-9111-334	11/18/1991	DH-10
742	91-3865	AEH-9111-346	11/18/1991	EH-52
728	91-3868	AEH-9111-363	11/18/1991	EH-51
484	91-3869	AEH-9111-302	11/19/1991	DH-6
353	91-3870	AEH-9111-338	11/19/1991	DH-4
412	91-3871	AEH-9111-350	11/19/1991	DH-5
353	91-3872	AEH-9111-364	11/19/1991	DH-4
1097	91-3874	AEH-9111-323	11/19/1991	DH-27
265	91-3875	AEH-9111-324	11/19/1991	DH-23

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297	91-3877	AEH-9111-340	11/19/1991	DH-28
215	91-3878	AEH-9111-304	11/20/1991	DH-19
202	91-3879	AEH-9111-305	11/20/1991	DH-17
1083	91-3880	AEH-9111-308	11/21/1991	DH-21
277	91-3881	AEH-9111-310	11/20/1991	DH-24
819	91-3882	AEH-9111-329	11/20/1991	EH-60
1057	91-3883	AEH-9111-339	11/21/1991	DH-13
305	91-3884	AEH-9111-348	11/22/1991	DH-29
1049	91-3885	AEH-9111-349	11/21/1991	DH-12
202	91-3887	AEH-9111-367	11/20/1991	DH-17
1084	91-3889	AEH-9111-370	11/21/1991	DH-21
305	91-3890	AEH-9111-371	11/22/1991	DH-29
79	91-3891	AEH-9111-372	11/22/1991	APSD-4
67	91-3892	AEH-9111-373	11/22/1991	APSD-3
53	91-3893	AEH-9111-374	11/22/1991	APSD-2
1	91-3895	AEH-9111-376	11/22/1991	APSD-1
535	92-4277	AEH-9204-142	4/15/1992	DH-7
795	92-4279	AEH-9204-160	4/15/1992	EH-58
771	92-4280	AEH-9204-161	4/15/1992	EH-54
141	92-4282	AEH-9204-152	4/15/1992	DH-1
783	92-4283	AEH-9204-175	4/15/1992	EH-57A
757	92-4285	AEH-9204-106	4/15/1992	EH-53
229	92-4290	AEH-9204-120	4/14/1992	DH-2
165	92-4292	AEH-9204-132	4/15/1992	DH-11
807	92-4293	AEH-9204-134	4/15/1992	EH-59
795	92-4294	AEH-9204-137	4/14/1992	EH-58
715	92-4295	AEH-9204-102	4/22/1992	EH-50
353	92-4297	AEH-9204-105	4/21/1992	DH-4
843	92-4298	AEH-9204-119	4/23/1992	EH-62
241	92-4299	AEH-9204-109	4/22/1992	DH-20
353	92-4300	AEH-9204-150	4/21/1992	DH-4
596	92-4303	AEH-9204-170	4/22/1992	EH-102
1070	92-4305	AEH-9204-173	4/22/1992	DH-18
323	92-4308	AEH-9204-165	4/23/1992	DH-3
843	92-4311	AEH-9204-149	4/23/1992	EH-62
202	92-4348	AEH-9204-148	4/29/1992	DH-17
820	92-4350	AEH-9204-155	4/29/1992	EH-60
265	92-4351	AEH-9204-158	4/28/1992	DH-23
728	92-4352	AEH-9204-167	4/28/1992	EH-51
728	92-4353	AEH-9204-159	4/28/1992	EH-51
215	92-4354	AEH-9204-163	4/28/1992	DH-19
1057	92-4355	AEH-9204-129	4/29/1992	DH-13

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743	92-4357	AEH-9204-139	4/28/1992	EH-52
1097	92-4359	AEH-9204-107	4/28/1992	DH-27
298	92-4360	AEH-9204-100	4/28/1992	DH-28
277	92-4361	AEH-9204-153	4/29/1992	DH-24
412	92-4363	AEH-9204-157	4/27/1992	DH-5
154	92-4364	AEH-9204-113	4/27/1992	DH-10
277	92-4365	AEH-9204-169	4/29/1992	DH-24
154	92-4366	AEH-9204-156	4/27/1992	DH-10
484	92-4367	AEH-9204-177	4/27/1992	DH-6
551	92-4368	AEH-9204-108	4/27/1992	DH-8
1084	92-4395	AEH-9204-154	5/4/1992	DH-21
305	92-4396	AEH-9204-179	5/4/1992	DH-29
67	92-4397	AEH-9204-185	5/4/1992	APSD-3
53	92-4398	AEH-9204-184	5/4/1992	APSD-2
305	92-4400	AEH-9204-130	5/4/1992	DH-29
1	92-4401	AEH-9204-180	5/4/1992	APSD-1
79	92-4402	AEH-9204-171	5/4/1992	APSD-4
141	92-6765	EHC-9211-123	11/11/1992	DH-1
165	92-6766	EHC-9211-102	11/11/1992	DH-11
535	92-6767	EHC-9211-120	11/11/1992	DH-7
783	92-6769	EHC-9211-101	11/11/1992	EH-57A
165	92-6770	EHC-9211-172	11/11/1992	DH-11
229	92-6771	EHC-9211-142	11/11/1992	DH-2
1070	92-6772	EHC-9211-156	11/11/1992	DH-18
241	92-6773	EHC-9211-104	11/12/1992	DH-20
241	92-6774	EHC-9211-114	11/12/1992	DH-20
323	92-6775	EHC-9211-167	11/12/1992	DH-3
844	92-6777	EHC-9211-118	11/12/1992	EH-62
807	92-6779	EHC-9211-159	11/14/1992	EH-59
807	92-6780	EHC-9211-131	11/14/1992	EH-59
795	92-6781	EHC-9211-113	11/14/1992	EH-58
771	92-6782	EHC-9211-160	11/14/1992	EH-54
716	92-6783	EHC-9211-127	11/14/1992	EH-50
596	92-6784	EHC-9211-196	11/14/1992	EH-102
757	92-6785	EHC-9211-169	11/13/1992	EH-53
728	92-6787	EHC-9211-119	11/15/1992	EH-51
154	92-6788	EHC-9211-121	11/15/1992	DH-10
484	92-6789	EHC-9211-184	11/15/1992	DH-6
353	92-6790	EHC-9211-148	11/15/1992	DH-4
353	92-6791	EHC-9211-136	11/15/1992	DH-4
412	92-6792	EHC-9211-175	11/15/1992	DH-5
55	92-6793	EHC-9211-188	11/22/1992	APSD-2

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79	92-6795	EHC-9211-190	11/22/1992	APSD-4
305	92-6796	EHC-9211-161	11/22/1992	DH-29
306	92-6797	EHC-9211-178	11/22/1992	DH-29
203	92-6801	EHC-9211-128	11/20/1992	DH-17
298	92-6802	EHC-9211-117	11/19/1992	DH-28
202	92-6803	EHC-9211-147	11/20/1992	DH-17
277	92-6804	EHC-9211-137	11/20/1992	DH-24
820	92-6806	EHC-9211-173	11/21/1992	EH-60
1049	92-6807	EHC-9211-151	11/21/1992	DH-12
1057	92-6808	EHC-9211-155	11/21/1992	DH-13
1097	92-6811	EHC-9211-152	11/19/1992	DH-27
1	92-6813	EHC-9211-157	11/21/1992	APSD-1
551	92-6814	EHC-9211-122	11/19/1992	DH-8
743	92-6815	EHC-9211-111	11/19/1992	EH-52
743	92-6818	EHC-9211-141	11/19/1992	EH-52
266	92-6819	EHC-9211-176	11/19/1992	DH-23
255	92-6821	EHC-9211-189	11/19/1992	DH-22
565	92-6822	EHC-9211-166	11/19/1992	DH-9
1	92-6823	EHC-9211-150	11/21/1992	APSD-1
1084	92-6824	EHC-9211-126	11/22/1992	DH-21
215	93-6820	EHC-9211-100	11/20/1992	DH-19
215	93-7719	EHC-9305-106	4/28/1993	DH-19
141	93-7731	EHC-9305-116	4/29/1993	DH-1
1070	93-7732	EHC-9305-117	4/30/1993	DH-18
1070	93-7734	EHC-9305-122	4/30/1993	DH-18
241	93-7735	EHC-9305-123	4/30/1993	DH-20
536	93-7736	EHC-9305-124	4/30/1993	DH-7
165	93-7737	EHC-9305-125	4/30/1993	DH-11
229	93-7738	EHC-9305-126	4/30/1993	DH-2
716	93-7739	EHC-9305-127	4/30/1993	EH-50
783	93-7740	EHC-9305-128	4/30/1993	EH-57A
771	93-7741	EHC-9305-129	4/30/1993	EH-54
758	93-7764	EHC-9305-131	5/3/1993	EH-53
807	93-7766	EHC-9305-133	5/3/1993	EH-59
757	93-7767	EHC-9305-134	5/3/1993	EH-53
597	93-7768	EHC-9305-135	5/3/1993	EH-102
795	93-7769	EHC-9305-136	5/3/1993	EH-58
323	93-7770	EHC-9305-137	5/3/1993	DH-3
844	93-7771	EHC-9305-138	5/4/1993	EH-62
729	93-7772	EHC-9305-139	5/4/1993	EH-51
354	93-7773	EHC-9305-140	5/4/1993	DH-4
412	93-7775	EHC-9305-142	5/4/1993	DH-5

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552	93-7777	EHC-9305-144	5/4/1993	DH-8
565	93-7778	EHC-9305-145	5/4/1993	DH-9
154	93-7779	EHC-9305-146	5/5/1993	DH-10
485	93-7780	EHC-9305-147	5/5/1993	DH-6
485	93-7782	EHC-9305-149	5/5/1993	DH-6
743	93-7783	EHC-9305-150	5/5/1993	EH-52
203	93-7827	EHC-9305-152	5/5/1993	DH-17
256	93-7828	EHC-9305-154	5/5/1993	DH-22
266	93-7829	EHC-9305-155	5/5/1993	DH-23
1097	93-7830	EHC-9305-156	5/5/1993	DH-27
298	93-7831	EHC-9305-157	5/5/1993	DH-28
278	93-7832	EHC-9305-158	5/5/1993	DH-24
1049	93-7834	EHC-9305-159	5/6/1993	DH-12
1058	93-7835	EHC-9305-160	5/6/1993	DH-13
820	93-7836	EHC-9305-161	5/6/1993	EH-60
1058	93-7837	EHC-9305-162	5/6/1993	DH-13
1084	93-7838	EHC-9305-165	5/6/1993	DH-21
1	93-7841	EHC-9305-168	5/7/1993	APSD-1
55	93-7843	EHC-9305-170	5/7/1993	APSD-2
69	93-7844	EHC-9305-171	5/7/1993	APSD-3
55	93-7845	EHC-9305-172	5/7/1993	APSD-2
79	93-7846	EHC-9305-173	5/7/1993	APSD-4
306	93-7847	EHC-9305-174	5/7/1993	DH-29
807	93-9146	EHC-9311-142	11/4/1993	EH-59
716	93-9147	EHC-9311-135	11/4/1993	EH-50
141	93-9148	EHC-9311-115	11/3/1993	DH-1
716	93-9149	EHC-9311-163	11/4/1993	EH-50
229	93-9150	EHC-9311-161	11/3/1993	DH-2
783	93-9151	EHC-9311-140	11/3/1993	EH-57A
229	93-9152	EHC-9311-124	11/3/1993	DH-2
796	93-9154	EHC-9311-141	11/4/1993	EH-58
536	93-9155	EHC-9311-129	11/4/1993	DH-7
771	93-9157	EHC-9311-139	11/4/1993	EH-54
165	93-9193	EHC-9311-108	11/5/1993	DH-11
1071	93-9194	EHC-9311-113	11/5/1993	DH-18
241	93-9195	EHC-9311-116	11/5/1993	DH-20
324	93-9196	EHC-9311-125	11/8/1993	DH-3
597	93-9198	EHC-9311-134	11/8/1993	EH-102
758	93-9199	EHC-9311-138	11/5/1993	EH-53
844	93-9200	EHC-9311-145	11/8/1993	EH-62
166	93-9202	EHC-9311-165	11/5/1993	DH-11
844	93-9204	EHC-9311-167	11/8/1993	EH-62

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354	93-9217	EHC-9311-126	11/10/1993	DH-4
413	93-9218	EHC-9311-172	11/10/1993	DH-5
413	93-9219	EHC-9311-127	11/10/1993	DH-5
552	93-9220	EHC-9311-130	11/10/1993	DH-8
485	93-9221	EHC-9311-128	11/10/1993	DH-6
565	93-9222	EHC-9311-131	11/10/1993	DH-9
266	93-9224	EHC-9311-119	11/11/1993	DH-23
216	93-9225	EHC-9311-114	11/11/1993	DH-19
1097	93-9226	EHC-9311-121	11/11/1993	DH-27
743	93-9228	EHC-9311-137	11/9/1993	EH-52
729	93-9230	EHC-9311-136	11/9/1993	EH-51
729	93-9231	EHC-9311-175	11/9/1993	EH-51
256	93-9233	EHC-9311-174	11/11/1993	DH-22
1049	93-9270	EHC-9311-109	11/12/1993	DH-12
1058	93-9271	EHC-9311-110	11/12/1993	DH-13
203	93-9272	EHC-9311-112	11/11/1993	DH-17
256	93-9273	EHC-9311-118	11/11/1993	DH-22
278	93-9274	EHC-9311-120	11/11/1993	DH-24
298	93-9275	EHC-9311-122	11/12/1993	DH-28
820	93-9276	EHC-9311-143	11/12/1993	EH-60
820	93-9278	EHC-9311-178	11/12/1993	EH-60
1	93-9332	EHC-9311-100	11/16/1993	APSD-1
55	93-9333	EHC-9311-101	11/16/1993	APSD-2
69	93-9334	EHC-9311-102	11/16/1993	APSD-3
79	93-9335	EHC-9311-103	11/16/1993	APSD-4
1084	93-9336	EHC-9311-117	11/16/1993	DH-21
306	93-9337	EHC-9311-123	11/16/1993	DH-29
306	93-9338	EHC-9311-180	11/16/1993	DH-29
89	93-9340	EHC-9311-182	11/17/1993	APSD-7
109	93-9341	EHC-9311-183	11/17/1993	APSD-8
126	93-9342	EHC-9311-184	11/17/1993	APSD-9
11	93-9343	EHC-9311-185	11/17/1993	APSD-10
22	93-9344	EHC-9311-186	11/17/1993	APSD-11
31	93-9345	EHC-9311-187	11/17/1993	APSD-12
40	93-9346	EHC-9311-188	11/17/1993	APSD-13
47	93-9347	EHC-9311-189	11/17/1993	APSD-14
40	93-9349	EHC-9311-191	11/17/1993	APSD-13
166	94-1096	EHC-9405-114	5/4/1994	DH-11
142	94-1097	EHC-9405-121	5/4/1994	DH-1
229	94-1098	EHC-9405-129	5/4/1994	DH-2
536	94-1099	EHC-9405-134	5/4/1994	DH-7
758	94-1100	EHC-9405-142	5/4/1994	EH-53
772	94-1101	EHC-9405-143	5/4/1994	EH-54

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141	94-1103	EHC-9405-160	5/4/1994	DH-1
716	94-1105	EHC-9405-139	5/5/1994	EH-50
807	94-1106	EHC-9405-146	5/5/1994	EH-59
90	94-1112	EHC-9405-164	5/6/1994	APSD-7
597	94-1113	EHC-9405-138	5/5/1994	EH-102
90	94-1114	EHC-9405-111	5/6/1994	APSD-7
111	94-1115	EHC-9405-112	5/6/1994	APSD-8
354	94-1318	EHC-9405-131	5/6/1994	DH-4
413	94-1319	EHC-9405-132	5/6/1994	DH-5
2	94-1324	EHC-9405-100	5/7/1994	APSD-1
55	94-1325	EHC-9405-101	5/7/1994	APSD-2
306	94-1326	EHC-9405-169	5/7/1994	DH-29
1084	94-1327	EHC-9405-168	5/7/1994	DH-21
298	94-1328	EHC-9405-127	5/7/1994	DH-28
307	94-1329	EHC-9405-128	5/7/1994	DH-29
1071	94-1331	EHC-9405-119	5/9/1994	DH-18
242	94-1332	EHC-9405-122	5/9/1994	DH-20
1071	94-1334	EHC-9405-171	5/9/1994	DH-18
324	94-1336	EHC-9405-130	5/10/1994	DH-3
796	94-1339	EHC-9405-145	5/10/1994	EH-58
844	94-1340	EHC-9405-149	5/10/1994	EH-62
552	94-1347	EHC-9405-177	5/11/1994	DH-8
485	94-1348	EHC-9405-133	5/11/1994	DH-6
552	94-1349	EHC-9405-135	5/11/1994	DH-8
565	94-1350	EHC-9405-136	5/11/1994	DH-9
266	94-1351	EHC-9405-124	5/11/1994	DH-23
743	94-1352	EHC-9405-141	5/11/1994	EH-52
216	94-1353	EHC-9405-120	5/11/1994	DH-19
729	94-1354	EHC-9405-140	5/11/1994	EH-51
69	94-1373	EHC-9405-102	5/13/1994	APSD-3
80	94-1374	EHC-9405-103	5/13/1994	APSD-4
11	94-1375	EHC-9405-106	5/13/1994	APSD-10
22	94-1376	EHC-9405-107	5/13/1994	APSD-11
31	94-1377	EHC-9405-108	5/13/1994	APSD-12
40	94-1378	EHC-9405-109	5/13/1994	APSD-13
126	94-1379	EHC-9405-113	5/13/1994	APSD-9
22	94-1381	EHC-9405-181	5/13/1994	APSD-11
1049	94-1382	EHC-9405-115	5/12/1994	DH-12
1058	94-1383	EHC-9405-116	5/12/1994	DH-13
203	94-1384	EHC-9405-118	5/12/1994	DH-17
278	94-1385	EHC-9405-125	5/12/1994	DH-24
820	94-1386	EHC-9405-147	5/12/1994	EH-60

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1058	94-1387	EHC-9405-179	5/12/1994	DH-13
48	94-1451	EHC-9405-110	5/16/1994	APSD-14
256	94-1452	EHC-9405-123	5/16/1994	DH-22
1098	94-1453	EHC-9405-126	5/16/1994	DH-27
1097	94-1454	EHC-9405-184	5/16/1994	DH-27
142	94-3259	EHC-9411-121	11/9/1994	DH-1
242	94-3260	EHC-9411-122	11/9/1994	DH-20
230	94-3261	EHC-9411-129	11/9/1994	DH-2
716	94-3262	EHC-9411-140	11/9/1994	EH-50
758	94-3263	EHC-9411-143	11/9/1994	EH-53
772	94-3264	EHC-9411-144	11/9/1994	EH-54
784	94-3265	EHC-9411-145	11/9/1994	EH-57A
142	94-3266	EHC-9411-162	11/9/1994	DH-1
166	94-3268	EHC-9411-114	11/10/1994	DH-11
1071	94-3269	EHC-9411-119	11/10/1994	DH-18
324	94-3270	EHC-9411-130	11/10/1994	DH-3
536	94-3271	EHC-9411-134	11/10/1994	DH-7
597	94-3272	EHC-9411-139	11/10/1994	EH-102
796	94-3273	EHC-9411-146	11/10/1994	EH-58
808	94-3274	EHC-9411-147	11/10/1994	EH-59
844	94-3275	EHC-9411-151	11/10/1994	EH-62
166	94-3276	EHC-9411-167	11/10/1994	DH-11
357	94-3278	EHC-9411-131	11/11/1994	DH-4
416	94-3279	EHC-9411-132	11/11/1994	DH-5
485	94-3280	EHC-9411-133	11/11/1994	DH-6
552	94-3281	EHC-9411-135	11/11/1994	DH-8
729	94-3282	EHC-9411-141	11/11/1994	EH-51
744	94-3283	EHC-9411-142	11/11/1994	EH-52
552	94-3285	EHC-9411-173	11/11/1994	DH-8
3	94-3358	EHC-9411-100	11/15/1994	APSD-1
80	94-3359	EHC-9411-103	11/14/1994	APSD-4
13	94-3362	EHC-9411-106	11/14/1994	APSD-10
23	94-3363	EHC-9411-107	11/14/1994	APSD-11
32	94-3364	EHC-9411-108	11/14/1994	APSD-12
128	94-3365	EHC-9411-113	11/16/1994	APSD-9
216	94-3366	EHC-9411-120	11/15/1994	DH-19
266	94-3367	EHC-9411-123	11/15/1994	DH-23
13	94-3368	EHC-9411-175	11/14/1994	APSD-10
56	94-3380	EHC-9411-101	11/21/1994	APSD-2
70	94-3381	EHC-9411-102	11/21/1994	APSD-3
41	94-3382	EHC-9411-109	11/21/1994	APSD-13
96	94-3383	EHC-9411-111	11/17/1994	APSD-7
114	94-3384	EHC-9411-112	11/17/1994	APSD-8

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1050	94-3385	EHC-9411-115	11/18/1994	DH-12
1058	94-3386	EHC-9411-116	11/18/1994	DH-13
204	94-3387	EHC-9411-118	11/18/1994	DH-17
256	94-3388	EHC-9411-124	11/16/1994	DH-22
278	94-3389	EHC-9411-125	11/17/1994	DH-24
1098	94-3390	EHC-9411-126	11/16/1994	DH-27
298	94-3391	EHC-9411-127	11/18/1994	DH-28
308	94-3392	EHC-9411-128	11/21/1994	DH-29
821	94-3393	EHC-9411-148	11/18/1994	EH-60
256	94-3395	EHC-9411-179	11/16/1994	DH-22
203	94-3398	EHC-9411-182	11/18/1994	DH-17
1085	94-3399	EHC-9411-183	11/17/1994	DH-21
821	94-3400	EHC-9411-184	11/18/1994	EH-60
56	94-3401	EHC-9411-185	11/21/1994	APSD-2
89	94-502001	AHCL-9403-119	3/28/1994	APSD-7
176	94-502003	AHCL-9403-111	3/28/1994	DH-14
109	94-502004	AHCL-9403-109	3/28/1994	APSD-8
413	94-502005	AHCL-9403-115	3/28/1994	DH-5
354	94-502006	AHCL-9403-114	3/28/1994	DH-4
89	94-502008	AHCL-9403-108	3/28/1994	APSD-7
111	94-591001	AHCL-9404-150	4/11/1994	APSD-8
177	94-591002	AHCL-9404-151	4/11/1994	DH-14
354	94-591003	AHCL-9404-152	4/11/1994	DH-4
413	94-591004	AHCL-9404-153	4/11/1994	DH-5
89	94-591005	AHCL-9404-154	4/11/1994	APSD-7
89	94-591006	AHCL-9404-155	4/11/1994	APSD-7
22	94-591012	AHCL-9404-161	4/12/1994	APSD-11
126	94-591013	AHCL-9404-162	4/12/1994	APSD-9
11	94-592001	AHCL-9404-163	4/12/1994	APSD-10
31	94-592002	AHCL-9404-164	4/12/1994	APSD-12
2	94-592003	AHCL-9404-165	4/12/1994	APSD-1
55	94-592004	AHCL-9404-166	4/12/1994	APSD-2
69	94-592005	AHCL-9404-167	4/12/1994	APSD-3
79	94-592006	AHCL-9404-168	4/12/1994	APSD-4
241	94-592007	AHCL-9404-169	4/12/1994	DH-20
306	94-592008	AHCL-9404-170	4/12/1994	DH-29
40	94-592009	AHCL-9404-171	4/12/1994	APSD-13
48	94-592011	AHCL-9404-173	4/12/1994	APSD-14
48	94-592012	AHCL-9404-174	4/12/1994	APSD-14
89	94-747001	AHCL-9405-200	5/6/1994	APSD-7
111	94-747002	AHCL-9405-201	5/6/1994	APSD-8
177	94-747003	AHCL-9405-202	5/6/1994	DH-14
354	94-747004	AHCL-9405-203	5/6/1994	DH-4

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90	94-747011	AHCL-9405-210	5/6/1994	APSD-7
90	94-798001	AHCL-9405-215	5/17/1994	APSD-7
111	94-798002	AHCL-9405-216	5/17/1994	APSD-8
177	94-798003	AHCL-9405-217	5/17/1994	DH-14
355	94-798004	AHCL-9405-218	5/17/1994	DH-4
414	94-798005	AHCL-9405-219	5/17/1994	DH-5
90	94-798011	AHCL-9405-225	5/17/1994	APSD-7
90	94-816001	AHCL-9405-229	5/19/1994	APSD-7
111	94-816002	AHCL-9405-230	5/19/1994	APSD-8
177	94-816003	AHCL-9405-231	5/19/1994	DH-14
355	94-816004	AHCL-9405-232	5/19/1994	DH-4
414	94-816005	AHCL-9405-233	5/19/1994	DH-5
91	94-816011	AHCL-9405-239	5/19/1994	APSD-7
91	94-831001	AHCL-9405-240	5/24/1994	APSD-7
111	94-831002	AHCL-9405-241	5/24/1994	APSD-8
177	94-831003	AHCL-9405-242	5/24/1994	DH-14
355	94-831004	AHCL-9405-243	5/24/1994	DH-4
414	94-831005	AHCL-9405-244	5/24/1994	DH-5
91	94-831011	AHCL-9405-250	5/24/1994	APSD-7
91	94-851001	AHCL-9405-255	5/26/1994	APSD-7
112	94-851002	AHCL-9405-256	5/26/1994	APSD-8
177	94-851003	AHCL-9405-257	5/26/1994	DH-14
355	94-851004	AHCL-9405-258	5/26/1994	DH-4
414	94-851005	AHCL-9405-259	5/26/1994	DH-5
355	94-851011	AHCL-9405-265	5/26/1994	DH-4
91	94-873001	AHCL-9405-100	5/31/1994	APSD-7
112	94-873002	AHCL-9405-101	5/31/1994	APSD-8
178	94-873003	AHCL-9405-102	5/31/1994	DH-14
355	94-873004	AHCL-9405-103	5/31/1994	DH-4
414	94-873005	AHCL-9405-104	5/31/1994	DH-5
91	94-873011	AHCL-9405-110	5/31/1994	APSD-7
92	94-893001	AHCL-9406-100	6/2/1994	APSD-7
112	94-893002	AHCL-9406-101	6/2/1994	APSD-8
178	94-893003	AHCL-9406-102	6/2/1994	DH-14
356	94-893004	AHCL-9406-103	6/2/1994	DH-4
414	94-893005	AHCL-9406-104	6/2/1994	DH-5
92	94-893011	AHCL-9406-110	6/2/1994	APSD-7
92	94-917001	AHCL-9406-200	6/6/1994	APSD-7
112	94-917002	AHCL-9406-201	6/6/1994	APSD-8
178	94-917003	AHCL-9406-202	6/6/1994	DH-14
356	94-917004	AHCL-9406-203	6/6/1994	DH-4
415	94-917005	AHCL-9406-204	6/6/1994	DH-5

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92	94-959001	AHCL-9406-300	6/13/1994	APSD-7
112	94-959002	AHCL-9406-301	6/13/1994	APSD-8
178	94-959003	AHCL-9406-302	6/13/1994	DH-14
356	94-959004	AHCL-9406-303	6/13/1994	DH-4
415	94-959005	AHCL-9406-304	6/13/1994	DH-5
92	94-959011	AHCL-9406-310	6/13/1994	APSD-7
93	94-1209001	AHCL-9407-100	7/12/1994	APSD-7
112	94-1209002	AHCL-9407-101	7/12/1994	APSD-8
178	94-1209003	AHCL-9407-102	7/12/1994	DH-14
356	94-1209004	AHCL-9407-103	7/12/1994	DH-4
415	94-1209005	AHCL-9407-104	7/12/1994	DH-5
93	94-1209011	AHCL-9407-110	7/12/1994	APSD-7
22	94-1209012	AHCL-9407-111	7/14/1994	APSD-11
31	94-1209015	AHCL-9407-114	7/14/1994	APSD-12
242	94-1209016	AHCL-9407-115	7/14/1994	DH-20
80	94-1209017	AHCL-9407-116	7/14/1994	APSD-4
13	94-1209018	AHCL-9407-117	7/14/1994	APSD-10
126	94-1209019	AHCL-9407-118	7/14/1994	APSD-9
2	94-1209020	AHCL-9407-119	7/14/1994	APSD-1
56	94-1209021	AHCL-9407-120	7/14/1994	APSD-2
69	94-1209022	AHCL-9407-121	7/14/1994	APSD-3
307	94-1209023	AHCL-9407-122	7/14/1994	DH-29
40	94-1209024	AHCL-9407-123	7/14/1994	APSD-13
48	94-1209025	AHCL-9407-124	7/14/1994	APSD-14
48	94-1209026	AHCL-9407-125	7/14/1994	APSD-14
113	94-1418001	AHCL-9408-100	8/10/1994	APSD-8
93	94-1418004	AHCL-9408-103	8/10/1994	APSD-7
93	94-1418005	AHCL-9408-104	8/10/1994	APSD-7
22	94-1504001	AHCL-9408-301	8/22/1994	APSD-11
128	94-1504002	AHCL-9408-311	8/22/1994	APSD-9
242	94-1504003	AHCL-9408-313	8/22/1994	DH-20
56	94-1504004	AHCL-9408-306	8/22/1994	APSD-2
80	94-1504006	AHCL-9408-308	8/22/1994	APSD-4
31	94-1504007	AHCL-9408-302	8/22/1994	APSD-12
40	94-1504008	AHCL-9408-303	8/22/1994	APSD-13
69	94-1504010	AHCL-9408-307	8/22/1994	APSD-3
48	94-1504011	AHCL-9408-304	8/22/1994	APSD-14
2	94-1504012	AHCL-9408-305	8/22/1994	APSD-1
307	94-1504013	AHCL-9408-314	8/22/1994	DH-29
307	94-1504014	AHCL-9408-328	8/22/1994	DH-29
13	94-1504015	AHCL-9408-300	8/22/1994	APSD-10
356	94-1504023	AHCL-9408-315	8/19/1994	DH-4

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93	94-1504024	AHCL-9408-325	8/19/1994	APSD-7
93	94-1504025	AHCL-9408-309	8/19/1994	APSD-7
113	94-1504027	AHCL-9408-310	8/19/1994	APSD-8
178	94-1504028	AHCL-9408-312	8/19/1994	DH-14
415	94-1504029	AHCL-9408-316	8/19/1994	DH-5
94	94-1536006	AHCL-9408-425	8/26/1994	APSD-7
113	94-1536008	AHCL-9408-410	8/26/1994	APSD-8
94	94-1536009	AHCL-9408-409	8/26/1994	APSD-7
94	94-1585001	AHCL-9409-100	9/2/1994	APSD-7
113	94-1585002	AHCL-9409-101	9/2/1994	APSD-8
94	94-1585009	AHCL-9409-108	9/2/1994	APSD-7
94	94-1608001	AHCL-9409-200	9/8/1994	APSD-7
113	94-1608002	AHCL-9409-201	9/8/1994	APSD-8
94	94-1608009	AHCL-9409-208	9/8/1994	APSD-7
95	94-1683001	AHCL-9409-300	9/16/1994	APSD-7
113	94-1683002	AHCL-9409-301	9/16/1994	APSD-8
95	94-1683008	AHCL-9409-307	9/16/1994	APSD-7
56	94-1778001	AHCL-9409-406	9/27/1994	APSD-2
70	94-1778003	AHCL-9409-407	9/27/1994	APSD-3
70	94-1778004	AHCL-9409-428	9/27/1994	APSD-3
41	94-1778005	AHCL-9409-403	9/27/1994	APSD-13
114	94-1778006	AHCL-9409-410	9/27/1994	APSD-8
95	94-1778007	AHCL-9409-409	9/26/1994	APSD-7
179	94-1778015	AHCL-9409-412	9/26/1994	DH-14
356	94-1778017	AHCL-9409-415	9/26/1994	DH-4
357	94-1778018	AHCL-9409-424	9/26/1994	DH-4
415	94-1778019	AHCL-9409-416	9/26/1994	DH-5
23	94-1778020	AHCL-9409-401	9/26/1994	APSD-11
31	94-1778021	AHCL-9409-402	9/26/1994	APSD-12
128	94-1778023	AHCL-9409-411	9/26/1994	APSD-9
13	94-1778024	AHCL-9409-400	9/26/1994	APSD-10
242	94-1778025	AHCL-9409-413	9/26/1994	DH-20
307	94-1778026	AHCL-9409-414	9/26/1994	DH-29
80	94-1778027	AHCL-9409-408	9/26/1994	APSD-4
2	94-1778028	AHCL-9409-405	9/26/1994	APSD-1
95	94-1820001	AHCL-9410-100	10/5/1994	APSD-7
114	94-1820002	AHCL-9410-101	10/5/1994	APSD-8
95	94-1820010	AHCL-9410-109	10/5/1994	APSD-7
95	94-1887001	AHCL-9410-200	10/13/1994	APSD-7
114	94-1887002	AHCL-9410-201	10/13/1994	APSD-8
96	94-1887009	AHCL-9410-208	10/13/1994	APSD-7
179	94-1932001	AHCL-9410-312	10/20/1994	DH-14
357	94-1932002	AHCL-9410-314	10/20/1994	DH-4

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415	94-1932006	AHCL-9410-315	10/20/1994	DH-5
23	94-1932007	AHCL-9410-301	10/20/1994	APSD-11
32	94-1932008	AHCL-9410-302	10/20/1994	APSD-12
128	94-1932009	AHCL-9410-311	10/20/1994	APSD-9
13	94-1932010	AHCL-9410-300	10/20/1994	APSD-10
242	94-1932011	AHCL-9410-328	10/20/1994	DH-20
80	94-1932012	AHCL-9410-308	10/20/1994	APSD-4
307	94-1932013	AHCL-9410-313	10/20/1994	DH-29
2	94-1932014	AHCL-9410-305	10/20/1994	APSD-1
56	94-1932015	AHCL-9410-306	10/20/1994	APSD-2
70	94-1932016	AHCL-9410-307	10/20/1994	APSD-3
41	94-1932023	AHCL-9410-303	10/21/1994	APSD-13
96	94-1979001	AHCL-9410-400	10/28/1994	APSD-7
114	94-1979002	AHCL-9410-401	10/28/1994	APSD-8
96	94-1979010	AHCL-9410-409	10/28/1994	APSD-7
96	94-2018001	AHCL-9411-100	11/3/1994	APSD-7
114	94-2018002	AHCL-9411-101	11/3/1994	APSD-8
166	95-4450	EHC-9505-114	5/5/1995	DH-11
142	95-4451	EHC-9505-121	5/5/1995	DH-1
230	95-4452	EHC-9505-129	5/5/1995	DH-2
536	95-4453	EHC-9505-134	5/5/1995	DH-7
597	95-4456	EHC-9505-139	5/5/1995	EH-102
717	95-4457	EHC-9505-140	5/5/1995	EH-50
758	95-4458	EHC-9505-143	5/5/1995	EH-53
772	95-4459	EHC-9505-144	5/5/1995	EH-54
784	95-4460	EHC-9505-145	5/5/1995	EH-57A
796	95-4461	EHC-9505-146	5/5/1995	EH-58
808	95-4462	EHC-9505-147	5/5/1995	EH-59
142	95-4470	EHC-9505-161	5/5/1995	DH-1
1071	95-4479	EHC-9505-119	5/8/1995	DH-18
243	95-4480	EHC-9505-122	5/8/1995	DH-20
324	95-4481	EHC-9505-130	5/9/1995	DH-3
358	95-4482	EHC-9505-131	5/10/1995	DH-4
416	95-4483	EHC-9505-132	5/10/1995	DH-5
485	95-4484	EHC-9505-133	5/10/1995	DH-6
553	95-4485	EHC-9505-135	5/10/1995	DH-8
566	95-4486	EHC-9505-136	5/10/1995	DH-9
730	95-4487	EHC-9505-141	5/9/1995	EH-51
744	95-4488	EHC-9505-142	5/10/1995	EH-52
845	95-4489	EHC-9505-150	5/9/1995	EH-62
1071	95-4492	EHC-9505-167	5/8/1995	DH-18
324	95-4493	EHC-9505-168	5/9/1995	DH-3

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553	95-4497	EHC-9505-172	5/10/1995	DH-8
14	95-4499	EHC-9505-102	5/12/1995	APSD-10
23	95-4500	EHC-9505-103	5/12/1995	APSD-11
32	95-4501	EHC-9505-104	5/12/1995	APSD-12
41	95-4502	EHC-9505-105	5/17/1995	APSD-13
3	95-4503	EHC-9505-107	5/12/1995	APSD-1
57	95-4504	EHC-9505-108	5/17/1995	APSD-2
71	95-4505	EHC-9505-109	5/12/1995	APSD-3
81	95-4506	EHC-9505-110	5/12/1995	APSD-4
97	95-4507	EHC-9505-111	5/12/1995	APSD-7
115	95-4508	EHC-9505-112	5/12/1995	APSD-8
129	95-4509	EHC-9505-113	5/12/1995	APSD-9
1050	95-4510	EHC-9505-115	5/16/1995	DH-12
1059	95-4511	EHC-9505-116	5/16/1995	DH-13
204	95-4512	EHC-9505-118	5/16/1995	DH-17
216	95-4513	EHC-9505-120	5/15/1995	DH-19
257	95-4514	EHC-9505-123	5/15/1995	DH-22
266	95-4515	EHC-9505-124	5/15/1995	DH-23
278	95-4516	EHC-9505-125	5/16/1995	DH-24
1098	95-4517	EHC-9505-126	5/15/1995	DH-27
299	95-4518	EHC-9505-127	5/15/1995	DH-28
308	95-4519	EHC-9505-128	5/17/1995	DH-29
821	95-4520	EHC-9505-148	5/16/1995	EH-60
115	95-4522	EHC-9505-174	5/12/1995	APSD-8
216	95-4524	EHC-9505-176	5/15/1995	DH-19
821	95-4526	EHC-9505-178	5/16/1995	EH-60
1085	95-4528	EHC-9505-181	5/17/1995	DH-21
57	95-4530	EHC-9505-183	5/17/1995	APSD-2
166	95-6087	EHC-9511-115	11/6/1995	DH-11
1072	95-6088	EHC-9511-120	11/7/1995	DH-18
142	95-6089	EHC-9511-122	11/6/1995	DH-1
230	95-6090	EHC-9511-131	11/6/1995	DH-2
324	95-6091	EHC-9511-132	11/8/1995	DH-3
536	95-6092	EHC-9511-136	11/6/1995	DH-7
717	95-6093	EHC-9511-142	11/6/1995	EH-50
597	95-6094	EHC-9511-141	11/7/1995	EH-102
758	95-6095	EHC-9511-145	11/7/1995	EH-53
772	95-6096	EHC-9511-146	11/7/1995	EH-54
784	95-6097	EHC-9511-147	11/7/1995	EH-57A
796	95-6098	EHC-9511-148	11/7/1995	EH-58
808	95-6099	EHC-9511-149	11/7/1995	EH-59
845	95-6100	EHC-9511-151	11/8/1995	EH-62

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759	95-6103	EHC-9511-165	11/7/1995	EH-53
15	95-6108	EHC-9511-102	11/8/1995	APSD-10
34	95-6109	EHC-9511-104	11/8/1995	APSD-12
43	95-6110	EHC-9511-105	11/8/1995	APSD-13
58	95-6111	EHC-9511-108	11/8/1995	APSD-2
72	95-6112	EHC-9511-109	11/8/1995	APSD-3
117	95-6113	EHC-9511-112	11/8/1995	APSD-8
130	95-6114	EHC-9511-113	11/8/1995	APSD-9
155	95-6115	EHC-9511-114	11/8/1995	DH-10A
216	95-6116	EHC-9511-121	11/9/1995	DH-19
245	95-6117	EHC-9511-123	11/8/1995	DH-20
1098	95-6118	EHC-9511-128	11/9/1995	DH-27
309	95-6119	EHC-9511-130	11/8/1995	DH-29
359	95-6120	EHC-9511-133	11/8/1995	DH-4
25	95-6121	EHC-9511-103	11/8/1995	APSD-11
4	95-6122	EHC-9511-107	11/8/1995	APSD-1
82	95-6123	EHC-9511-110	11/8/1995	APSD-4
99	95-6124	EHC-9511-111	11/8/1995	APSD-7
418	95-6125	EHC-9511-134	11/8/1995	DH-5
486	95-6126	EHC-9511-135	11/8/1995	DH-6
553	95-6127	EHC-9511-137	11/9/1995	DH-8
566	95-6128	EHC-9511-138	11/9/1995	DH-9
730	95-6131	EHC-9511-143	11/9/1995	EH-51
744	95-6132	EHC-9511-144	11/9/1995	EH-52
486	95-6134	EHC-9511-171	11/8/1995	DH-6
553	95-6136	EHC-9511-173	11/9/1995	DH-8
245	95-6137	EHC-9511-186	11/8/1995	DH-20
1050	95-6141	EHC-9511-116	11/14/1995	DH-12
1059	95-6142	EHC-9511-117	11/14/1995	DH-13
204	95-6143	EHC-9511-119	11/13/1995	DH-17
1085	95-6144	EHC-9511-124	11/13/1995	DH-21
257	95-6145	EHC-9511-125	11/13/1995	DH-22
267	95-6146	EHC-9511-126	11/13/1995	DH-23
278	95-6147	EHC-9511-127	11/13/1995	DH-24
299	95-6148	EHC-9511-129	11/13/1995	DH-28
821	95-6149	EHC-9511-150	11/14/1995	EH-60
279	95-6151	EHC-9511-175	11/13/1995	DH-24
821	95-6153	EHC-9511-177	11/14/1995	EH-60
14	95-616001	AHCL-9503-100	3/29/1995	APSD-10
23	95-616002	AHCL-9503-101	3/29/1995	APSD-11
32	95-616003	AHCL-9503-102	3/29/1995	APSD-12
3	95-616004	AHCL-9503-104	3/29/1995	APSD-1

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70	95-616006	AHCL-9503-106	3/30/1995	APSD-3
81	95-616007	AHCL-9503-107	3/29/1995	APSD-4
96	95-616008	AHCL-9503-108	3/29/1995	APSD-7
115	95-616009	AHCL-9503-109	3/29/1995	APSD-8
128	95-616010	AHCL-9503-110	3/29/1995	APSD-9
308	95-616011	AHCL-9503-113	3/30/1995	DH-29
357	95-616012	AHCL-9503-114	3/30/1995	DH-4
97	95-616022	AHCL-9503-125	3/29/1995	APSD-7
41	95-651001	AHCL-9503-103	4/1/1995	APSD-13
179	95-651002	AHCL-9503-111	4/1/1995	DH-14
243	95-651003	AHCL-9503-112	3/31/1995	DH-20
416	95-651004	AHCL-9503-115	4/1/1995	DH-5
41	95-826001	AHCL-9504-100	4/25/1995	APSD-13
3	95-826002	AHCL-9504-102	4/25/1995	APSD-1
57	95-826003	AHCL-9504-103	4/25/1995	APSD-2
70	95-826004	AHCL-9504-104	4/26/1995	APSD-3
81	95-826005	AHCL-9504-105	4/25/1995	APSD-4
97	95-826006	AHCL-9504-108	4/25/1995	APSD-7
243	95-826007	AHCL-9504-109	4/26/1995	DH-20
308	95-826008	AHCL-9504-110	4/26/1995	DH-29
115	95-826015	AHCL-9504-117	4/25/1995	APSD-8
179	95-826016	AHCL-9504-118	4/25/1995	DH-14
357	95-826017	AHCL-9504-119	4/25/1995	DH-4
416	95-826021	AHCL-9504-122	4/25/1995	DH-5
23	95-826022	AHCL-9504-123	4/25/1995	APSD-11
416	95-826023	AHCL-9504-124	4/25/1995	DH-5
128	95-826024	AHCL-9504-125	4/25/1995	APSD-9
14	95-826025	AHCL-9504-126	4/25/1995	APSD-10
32	95-826026	AHCL-9504-127	4/25/1995	APSD-12
24	95-1057001	AHCL-9505-101	5/22/1995	APSD-11
416	95-1057003	AHCL-9505-117	5/22/1995	DH-5
97	95-1057004	AHCL-9505-124	5/22/1995	APSD-7
97	95-1057005	AHCL-9505-110	5/22/1995	APSD-7
115	95-1057006	AHCL-9505-111	5/22/1995	APSD-8
179	95-1057007	AHCL-9505-113	5/22/1995	DH-14
358	95-1057008	AHCL-9505-116	5/22/1995	DH-4
32	95-1057009	AHCL-9505-102	5/23/1995	APSD-12
3	95-1057010	AHCL-9505-105	5/23/1995	APSD-1
81	95-1057011	AHCL-9505-109	5/23/1995	APSD-4
42	95-1057012	AHCL-9505-103	5/23/1995	APSD-13
14	95-1057013	AHCL-9505-100	5/23/1995	APSD-10
308	95-1057014	AHCL-9505-115	5/23/1995	DH-29

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243	95-1057017	AHCL-9505-114	5/23/1995	DH-20
129	95-1057018	AHCL-9505-112	5/23/1995	APSD-9
71	95-1057019	AHCL-9505-108	5/23/1995	APSD-3
14	95-1280001	AHCL-9506-100	6/19/1995	APSD-10
24	95-1280002	AHCL-9506-101	6/19/1995	APSD-11
33	95-1280003	AHCL-9506-102	6/19/1995	APSD-12
129	95-1280004	AHCL-9506-110	6/19/1995	APSD-9
42	95-1280014	AHCL-9506-103	6/20/1995	APSD-13
3	95-1280015	AHCL-9506-104	6/20/1995	APSD-1
57	95-1280016	AHCL-9506-105	6/20/1995	APSD-2
71	95-1280017	AHCL-9506-106	6/20/1995	APSD-3
81	95-1280018	AHCL-9506-107	6/20/1995	APSD-4
97	95-1280019	AHCL-9506-108	6/20/1995	APSD-7
115	95-1280020	AHCL-9506-109	6/20/1995	APSD-8
179	95-1280021	AHCL-9506-111	6/20/1995	DH-14
243	95-1280022	AHCL-9506-112	6/20/1995	DH-20
308	95-1280023	AHCL-9506-113	6/20/1995	DH-29
358	95-1280024	AHCL-9506-114	6/20/1995	DH-4
417	95-1280025	AHCL-9506-115	6/20/1995	DH-5
98	95-1280027	AHCL-9506-126	6/20/1995	APSD-7
14	95-1523001	AHCL-9507-100	7/18/1995	APSD-10
24	95-1523002	AHCL-9507-101	7/18/1995	APSD-11
33	95-1523003	AHCL-9507-102	7/18/1995	APSD-12
42	95-1523004	AHCL-9507-103	7/18/1995	APSD-13
4	95-1523005	AHCL-9507-104	7/18/1995	APSD-1
58	95-1523006	AHCL-9507-105	7/18/1995	APSD-2
71	95-1523007	AHCL-9507-106	7/18/1995	APSD-3
81	95-1523008	AHCL-9507-107	7/18/1995	APSD-4
98	95-1523009	AHCL-9507-108	7/18/1995	APSD-7
116	95-1523010	AHCL-9507-109	7/18/1995	APSD-8
129	95-1523011	AHCL-9507-110	7/18/1995	APSD-9
180	95-1523012	AHCL-9507-111	7/18/1995	DH-14
243	95-1523013	AHCL-9507-112	7/18/1995	DH-20
309	95-1523014	AHCL-9507-113	7/18/1995	DH-29
358	95-1523015	AHCL-9507-114	7/18/1995	DH-4
417	95-1523016	AHCL-9507-115	7/18/1995	DH-5
98	95-1523025	AHCL-9507-124	7/18/1995	APSD-7
15	95-1778001	AHCL-9508-100	8/16/1995	APSD-10
24	95-1778002	AHCL-9508-101	8/16/1995	APSD-11
33	95-1778003	AHCL-9508-102	8/16/1995	APSD-12
42	95-1778004	AHCL-9508-103	8/16/1995	APSD-13
4	95-1778005	AHCL-9508-104	8/16/1995	APSD-1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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58	95-1778006	AHCL-9508-105	8/16/1995	APSD-2
71	95-1778007	AHCL-9508-106	8/16/1995	APSD-3
82	95-1778008	AHCL-9508-107	8/16/1995	APSD-4
98	95-1778009	AHCL-9508-108	8/16/1995	APSD-7
116	95-1778010	AHCL-9508-109	8/16/1995	APSD-8
129	95-1778011	AHCL-9508-110	8/16/1995	APSD-9
180	95-1778012	AHCL-9508-111	8/16/1995	DH-14
244	95-1778013	AHCL-9508-112	8/16/1995	DH-20
309	95-1778014	AHCL-9508-113	8/16/1995	DH-29
358	95-1778015	AHCL-9508-114	8/16/1995	DH-4
417	95-1778016	AHCL-9508-115	8/16/1995	DH-5
98	95-1778018	AHCL-9508-124	8/16/1995	APSD-7
15	95-2070003	AHCL-9509-100	9/15/1995	APSD-10
71	95-2070004	AHCL-9509-106	9/15/1995	APSD-3
33	95-2070005	AHCL-9509-102	9/15/1995	APSD-12
24	95-2070006	AHCL-9509-101	9/15/1995	APSD-11
58	95-2070007	AHCL-9509-105	9/15/1995	APSD-2
4	95-2070008	AHCL-9509-104	9/15/1995	APSD-1
99	95-2070009	AHCL-9509-124	9/15/1995	APSD-7
244	95-2070018	AHCL-9509-112	9/16/1995	DH-20
309	95-2070019	AHCL-9509-113	9/16/1995	DH-29
244	95-2070020	AHCL-9509-126	9/16/1995	DH-20
42	95-2070021	AHCL-9509-103	9/16/1995	APSD-13
417	95-2070022	AHCL-9509-115	9/16/1995	DH-5
82	95-2070023	AHCL-9509-107	9/16/1995	APSD-4
98	95-2070024	AHCL-9509-108	9/15/1995	APSD-7
180	95-2070025	AHCL-9509-111	9/15/1995	DH-14
358	95-2070026	AHCL-9509-114	9/15/1995	DH-4
116	95-2070027	AHCL-9509-109	9/15/1995	APSD-8
129	95-2070028	AHCL-9509-110	9/15/1995	APSD-9
99	95-2299001	EPPC-9510-100	10/4/1995	APSD-7
116	95-2299002	EPPC-9510-101	10/4/1995	APSD-8
359	95-2299004	EPPC-9510-103	10/4/1995	DH-4
33	95-2401002	AHCL-9510-102	10/23/1995	APSD-12
4	95-2401003	AHCL-9510-104	10/23/1995	APSD-1
130	95-2401004	AHCL-9510-110	10/23/1995	APSD-9
359	95-2401005	AHCL-9510-114	10/23/1995	DH-4
58	95-2401006	AHCL-9510-105	10/23/1995	APSD-2
24	95-2401007	AHCL-9510-101	10/23/1995	APSD-11
244	95-2401008	AHCL-9510-112	10/23/1995	DH-20
180	95-2401009	AHCL-9510-111	10/23/1995	DH-14
42	95-2401010	AHCL-9510-103	10/23/1995	APSD-13
15	95-2401011	AHCL-9510-100	10/23/1995	APSD-10

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309	95-2401012	AHCL-9510-113	10/23/1995	DH-29
244	95-2401013	AHCL-9510-127	10/23/1995	DH-20
82	95-2401014	AHCL-9510-107	10/23/1995	APSD-4
72	95-2401016	AHCL-9510-106	10/24/1995	APSD-3
99	95-2401017	AHCL-9510-108	10/24/1995	APSD-7
116	95-2401018	AHCL-9510-109	10/24/1995	APSD-8
417	95-2401019	AHCL-9510-115	10/24/1995	DH-5
99	95-2401028	AHCL-9510-126	10/24/1995	APSD-7
33	95-2532001	AHCL-9511-102	11/8/1995	APSD-12
43	95-2532002	AHCL-9511-103	11/8/1995	APSD-13
4	95-2532003	AHCL-9511-104	11/8/1995	APSD-1
58	95-2532004	AHCL-9511-105	11/8/1995	APSD-2
72	95-2532005	AHCL-9511-106	11/8/1995	APSD-3
82	95-2532006	AHCL-9511-107	11/8/1995	APSD-4
99	95-2532007	AHCL-9511-109	11/8/1995	APSD-7
116	95-2532008	AHCL-9511-110	11/8/1995	APSD-8
130	95-2532009	AHCL-9511-111	11/8/1995	APSD-9
180	95-2532010	AHCL-9511-112	11/8/1995	DH-14
244	95-2532011	AHCL-9511-113	11/8/1995	DH-20
309	95-2532012	AHCL-9511-114	11/8/1995	DH-29
359	95-2532013	AHCL-9511-115	11/8/1995	DH-4
417	95-2532014	AHCL-9511-116	11/8/1995	DH-5
15	95-2532023	AHCL-9511-100	11/8/1995	APSD-10
25	95-2532024	AHCL-9511-101	11/8/1995	APSD-11
101	95-2532025	AHCL-9511-127	11/8/1995	APSD-7
101	95-2578001	EPPC-9511-100	11/15/1995	APSD-7
117	95-2578002	EPPC-9511-101	11/15/1995	APSD-8
359	95-2578004	EPPC-9511-103	11/15/1995	DH-4
180	95-2578007	EPPC-9511-107	11/15/1995	DH-14
181	95-2578008	EPPC-9511-108	11/15/1995	DH-14
101	95-2775001	EPPC-9512-100	12/12/1995	APSD-7
117	95-2775002	EPPC-9512-101	12/12/1995	APSD-8
181	95-2775004	EPPC-9512-103	12/12/1995	DH-14
359	95-2775005	EPPC-9512-104	12/12/1995	DH-4
361	95-2775008	EPPC-9512-108	12/12/1995	DH-4
143	96-6706	EHC-9605-110	5/7/1996	DH-1
230	96-6707	EHC-9605-117	5/7/1996	DH-2
325	96-6708	EHC-9605-118	5/8/1996	DH-3
537	96-6709	EHC-9605-120	5/7/1996	DH-7
598	96-6710	EHC-9605-125	5/7/1996	EH-102
717	96-6711	EHC-9605-126	5/7/1996	EH-50
759	96-6712	EHC-9605-129	5/7/1996	EH-53
772	96-6713	EHC-9605-130	5/7/1996	EH-54

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796	96-6715	EHC-9605-132	5/7/1996	EH-58
808	96-6716	EHC-9605-133	5/7/1996	EH-59
845	96-6717	EHC-9605-136	5/8/1996	EH-62
143	96-6718	EHC-9605-145	5/7/1996	DH-1
325	96-6720	EHC-9605-147	5/8/1996	DH-3
130	96-6723	EHC-9605-210	5/8/1996	APSD-9
34	96-6724	EHC-9605-202	5/8/1996	APSD-12
310	96-6725	EHC-9605-212	5/8/1996	DH-29
5	96-6726	EHC-9605-204	5/8/1996	APSD-1
59	96-6727	EHC-9605-205	5/9/1996	APSD-2
361	96-6728	EHC-9605-213	5/8/1996	DH-4
418	96-6729	EHC-9605-214	5/8/1996	DH-5
43	96-6731	EHC-9605-203	5/8/1996	APSD-13
82	96-6732	EHC-9605-207	5/8/1996	APSD-4
72	96-6733	EHC-9605-206	5/8/1996	APSD-3
119	96-6734	EHC-9605-209	5/8/1996	APSD-8
102	96-6735	EHC-9605-245	5/8/1996	APSD-7
102	96-6736	EHC-9605-208	5/8/1996	APSD-7
245	96-6737	EHC-9605-211	5/8/1996	DH-20
15	96-6738	EHC-9605-200	5/9/1996	APSD-10
25	96-6739	EHC-9605-201	5/8/1996	APSD-11
299	96-6762	EHC-9605-153	5/10/1996	DH-28
822	96-6765	EHC-9605-156	5/15/1996	EH-60
155	96-6770	EHC-9605-102	5/9/1996	DH-10A
167	96-6771	EHC-9605-103	5/9/1996	DH-11
1050	96-6772	EHC-9605-104	5/14/1996	DH-12
1059	96-6773	EHC-9605-105	5/14/1996	DH-13
196	96-6774	EHC-9605-107	5/14/1996	DH-16
1072	96-6775	EHC-9605-108	5/9/1996	DH-18
1085	96-6776	EHC-9605-111	5/14/1996	DH-21
257	96-6777	EHC-9605-112	5/14/1996	DH-22
267	96-6778	EHC-9605-113	5/10/1996	DH-23
279	96-6779	EHC-9605-114	5/14/1996	DH-24
1098	96-6780	EHC-9605-115	5/10/1996	DH-27
299	96-6781	EHC-9605-116	5/10/1996	DH-28
217	96-6782	EHC-9605-109	5/14/1996	DH-19
486	96-6783	EHC-9605-119	5/9/1996	DH-6
553	96-6784	EHC-9605-121	5/10/1996	DH-8
566	96-6785	EHC-9605-122	5/10/1996	DH-9
730	96-6787	EHC-9605-127	5/9/1996	EH-51
744	96-6788	EHC-9605-128	5/9/1996	EH-52
822	96-6789	EHC-9605-134	5/15/1996	EH-60

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1072	96-6794	EHC-9605-151	5/9/1996	DH-18
16	96-7711	EHC-9611-200	11/6/1996	APSD-10
25	96-7712	EHC-9611-201	11/6/1996	APSD-11
34	96-7713	EHC-9611-202	11/6/1996	APSD-12
43	96-7714	EHC-9611-203	11/5/1996	APSD-13
5	96-7715	EHC-9611-204	11/5/1996	APSD-1
59	96-7716	EHC-9611-205	11/5/1996	APSD-2
73	96-7717	EHC-9611-206	11/5/1996	APSD-3
83	96-7718	EHC-9611-207	11/5/1996	APSD-4
104	96-7719	EHC-9611-208	11/6/1996	APSD-7
120	96-7720	EHC-9611-209	11/6/1996	APSD-8
131	96-7721	EHC-9611-210	11/6/1996	APSD-9
245	96-7722	EHC-9611-211	11/5/1996	DH-20
310	96-7723	EHC-9611-212	11/5/1996	DH-29
363	96-7724	EHC-9611-213	11/5/1996	DH-4
418	96-7725	EHC-9611-214	11/5/1996	DH-5
5	96-7726	EHC-9611-217	11/5/1996	APSD-1
104	96-7728	EHC-9611-220	11/6/1996	APSD-7
167	96-7734	EHC-9611-103	11/6/1996	DH-11
143	96-7735	EHC-9611-110	11/6/1996	DH-1
230	96-7736	EHC-9611-117	11/6/1996	DH-2
537	96-7737	EHC-9611-120	11/6/1996	DH-7
759	96-7738	EHC-9611-129	11/6/1996	EH-53
772	96-7739	EHC-9611-130	11/6/1996	EH-54
797	96-7740	EHC-9611-132	11/6/1996	EH-58
143	96-7741	EHC-9611-150	11/6/1996	DH-1
845	96-7753	EHC-9611-148	11/7/1996	EH-62
325	96-7754	EHC-9611-118	11/7/1996	DH-3
598	96-7755	EHC-9611-125	11/7/1996	EH-102
808	96-7756	EHC-9611-133	11/7/1996	EH-59
784	96-7762	EHC-9611-131	11/7/1996	EH-57A
717	96-7764	EHC-9611-126	11/7/1996	EH-50
845	96-7765	EHC-9611-136	11/7/1996	EH-62
566	96-7766	EHC-9611-122	11/8/1996	DH-9
553	96-7768	EHC-9611-121	11/8/1996	DH-8
744	96-7769	EHC-9611-128	11/8/1996	EH-52
730	96-7771	EHC-9611-127	11/8/1996	EH-51
1072	96-7773	EHC-9611-146	11/8/1996	DH-18
1072	96-7774	EHC-9611-108	11/8/1996	DH-18
1098	96-7776	EHC-9611-115	11/11/1996	DH-27
257	96-7777	EHC-9611-112	11/11/1996	DH-22
267	96-7778	EHC-9611-113	11/11/1996	DH-23
299	96-7779	EHC-9611-116	11/11/1996	DH-28

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486	96-7781	EHC-9611-153	11/11/1996	DH-6
486	96-7782	EHC-9611-119	11/11/1996	DH-6
155	96-7783	EHC-9611-102	11/11/1996	DH-10A
1050	96-7784	EHC-9611-104	11/12/1996	DH-12
1059	96-7785	EHC-9611-105	11/12/1996	DH-13
204	96-7786	EHC-9611-106	11/12/1996	DH-17
1085	96-7787	EHC-9611-111	11/12/1996	DH-21
279	96-7788	EHC-9611-114	11/12/1996	DH-24
822	96-7789	EHC-9611-134	11/12/1996	EH-60
279	96-7791	EHC-9611-155	11/12/1996	DH-24
101	96-152001	EPPC-9601-100	1/18/1996	APSD-7
117	96-152002	EPPC-9601-101	1/18/1996	APSD-8
181	96-152004	EPPC-9601-103	1/18/1996	DH-14
361	96-152005	EPPC-9601-104	1/18/1996	DH-4
101	96-322001	EPPC-9602-100	2/15/1996	APSD-7
117	96-322002	EPPC-9602-101	2/15/1996	APSD-8
181	96-322004	EPPC-9602-103	2/15/1996	DH-14
361	96-322005	EPPC-9602-104	2/15/1996	DH-4
117	96-322008	EPPC-9602-108	2/15/1996	APSD-8
101	96-548001	EPPC-9603-100	3/18/1996	APSD-7
119	96-548002	EPPC-9603-101	3/18/1996	APSD-8
181	96-548004	EPPC-9603-103	3/18/1996	DH-14
361	96-548005	EPPC-9603-104	3/18/1996	DH-4
102	96-548008	EPPC-9603-108	3/18/1996	APSD-7
102	96-751001	EPPC-9604-100	4/17/1996	APSD-7
119	96-751002	EPPC-9604-101	4/17/1996	APSD-8
181	96-751003	EPPC-9604-103	4/17/1996	DH-14
361	96-751007	EPPC-9604-104	4/17/1996	DH-4
182	96-911006	EHC-9605-300	5/8/1996	DH-14
102	96-957001	EPPC-9605-100	5/15/1996	APSD-7
119	96-957002	EPPC-9605-101	5/15/1996	APSD-8
182	96-957004	EPPC-9605-103	5/15/1996	DH-14
362	96-957005	EPPC-9605-104	5/15/1996	DH-4
102	96-957008	EPPC-9605-108	5/15/1996	APSD-7
103	96-1136001	EPPC-9606-100	6/12/1996	APSD-7
119	96-1136002	EPPC-9606-101	6/12/1996	APSD-8
182	96-1136004	EPPC-9606-103	6/12/1996	DH-14
362	96-1136005	EPPC-9606-104	6/12/1996	DH-4
119	96-1136008	EPPC-9606-108	6/12/1996	APSD-8
43	96-1243001	EHC-9606-103	6/24/1996	APSD-13
245	96-1243002	EHC-9606-112	6/24/1996	DH-20
310	96-1243003	EHC-9606-113	6/24/1996	DH-29

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83	96-1243005	EHC-9606-107	6/24/1996	APSD-4
16	96-1243006	EHC-9606-100	6/24/1996	APSD-10
34	96-1243007	EHC-9606-102	6/24/1996	APSD-12
5	96-1243008	EHC-9606-104	6/24/1996	APSD-1
59	96-1243009	EHC-9606-105	6/24/1996	APSD-2
72	96-1243010	EHC-9606-106	6/24/1996	APSD-3
25	96-1243012	EHC-9606-101	6/24/1996	APSD-11
130	96-1243013	EHC-9606-110	6/24/1996	APSD-9
362	96-1243014	EHC-9606-114	6/25/1996	DH-4
182	96-1243015	EHC-9606-111	6/25/1996	DH-14
103	96-1243016	EHC-9606-108	6/25/1996	APSD-7
103	96-1243017	EHC-9606-124	6/25/1996	APSD-7
120	96-1243018	EHC-9606-109	6/25/1996	APSD-8
103	96-1375001	EPPC-9607-100	7/16/1996	APSD-7
120	96-1375002	EPPC-9607-101	7/16/1996	APSD-8
182	96-1375004	EPPC-9607-103	7/16/1996	DH-14
362	96-1375005	EPPC-9607-104	7/16/1996	DH-4
182	96-1375008	EPPC-9607-108	7/16/1996	DH-14
103	96-1623001	EPPC-9608-100	8/15/1996	APSD-7
120	96-1623002	EPPC-9608-101	8/15/1996	APSD-8
183	96-1623004	EPPC-9608-103	8/15/1996	DH-14
362	96-1623005	EPPC-9608-104	8/15/1996	DH-4
183	96-1623008	EPPC-9608-107	8/15/1996	DH-14
103	96-1853001	EPPC-9609-100	9/12/1996	APSD-7
120	96-1853002	EPPC-9609-101	9/12/1996	APSD-8
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362	96-1853005	EPPC-9609-104	9/12/1996	DH-4
363	96-1853008	EPPC-9609-110	9/12/1996	DH-4
43	96-1924010	EHC-9609-103	9/19/1996	APSD-13
245	96-1924011	EHC-9609-112	9/19/1996	DH-20
310	96-1924012	EHC-9609-113	9/19/1996	DH-29
83	96-1924013	EHC-9609-107	9/19/1996	APSD-4
16	96-1924014	EHC-9609-100	9/19/1996	APSD-10
34	96-1924015	EHC-9609-102	9/19/1996	APSD-12
25	96-1924016	EHC-9609-101	9/19/1996	APSD-11
130	96-1924017	EHC-9609-110	9/19/1996	APSD-9
5	96-1924018	EHC-9609-104	9/19/1996	APSD-1
59	96-1924019	EHC-9609-105	9/19/1996	APSD-2
72	96-1924020	EHC-9609-106	9/19/1996	APSD-3
104	96-1924021	EHC-9609-108	9/19/1996	APSD-7
120	96-1924022	EHC-9609-109	9/19/1996	APSD-8
104	96-1924023	EHC-9609-126	9/19/1996	APSD-7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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363	96-1924024	EHC-9609-114	9/19/1996	DH-4
183	96-1924025	EHC-9609-111	9/19/1996	DH-14
418	96-1924026	EHC-9609-115	9/19/1996	DH-5
183	96-2338001	EHC-9611-300	11/5/1996	DH-14
155	97-899	EHC-9705-102	5/6/1997	DH-10A
167	97-900	EHC-9705-103	5/2/1997	DH-11
1072	97-901	EHC-9705-107	5/6/1997	DH-18
143	97-902	EHC-9705-109	5/2/1997	DH-1
231	97-903	EHC-9705-116	5/2/1997	DH-2
325	97-904	EHC-9705-117	5/5/1997	DH-3
486	97-905	EHC-9705-118	5/6/1997	DH-6
537	97-906	EHC-9705-119	5/2/1997	DH-7
554	97-907	EHC-9705-120	5/6/1997	DH-8
598	97-909	EHC-9705-123	5/6/1997	EH-102
717	97-910	EHC-9705-124	5/6/1997	EH-50
730	97-911	EHC-9705-125	5/6/1997	EH-51
744	97-912	EHC-9705-126	5/6/1997	EH-52
759	97-913	EHC-9705-127	5/5/1997	EH-53
773	97-914	EHC-9705-128	5/5/1997	EH-54
785	97-915	EHC-9705-129	5/5/1997	EH-57A
797	97-916	EHC-9705-130	5/2/1997	EH-58
808	97-917	EHC-9705-131	5/2/1997	EH-59
845	97-918	EHC-9705-133	5/5/1997	EH-62
231	97-923	EHC-9705-141	5/2/1997	DH-2
846	97-925	EHC-9705-146	5/5/1997	EH-62
598	97-926	EHC-9705-147	5/6/1997	EH-102
1050	97-934	EHC-9705-104	5/7/1997	DH-12
1059	97-935	EHC-9705-105	5/7/1997	DH-13
217	97-936	EHC-9705-108	5/8/1997	DH-19
1085	97-937	EHC-9705-110	5/8/1997	DH-21
257	97-938	EHC-9705-111	5/8/1997	DH-22
267	97-939	EHC-9705-112	5/7/1997	DH-23
279	97-940	EHC-9705-113	5/7/1997	DH-24
1099	97-941	EHC-9705-114	5/8/1997	DH-27
16	97-942	EHC-9705-200	5/7/1997	APSD-10
26	97-943	EHC-9705-201	5/7/1997	APSD-11
34	97-944	EHC-9705-202	5/7/1997	APSD-12
44	97-945	EHC-9705-203	5/7/1997	APSD-13
5	97-946	EHC-9705-204	5/7/1997	APSD-1
59	97-947	EHC-9705-205	5/7/1997	APSD-2
73	97-948	EHC-9705-206	5/7/1997	APSD-3
83	97-949	EHC-9705-207	5/7/1997	APSD-4
104	97-950	EHC-9705-208	5/7/1997	APSD-7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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121	97-951	EHC-9705-209	5/7/1997	APSD-8
131	97-952	EHC-9705-210	5/7/1997	APSD-9
246	97-953	EHC-9705-211	5/6/1997	DH-20
310	97-954	EHC-9705-212	5/6/1997	DH-29
363	97-955	EHC-9705-213	5/6/1997	DH-4
418	97-956	EHC-9705-214	5/6/1997	DH-5
310	97-963	EHC-9705-222	5/6/1997	DH-29
104	97-964	EHC-9705-223	5/7/1997	APSD-7
183	97-965	EHC-9705-300	5/6/1997	DH-14
299	97-969	EHC-9705-115	5/8/1997	DH-28
566	97-970	EHC-9705-121	5/7/1997	DH-9
822	97-971	EHC-9705-132	5/7/1997	EH-60
204	97-972	EHC-9705-138	5/7/1997	DH-17
822	97-974	EHC-9705-152	5/7/1997	EH-60
1086	97-976	EHC-9705-155	5/8/1997	DH-21
143	187-2664	EHC-9711-110	11/3/1997	DH-1
231	187-2665	EHC-9711-117	11/3/1997	DH-2
537	187-2666	EHC-9711-120	11/3/1997	DH-7
759	187-2667	EHC-9711-129	11/3/1997	EH-53
785	187-2668	EHC-9711-131	11/3/1997	EH-57A
797	187-2669	EHC-9711-132	11/3/1997	EH-58
809	187-2670	EHC-9711-133	11/3/1997	EH-59
231	187-2672	EHC-9711-146	11/3/1997	DH-2
167	187-2673	EHC-9711-103	11/4/1997	DH-11
1073	187-2674	EHC-9711-108	11/4/1997	DH-18
554	187-2675	EHC-9711-121	11/4/1997	DH-8
598	187-2676	EHC-9711-125	11/4/1997	EH-102
717	187-2677	EHC-9711-126	11/4/1997	EH-50
773	187-2678	EHC-9711-130	11/4/1997	EH-54
167	187-2680	EHC-9711-148	11/4/1997	DH-11
1051	187-2682	EHC-9711-104	11/5/1997	DH-12
325	188-2683	EHC-9711-118	11/5/1997	DH-3
730	188-2684	EHC-9711-127	11/5/1997	EH-51
745	188-2685	EHC-9711-128	11/5/1997	EH-52
822	188-2686	EHC-9711-134	11/5/1997	EH-60
846	188-2687	EHC-9711-136	11/5/1997	EH-62
16	188-2688	EHC-9711-200	11/5/1997	APSD-10
846	188-2699	EHC-9711-150	11/5/1997	EH-62
26	188-2700	EHC-9711-201	11/5/1997	APSD-11
105	188-2701	EHC-9711-208	11/5/1997	APSD-7
121	188-2702	EHC-9711-209	11/5/1997	APSD-8
131	189-2703	EHC-9711-210	11/5/1997	APSD-9
363	189-2704	EHC-9711-213	11/4/1997	DH-4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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105	189-2706	EHC-9711-219	11/5/1997	APSD-7
184	189-2707	EHC-9711-300	11/5/1997	DH-14
35	189-2708	EHC-9711-202	11/5/1997	APSD-12
44	189-2709	EHC-9711-203	11/5/1997	APSD-13
6	189-2710	EHC-9711-204	11/5/1997	APSD-1
59	189-2711	EHC-9711-205	11/5/1997	APSD-2
73	189-2712	EHC-9711-206	11/5/1997	APSD-3
83	189-2713	EHC-9711-207	11/5/1997	APSD-4
246	189-2714	EHC-9711-211	11/5/1997	DH-20
311	189-2715	EHC-9711-212	11/5/1997	DH-29
155	192-2740	EHC-9711-102	11/6/1997	DH-10A
1059	192-2741	EHC-9711-105	11/7/1997	DH-13
205	192-2742	EHC-9711-106	11/7/1997	DH-17
197	192-2743	EHC-9711-107	11/10/1997	DH-16
267	192-2744	EHC-9711-109	11/10/1997	DH-23
1086	192-2745	EHC-9711-111	11/10/1997	DH-21
257	192-2746	EHC-9711-112	11/10/1997	DH-22
217	192-2747	EHC-9711-113	11/6/1997	DH-19
279	192-2748	EHC-9711-114	11/7/1997	DH-24
1099	192-2749	EHC-9711-115	11/11/1997	DH-27
300	192-2750	EHC-9711-116	11/11/1997	DH-28
487	192-2751	EHC-9711-119	11/6/1997	DH-6
566	192-2752	EHC-9711-122	11/6/1997	DH-9
487	192-2757	EHC-9711-152	11/6/1997	DH-6
280	193-2759	EHC-9711-154	11/7/1997	DH-24
258	193-2761	EHC-9711-156	11/10/1997	DH-22
1034	0211-219	EHC-0211-219	11/13/2002	STW-8
155	260-3749	EHC-9805-102	5/7/1998	DH-10A
167	260-3750	EHC-9805-104	5/4/1998	DH-11
1051	260-3751	EHC-9805-105	5/7/1998	DH-12
1073	260-3752	EHC-9805-109	5/5/1998	DH-18
144	260-3753	EHC-9805-111	5/4/1998	DH-1
267	260-3754	EHC-9805-114	5/7/1998	DH-23
231	260-3755	EHC-9805-118	5/4/1998	DH-2
326	260-3756	EHC-9805-119	5/5/1998	DH-3
487	260-3757	EHC-9805-120	5/6/1998	DH-6
537	260-3758	EHC-9805-121	5/4/1998	DH-7
554	260-3759	EHC-9805-122	5/5/1998	DH-8
567	260-3760	EHC-9805-123	5/7/1998	DH-9
598	260-3761	EHC-9805-126	5/6/1998	EH-102
718	260-3762	EHC-9805-127	5/5/1998	EH-50
731	260-3763	EHC-9805-128	5/6/1998	EH-51

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745	260-3764	EHC-9805-129	5/6/1998	EH-52
759	261-3765	EHC-9805-130	5/4/1998	EH-53
773	261-3766	EHC-9805-131	5/4/1998	EH-54
785	261-3767	EHC-9805-132	5/5/1998	EH-57A
797	261-3768	EHC-9805-133	5/4/1998	EH-58
809	261-3769	EHC-9805-134	5/4/1998	EH-59
823	261-3770	EHC-9805-135	5/6/1998	EH-60
846	261-3771	EHC-9805-137	5/6/1998	EH-62
231	261-3772	EHC-9805-145	5/4/1998	DH-2
1073	261-3774	EHC-9805-147	5/5/1998	DH-18
823	261-3777	EHC-9805-150	5/6/1998	EH-60
268	261-3778	EHC-9805-151	5/7/1998	DH-23
1060	262-3783	EHC-9805-106	5/11/1998	DH-13
205	262-3784	EHC-9805-107	5/11/1998	DH-17
217	262-3785	EHC-9805-110	5/11/1998	DH-19
1086	262-3786	EHC-9805-112	5/12/1998	DH-21
258	262-3787	EHC-9805-113	5/11/1998	DH-22
280	262-3788	EHC-9805-115	5/11/1998	DH-24
300	262-3789	EHC-9805-117	5/11/1998	DH-28
1099	262-3792	EHC-9805-116	5/11/1998	DH-27
205	262-3796	EHC-9805-154	5/11/1998	DH-17
1086	262-3798	EHC-9805-156	5/12/1998	DH-21
16	262-3800	EHC-9805-200	5/13/1998	APSD-10
26	263-3801	EHC-9805-201	5/13/1998	APSD-11
35	263-3802	EHC-9805-202	5/13/1998	APSD-12
44	263-3803	EHC-9805-203	5/13/1998	APSD-13
6	263-3804	EHC-9805-204	5/13/1998	APSD-1
60	263-3805	EHC-9805-205	5/13/1998	APSD-2
73	263-3806	EHC-9805-206	5/13/1998	APSD-3
83	263-3807	EHC-9805-207	5/13/1998	APSD-4
105	263-3808	EHC-9805-208	5/13/1998	APSD-7
121	263-3809	EHC-9805-209	5/13/1998	APSD-8
131	263-3810	EHC-9805-210	5/13/1998	APSD-9
246	263-3811	EHC-9805-211	5/13/1998	DH-20
311	263-3812	EHC-9805-212	5/13/1998	DH-29
363	263-3813	EHC-9805-213	5/13/1998	DH-4
419	263-3814	EHC-9805-214	5/13/1998	DH-5
184	263-3816	EHC-9805-300	5/13/1998	DH-14
365	264-3824	EHC-9805-218	5/13/1998	DH-4
123	0306-218	AEH-0306-218	5/30/2003	APSD-8
133	0306-219	AEH-0306-219	5/30/2003	APSD-9
28	0306-220	AEH-0306-220	5/30/2003	APSD-11
37	0306-221	AEH-0306-221	5/30/2003	APSD-12

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186	0306-223	AEH-0306-223	5/31/2003	DH-14
939	0306-226	AEH-0306-226	6/2/2003	SPARGE 1
941	0306-227	AEH-0306-227	6/2/2003	SPARGE 2
971	0306-228	AEH-0306-228	6/2/2003	STW-2
983	0306-229	AEH-0306-229	6/2/2003	STW-3
1003	0306-230	AEH-0306-230	6/2/2003	STW-5
1011	0306-231	AEH-0306-231	6/2/2003	STW-6
458	0306-232	AEH-0306-232	6/2/2003	DH-55
462	0306-233	AEH-0306-233	6/2/2003	DH-56
516	0306-234	AEH-0306-234	6/2/2003	DH-65
600	0306-235	AEH-0306-235	6/3/2003	EH-102
168	310-4397	EHC-9811-103	11/17/1998	DH-11
1073	310-4398	EHC-9811-108	11/18/1998	DH-18
144	310-4399	EHC-9811-110	11/16/1998	DH-1
232	310-4400	EHC-9811-117	11/16/1998	DH-2
326	310-4401	EHC-9811-118	11/18/1998	DH-3
537	310-4402	EHC-9811-120	11/17/1998	DH-7
554	310-4403	EHC-9811-121	11/18/1998	DH-8
599	310-4404	EHC-9811-125	11/17/1998	EH-102
718	310-4405	EHC-9811-126	11/17/1998	EH-50
760	310-4406	EHC-9811-129	11/17/1998	EH-53
773	310-4407	EHC-9811-130	11/17/1998	EH-54
785	310-4408	EHC-9811-131	11/17/1998	EH-57A
797	310-4409	EHC-9811-132	11/17/1998	EH-58
809	310-4410	EHC-9811-133	11/17/1998	EH-59
846	310-4411	EHC-9811-136	11/18/1998	EH-62
232	310-4413	EHC-9811-145	11/16/1998	DH-2
797	310-4414	EHC-9811-146	11/17/1998	EH-58
326	310-4416	EHC-9811-148	11/18/1998	DH-3
17	311-4429	EHC-9811-200	11/19/1998	APSD-10
26	311-4430	EHC-9811-201	11/19/1998	APSD-11
35	311-4431	EHC-9811-202	11/19/1998	APSD-12
300	311-4432	EHC-9811-116	11/20/1998	DH-28
731	311-4433	EHC-9811-127	11/19/1998	EH-51
823	311-4434	EHC-9811-134	11/19/1998	EH-60
156	312-4437	EHC-9811-102	11/19/1998	DH-10A
1051	312-4438	EHC-9811-104	11/19/1998	DH-12
205	312-4439	EHC-9811-106	11/20/1998	DH-17
280	312-4440	EHC-9811-114	11/20/1998	DH-24
487	312-4441	EHC-9811-119	11/19/1998	DH-6
567	312-4442	EHC-9811-122	11/19/1998	DH-9
745	312-4443	EHC-9811-128	11/19/1998	EH-52

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280	312-4445	EHC-9811-153	11/20/1998	DH-24
131	313-4446	EHC-9811-210	11/19/1998	APSD-9
365	313-4447	EHC-9811-213	11/19/1998	DH-4
419	313-4448	EHC-9811-214	11/19/1998	DH-5
105	313-4449	EHC-9811-221	11/19/1998	APSD-7
184	313-4450	EHC-9811-300	11/19/1998	DH-14
44	313-4452	EHC-9811-203	11/20/1998	APSD-13
6	313-4453	EHC-9811-204	11/20/1998	APSD-1
60	313-4454	EHC-9811-205	11/20/1998	APSD-2
73	313-4455	EHC-9811-206	11/20/1998	APSD-3
84	313-4456	EHC-9811-207	11/20/1998	APSD-4
246	313-4457	EHC-9811-211	11/20/1998	DH-20
105	314-4458	EHC-9811-208	11/19/1998	APSD-7
121	314-4459	EHC-9811-209	11/19/1998	APSD-8
311	314-4460	EHC-9811-212	11/20/1998	DH-29
246	314-4461	EHC-9811-222	11/20/1998	DH-20
1060	314-4463	EHC-9811-105	11/19/1998	DH-13
217	314-4464	EHC-9811-109	11/19/1998	DH-19
1086	314-4465	EHC-9811-111	11/20/1998	DH-21
258	314-4466	EHC-9811-112	11/20/1998	DH-22
268	314-4467	EHC-9811-113	11/19/1998	DH-23
1099	314-4468	EHC-9811-115	11/20/1998	DH-27
168	346-4869	EHC-9905-103	5/7/1999	DH-11
144	346-4870	EHC-9905-110	5/7/1999	DH-1
232	346-4871	EHC-9905-117	5/7/1999	DH-2
538	346-4872	EHC-9905-120	5/7/1999	DH-7
760	346-4873	EHC-9905-129	5/7/1999	EH-53
773	346-4874	EHC-9905-130	5/7/1999	EH-54
785	346-4875	EHC-9905-131	5/7/1999	EH-57A
798	346-4876	EHC-9905-132	5/7/1999	EH-58
809	346-4877	EHC-9905-133	5/7/1999	EH-59
168	346-4878	EHC-9905-144	5/7/1999	DH-11
326	346-4880	EHC-9905-118	5/8/1999	DH-3
599	346-4881	EHC-9905-125	5/8/1999	EH-102
718	346-4882	EHC-9905-126	5/8/1999	EH-50
326	346-4883	EHC-9905-146	5/8/1999	DH-3
846	346-4885	EHC-9905-136	5/8/1999	EH-62
156	347-4886	EHC-9905-102	5/10/1999	DH-10A
1073	347-4887	EHC-9905-108	5/10/1999	DH-18
268	347-4888	EHC-9905-113	5/10/1999	DH-23
487	347-4889	EHC-9905-119	5/10/1999	DH-6
554	347-4890	EHC-9905-121	5/10/1999	DH-8

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567	347-4891	EHC-9905-122	5/10/1999	DH-9
731	347-4892	EHC-9905-127	5/10/1999	EH-51
745	347-4893	EHC-9905-128	5/10/1999	EH-52
823	347-4894	EHC-9905-134	5/10/1999	EH-60
823	347-4895	EHC-9905-148	5/10/1999	EH-60
1051	347-4897	EHC-9905-104	5/11/1999	DH-12
1060	347-4898	EHC-9905-105	5/11/1999	DH-13
205	347-4899	EHC-9905-106	5/11/1999	DH-17
218	347-4900	EHC-9905-109	5/11/1999	DH-19
1086	347-4901	EHC-9905-111	5/11/1999	DH-21
258	347-4902	EHC-9905-112	5/11/1999	DH-22
280	347-4903	EHC-9905-114	5/11/1999	DH-24
1099	347-4904	EHC-9905-115	5/11/1999	DH-27
300	347-4905	EHC-9905-116	5/11/1999	DH-28
280	348-4906	EHC-9905-150	5/11/1999	DH-24
17	348-4915	EHC-9905-200	5/12/1999	APSD-10
26	348-4916	EHC-9905-201	5/12/1999	APSD-11
35	348-4917	EHC-9905-202	5/12/1999	APSD-12
44	348-4918	EHC-9905-203	5/12/1999	APSD-13
6	348-4919	EHC-9905-204	5/12/1999	APSD-1
60	348-4920	EHC-9905-205	5/12/1999	APSD-2
73	348-4921	EHC-9905-206	5/12/1999	APSD-3
84	348-4922	EHC-9905-207	5/12/1999	APSD-4
105	348-4923	EHC-9905-208	5/12/1999	APSD-7
121	348-4924	EHC-9905-209	5/12/1999	APSD-8
131	348-4925	EHC-9905-210	5/12/1999	APSD-9
246	349-4926	EHC-9905-211	5/12/1999	DH-20
311	349-4927	EHC-9905-212	5/12/1999	DH-29
365	349-4928	EHC-9905-213	5/12/1999	DH-4
419	349-4929	EHC-9905-214	5/12/1999	DH-5
365	349-4933	EHC-9905-218	5/12/1999	DH-4
184	349-4935	EHC-9905-300	5/12/1999	DH-14
348	8504-315	AEH-8504-315	4/9/1985	DH-4
409	8504-316	AEH-8504-316	4/9/1985	DH-5
409	8504-316SD	AEH-8504-316 SD	4/9/1985	DH-5
349	8504-322	AEH-8504-322	4/9/1985	DH-4
583	8610-148	AEH-8610-148	10/30/1986	EH-101
583	8610-149	AEH-8610-149	10/30/1986	EH-101
725	8610-150	AEH-8610-150	10/30/1986	EH-51
174	8611-2	AEH-8611-2	11/4/1986	DH-14
174	8611-3	AEH-8611-3	11/4/1986	DH-14
187	8611-5	AEH-8611-5	11/6/1986	DH-15
188	8611-6	AEH-8611-6	11/6/1986	DH-15

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711	8611-8	AEH-8611-8	11/7/1986	EH-50
711	8611-9	AEH-8611-9	11/7/1986	EH-50
1054	8611-10	AEH-8611-10	11/7/1986	DH-13
570	8611-12	AEH-8611-12	11/11/1986	EH-100
571	8611-13	AEH-8611-13	11/11/1986	EH-100
592	8611-14	AEH-8611-14	11/11/1986	EH-102
753	8611-17	AEH-8611-17	11/13/1986	EH-53
753	8611-18	AEH-8611-18	11/13/1986	EH-53
1046	8611-19	AEH-8611-19	11/13/1986	DH-12
138	8611-21	AEH-8611-21	11/18/1986	DH-1
226	8611-22	AEH-8611-22	11/18/1986	DH-2
319	8611-23	AEH-8611-23	11/18/1986	DH-3
351	8611-24	AEH-8611-24	11/19/1986	DH-4
410	8611-25	AEH-8611-25	11/24/1986	DH-5
482	8611-26	AEH-8611-26	11/25/1986	DH-6
532	8611-27	AEH-8611-27	11/19/1986	DH-7
548	8611-28	AEH-8611-28	11/24/1986	DH-8
562	8611-29	AEH-8611-29	11/25/1986	DH-9
151	8611-30	AEH-8611-30	11/18/1986	DH-10
163	8611-31	AEH-8611-31	11/19/1986	DH-11
766	8611-32	AEH-8611-32	11/24/1986	EH-54
533	8611-34	AEH-8611-34	11/19/1986	DH-7
768	8611-35	AEH-8611-35	11/24/1986	EH-54
482	8611-36	AEH-8611-36	11/25/1986	DH-6
199	8612-2	AEH-8612-2	12/1/1986	DH-17
199	8612-3	AEH-8612-3	12/1/1986	DH-17
1065	8612-9	AEH-8612-9	12/8/1986	DH-18
1067	8612-9 SD	AEH-8612-9 SD	12/8/1986	DH-18
792	8612-11	AEH-8612-11	12/8/1986	EH-58
1054	8701-101	AEH-8701-101	1/28/1987	DH-13
1067	8701-105	AEH-8701-105	1/27/1987	DH-18
740	8701-110	AEH-8701-110	2/4/1987	EH-52
592	8701-111	AEH-8701-111	2/4/1987	EH-102
768	8701-114	AEH-8701-114	2/5/1987	EH-54
792	8701-115	AEH-8701-115	2/4/1987	EH-58
594	8701-139	AEH-8701-139	2/4/1987	EH-102
768	8704-18	AEH-8704-18	4/21/1987	EH-54
584	8704-30	AEH-8704-30	4/23/1987	EH-101
725	8704-31	AEH-8704-31	4/24/1987	EH-51
726	8704-32	AEH-8704-32	4/24/1987	EH-51
238	8705-31	AEH-8705-31	5/12/1987	DH-20
263	8705-33	AEH-8705-33	5/13/1987	DH-23
805	8705-40	AEH-8705-40	5/13/1987	EH-59

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803	8705-112	AEH-8705-112	5/13/1987	EH-59
319	8706-05	AEH-8706-05	6/2/1987	DH-3
482	8706-08	AEH-8706-08	6/4/1987	DH-6
1048	8706-12	AEH-8706-12	6/9/1987	DH-12
189	8706-15	AEH-8706-15	6/4/1987	DH-15
200	8706-16	AEH-8706-16	6/9/1987	DH-17
211	8706-18	AEH-8706-18	6/11/1987	DH-19
252	8706-19	AEH-8706-19	6/11/1987	DH-22
273	8706-20	AEH-8706-20	6/11/1987	DH-24
1095	8706-22	AEH-8706-22	6/9/1987	DH-27
189	8706-36	AEH-8706-36	6/4/1987	DH-15
273	8706-39	AEH-8706-39	6/11/1987	DH-24
292	8706-100	AEH-8706-100	6/9/1987	DH-26
1080	8706-101	AEH-8706-101	6/9/1987	DH-21
175	8708-03	AEH-8708-03	8/11/1987	DH-14
213	8708-07	AEH-8708-07	8/12/1987	DH-19
275	8708-12	AEH-8708-12	8/12/1987	DH-24
294	8708-13	AEH-8708-13	8/17/1987	DH-26
740	8708-17	AEH-8708-17	8/7/1987	EH-52
755	8708-18	AEH-8708-18	8/7/1987	EH-53
805	8708-21	AEH-8708-21	8/7/1987	EH-59
740	8708-43	AEH-8708-43	8/7/1987	EH-52
176	8708-46	AEH-8708-46	8/11/1987	DH-14
294	8708-49	AEH-8708-49	8/17/1987	DH-26
714	8711-200	AEH-8711-200	11/17/1987	EH-50
769	8711-203	AEH-8711-203	11/16/1987	EH-54
572	8711-206	AEH-8711-206	11/17/1987	EH-100
714	8711-213	AEH-8711-213	11/17/1987	EH-50
139	8711-216	AEH-8711-216	11/18/1987	DH-1
351	8711-219	AEH-8711-219	11/19/1987	DH-4
534	8711-222	AEH-8711-222	11/20/1987	DH-7
152	8711-225	AEH-8711-225	11/19/1987	DH-10
1055	8711-228	AEH-8711-228	11/25/1987	DH-13
264	8711-238	AEH-8711-238	11/25/1987	DH-23
806	8711-243	AEH-8711-243	11/17/1987	EH-59
1056	8711-253	AEH-8711-253	11/25/1987	DH-13
781	8711-260	AEH-8711-260	12/3/1987	EH-57A
818	8712-245	AEH-8712-245	12/2/1987	EH-60
831	8712-246	AEH-8712-246	12/2/1987	EH-61
842	8712-247	AEH-8712-247	12/2/1987	EH-62
818	8712-259	AEH-8712-259	12/2/1987	EH-60
781	8712-261	AEH-8712-261	12/3/1987	EH-57A

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296	8712-300	AEH-8712-300	12/18/1987	DH-28
296	8712-301	AEH-8712-301	12/18/1987	DH-28
303	8712-303	AEH-8712-303	12/18/1987	DH-29
833	9012-078	AEH-9011-752	12/6/1990	EH-61
833	9105-124-2	AEH-9105-128	5/10/1991	EH-61
833	9111-241-5	AEH-9111-368	11/21/1991	EH-61
195	9111-312	AEH-9111-312	11/20/1991	DH-16
323	9204-227-2	AEH-9204-165	4/20/1992	DH-3
834	9205-008-5	AEH-9204-172	4/29/1992	EH-61
834	9211-235-4	EHC-9211-164	11/21/1992	EH-61
834	9305-064-1	EHC-9305-164	5/6/1993	EH-61
203	9305-064-9	EHC-9305-153	5/5/1993	DH-17
195	9311-111	EHC-9311-111	11/11/1993	DH-16
834	9311-159-6	EHC-9311-144	11/12/1993	EH-61
834	9405-095-9	EHC-9405-148	5/12/1994	EH-61
565	9411-136	EHC-9411-136	11/11/1994	DH-9
196	9511-118	EHC-9511-118	11/13/1995	DH-16
300	9711-160	EHC-9711-160	11/12/1997	DH-28
1099	9711-161	EHC-9711-161	11/12/1997	DH-27
197	9911-119	EHC-9911-119	11/12/1999	DH-16
980	205103	EHST-0205-103A	5/10/2002	STW-3
968	205106	EHST-0205-106	5/10/2002	STW-2
1010	205107	EHST-0205-107	5/10/2002	STW-6
1042	205108	EHST-0205-108	5/10/2002	STW-9
957	205110	EHST-0205-110	5/10/2002	STW-1
431	205111	EHST-0205-111	5/10/2002	DH-50
957	206109	EHST-0206-109	6/6/2002	STW-1
947	206110	EHST-0206-110	6/6/2002	SPARGE 3
958	207102	EHST-0207-102	7/17/2002	STW-1
958	207305	EHST-0207-305	7/24/2002	STW-1
958	209611	EHST-0209-611	9/26/2002	STW-1
834	411143-6	EHC-9411-150	11/18/1994	EH-61
325	511023-3	EHC-9511-167	11/8/1995	DH-3
835	511049-6	EHC-9511-152	11/8/1995	EH-61
835	605045-4	EHC-9605-135	5/15/1996	EH-61
835	611035-6	EHC-9611-135	11/12/1996	EH-61
835	705025-2	EHC-9705-151	5/7/1997	EH-61
835	705025-8	EHC-9705-139	5/7/1997	EH-61
835	711029-4	EHC-9711-135	11/7/1997	EH-61
836	805027-5	EHC-9805-136	5/6/1998	EH-61
836	811076-4	EHC-9811-135	11/19/1998	EH-61
836	905024-3	EHC-9905-135	5/10/1999	EH-61
836	911050-3	EHC-9911-151	11/11/1999	EH-61

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688	8705007-05	AEH-0705-101	5/8/2007	EH-116
669	8705007-06	AEH-0705-102	5/8/2007	EH-113
662	8705007-07	AEH-0705-103	5/8/2007	EH-112
653	8705007-08	AEH-0705-105	5/8/2007	EH-111
588	8705007-09	AEH-0705-107	5/8/2007	EH-101
801	8705007-10	AEH-0705-142	5/11/2007	EH-58
683	8705007-11	AEH-0705-140	5/11/2007	EH-115
602	8705007-12	AEH-0705-138	5/11/2007	EH-102
602	8705007-13	AEH-0705-137	5/11/2007	EH-102
1130	8705007-14	AEH-0705-199	5/21/2007	DH-34
1130	8705007-15	AEH-0705-200	5/21/2007	DH-34
812	8705007-20	AEH-0705-215	5/23/2007	EH-59
777	8705007-21	AEH-0705-216	5/23/2007	EH-54
693	8705007-22	AEH-0705-217	5/23/2007	EH-117
624	8705007-24	AEH-0705-219	5/23/2007	EH-106
624	8705007-25	AEH-0705-220	5/23/2007	EH-106
749	8705007-26	AEH-0705-221	5/23/2007	EH-52
443	8705007-27	AEH-0705-222	5/23/2007	DH-52
510	8705007-28	AEH-0705-223	5/23/2007	DH-64
837	60190487	EHC-0105-177	5/10/2001	EH-61
568	AEH-0310-379	AEH-0310-379	10/27/2003	DH-9
502	AEH-0310-409	AEH-0310-409	10/28/2003	DH-63
927	AEH-0310-445	AEH-0310-445	10/24/2003	MW-7
914	AEH-0310-446	AEH-0310-446	10/24/2003	MW-5
186	AEH-0310-447	AEH-0310-447	10/25/2003	DH-14
123	AEH-0310-448	AEH-0310-448	10/25/2003	APSD-8
28	AEH-0310-449	AEH-0310-449	10/25/2003	APSD-11
37	AEH-0310-450	AEH-0310-450	10/25/2003	APSD-12
133	AEH-0310-451	AEH-0310-451	10/25/2003	APSD-9
85	AEH-0310-452	AEH-0310-452	10/25/2003	APSD-4
302	AEH-0310-454	AEH-0310-454	10/26/2003	DH-28
459	AEH-0310-455	AEH-0310-455	10/26/2003	DH-55
462	AEH-0310-456	AEH-0310-456	10/26/2003	DH-56
516	AEH-0310-457	AEH-0310-457	10/26/2003	DH-65
601	AEH-0310-458	AEH-0310-458	10/28/2003	EH-102
939	AEH-0310-459	AEH-0310-459	10/30/2003	SPARGE 1
941	AEH-0310-460	AEH-0310-460	10/30/2003	SPARGE 2
971	AEH-0310-461	AEH-0310-461	10/30/2003	STW-2
983	AEH-0310-462	AEH-0310-462	10/30/2003	STW-3
1003	AEH-0310-463	AEH-0310-463	10/30/2003	STW-5
1011	AEH-0310-464	AEH-0310-464	10/30/2003	STW-6
787	AEH-0405-108	AEH-0405-108	5/18/2004	EH-57A

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601	AEH-0405-230	AEH-0405-230	5/13/2004	EH-102
123	AEH-0405-231	AEH-0405-231	5/13/2004	APSD-8
28	AEH-0405-232	AEH-0405-232	5/13/2004	APSD-11
37	AEH-0405-233	AEH-0405-233	5/13/2004	APSD-12
85	AEH-0405-234	AEH-0405-234	5/13/2004	APSD-4
133	AEH-0405-235	AEH-0405-235	5/13/2004	APSD-9
302	AEH-0405-236	AEH-0405-236	5/13/2004	DH-28
186	AEH-0405-237	AEH-0405-237	5/13/2004	DH-14
459	AEH-0405-238	AEH-0405-238	5/13/2004	DH-55
516	AEH-0405-239	AEH-0405-239	5/13/2004	DH-65
462	AEH-0405-240	AEH-0405-240	5/13/2004	DH-56
939	AEH-0405-241	AEH-0405-241	5/13/2004	SPARGE 1
941	AEH-0405-242	AEH-0405-242	5/13/2004	SPARGE 2
983	AEH-0405-243	AEH-0405-243	5/13/2004	STW-3
1012	AEH-0405-244	AEH-0405-244	5/13/2004	STW-6
1004	AEH-0405-245	AEH-0405-245	5/13/2004	STW-5
972	AEH-0405-246	AEH-0405-246	5/13/2004	STW-2
503	AEH-0411-146	AEH-0411-146	10/28/2004	DH-63
1119	AEH-0411-220	AEH-0411-220	11/3/2004	DH-32
198	AEH-0505-152	AEH-0505-152	5/13/2005	DH-16
1119	AEH-0505-153	AEH-0505-153	5/13/2005	DH-32
1052	AEH-0505-154	AEH-0505-154	5/13/2005	DH-12
401	AEH-0505-155	AEH-0505-155	5/13/2005	DH-48
405	AEH-0505-170	AEH-0505-170	5/17/2005	DH-49
1123	AEH-0505-213	AEH-0505-213	5/19/2005	DH-33
568	AEH-0505-216	AEH-0505-217	5/16/2005	DH-9
86	AEH-0505-APSD4	AEH-0505-APSD4	5/9/2005	APSD-4
123	AEH-0505-APSD8	AEH-0505-APSD8	5/9/2005	APSD-8
133	AEH-0505-APSD9	AEH-0505-APSD9	5/9/2005	APSD-9
28	AEH-0505-APSD11	AEH-0505-APSD11	5/9/2005	APSD-11
37	AEH-0505-APSD12	AEH-0505-APSD12	5/9/2005	APSD-12
186	AEH-0505-DH14	AEH-0505-DH14	5/9/2005	DH-14
459	AEH-0505-DH55	AEH-0505-DH55	5/9/2005	DH-55
462	AEH-0505-DH56	AEH-0505-DH56	5/9/2005	DH-56
496	AEH-0505-DH61	AEH-0505-DH61	5/9/2005	DH-61
516	AEH-0505-DH65	AEH-0505-DH65	5/9/2005	DH-65
302	AEH-0505-DH258	AEH-0505-DH258	5/9/2005	DH-28
601	AEH-0505-EH102	AEH-0505-EH102	5/9/2005	EH-102
940	AEH-0505-SPARGE 1	AEH-0505-SPARGE 1	5/9/2005	SPARGE 1
941	AEH-0505-SPARGE 2	AEH-0505-SPARGE 2	5/9/2005	SPARGE 2
972	AEH-0505-STW2	AEH-0505-STW2	5/9/2005	STW-2
983	AEH-0505-STW3	AEH-0505-STW3	5/9/2005	STW-3

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1012	AEH-0505-STW6	AEH-0505-STW6	5/9/2005	STW-6
401	AEH-0511-162	AEH-0511-162	11/11/2005	DH-48
569	AEH-0511-183	AEH-0511-183	11/16/2005	DH-9
1119	AEH-0511-219	AEH-0511-219	11/18/2005	DH-32
1052	AEH-0511-237	AEH-0511-237	11/3/2005	DH-12
198	AEH-0511-238	AEH-0511-238	11/3/2005	DH-16
601	AEH-0511-239	AEH-0511-239	11/3/2005	EH-102
124	AEH-0511-240	AEH-0511-240	11/3/2005	APSD-8
28	AEH-0511-241	AEH-0511-241	11/3/2005	APSD-11
37	AEH-0511-242	AEH-0511-242	11/3/2005	APSD-12
86	AEH-0511-243	AEH-0511-243	11/3/2005	APSD-4
134	AEH-0511-244	AEH-0511-244	11/3/2005	APSD-9
496	AEH-0511-245	AEH-0511-245	11/3/2005	DH-61
302	AEH-0511-246	AEH-0511-246	11/3/2005	DH-28
186	AEH-0511-247	AEH-0511-247	11/3/2005	DH-14
972	AEH-0511-248	AEH-0511-248	11/3/2005	STW-2
459	AEH-0511-249	AEH-0511-249	11/3/2005	DH-55
517	AEH-0511-250	AEH-0511-250	11/3/2005	DH-65
463	AEH-0511-251	AEH-0511-251	11/3/2005	DH-56
921	AEH-0511-252	AEH-0511-252	11/3/2005	MW-6
940	AEH-0511-253	AEH-0511-253	11/3/2005	SPARGE 1
941	AEH-0511-254	AEH-0511-254	11/3/2005	SPARGE 2
983	AEH-0511-255	AEH-0511-255	11/3/2005	STW-3
1012	AEH-0511-256	AEH-0511-256	11/3/2005	STW-6
1004	AEH-0511-257	AEH-0511-257	11/3/2005	STW-5
927	AEH-0511-258	AEH-0511-258	11/3/2005	MW-7
569	AEH-0605-185	AEH-0605-185	5/8/2006	DH-9
1120	AEH-0605-186	AEH-0605-186	5/8/2006	DH-32
198	AEH-0605-187	AEH-0605-187	5/9/2006	DH-16
401	AEH-0605-203	AEH-0605-203	5/10/2006	DH-48
1052	AEH-0605-218	AEH-0605-218	5/10/2006	DH-12
1123	AEH-0605-227	AEH-0605-227	5/11/2006	DH-33
86	AEH-0605-APSD4	AEH-0605-APSD4	4/25/2006	APSD-4
134	AEH-605-APSD6	AEH-0605-APSD6	4/25/2006	APSD-9
124	AEH-0605-APSD8	AEH-0605-APSD8	4/25/2006	APSD-8
29	AEH-0605-APSD11	AEH-0605-APSD11	4/25/2006	APSD-11
38	AEH-0605-APSD12	AEH-0605-APSD12	4/25/2006	APSD-12
187	AEH-0605-DH14	AEH-0605-DH14	4/28/2006	DH-14
302	AEH-0605-DH28	AEH-0605-DH28	4/25/2006	DH-28
459	AEH-0605-DH55	AEH-0605-DH55	4/28/2006	DH-55
463	AEH-0605-DH56	AEH-0605-DH56	4/28/2006	DH-56
496	AEH-0605-DH61	AEH-0605-DH61	4/25/2006	DH-61

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517	AEH-0605-DH65	AEH-0605-DH65	4/28/2006	DH-65
601	AEH-0605-EH102	AEH-0605-EH102	4/25/2006	EH-102
922	AEH-0605-MW6	AEH-0605-MW6	4/28/2006	MW-6
927	AEH-0605-MW7	AEH-0605-MW7	4/28/2006	MW-7
940	AEH-0605-SPAR1	AEH-0605-SPAR1	4/28/2006	SPARGE 1
942	AEH-0605-SPAR2	AEH-0605-SPAR2	4/28/2006	SPARGE 2
972	AEH-0605-STW2	AEH-0605-STW2	4/28/2006	STW-2
984	AEH-0605-STW3	AEH-0605-STW3	4/28/2006	STW-3
1004	AEH-0605-STW5	AEH-0605-STW5	4/28/2006	STW-5
1012	AEH-0605-STW6	AEH-0605-STW6	4/28/2006	STW-6
198	AEH-0611-154	AEH-0611-154	11/10/2006	DH-16
495	AEH-0611-201	AEH-0611-201	11/17/2006	DH-60
569	AEH-0611-243	AEH-0611-243	11/20/2006	DH-9
63	AEH-0611-APSD2	AEH-0611-APSD2	11/6/2006	APSD-2
76	AEH-0611-APSD3	AEH-0611-APSD3	11/6/2006	APSD-3
86	AEH-0611-APSD4	AEH-0611-APSD4	11/20/2006	APSD-4
134	AEH-0611-APSD9	AEH-0611-APSD9	11/20/2006	APSD-9
29	AEH-0611-APSD11	AEH-0611-APSD11	11/20/2006	APSD-11
38	AEH-0611-APSD12	AEH-0611-APSD12	11/20/2006	APSD-12
380	AEH-0611-DH42	AEH-0611-DH42	11/6/2006	DH-42
476	AEH-0611-DH59	AEH-0611-DH59	11/9/2006	DH-59
235	AEH-0709-DH2	AEH-0709-DH2	9/6/2007	DH-2
777	AEH-0709-EH54	AEH-0709-EH54	9/6/2007	EH-54
1053	AEH-0710-DH12	AEH-0710-104	12/2/2007	DH-12
1120	AEH-0710-DH32	AEH-0710-112	10/3/2007	DH-32
928	AEH-0711-148	AEH-0711-148	11/26/2007	MW-7
402	AEH-0711-163	AEH-0711-163	11/27/2007	DH-48
406	AEH-0711-164	AEH-0711-164	11/27/2007	DH-49
1053	AEH-0711-231	AEH-0711-231	12/11/2007	DH-12
1120	AEH-0711-251	AEH-0711-251	12/13/2007	DH-32
1115	AEH-0711-259	AEH-0711-259	12/13/2007	DH-31
1144	AEH-0711-260	AEH-0711-260	12/13/2007	DH-38
199	AEH-0711-261	AEH-0711-261	12/13/2007	DH-16
263	AEH-0711-262	AEH-0711-262	12/13/2007	DH-22
569	AEH-0711-263	AEH-0711-263	12/13/2007	DH-9
124	AEH-0711-APSD8	AEH-0711-APSD8	11/1/2007	APSD-8
134	AEH-0711-APSD9	AEH-0711-APSD9	11/1/2007	APSD-9
29	AEH-0711-APSD11	AEH-0711-APSD11	11/1/2007	APSD-11
38	AEH-0711-APSD12	AEH-0711-APSD12	11/1/2007	APSD-12
47	AEH-0711-APSD13	AEH-0711-APSD13	11/1/2007	APSD-13
303	AEH-0711-DH28	AEH-0711-DH28	11/1/2007	DH-28
348	AEH-0711-DH39	AEH-0711-DH39	11/1/2007	DH-39
374	AEH-0711-DH40	AEH-0711-DH40	11/1/2007	DH-40

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377	AEH-0711-DH41	AEH-0711-DH41	11/1/2007	DH-41
384	AEH-0711-DH43	AEH-0711-DH43	11/1/2007	DH-43
387	AEH-0711-DH44	AEH-0711-DH44	11/1/2007	DH-44
391	AEH-0711-DH45	AEH-0711-DH45	11/1/2007	DH-45
394	AEH-0711-DH46	AEH-0711-DH46	11/1/2007	DH-46
496	AEH-0711-DH60	AEH-0711-DH60	11/1/2007	DH-60
497	AEH-0711-DH61	AEH-0711-DH61	11/1/2007	DH-61
937	AEH-0711-PRB2	AEH-0711-PRB2	11/1/2007	PRB-2
940	AEH-0711-SPAR1	AEH-0711-SPAR1	11/1/2007	SPARGE 1
942	AEH-0711-SPAR2	AEH-0711-SPAR2	11/1/2007	SPARGE 2
973	AEH-0711-STW2	AEH-0711-STW2	11/1/2007	STW-2
984	AEH-0711-STW3	AEH-0711-STW3	11/1/2007	STW-3
1005	AEH-0711-STW5	AEH-0711-STW5	11/1/2007	STW-5
1013	AEH-0711-STW6	AEH-0711-STW6	11/1/2007	STW-6
632	AEH-0801-133	AEH-0801-133	1/31/2008	EH-107
869	AEH-0801-134	AEH-0801-134	1/31/2008	EH-65
928	AEH-0801-144	AEH-0801-144	2/1/2008	MW-7
569	AEH-0801-150	AEH-0801-150	2/1/2008	DH-9
1053	AEH-0802-102	AEH-0802-102	2/12/2008	DH-12
1144	AEH-0802-109	AEH-0802-109	2/12/2008	DH-38
1117	AEH-0802-111	AEH-0802-111	2/13/2008	DH-31
1120	AEH-0802-119	AEH-0802-119	2/13/2008	DH-32
928	AEH-0802-152	AEH-0802-152	3/7/2008	MW-7
929	AEH-0805-147	AEH-0805-147	5/5/2008	MW-7
1053	AEH-0805-226	AEH-0805-226	5/13/2008	DH-12
199	AEH-0805-227	AEH-0805-227	5/13/2008	DH-16
263	AEH-0805-228	AEH-0805-228	5/13/2008	DH-22
1121	AEH-0805-229	AEH-0805-229	5/13/2008	DH-32
1144	AEH-0805-230	AEH-0805-230	5/13/2008	DH-38
402	AEH-0805-231	AEH-0805-231	5/13/2008	DH-48
570	AEH-0805-232	AEH-0805-232	5/13/2008	DH-9
406	AEH-0805-258	AEH-0805-258	5/15/2008	DH-49
343	AEH-0805-270	AEH-0805-270	5/16/2008	DH-37
1117	AEH-0805-272	AEH-0805-272	5/16/2008	DH-31
929	AEH-0807-148	AEH-0807-148	7/16/2008	MW-7
1054	AEH-0807-155	AEH-0807-155	7/17/2008	DH-12
1121	AEH-0807-156	AEH-0807-156	7/17/2008	DH-32
1146	AEH-0807-157	AEH-0807-157	7/17/2008	DH-38
1117	AEH-0807-168	AEH-0807-168	7/18/2008	DH-31
570	AEH-0902-187	AEH-0902-187	2/10/2009	DH-9
565	AEH-9204-110	AEH-9204-110	4/27/1992	DH-9
195	AEH-9204-128	AEH-9204-128	4/29/1992	DH-16
1049	AEH-9204-151	AEH-9204-151	4/29/1992	DH-12

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800	C05050399-001	AEH-0505-100	5/10/2005	EH-58
811	C05050399-002	AEH-0505-101	5/10/2005	EH-59
747	C05050399-003	AEH-0505-102	5/10/2005	EH-52
762	C05050399-004	AEH-0505-103	5/10/2005	EH-53
668	C05050399-005	AEH-0505-104	5/10/2005	EH-113
668	C05050399-006	AEH-0505-105	5/10/2005	EH-113
849	C05050399-007	AEH-0505-106	5/10/2005	EH-62
776	C05050399-008	AEH-0505-107	5/10/2005	EH-54
861	C05050399-009	AEH-0505-108	5/10/2005	EH-64
868	C05050399-010	AEH-0505-109	5/10/2005	EH-65
630	C05050399-011	AEH-0505-110	5/10/2005	EH-107
609	C05050399-012	AEH-0505-111	5/10/2005	EH-103
645	C05050444-001	AEH-0505-113	5/11/2005	EH-110
645	C05050444-002	AEH-0505-114	5/11/2005	EH-110
856	C05050444-003	AEH-0505-115	5/11/2005	EH-63
622	C05050444-004	AEH-0505-116	5/11/2005	EH-106
639	C05050444-005	AEH-0505-117	5/11/2005	EH-109
615	C05050444-006	AEH-0505-118	5/11/2005	EH-104
682	C05050444-007	AEH-0505-119	5/11/2005	EH-115
652	C05050444-008	AEH-0505-120	5/11/2005	EH-111
659	C05050444-009	AEH-0505-121	5/11/2005	EH-112
720	C05050444-010	AEH-0505-122	5/11/2005	EH-50
577	C05050444-011	AEH-0505-123	5/11/2005	EH-100
733	C05050444-012	AEH-0505-124	5/11/2005	EH-51
586	C05050444-013	AEH-0505-125	5/11/2005	EH-101
489	C05050485-001	AEH-0505-127	5/12/2005	DH-6
191	C05050485-002	AEH-0505-128	5/12/2005	DH-15
158	C05050485-003	AEH-0505-129	5/12/2005	DH-10A
442	C05050485-004	AEH-0505-130	5/12/2005	DH-52
450	C05050485-005	AEH-0505-131	5/12/2005	DH-53
146	C05050485-006	AEH-0505-132	5/12/2005	DH-1
234	C05050485-007	AEH-0505-133	5/12/2005	DH-2
107	C05050485-008	AEH-0505-134	5/12/2005	APSD-7
108	C05050485-009	AEH-0505-135	5/12/2005	APSD-7
8	C05050485-010	AEH-0505-136	5/12/2005	APSD-1
62	C05050485-011	AEH-0505-137	5/12/2005	APSD-2
76	C05050485-012	AEH-0505-138	5/12/2005	APSD-3
46	C05050485-013	AEH-0505-139	5/12/2005	APSD-13
19	C05050527-001	AEH-0505-142	5/13/2005	APSD-10
249	C05050527-002	AEH-0505-143	5/13/2005	DH-20
313	C05050527-003	AEH-0505-144	5/13/2005	DH-29
313	C05050527-004	AEH-0505-145	5/13/2005	DH-29
390	C05050527-006	AEH-0505-147	5/13/2005	DH-45

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397	C05050527-008	AEH-0505-149	5/13/2005	DH-47
422	C05050527-009	AEH-0505-150	5/13/2005	DH-5
368	C05050527-010	AEH-0505-151	5/13/2005	DH-4
437	C05050640-001	AEH-0505-157	5/16/2005	DH-51
959	C05050640-002	AEH-0505-158	5/16/2005	STW-1
1023	C05050640-003	AEH-0505-159	5/16/2005	STW-7
1035	C05050640-004	AEH-0505-160	5/16/2005	STW-8
1043	C05050640-005	AEH-0505-161	5/16/2005	STW-9
994	C05050640-006	AEH-0505-162	5/16/2005	STW-4
432	C05050640-007	AEH-0505-163	5/16/2005	DH-50
948	C05050640-008	AEH-0505-164	5/16/2005	SPARGE 3
290	C05050640-009	AEH-0505-165	5/16/2005	DH-24
291	C05050640-010	AEH-0505-166	5/16/2005	DH-24
1102	C05050640-011	AEH-0505-167	5/16/2005	DH-27
540	C05050640-014	AEH-0505-171	5/17/2005	DH-7
170	C05050640-015	AEH-0505-172	5/17/2005	DH-11
914	C05050640-016	AEH-0505-173	5/17/2005	MW-5
914	C05050640-017	AEH-0505-174	5/17/2005	MW-5
908	C05050640-018	AEH-0505-175	5/17/2005	MW-4
882	C05050640-019	AEH-0505-176	5/17/2005	MW-1
894	C05050640-020	AEH-0505-177	5/17/2005	MW-2
900	C05050640-021	AEH-0505-178	5/17/2005	MW-3
787	C05050640-022	AEH-0505-179	5/17/2005	EH-57A
675	C05050640-023	AEH-0505-180	5/17/2005	EH-114
827	C05050640-024	AEH-0505-181	5/17/2005	EH-60
838	C05050640-025	AEH-0505-182	5/17/2005	EH-61
208	C05050691-001	AEH-0505-185	5/18/2005	DH-17
469	C05050691-002	AEH-0505-186	5/18/2005	DH-58
386	C05050691-003	AEH-0505-187	5/18/2005	DH-44
347	C05050691-004	AEH-0505-188	5/18/2005	DH-39
373	C05050691-005	AEH-0505-189	5/18/2005	DH-40
556	C05050691-006	AEH-0505-190	5/18/2005	DH-8
557	C05050691-007	AEH-0505-191	5/18/2005	DH-8
499	C05050691-008	AEH-0505-192	5/18/2005	DH-62
495	C05050691-009	AEH-0505-193	5/18/2005	DH-60
519	C05050691-010	AEH-0505-194	5/18/2005	DH-66
1076	C05050691-011	AEH-0505-195	5/18/2005	DH-18
1062	C05050691-013	AEH-0505-197	5/18/2005	DH-13
508	C05050691-014	AEH-0505-198	5/18/2005	DH-64
524	C05050691-015	AEH-0505-199	5/18/2005	DH-67
376	C05050744-001	AEH-0505-201	5/19/2005	DH-41
379	C05050744-002	AEH-0505-202	5/19/2005	DH-42

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475	C05050744-004	AEH-0505-204	5/19/2005	DH-59
475	C05050744-005	AEH-0505-205	5/19/2005	DH-59
336	C05050744-006	AEH-0505-206	5/19/2005	DH-36
1109	C05050744-007	AEH-0505-207	5/19/2005	DH-30
342	C05050744-008	AEH-0505-208	5/19/2005	DH-37
1143	C05050744-009	AEH-0505-209	5/19/2005	DH-38
465	C05050744-010	AEH-0505-210	5/19/2005	DH-57
270	C05050744-011	AEH-0505-211	5/19/2005	DH-23
455	C05050744-012	AEH-0505-212	5/19/2005	DH-54
221	C05050744-014	AEH-0505-215	5/19/2005	DH-19R
329	C05050744-015	AEH-0505-216	5/19/2005	DH-3
262	C05050789-001	AEH-0505-219	5/20/2005	DH-22
1129	C05050789-002	AEH-0505-220	5/20/2005	DH-34
1129	C05050789-003	AEH-0505-221	5/20/2005	DH-34
1090	C05050789-004	AEH-0505-222	5/20/2005	DH-21
1137	C05050789-005	AEH-0505-223	5/20/2005	DH-35
1114	C05050789-006	AEH-0505-224	5/20/2005	DH-31
503	C05050789-007	AEH-0505-225	5/20/2005	DH-63
1052	EHC-0111-113	EHC-0111-113	11/9/2001	DH-12
195	EHC-9305-151	EHC-9305-151	5/5/1993	DH-16
195	EHC-9405-117	EHC-9405-117	5/12/1994	DH-16
196	EHC-9411-117	EHC-9411-117	11/17/1994	DH-16
196	EHC-9505-117	EHC-9505-117	5/16/1995	DH-16
204	EHC-9605-106	EHC-9605-106	5/14/1996	DH-17
196	EHC-9611-107	EHC-9611-107	11/12/1996	DH-16
196	EHC-9705-106	EHC-9705-106	5/7/1997	DH-16
197	EHC-9805-108	EHC-9805-108	5/11/1998	DH-16
1052	EHC0205118	EHC-0205-118	5/31/2002	DH-12
198	EHC0205122	EHC-0205-122	5/31/2002	DH-16
1122	EHC0205139	EHC-0205-139	5/30/2002	DH-33
400	EHC0205155	EHC-0205-155	5/31/2002	DH-48
404	EHC0205156	EHC-0205-156	5/30/2002	DH-49
464	EHC0205165	EHC-0205-165	5/30/2002	DH-57
496	EHC0205170	EHC-0205-170	5/30/2002	DH-61
568	EHC0205178	EHC-0205-178	5/31/2002	DH-9
926	EHC0205213	EHC-0205-213	5/20/2002	MW-7
1119	EHC0208138	EHC-0205-138	5/30/2002	DH-32
1034	EHST-0212-103	EHST-0212-103	12/17/2002	STW-8
982	EHST-0212-104	EHST-0212-104	12/17/2002	STW-3
993	EHST-0212-105	EHST-0212-105	12/17/2002	STW-4
286	FIELD ONLY	EHST-0110-109	10/19/2001	DH-24
286	FIELD ONLY	EHST-0111-110	11/2/2001	DH-24

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428	FIELD ONLY	EHST-0110-110	10/19/2001	DH-50
428	FIELD ONLY	EHST-0111-111	11/2/2001	DH-50
945	FIELD ONLY	EHST-0110-100	10/19/2001	SPARGE 3
945	FIELD ONLY	EHST-0111-100	11/2/2001	SPARGE 3
956	FIELD ONLY	EHST-0111-101	11/2/2001	STW-1
965	FIELD ONLY	EHST-0111-102	11/2/2001	STW-2
965	FIELD ONLY	EHST-0110-101	10/19/2001	STW-2
966	FIELD ONLY	EHST-0112-250	12/12/2001	STW-2
976	FIELD ONLY	EHST-0110-102	10/19/2001	STW-3
976	FIELD ONLY	EHST-0111-103	11/2/2001	STW-3
977	FIELD ONLY	EHST-0112-251	12/12/2001	STW-3
988	FIELD ONLY	EHST-0110-103	10/19/2001	STW-4
988	FIELD ONLY	EHST-0111-104	11/2/2001	STW-4
999	FIELD ONLY	EHST-0110-104	10/19/2001	STW-5
1000	FIELD ONLY	EHST-0111-105	11/2/2001	STW-5
1008	FIELD ONLY	EHST-0110-105	10/19/2001	STW-6
1008	FIELD ONLY	EHST-0111-106	11/2/2001	STW-6
1013	FIELD ONLY	EHST-0110-106	10/19/2001	STW-7
1013	FIELD ONLY	EHST-0111-107	11/2/2001	STW-7
1014	FIELD ONLY	EHST-0112-252	12/12/2001	STW-7
1026	FIELD ONLY	EHST-0110-107	10/19/2001	STW-8
1026	FIELD ONLY	EHST-0111-108	11/2/2001	STW-8
1027	FIELD ONLY	EHST-0112-253	12/12/2001	STW-8
1038	FIELD ONLY	EHST-0111-109	11/2/2001	STW-9
1038	FIELD ONLY	EHST-0110-108	10/19/2001	STW-9
1039	FIELD ONLY	EHST-0112-254	12/12/2001	STW-9
368	H04050109-001	AEH-0405-100	5/17/2004	DH-4
421	H04050109-002	AEH-0405-101	5/17/2004	DH-5
421	H04050109-003	AEH-0405-102	5/17/2004	DH-5
397	H04050109-004	AEH-0405-103	5/17/2004	DH-47
392	H04050109-005	AEH-0405-104	5/17/2004	DH-46
389	H04050109-006	AEH-0405-105	5/17/2004	DH-45
675	H04050109-008	AEH-0405-107	5/18/2004	EH-114
651	H04050109-009	AEH-0405-109	5/18/2004	EH-111
659	H04050109-010	AEH-0405-110	5/18/2004	EH-112
668	H04050121-001	AEH-0405-111	5/19/2004	EH-113
761	H04050121-002	AEH-0405-112	5/19/2004	EH-53
849	H04050121-003	AEH-0405-113	5/19/2004	EH-62
775	H04050121-004	AEH-0405-114	5/19/2004	EH-54
775	H04050121-005	AEH-0405-115	5/19/2004	EH-54
681	H04050121-006	AEH-0405-116	5/19/2004	EH-115
622	H04050121-007	AEH-0405-117	5/19/2004	EH-106
867	H04050121-008	AEH-0405-118	5/19/2004	EH-65

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630	H04050121-009	AEH-0405-119	5/19/2004	EH-107
861	H04050121-010	AEH-0405-120	5/19/2004	EH-64
855	H04050121-011	AEH-0405-121	5/19/2004	EH-63
643	H04050121-012	AEH-0405-122	5/19/2004	EH-110
508	H04050133-001	AEH-0405-124	5/20/2004	DH-64
432	H04050133-002	AEH-0405-125	5/20/2004	DH-50
993	H04050133-003	AEH-0405-126	5/20/2004	STW-4
1043	H04050133-004	AEH-0405-127	5/20/2004	STW-9
1043	H04050133-005	AEH-0405-128	5/20/2004	STW-9
1035	H04050133-006	AEH-0405-129	5/20/2004	STW-8
1022	H04050133-007	AEH-0405-130	5/20/2004	STW-7
959	H04050133-008	AEH-0405-131	5/20/2004	STW-1
436	H04050133-009	AEH-0405-132	5/20/2004	DH-51
208	H04050133-010	AEH-0405-133	5/20/2004	DH-17
948	H04050133-011	AEH-0405-134	5/20/2004	SPARGE 3
290	H04050133-012	AEH-0405-135	5/20/2004	DH-24
894	H04050133-013	AEH-0405-136	5/20/2004	MW-2
882	H04050133-014	AEH-0405-137	5/20/2004	MW-1
900	H04050133-016	AEH-0405-139	5/20/2004	MW-3
107	H04050141-001	AEH-0405-140	5/21/2004	APSD-7
8	H04050141-002	AEH-0405-141	5/21/2004	APSD-1
62	H04050141-003	AEH-0405-142	5/21/2004	APSD-2
75	H04050141-004	AEH-0405-143	5/21/2004	APSD-3
75	H04050141-005	AEH-0405-144	5/21/2004	APSD-3
313	H04050141-006	AEH-0405-145	5/21/2004	DH-29
248	H04050141-007	AEH-0405-146	5/21/2004	DH-20
46	H04050141-009	AEH-0405-148	5/21/2004	APSD-13
376	H04050141-010	AEH-0405-149	5/21/2004	DH-41
540	H04050162-001	AEH-0405-150	5/24/2004	DH-7
170	H04050162-002	AEH-0405-151	5/24/2004	DH-11
489	H04050162-003	AEH-0405-152	5/24/2004	DH-6
157	H04050162-004	AEH-0405-153	5/24/2004	DH-10A
442	H04050162-005	AEH-0405-154	5/24/2004	DH-52
449	H04050162-006	AEH-0405-155	5/24/2004	DH-53
524	H04050162-007	AEH-0405-156	5/24/2004	DH-67
400	H04050162-008	AEH-0405-157	5/24/2004	DH-48
524	H04050162-009	AEH-0405-159	5/24/2004	DH-67
146	H04050162-010	AEH-0405-160	5/24/2004	DH-1
234	H04050162-011	AEH-0405-161	5/24/2004	DH-2
927	H04050175-001	AEH-0405-165	5/25/2004	MW-7
921	H04050175-003	AEH-0405-167	5/25/2004	MW-6
914	H04050175-004	AEH-0405-168	5/25/2004	MW-5
908	H04050175-005	AEH-0405-169	5/25/2004	MW-4

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329	H04050175-007	AEH-0405-171	5/25/2004	DH-3
799	H04050175-008	AEH-0405-172	5/25/2004	EH-58
811	H04050175-009	AEH-0405-173	5/25/2004	EH-59
747	H04050175-010	AEH-0405-174	5/25/2004	EH-52
733	H04050175-011	AEH-0405-175	5/25/2004	EH-51
454	H04050175-012	AEH-0405-176	5/25/2004	DH-54
608	H04050175-013	AEH-0405-177	5/25/2004	EH-103
608	H04050175-014	AEH-0405-178	5/25/2004	EH-103
827	H04050191-001	AEH-0405-179	5/26/2004	EH-60
838	H04050191-002	AEH-0405-180	5/26/2004	EH-61
720	H04050191-005	AEH-0405-183	5/26/2004	EH-50
576	H04050191-006	AEH-0405-184	5/26/2004	EH-100
576	H04050191-007	AEH-0405-185	5/26/2004	EH-100
615	H04050191-008	AEH-0405-186	5/26/2004	EH-104
638	H04050191-009	AEH-0405-187	5/26/2004	EH-109
586	H04050191-010	AEH-0405-188	5/26/2004	EH-101
18	H04050191-011	AEH-0405-189	5/26/2004	APSD-10
386	H04050191-012	AEH-0405-190	5/26/2004	DH-44
373	H04050191-013	AEH-0405-191	5/26/2004	DH-40
347	H04050191-014	AEH-0405-192	5/26/2004	DH-39
494	H04050191-015	AEH-0405-193	5/26/2004	DH-60
261	H04050191-016	AEH-0405-194	5/26/2004	DH-22
498	H04050191-017	AEH-0405-195	5/26/2004	DH-62
556	H04050191-018	AEH-0405-196	5/26/2004	DH-8
519	H04050191-019	AEH-0405-197	5/26/2004	DH-66
383	H04050191-020	AEH-0405-198	5/26/2004	DH-43
405	H04050208-001	AEH-0405-199	5/27/2004	DH-49
1062	H04050208-002	AEH-0405-200	5/27/2004	DH-13
191	H04050208-004	AEH-0405-202	5/27/2004	DH-15
1075	H04050208-007	AEH-0405-205	5/27/2004	DH-18
464	H04050208-008	AEH-0405-206	5/27/2004	DH-57
469	H04050208-009	AEH-0405-207	5/27/2004	DH-58
568	H04050208-010	AEH-0405-208	5/27/2004	DH-9
469	H04050208-011	AEH-0405-209	5/27/2004	DH-58
475	H04050208-012	AEH-0405-210	5/27/2004	DH-59
379	H04050208-013	AEH-0405-211	5/27/2004	DH-42
1108	H04050208-014	AEH-0405-212	5/27/2004	DH-30
1101	H04050208-015	AEH-0405-213	5/27/2004	DH-27
1143	H04050208-016	AEH-0405-214	5/27/2004	DH-38
270	H04050208-017	AEH-0405-215	5/27/2004	DH-23
342	H04050208-018	AEH-0405-216	5/27/2004	DH-37
1123	H04050208-019	AEH-0405-218	5/27/2004	DH-33
1129	H04050208-020	AEH-0405-219	5/27/2004	DH-34

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1089	H04050208-021	AEH-0405-220	5/27/2004	DH-21
336	H04050224-001	AEH-0405-221	5/28/2004	DH-36
1137	H04050224-002	AEH-0405-222	5/28/2004	DH-35
1137	H04050224-003	AEH-0405-223	5/28/2004	DH-35
1114	H04050224-004	AEH-0405-224	5/28/2004	DH-31
221	H04050224-006	AEH-0405-226	5/28/2004	DH-19R
107	H04100175-001	AEH-0411-100	10/25/2004	APSD-7
8	H04100175-002	AEH-0411-101	10/25/2004	APSD-1
62	H04100175-003	AEH-0411-102	10/25/2004	APSD-2
75	H04100175-004	AEH-0411-103	10/25/2004	APSD-3
313	H04100175-005	AEH-0411-104	10/25/2004	DH-29
19	H04100175-006	AEH-0411-105	10/25/2004	APSD-10
62	H04100175-007	AEH-0411-106	10/25/2004	APSD-2
787	H04100182-001	AEH-0411-109	10/26/2004	EH-57A
675	H04100182-002	AEH-0411-110	10/26/2004	EH-114
799	H04100182-003	AEH-0411-111	10/26/2004	EH-58
811	H04100182-005	AEH-0411-114	10/26/2004	EH-59
747	H04100182-006	AEH-0411-115	10/26/2004	EH-52
747	H04100182-007	AEH-0411-116	10/26/2004	EH-52
733	H04100182-008	AEH-0411-117	10/26/2004	EH-51
586	H04100182-009	AEH-0411-118	10/26/2004	EH-101
861	H04100182-011	AEH-0411-120	10/26/2004	EH-64
645	H04100182-012	AEH-0411-121	10/26/2004	EH-110
855	H04100182-013	AEH-0411-122	10/26/2004	EH-63
630	H04100182-014	AEH-0411-123	10/26/2004	EH-107
867	H04100182-015	AEH-0411-124	10/26/2004	EH-65
638	H04100182-016	AEH-0411-125	10/26/2004	EH-109
668	H04100192-001	AEH-0411-126	10/27/2004	EH-113
761	H04100192-002	AEH-0411-127	10/27/2004	EH-53
762	H04100192-003	AEH-0411-128	10/27/2004	EH-53
849	H04100192-004	AEH-0411-129	10/27/2004	EH-62
775	H04100192-007	AEH-0411-132	10/27/2004	EH-54
651	H04100192-008	AEH-0411-133	10/27/2004	EH-111
659	H04100192-009	AEH-0411-134	10/27/2004	EH-112
681	H04100192-010	AEH-0411-135	10/27/2004	EH-115
622	H04100192-011	AEH-0411-136	10/27/2004	EH-106
615	H04100192-012	AEH-0411-137	10/27/2004	EH-104
720	H04100192-013	AEH-0411-138	10/27/2004	EH-50
577	H04100192-014	AEH-0411-139	10/27/2004	EH-100
454	H04100192-015	AEH-0411-140	10/27/2004	DH-54
608	H04100202-001	AEH-0411-141	10/28/2004	EH-103
827	H04100202-002	AEH-0411-142	10/28/2004	EH-60
838	H04100202-003	AEH-0411-143	10/28/2004	EH-61

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524	H04100202-004	AEH-0411-144	10/28/2004	DH-67
401	H04100202-005	AEH-0411-145	10/28/2004	DH-48
248	H04100202-006	AEH-0411-147	10/28/2004	DH-20
249	H04100202-007	AEH-0411-148	10/28/2004	DH-20
46	H04100202-010	AEH-0411-151	10/28/2004	APSD-13
221	H04100202-011	AEH-0411-152	10/28/2004	DH-19R
376	H04100202-012	AEH-0411-153	10/28/2004	DH-41
379	H04100202-013	AEH-0411-154	10/28/2004	DH-42
383	H04100202-014	AEH-0411-155	10/28/2004	DH-43
498	H04100202-015	AEH-0411-156	10/28/2004	DH-62
495	H04100202-016	AEH-0411-157	10/28/2004	DH-60
386	H04110009-001	AEH-0411-158	10/29/2004	DH-44
347	H04110009-002	AEH-0411-159	10/29/2004	DH-39
373	H04110009-003	AEH-0411-160	10/29/2004	DH-40
389	H04110009-004	AEH-0411-161	10/29/2004	DH-45
393	H04110009-005	AEH-0411-162	10/29/2004	DH-46
393	H04110009-006	AEH-0411-163	10/29/2004	DH-46
397	H04110009-007	AEH-0411-164	10/29/2004	DH-47
422	H04110009-008	AEH-0411-165	10/29/2004	DH-5
368	H04110009-009	AEH-0411-166	10/29/2004	DH-4
540	H04110009-010	AEH-0411-167	10/29/2004	DH-7
170	H04110009-013	AEH-0411-170	10/29/2004	DH-11
329	H04110018-001	AEH-0411-171	11/1/2004	DH-3
234	H04110018-002	AEH-0411-172	11/1/2004	DH-2
146	H04110018-003	AEH-0411-173	11/1/2004	DH-1
556	H04110018-004	AEH-0411-174	11/1/2004	DH-8
261	H04110018-005	AEH-0411-175	11/1/2004	DH-22
464	H04110018-006	AEH-0411-176	11/1/2004	DH-57
465	H04110018-007	AEH-0411-177	11/1/2004	DH-57
270	H04110018-008	AEH-0411-178	11/1/2004	DH-23
568	H04110018-009	AEH-0411-179	11/1/2004	DH-9
469	H04110018-010	AEH-0411-180	11/1/2004	DH-58
336	H04110018-011	AEH-0411-181	11/1/2004	DH-36
900	H04110018-014	AEH-0411-184	11/1/2004	MW-3
450	H04110029-001	AEH-0411-185	11/2/2004	DH-53
450	H04110029-002	AEH-0411-186	11/2/2004	DH-53
442	H04110029-003	AEH-0411-187	11/2/2004	DH-52
158	H04110029-004	AEH-0411-188	11/2/2004	DH-10A
489	H04110029-005	AEH-0411-189	11/2/2004	DH-6
191	H04110029-006	AEH-0411-190	11/2/2004	DH-15
1075	H04110029-009	AEH-0411-193	11/2/2004	DH-18
1052	H04110029-010	AEH-0411-194	11/2/2004	DH-12
1062	H04110029-011	AEH-0411-195	11/2/2004	DH-13

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475	H04110029-013	AEH-0411-197	11/2/2004	DH-59
1102	H04110029-014	AEH-0411-198	11/2/2004	DH-27
405	H04110029-015	AEH-0411-199	11/2/2004	DH-49
948	H04110029-016	AEH-0411-200	11/2/2004	SPARGE 3
290	H04110029-017	AEH-0411-201	11/2/2004	DH-24
508	H04110029-018	AEH-0411-202	11/2/2004	DH-64
208	H04110037-001	AEH-0411-203	11/3/2004	DH-17
432	H04110037-002	AEH-0411-204	11/3/2004	DH-50
437	H04110037-003	AEH-0411-205	11/3/2004	DH-51
437	H04110037-004	AEH-0411-206	11/3/2004	DH-51
914	H04110037-005	AEH-0411-207	11/3/2004	MW-5
894	H04110037-006	AEH-0411-208	11/3/2004	MW-2
908	H04110037-008	AEH-0411-210	11/3/2004	MW-4
882	H04110037-009	AEH-0411-211	11/3/2004	MW-1
959	H04110037-010	AEH-0411-212	11/3/2004	STW-1
1022	H04110037-011	AEH-0411-213	11/3/2004	STW-7
1035	H04110037-012	AEH-0411-214	11/3/2004	STW-8
1043	H04110037-013	AEH-0411-215	11/3/2004	STW-9
994	H04110037-014	AEH-0411-216	11/3/2004	STW-4
342	H04110037-016	AEH-0411-218	11/3/2004	DH-37
1143	H04110037-017	AEH-0411-219	11/3/2004	DH-38
1123	H04110037-018	AEH-0411-221	11/3/2004	DH-33
1108	H04110037-019	AEH-0411-222	11/3/2004	DH-30
1129	H04110037-020	AEH-0411-223	11/3/2004	DH-34
1089	H04110037-021	AEH-0411-224	11/3/2004	DH-21
1137	H04110037-022	AEH-0411-225	11/3/2004	DH-35
1114	H04110037-023	AEH-0411-226	11/3/2004	DH-31
676	H05110055-001	AEH-0511-100	11/7/2005	EH-114
788	H05110055-002	AEH-0511-101	11/7/2005	EH-57A
668	H05110055-003	AEH-0511-102	11/7/2005	EH-113
762	H05110055-004	AEH-0511-103	11/7/2005	EH-53
762	H05110055-005	AEH-0511-104	11/7/2005	EH-53
849	H05110055-006	AEH-0511-105	11/7/2005	EH-62
776	H05110055-007	AEH-0511-106	11/7/2005	EH-54
861	H05110055-008	AEH-0511-107	11/7/2005	EH-64
856	H05110071-001	AEH-0511-110	11/8/2005	EH-63
630	H05110071-002	AEH-0511-111	11/8/2005	EH-107
868	H05110071-003	AEH-0511-112	11/8/2005	EH-65
622	H05110071-004	AEH-0511-113	11/8/2005	EH-106
682	H05110071-005	AEH-0511-114	11/8/2005	EH-115
652	H05110071-006	AEH-0511-115	11/8/2005	EH-111
661	H05110071-007	AEH-0511-116	11/8/2005	EH-112

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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645	H05110071-008	AEH-0511-117	11/8/2005	EH-110
639	H05110071-009	AEH-0511-118	11/8/2005	EH-109
639	H05110071-010	AEH-0511-119	11/8/2005	EH-109
615	H05110071-011	AEH-0511-120	11/8/2005	EH-104
577	H05110071-012	AEH-0511-121	11/8/2005	EH-100
721	H05110071-014	AEH-0511-123	11/8/2005	EH-50
609	H05110081-001	AEH-0511-125	11/9/2005	EH-103
828	H05110081-002	AEH-0511-126	11/9/2005	EH-60
838	H05110081-003	AEH-0511-127	11/9/2005	EH-61
455	H05110081-004	AEH-0511-128	11/9/2005	DH-54
733	H05110081-005	AEH-0511-129	11/9/2005	EH-51
586	H05110081-006	AEH-0511-130	11/9/2005	EH-101
747	H05110081-007	AEH-0511-131	11/9/2005	EH-52
800	H05110081-008	AEH-0511-132	11/9/2005	EH-58
811	H05110081-009	AEH-0511-133	11/9/2005	EH-59
811	H05110081-010	AEH-0511-134	11/9/2005	EH-59
540	H05110081-011	AEH-0511-135	11/9/2005	DH-7
170	H05110081-012	AEH-0511-136	11/9/2005	DH-11
108	H05110081-014	AEH-0511-138	11/9/2005	APSD-7
19	H05110081-015	AEH-0511-139	11/9/2005	APSD-10
76	H05110081-016	AEH-0511-140	11/9/2005	APSD-3
62	H05110081-017	AEH-0511-141	11/9/2005	APSD-2
397	H05110092-001	AEH-0511-143	11/9/2005	DH-47
908	H05110092-001	AEH-0511-155	11/11/2005	MW-4
8	H05110092-002	AEH-0511-144	11/9/2005	APSD-1
393	H05110092-003	AEH-0511-145	11/9/2005	DH-46
390	H05110092-004	AEH-0511-146	11/9/2005	DH-45
249	H05110092-005	AEH-0511-147	11/9/2005	DH-20
329	H05110092-006	AEH-0511-148	11/10/2005	DH-3
914	H05110092-007	AEH-0511-149	11/10/2005	MW-5
685	H05110092-009	AEH-0511-151	11/10/2005	EH-116
687	H05110092-010	AEH-0511-152	11/10/2005	EH-116
692	H05110092-011	AEH-0511-153	11/10/2005	EH-117
908	H05110105-001	AEH-0511-155	11/11/2005	MW-4
882	H05110105-002	AEH-0511-156	11/11/2005	MW-1
894	H05110105-003	AEH-0511-157	11/11/2005	MW-2
900	H05110105-004	AEH-0511-158	11/11/2005	MW-3
234	H05110105-005	AEH-0511-159	11/11/2005	DH-2
146	H05110105-006	AEH-0511-160	11/11/2005	DH-1
146	H05110105-007	AEH-0511-161	11/11/2005	DH-1
524	H05110105-008	AEH-0511-163	11/11/2005	DH-67
519	H05110105-009	AEH-0511-164	11/11/2005	DH-66
557	H05110105-010	AEH-0511-165	11/11/2005	DH-8

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499	H05110105-012	AEH-0511-167	11/11/2005	DH-62
47	H05110105-013	AEH-0511-168	11/11/2005	APSD-13
387	H05110113-001	AEH-0511-170	11/14/2005	DH-44
373	H05110113-002	AEH-0511-171	11/14/2005	DH-40
347	H05110136-001	AEH-0511-172	11/16/2005	DH-39
262	H05110136-002	AEH-0511-173	11/16/2005	DH-22
262	H05110136-003	AEH-0511-174	11/16/2005	DH-22
495	H05110136-004	AEH-0511-175	11/16/2005	DH-60
376	H05110136-005	AEH-0511-176	11/16/2005	DH-41
221	H05110136-006	AEH-0511-177	11/16/2005	DH-19R
379	H05110136-007	AEH-0511-178	11/16/2005	DH-42
384	H05110136-008	AEH-0511-179	11/16/2005	DH-43
469	H05110136-009	AEH-0511-180	11/16/2005	DH-58
336	H05110136-010	AEH-0511-181	11/16/2005	DH-36
208	H05110136-011	AEH-0511-182	11/16/2005	DH-17
437	H05110136-013	AEH-0511-185	11/16/2005	DH-51
959	H05110136-014	AEH-0511-186	11/16/2005	STW-1
1023	H05110136-015	AEH-0511-187	11/16/2005	STW-7
1035	H05110136-016	AEH-0511-188	11/16/2005	STW-8
1044	H05110136-017	AEH-0511-189	11/16/2005	STW-9
994	H05110136-018	AEH-0511-190	11/16/2005	STW-4
949	H05110153-001	AEH-0511-193	11/17/2005	SPARGE 3
291	H05110153-002	AEH-0511-194	11/17/2005	DH-24
509	H05110153-003	AEH-0511-195	11/17/2005	DH-64
509	H05110153-004	AEH-0511-196	11/17/2005	DH-64
432	H05110153-005	AEH-0511-197	11/17/2005	DH-50
405	H05110153-006	AEH-0511-198	11/17/2005	DH-49
489	H05110153-007	AEH-0511-199	11/17/2005	DH-6
192	H05110153-008	AEH-0511-200	11/17/2005	DH-15
443	H05110153-010	AEH-0511-202	11/17/2005	DH-52
450	H05110153-011	AEH-0511-203	11/17/2005	DH-53
158	H05110153-012	AEH-0511-204	11/17/2005	DH-10A
1076	H05110153-013	AEH-0511-205	11/17/2005	DH-18
1062	H05110153-014	AEH-0511-206	11/17/2005	DH-13
503	H05110164-001	AEH-0511-208	11/18/2005	DH-63
476	H05110164-002	AEH-0511-209	11/18/2005	DH-59
1109	H05110164-003	AEH-0511-210	11/18/2005	DH-30
1102	H05110164-004	AEH-0511-211	11/18/2005	DH-27
1102	H05110164-005	AEH-0511-212	11/18/2005	DH-27
422	H05110164-006	AEH-0511-213	11/18/2005	DH-5
369	H05110164-007	AEH-0511-214	11/18/2005	DH-4
342	H05110164-009	AEH-0511-216	11/18/2005	DH-37
1143	H05110164-010	AEH-0511-217	11/18/2005	DH-38

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465	H05110164-012	AEH-0511-220	11/18/2005	DH-57
270	H05110164-013	AEH-0511-221	11/18/2005	DH-23
1137	H05110164-014	AEH-0511-222	11/18/2005	DH-35
1090	H05110164-015	AEH-0511-223	11/18/2005	DH-21
1129	H05110164-016	AEH-0511-224	11/18/2005	DH-34
1115	H05110164-017	AEH-0511-225	11/18/2005	DH-31
313	H05110173-001	AEH-0511-227	11/21/2005	DH-29
788	H06050010-001	AEH-0605-100	5/1/2006	EH-57A
676	H06050010-002	AEH-0605-101	5/1/2006	EH-114
687	H06050010-003	AEH-0605-102	5/1/2006	EH-116
692	H06050010-004	AEH-0605-103	5/1/2006	EH-117
668	H06050010-005	AEH-0605-104	5/1/2006	EH-113
762	H06050010-006	AEH-0605-105	5/1/2006	EH-53
762	H06050010-007	AEH-0605-106	5/1/2006	EH-53
849	H06050010-008	AEH-0605-107	5/1/2006	EH-62
776	H06050010-010	AEH-0605-109	5/1/2006	EH-54
652	H06050019-001	AEH-0605-111	5/2/2006	EH-111
661	H06050019-002	AEH-0605-112	5/2/2006	EH-112
682	H06050019-003	AEH-0605-113	5/2/2006	EH-115
623	H06050019-004	AEH-0605-114	5/2/2006	EH-106
623	H06050019-005	AEH-0605-115	5/2/2006	EH-106
868	H06050019-006	AEH-0605-116	5/2/2006	EH-65
630	H06050019-007	AEH-0605-117	5/2/2006	EH-107
861	H06050019-010	AEH-0605-120	5/2/2006	EH-64
645	H06050028-001	AEH-0605-121	5/2/2006	EH-110
639	H06050028-002	AEH-0605-122	5/2/2006	EH-109
615	H06050028-003	AEH-0605-123	5/2/2006	EH-104
721	H06050028-004	AEH-0605-124	5/2/2006	EH-50
455	H06050038-001	AEH-0605-125	5/3/2006	DH-54
609	H06050038-002	AEH-0605-126	5/3/2006	EH-103
828	H06050038-003	AEH-0605-127	5/3/2006	EH-60
838	H06050038-004	AEH-0605-128	5/3/2006	EH-61
800	H06050038-005	AEH-0605-129	5/3/2006	EH-58
812	H06050038-006	AEH-0605-130	5/3/2006	EH-59
577	H06050038-009	AEH-0605-133	5/3/2006	EH-100
577	H06050038-010	AEH-0605-134	5/3/2006	EH-100
587	H06050044-001	AEH-0605-135	5/3/2006	EH-101
733	H06050044-002	AEH-0605-136	5/3/2006	EH-51
748	H06050044-003	AEH-0605-137	5/3/2006	EH-52
856	H06050056-001	AEH-0605-138	5/4/2006	EH-63
540	H06050056-002	AEH-0605-139	5/4/2006	DH-7
170	H06050056-003	AEH-0605-140	5/4/2006	DH-11

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369	H06050056-006	AEH-0605-143	5/4/2006	DH-4
108	H06050056-008	AEH-0605-145	5/4/2006	APSD-7
19	H06050056-009	AEH-0605-146	5/4/2006	APSD-10
329	H06050060-001	AEH-0605-147	5/4/2006	DH-3
8	H06050060-002	AEH-0605-148	5/4/2006	APSD-1
62	H06050060-003	AEH-0605-149	5/4/2006	APSD-2
76	H06050060-004	AEH-0605-150	5/4/2006	APSD-3
314	H06050060-005	AEH-0605-151	5/4/2006	DH-29
390	H06050060-006	AEH-0605-152	5/4/2006	DH-45
393	H06050060-007	AEH-0605-153	5/4/2006	DH-46
397	H06050065-001	AEH-0605-154	5/5/2006	DH-47
249	H06050065-002	AEH-0605-155	5/5/2006	DH-20
387	H06050065-004	AEH-0605-157	5/5/2006	DH-44
373	H06050065-005	AEH-0605-158	5/5/2006	DH-40
347	H06050065-006	AEH-0605-159	5/5/2006	DH-39
495	H06050065-008	AEH-0605-161	5/5/2006	DH-60
557	H06050065-009	AEH-0605-162	5/5/2006	DH-8
499	H06050065-010	AEH-0605-163	5/5/2006	DH-62
499	H06050065-011	AEH-0605-164	5/5/2006	DH-62
915	H06050069-001	AEH-0605-165	5/5/2006	MW-5
908	H06050069-002	AEH-0605-166	5/5/2006	MW-4
882	H06050069-003	AEH-0605-167	5/5/2006	MW-1
895	H06050069-004	AEH-0605-168	5/5/2006	MW-2
900	H06050069-005	AEH-0605-169	5/5/2006	MW-3
422	H06050082-001	AEH-0605-170	5/8/2006	DH-5
490	H06050082-002	AEH-0605-171	5/8/2006	DH-6
192	H06050082-003	AEH-0605-172	5/8/2006	DH-15
192	H06050082-004	AEH-0605-173	5/8/2006	DH-15
443	H06050082-006	AEH-0605-175	5/8/2006	DH-52
450	H06050082-007	AEH-0605-176	5/8/2006	DH-53
158	H06050082-008	AEH-0605-177	5/8/2006	DH-10A
525	H06050082-009	AEH-0605-178	5/8/2006	DH-67
47	H06050082-010	AEH-0605-179	5/8/2006	APSD-13
503	H06050086-003	AEH-0605-182	5/8/2006	DH-63
1076	H06050086-004	AEH-0605-183	5/8/2006	DH-18
1062	H06050086-005	AEH-0605-184	5/8/2006	DH-13
209	H06050103-001	AEH-0605-188	5/9/2006	DH-17
437	H06050103-002	AEH-0605-189	5/9/2006	DH-51
959	H06050103-003	AEH-0605-190	5/9/2006	STW-1
1023	H06050103-004	AEH-0605-191	5/9/2006	STW-7
1035	H06050103-005	AEH-0605-192	5/9/2006	STW-8
1044	H06050103-006	AEH-0605-193	5/9/2006	STW-9

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432	H06050103-009	AEH-0605-196	5/9/2006	DH-50
509	H06050103-011	AEH-0605-198	5/9/2006	DH-64
509	H06050103-012	AEH-0605-199	5/9/2006	DH-64
949	H06050103-013	AEH-0605-200	5/9/2006	SPARGE 3
291	H06050103-014	AEH-0605-201	5/9/2006	DH-24
406	H06050119-001	AEH-0605-202	5/10/2006	DH-49
146	H06050119-002	AEH-0605-204	5/10/2006	DH-1
234	H06050119-004	AEH-0605-206	5/10/2006	DH-2
337	H06050119-005	AEH-0605-207	5/10/2006	DH-36
469	H06050119-006	AEH-0605-208	5/10/2006	DH-58
520	H06050119-007	AEH-0605-209	5/10/2006	DH-66
520	H06050119-008	AEH-0605-210	5/10/2006	DH-66
376	H06050119-010	AEH-0605-212	5/10/2006	DH-41
262	H06050119-011	AEH-0605-213	5/10/2006	DH-22
222	H06050126-001	AEH-0605-214	5/10/2006	DH-19R
476	H06050126-002	AEH-0605-215	5/10/2006	DH-59
465	H06050126-003	AEH-0605-216	5/10/2006	DH-57
271	H06050126-004	AEH-0605-217	5/10/2006	DH-23
1109	H06050126-005	AEH-0605-219	5/10/2006	DH-30
1102	H06050126-006	AEH-0605-220	5/10/2006	DH-27
1143	H06050137-001	AEH-0605-221	5/11/2006	DH-38
343	H06050137-002	AEH-0605-222	5/11/2006	DH-37
343	H06050137-003	AEH-0605-223	5/11/2006	DH-37
1115	H06050137-004	AEH-0605-224	5/11/2006	DH-31
1137	H06050137-007	AEH-0605-228	5/11/2006	DH-35
1130	H06050137-008	AEH-0605-229	5/11/2006	DH-34
1090	H06050137-009	AEH-0605-230	5/11/2006	DH-21
380	H06050137-010	AEH-0605-231	5/11/2006	DH-42
384	H06050137-011	AEH-0605-232	5/11/2006	DH-43
669	H06060187-001	AEH-0606-100	6/19/2006	EH-113
763	H06060187-002	AEH-0606-101	6/19/2006	EH-53
849	H06060187-003	AEH-0606-102	6/19/2006	EH-62
776	H06060187-004	AEH-0606-103	6/19/2006	EH-54
776	H06060187-005	AEH-0606-104	6/19/2006	EH-54
652	H06060187-008	AEH-0606-107	6/19/2006	EH-111
661	H06060201-001	AEH-0606-108	6/20/2006	EH-112
682	H06060201-002	AEH-0606-109	6/20/2006	EH-115
623	H06060201-003	AEH-0606-110	6/20/2006	EH-106
868	H06060201-004	AEH-0606-111	6/20/2006	EH-65
631	H06060201-005	AEH-0606-112	6/20/2006	EH-107
631	H06060201-006	AEH-0606-113	6/20/2006	EH-107
861	H06060201-008	AEH-0606-115	6/20/2006	EH-64

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639	H06060201-011	AEH-0606-118	6/20/2006	EH-109
788	H06060206-001	AEH-0606-119	6/20/2006	EH-57A
676	H06060206-002	AEH-0606-120	6/20/2006	EH-114
687	H06060206-003	AEH-0606-121	6/20/2006	EH-116
692	H06060206-004	AEH-0606-122	6/20/2006	EH-117
455	H06060217-001	AEH-0606-123	6/21/2006	DH-54
609	H06060217-002	AEH-0606-124	6/21/2006	EH-103
828	H06060217-003	AEH-0606-125	6/21/2006	EH-60
838	H06060217-004	AEH-0606-126	6/21/2006	EH-61
721	H06060217-005	AEH-0606-127	6/21/2006	EH-50
577	H06060217-006	AEH-0606-128	6/21/2006	EH-100
578	H06060217-007	AEH-0606-129	6/21/2006	EH-100
856	H06060220-001	AEH-0606-131	6/21/2006	EH-63
800	H06060220-003	AEH-0606-133	6/21/2006	EH-58
748	H06060220-004	AEH-0606-134	6/21/2006	EH-52
616	H06060237-001	AEH-0606-135	6/22/2006	EH-104
587	H06060237-002	AEH-0606-136	6/22/2006	EH-101
587	H06060237-003	AEH-0606-137	6/22/2006	EH-101
734	H06060237-006	AEH-0606-140	6/22/2006	EH-51
631	H06090189-001	AEH-0609-100	9/21/2006	EH-107
646	H06090189-002	AEH-0609-101	9/21/2006	EH-110
609	H06090189-003	AEH-0609-102	9/21/2006	EH-103
616	H06090189-004	AEH-0609-103	9/21/2006	EH-104
676	H06090189-005	AEH-0609-104	9/21/2006	EH-114
687	H06090189-006	AEH-0609-105	9/21/2006	EH-116
692	H06090189-007	AEH-0609-106	9/21/2006	EH-117
692	H06090189-008	AEH-0609-107	9/21/2006	EH-117
669	H06090199-001	AEH-0609-110	9/22/2006	EH-113
661	H06090199-002	AEH-0609-111	9/22/2006	EH-112
682	H06090199-003	AEH-0609-112	9/22/2006	EH-115
652	H06090199-004	AEH-0609-113	9/22/2006	EH-111
652	H06090199-005	AEH-0609-114	9/22/2006	EH-111
623	H06090199-006	AEH-0609-115	9/22/2006	EH-106
587	H06090199-008	AEH-0609-117	9/22/2006	EH-101
578	H06090199-010	AEH-0609-119	9/22/2006	EH-100
639	H06090211-001	AEH-0609-120	9/25/2006	EH-109
788	H06110064-001	AEH-0611-100	11/7/2006	EH-57A
763	H06110064-002	AEH-0611-103	11/7/2006	EH-53
850	H06110064-003	AEH-0611-104	11/7/2006	EH-62
776	H06110064-005	AEH-0611-106	11/7/2006	EH-54
868	H06110064-007	AEH-0611-108	11/7/2006	EH-65
862	H06110064-008	AEH-0611-109	11/7/2006	EH-64

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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862	H06110064-009	AEH-0611-110	11/7/2006	EH-64
721	H06110064-010	AEH-0611-111	11/7/2006	EH-50
839	H06110064-011	AEH-0611-112	11/7/2006	EH-61
828	H06110064-012	AEH-0611-113	11/7/2006	EH-60
455	H06110064-013	AEH-0611-114	11/7/2006	DH-54
856	H06110070-001	AEH-0611-115	11/8/2006	EH-63
734	H06110070-002	AEH-0611-116	11/8/2006	EH-51
748	H06110070-003	AEH-0611-117	11/8/2006	EH-52
748	H06110070-004	AEH-0611-118	11/8/2006	EH-52
812	H06110070-005	AEH-0611-119	11/8/2006	EH-59
800	H06110070-007	AEH-0611-121	11/8/2006	EH-58
540	H06110070-008	AEH-0611-122	11/8/2006	DH-7
171	H06110071-001	AEH-0611-123	11/8/2006	DH-11
901	H06110071-002	AEH-0611-124	11/8/2006	MW-3
909	H06110071-004	AEH-0611-126	11/8/2006	MW-4
883	H06110071-005	AEH-0611-127	11/8/2006	MW-1
895	H06110071-006	AEH-0611-128	11/8/2006	MW-2
234	H06110071-007	AEH-0611-129	11/8/2006	DH-2
887	H06110081-001	AEH-0611-130	11/9/2006	MW-10
929	H06110081-002	AEH-0611-131	11/9/2006	MW-8
933	H06110081-003	AEH-0611-132	11/9/2006	MW-9
933	H06110081-004	AEH-0611-133	11/9/2006	MW-9
915	H06110081-005	AEH-0611-134	11/9/2006	MW-5
329	H06110081-008	AEH-0611-137	11/9/2006	DH-3
503	H06110081-009	AEH-0611-138	11/9/2006	DH-63
406	H06110081-010	AEH-0611-139	11/9/2006	DH-49
147	H06110083-001	AEH-0611-140	11/9/2006	DH-1
291	H06110083-002	AEH-0611-141	11/9/2006	DH-24
949	H06110083-003	AEH-0611-142	11/9/2006	SPARGE 3
509	H06110083-004	AEH-0611-143	11/9/2006	DH-64
433	H06110088-001	AEH-0611-144	11/10/2006	DH-50
994	H06110088-002	AEH-0611-145	11/10/2006	STW-4
1044	H06110088-003	AEH-0611-146	11/10/2006	STW-9
1035	H06110088-004	AEH-0611-147	11/10/2006	STW-8
1036	H06110088-005	AEH-0611-148	11/10/2006	STW-8
1023	H06110088-006	AEH-0611-149	11/10/2006	STW-7
960	H06110088-007	AEH-0611-150	11/10/2006	STW-1
437	H06110088-008	AEH-0611-151	11/10/2006	DH-51
937	H06110088-009	AEH-0611-152	11/10/2006	PRB-2
587	H06110090-001	AEH-0611-153	11/10/2006	EH-101
578	H06110090-004	AEH-0611-158	11/10/2006	EH-100
676	H06110099-001	AEH-0611-159	11/13/2006	EH-114
687	H06110099-002	AEH-0611-160	11/13/2006	EH-116

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669	H06110099-006	AEH-0611-164	11/13/2006	EH-113
661	H06110099-007	AEH-0611-165	11/13/2006	EH-112
661	H06110099-008	AEH-0611-166	11/13/2006	EH-112
623	H06110099-009	AEH-0611-167	11/13/2006	EH-106
653	H06110119-001	AEH-0611-168	11/14/2006	EH-111
682	H06110119-002	AEH-0611-169	11/14/2006	EH-115
631	H06110119-003	AEH-0611-170	11/14/2006	EH-107
631	H06110119-004	AEH-0611-171	11/14/2006	EH-107
640	H06110119-006	AEH-0611-173	11/14/2006	EH-109
616	H06110119-007	AEH-0611-174	11/14/2006	EH-104
646	H06110119-008	AEH-0611-175	11/14/2006	EH-110
609	H06110122-001	AEH-0611-176	11/14/2006	EH-103
490	H06110122-002	AEH-0611-177	11/14/2006	DH-6
192	H06110122-003	AEH-0611-178	11/14/2006	DH-15
450	H06110122-005	AEH-0611-180	11/14/2006	DH-53
443	H06110122-006	AEH-0611-181	11/14/2006	DH-52
158	H06110122-007	AEH-0611-182	11/14/2006	DH-10A
525	H06110135-001	AEH-0611-183	11/15/2006	DH-67
422	H06110135-002	AEH-0611-184	11/15/2006	DH-5
369	H06110135-004	AEH-0611-186	11/15/2006	DH-4
108	H06110135-005	AEH-0611-187	11/15/2006	APSD-7
19	H06110135-006	AEH-0611-188	11/15/2006	APSD-10
19	H06110135-007	AEH-0611-189	11/15/2006	APSD-10
249	H06110135-008	AEH-0611-190	11/15/2006	DH-20
398	H06110135-009	AEH-0611-191	11/15/2006	DH-47
393	H06110135-011	AEH-0611-193	11/15/2006	DH-46
390	H06110138-001	AEH-0611-194	11/15/2006	DH-45
314	H06110138-002	AEH-0611-195	11/15/2006	DH-29
390	H06110138-002	AEH-0611-194	11/15/2006	DH-45
9	H06110138-003	AEH-0611-196	11/15/2006	APSD-1
47	H06110138-004	AEH-0611-197	11/15/2006	APSD-13
387	H06110138-005	AEH-0611-198	11/15/2006	DH-44
374	H06110138-006	AEH-0611-199	11/15/2006	DH-40
347	H06110158-001	AEH-0611-200	11/17/2006	DH-39
499	H06110158-002	AEH-0611-202	11/17/2006	DH-62
499	H06110158-003	AEH-0611-203	11/17/2006	DH-62
557	H06110158-004	AEH-0611-204	11/17/2006	DH-8
384	H06110158-006	AEH-0611-206	11/17/2006	DH-43
377	H06110158-008	AEH-0611-208	11/17/2006	DH-41
520	H06110160-001	AEH-0611-209	11/17/2006	DH-66
939	H06110160-002	AEH-0611-210	11/17/2006	PRB-3
937	H06110160-003	AEH-0611-211	11/17/2006	PRB-1

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1109	H06110166-001	AEH-0611-213	11/20/2006	DH-30
1102	H06110166-002	AEH-0611-214	11/20/2006	DH-27
1103	H06110166-003	AEH-0611-215	11/20/2006	DH-27
1144	H06110166-004	AEH-0611-216	11/20/2006	DH-38
343	H06110166-006	AEH-0611-218	11/20/2006	DH-37
1115	H06110166-007	AEH-0611-219	11/20/2006	DH-31
1123	H06110166-008	AEH-0611-220	11/20/2006	DH-33
470	H06110172-001	AEH-0611-222	11/20/2006	DH-58
465	H06110172-002	AEH-0611-223	11/20/2006	DH-57
271	H06110172-003	AEH-0611-224	11/20/2006	DH-23
1138	H06110172-004	AEH-0611-225	11/20/2006	DH-35
1130	H06110172-005	AEH-0611-226	11/20/2006	DH-34
1090	H06120014-001	AEH-0611-227	12/4/2006	DH-21
1160	H06120014-002	AEH-0611-228	12/4/2006	TW-1
337	H06120014-003	AEH-0611-229	12/4/2006	DH-36
337	H06120014-004	AEH-0611-230	12/4/2006	DH-36
209	H06120014-005	AEH-0611-231	12/4/2006	DH-17
676	H07030213-001	AEH-0703-100	3/27/2007	EH-114
687	H07030213-002	AEH-0703-101	3/27/2007	EH-116
693	H07030213-003	AEH-0703-102	3/27/2007	EH-117
669	H07030213-004	AEH-0703-103	3/27/2007	EH-113
669	H07030213-005	AEH-0703-104	3/27/2007	EH-113
777	H07030213-006	AEH-0703-105	3/27/2007	EH-54
662	H07030213-007	AEH-0703-106	3/27/2007	EH-112
653	H07030213-009	AEH-0703-108	3/27/2007	EH-111
683	H07030213-010	AEH-0703-109	3/27/2007	EH-115
587	H07030213-011	AEH-0703-110	3/27/2007	EH-101
578	H07030232-001	AEH-0703-112	3/28/2007	EH-100
578	H07030232-002	AEH-0703-113	3/28/2007	EH-100
610	H07030232-003	AEH-0703-114	3/28/2007	EH-103
828	H07030232-004	AEH-0703-115	3/28/2007	EH-60
616	H07030232-005	AEH-0703-116	3/28/2007	EH-104
623	H07030232-006	AEH-0703-117	3/28/2007	EH-106
631	H07030232-008	AEH-0703-119	3/28/2007	EH-107
868	H07030232-010	AEH-0703-121	3/28/2007	EH-65
640	H07030232-011	AEH-0703-122	3/28/2007	EH-109
646	H07030232-012	AEH-0703-123	3/28/2007	EH-110
602	H07030232-013	AEH-0703-124	3/28/2007	EH-102
541	H07030242-001	AEH-0703-125	3/29/2007	DH-7
171	H07030242-002	AEH-0703-126	3/29/2007	DH-11
927	H07030242-003	AEH-0703-127	3/29/2007	MW-7
901	H07030242-004	AEH-0703-128	3/29/2007	MW-3

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330	H07030242-007	AEH-0703-131	3/29/2007	DH-3
235	H07030242-008	AEH-0703-132	3/29/2007	DH-2
509	H07030246-001	AEH-0703-133	3/29/2007	DH-64
470	H07030246-003	AEH-0703-135	3/29/2007	DH-58
1090	H07030246-004	AEH-0703-136	3/29/2007	DH-21
63	H07030246-005	AEH-0703-137	3/29/2007	APSD-2
763	H07040026-001	AEH-0703-138	4/3/2007	EH-53
850	H07040026-002	AEH-0703-139	4/3/2007	EH-62
862	H07040026-004	AEH-0703-141	4/3/2007	EH-64
862	H07040026-005	AEH-0703-142	4/3/2007	EH-64
856	H07040026-006	AEH-0703-143	4/3/2007	EH-63
748	H07040026-007	AEH-0703-144	4/3/2007	EH-52
734	H07040026-008	AEH-0703-145	4/3/2007	EH-51
839	H07040026-010	AEH-0703-147	4/3/2007	EH-61
721	H07040026-011	AEH-0703-148	4/3/2007	EH-50
788	H07040049-001	AEH-0703-149	4/4/2007	EH-57A
788	H07040049-002	AEH-0703-150	4/4/2007	EH-57A
800	H07040049-005	AEH-0703-153	4/4/2007	EH-58
476	H07040049-006	AEH-0703-154	4/4/2007	DH-59
394	H07040211-001	AEH-0704-100	4/24/2007	DH-46
394	H07040211-002	AEH-0704-101	4/24/2007	DH-46
390	H07040211-004	AEH-0704-103	4/24/2007	DH-45
677	H07050103-001	AEH-0705-100	5/8/2007	EH-114
688	H07050103-002	AEH-0705-101	5/8/2007	EH-116
671	H07050103-003	AEH-0705-102	5/8/2007	EH-113
662	H07050103-004	AEH-0705-103	5/8/2007	EH-112
662	H07050103-005	AEH-0705-104	5/8/2007	EH-112
653	H07050103-006	AEH-0705-105	5/8/2007	EH-111
588	H07050103-008	AEH-0705-107	5/8/2007	EH-101
734	H07050103-010	AEH-0705-109	5/8/2007	EH-51
578	H07050114-001	AEH-0705-110	5/9/2007	EH-100
721	H07050114-002	AEH-0705-111	5/9/2007	EH-50
722	H07050114-003	AEH-0705-112	5/9/2007	EH-50
616	H07050114-004	AEH-0705-113	5/9/2007	EH-104
789	H07050114-006	AEH-0705-115	5/9/2007	EH-57A
610	H07050114-008	AEH-0705-117	5/9/2007	EH-103
839	H07050114-009	AEH-0705-118	5/9/2007	EH-61
455	H07050114-010	AEH-0705-119	5/9/2007	DH-54
763	H07050128-001	AEH-0705-120	5/10/2007	EH-53
850	H07050128-002	AEH-0705-121	5/10/2007	EH-62
862	H07050128-003	AEH-0705-122	5/10/2007	EH-64
857	H07050128-004	AEH-0705-123	5/10/2007	EH-63

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646	H07050134-002	AEH-0705-127	5/10/2007	EH-110
646	H07050134-003	AEH-0705-128	5/10/2007	EH-110
541	H07050134-005	AEH-0705-130	5/10/2007	DH-7
171	H07050134-006	AEH-0705-131	5/10/2007	DH-11
525	H07050134-007	AEH-0705-132	5/10/2007	DH-67
504	H07050137-001	AEH-0705-133	5/11/2007	DH-63
147	H07050137-002	AEH-0705-135	5/11/2007	DH-1
235	H07050137-003	AEH-0705-136	5/11/2007	DH-2
602	H07050137-004	AEH-0705-137	5/11/2007	EH-102
602	H07050137-005	AEH-0705-138	5/11/2007	EH-102
683	H07050137-007	AEH-0705-140	5/11/2007	EH-115
801	H07050140-001	AEH-0705-142	5/11/2007	EH-58
192	H07050154-001	AEH-0705-144	5/14/2007	DH-15
192	H07050154-002	AEH-0705-145	5/14/2007	DH-15
158	H07050154-003	AEH-0705-146	5/14/2007	DH-10A
451	H07050154-004	AEH-0705-147	5/14/2007	DH-53
438	H07050154-006	AEH-0705-149	5/14/2007	DH-51
433	H07050154-007	AEH-0705-150	5/14/2007	DH-50
960	H07050191-001	AEH-0705-152	5/16/2007	STW-1
1023	H07050191-002	AEH-0705-153	5/16/2007	STW-7
1023	H07050191-003	AEH-0705-154	5/16/2007	STW-7
1044	H07050191-004	AEH-0705-155	5/16/2007	STW-9
994	H07050191-006	AEH-0705-157	5/16/2007	STW-4
1036	H07050191-007	AEH-0705-158	5/16/2007	STW-8
949	H07050191-008	AEH-0705-159	5/16/2007	SPARGE 3
369	H07050193-002	AEH-0705-162	5/16/2007	DH-4
20	H07050193-003	AEH-0705-163	5/16/2007	APSD-10
108	H07050207-001	AEH-0705-164	5/17/2007	APSD-7
76	H07050207-002	AEH-0705-165	5/17/2007	APSD-3
76	H07050207-003	AEH-0705-166	5/17/2007	APSD-3
314	H07050207-004	AEH-0705-167	5/17/2007	DH-29
9	H07050209-001	AEH-0705-168	5/17/2007	APSD-1
398	H07050209-003	AEH-0705-170	5/17/2007	DH-47
500	H07050209-005	AEH-0705-172	5/17/2007	DH-62
222	H07050209-006	AEH-0705-174	5/17/2007	DH-19R
380	H07050219-001	AEH-0705-175	5/18/2007	DH-42
476	H07050219-002	AEH-0705-176	5/18/2007	DH-59
476	H07050219-003	AEH-0705-177	5/18/2007	DH-59
1109	H07050219-004	AEH-0705-178	5/18/2007	DH-30
1144	H07050219-007	AEH-0705-182	5/18/2007	DH-38
343	H07050219-008	AEH-0705-183	5/18/2007	DH-37
1115	H07050225-001	AEH-0705-184	5/18/2007	DH-31

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291	H07050225-003	AEH-0705-189	5/18/2007	DH-24
470	H07050232-001	AEH-0705-190	5/21/2007	DH-58
557	H07050232-002	AEH-0705-192	5/21/2007	DH-8
422	H07050232-003	AEH-0705-193	5/21/2007	DH-5
520	H07050232-004	AEH-0705-194	5/21/2007	DH-66
1063	H07050232-005	AEH-0705-196	5/21/2007	DH-13
1076	H07050232-006	AEH-0705-197	5/21/2007	DH-18
1138	H07050236-001	AEH-0705-198	5/21/2007	DH-35
1130	H07050236-002	AEH-0705-199	5/21/2007	DH-34
1130	H07050236-003	AEH-0705-200	5/21/2007	DH-34
337	H07050236-004	AEH-0705-201	5/21/2007	DH-36
209	H07050236-007	AEH-0705-204	5/21/2007	DH-17
51	H07050262-001	AEH-0705-206	5/22/2007	APSD-16
49	H07050262-002	AEH-0705-207	5/22/2007	APSD-15
250	H07050262-003	AEH-0705-208	5/22/2007	DH-20
250	H07050262-004	AEH-0705-209	5/22/2007	DH-20
828	H07050262-005	AEH-0705-210	5/22/2007	EH-60
632	H07050262-007	AEH-0705-212	5/22/2007	EH-107
869	H07050262-009	AEH-0705-214	5/22/2007	EH-65
812	H07050275-001	AEH-0705-215	5/23/2007	EH-59
777	H07050275-002	AEH-0705-216	5/23/2007	EH-54
693	H07050275-003	AEH-0705-217	5/23/2007	EH-117
624	H07050275-005	AEH-0705-219	5/23/2007	EH-106
624	H07050275-006	AEH-0705-220	5/23/2007	EH-106
748	H07050275-007	AEH-0705-221	5/23/2007	EH-52
443	H07050276-001	AEH-0705-222	5/23/2007	DH-52
510	H07050276-002	AEH-0705-223	5/23/2007	DH-64
1103	H07050291-001	AEH-0705-225	5/24/2007	DH-27
1090	H07050291-002	AEH-0705-226	5/24/2007	DH-21
330	H07050291-003	AEH-0705-227	5/24/2007	DH-3
330	H07050291-004	AEH-0705-228	5/24/2007	DH-3
901	H07060043-001	AEH-0705-231	6/5/2007	MW-3
909	H07060043-002	AEH-0705-232	6/5/2007	MW-4
883	H07060043-003	AEH-0705-233	6/5/2007	MW-1
883	H07060043-004	AEH-0705-234	6/5/2007	MW-1
895	H07060043-005	AEH-0705-235	6/5/2007	MW-2
887	H07060043-008	AEH-0705-238	6/5/2007	MW-10
889	H07060083-002	AEH-0705-241	6/8/2007	MW-11
915	H07060083-003	AEH-0705-242	6/8/2007	MW-5
915	H07060083-004	AEH-0705-243	6/8/2007	MW-5
933	H07060083-005	AEH-0705-244	6/8/2007	MW-9
931	H07060083-007	AEH-0705-246	6/8/2007	MW-8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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922	H07060083-008	AEH-0705-247	6/8/2007	MW-6
63	H07060203-001	AEH-0705-248	6/19/2007	APSD-2
693	H07070241-001	AEH-0707-100	7/24/2007	EH-117
688	H07070241-002	AEH-0707-101	7/24/2007	EH-116
677	H07070241-003	AEH-0707-102	7/24/2007	EH-114
671	H07070241-004	AEH-0707-103	7/24/2007	EH-113
763	H07070241-005	AEH-0707-104	7/24/2007	EH-53
763	H07070241-006	AEH-0707-105	7/24/2007	EH-53
653	H07070241-007	AEH-0707-106	7/24/2007	EH-111
662	H07070241-008	AEH-0707-107	7/24/2007	EH-112
683	H07070241-010	AEH-0707-109	7/24/2007	EH-115
624	H07070241-012	AEH-0707-111	7/24/2007	EH-106
632	H07070259-001	AEH-0707-112	7/25/2007	EH-107
869	H07070259-003	AEH-0707-114	7/25/2007	EH-65
640	H07070259-004	AEH-0707-115	7/25/2007	EH-109
640	H07070259-005	AEH-0707-116	7/25/2007	EH-109
579	H07070259-007	AEH-0707-118	7/25/2007	EH-100
722	H07070259-008	AEH-0707-119	7/25/2007	EH-50
646	H07070259-009	AEH-0707-120	7/25/2007	EH-110
862	H07070259-010	AEH-0707-121	7/25/2007	EH-64
839	H07070259-011	AEH-0707-122	7/25/2007	EH-61
829	H07070259-012	AEH-0707-123	7/25/2007	EH-60
610	H07070280-001	AEH-0707-124	7/26/2007	EH-103
588	H07070280-004	AEH-0707-127	7/26/2007	EH-101
734	H07070280-005	AEH-0707-128	7/26/2007	EH-51
734	H07070280-006	AEH-0707-129	7/26/2007	EH-51
749	H07070280-007	AEH-0707-130	7/26/2007	EH-52
604	H07070280-008	AEH-0707-131	7/26/2007	EH-102
801	H07070280-009	AEH-0707-132	7/26/2007	EH-58
857	H07070280-010	AEH-0707-133	7/26/2007	EH-63
777	H07070280-011	AEH-0707-134	7/26/2007	EH-54
616	H07070280-012	AEH-0707-135	7/26/2007	EH-104
789	H07070291-001	AEH-0707-136	7/27/2007	EH-57A
850	H07070291-003	AEH-0707-138	7/27/2007	EH-62
850	H07070291-004	AEH-0707-139	7/27/2007	EH-62
812	H07070291-006	AEH-0707-141	7/27/2007	EH-59
901	H07070291-007	AEH-0707-142	7/27/2007	MW-3
928	H07070291-008	AEH-0707-143	7/27/2007	MW-7
235	H07070291-009	AEH-0707-144	7/27/2007	DH-2
541	H07070291-010	AEH-0707-145	7/27/2007	DH-7
171	H07070291-011	AEH-0707-146	7/27/2007	DH-11
443	H07070291-012	AEH-0707-147	7/27/2007	DH-52
470	H07070291-013	AEH-0707-148	7/27/2007	DH-58

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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510	H07070302-002	AEH-0707-150	7/30/2007	DH-64
330	H07070302-005	AEH-0707-153	7/30/2007	DH-3
477	H07070302-006	AEH-0707-154	7/30/2007	DH-59
63	H07070302-007	AEH-0707-155	7/30/2007	APSD-2
1091	H07070302-008	AEH-0707-156	7/30/2007	DH-21
171	H07090010-001	AEH-0709-100	9/4/2007	DH-11
541	H07090010-002	AEH-0709-101	9/4/2007	DH-7
541	H07090010-003	AEH-0709-102	9/4/2007	DH-7
801	H07090010-005	AEH-0709-104	9/4/2007	EH-58
604	H07090010-006	AEH-0709-105	9/4/2007	EH-102
850	H07090032-001	AEH-0709-107	9/5/2007	EH-62
789	H07090032-002	AEH-0709-108	9/5/2007	EH-57A
764	H07090032-004	AEH-0709-110	9/5/2007	EH-53
857	H07090032-006	AEH-0709-111	9/5/2007	EH-63
857	H07090032-007	AEH-0709-112	9/5/2007	EH-63
863	H07090032-008	AEH-0709-113	9/5/2007	EH-64
683	H07090032-009	AEH-0709-114	9/5/2007	EH-115
617	H07090032-011	AEH-0709-116	9/5/2007	EH-104
839	H07090032-012	AEH-0709-117	9/5/2007	EH-61
610	H07090032-014	AEH-0709-118	9/5/2007	EH-103
632	H07090052-001	AEH-0709-119	9/6/2007	EH-107
588	H07090052-002	AEH-0709-120	9/6/2007	EH-101
588	H07090052-003	AEH-0709-121	9/6/2007	EH-101
647	H07090052-004	AEH-0709-122	9/6/2007	EH-110
677	H07090052-005	AEH-0709-123	9/6/2007	EH-114
688	H07090052-006	AEH-0709-124	9/6/2007	EH-116
693	H07090052-007	AEH-0709-125	9/6/2007	EH-117
671	H07090052-009	AEH-0709-127	9/6/2007	EH-113
869	H07090052-010	AEH-0709-128	9/6/2007	EH-65
662	H07090052-012	AEH-0709-130	9/6/2007	EH-112
814	H07090052-013	AEH-0709-131	9/6/2007	EH-59
901	H07090102-001	AEH-0709-132	9/11/2007	MW-3
928	H07090102-002	AEH-0709-133	9/11/2007	MW-7
330	H07090102-003	AEH-0709-134	9/11/2007	DH-3
330	H07090102-005	AEH-0709-136	9/11/2007	DH-3
722	H07090102-006	AEH-0709-137	9/11/2007	EH-50
735	H07090102-008	AEH-0709-139	9/11/2007	EH-51
749	H07090102-009	AEH-0709-140	9/11/2007	EH-52
749	H07090115-001	AEH-0709-141	9/12/2007	EH-52
470	H07090115-003	AEH-0709-143	9/12/2007	DH-58
9	H07090115-004	AEH-0709-144	9/12/2007	APSD-1
49	H07090115-005	AEH-0709-145	9/12/2007	APSD-15

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86	H07090115-007	AEH-0709-147	9/12/2007	APSD-4
77	H07090115-008	AEH-0709-148	9/12/2007	APSD-3
653	H07090115-009	AEH-0709-149	9/12/2007	EH-111
655	H07090115-010	AEH-0709-150	9/12/2007	EH-111
579	H07090115-011	AEH-0709-151	9/12/2007	EH-100
829	H07090135-001	AEH-0709-153	9/13/2007	EH-60
495	H07090135-002	AEH-0709-154	9/13/2007	DH-60
624	H07090135-003	AEH-0709-155	9/13/2007	EH-106
640	H07090135-005	AEH-0709-157	9/13/2007	EH-109
477	H07090135-007	AEH-0709-159	9/13/2007	DH-59
510	H07090135-008	AEH-0709-160	9/13/2007	DH-64
314	H07090135-009	AEH-0709-161	9/13/2007	DH-29
63	H07090135-010	AEH-0709-162	9/13/2007	APSD-2
1091	H07090135-011	AEH-0709-163	9/13/2007	DH-21
1160	H07100027-001	AEH-0710-100	10/2/2007	TW-1
1076	H07100027-002	AEH-0710-101	10/2/2007	DH-18
1078	H07100027-003	AEH-0710-102	10/2/2007	DH-18
1063	H07100027-005	AEH-0710-105	10/2/2007	DH-13
1138	H07100027-006	AEH-0710-106	10/2/2007	DH-35
1144	H07100027-007	AEH-0710-107	10/2/2007	DH-38
1091	H07100027-008	AEH-0710-108	10/2/2007	DH-21
1115	H07100061-001	AEH-0710-110	10/3/2007	DH-31
1132	H07100061-002	AEH-0710-111	10/3/2007	DH-34
1124	H07100061-003	AEH-0710-113	10/3/2007	DH-33
1124	H07100061-004	AEH-0710-114	10/3/2007	DH-33
1146	H07100061-005	AEH-0710-115	10/3/2007	SDMW-1
1154	H07100061-006	AEH-0710-116	10/3/2007	SDMW-4
1152	H07100061-007	AEH-0710-117	10/3/2007	SDMW-3
1158	H07100061-009	AEH-0710-119	10/3/2007	SDMW-5
1103	H07100074-001	AEH-0710-121	10/4/2007	DH-27
1103	H07100074-002	AEH-0710-122	10/4/2007	DH-27
1148	H07100074-003	AEH-0710-123	10/4/2007	SDMW-2
789	H07110094-001	AEH-0711-100	11/12/2007	EH-57A
671	H07110094-002	AEH-0711-101	11/12/2007	EH-113
764	H07110094-003	AEH-0711-102	11/12/2007	EH-53
764	H07110094-004	AEH-0711-103	11/12/2007	EH-53
851	H07110103-001	AEH-0711-107	11/13/2007	EH-62
777	H07110103-002	AEH-0711-108	11/13/2007	EH-54
857	H07110103-003	AEH-0711-109	11/13/2007	EH-63
857	H07110103-004	AEH-0711-110	11/13/2007	EH-63
863	H07110103-005	AEH-0711-111	11/13/2007	EH-64
869	H07110103-006	AEH-0711-112	11/13/2007	EH-65

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683	H07110103-008	AEH-0711-114	11/13/2007	EH-115
647	H07110103-009	AEH-0711-115	11/13/2007	EH-110
588	H07110122-001	AEH-0711-118	11/14/2007	EH-101
735	H07110122-002	AEH-0711-119	11/14/2007	EH-51
735	H07110122-003	AEH-0711-120	11/14/2007	EH-51
604	H07110122-004	AEH-0711-121	11/14/2007	EH-102
749	H07110122-005	AEH-0711-122	11/14/2007	EH-52
801	H07110122-006	AEH-0711-123	11/14/2007	EH-58
541	H07110122-007	AEH-0711-124	11/14/2007	DH-7
171	H07110130-001	AEH-0711-127	11/15/2007	DH-11
677	H07110130-002	AEH-0711-128	11/15/2007	EH-114
688	H07110130-003	AEH-0711-129	11/15/2007	EH-116
693	H07110130-004	AEH-0711-130	11/15/2007	EH-117
664	H07110130-005	AEH-0711-131	11/15/2007	EH-112
617	H07110130-006	AEH-0711-132	11/15/2007	EH-104
617	H07110130-007	AEH-0711-133	11/15/2007	EH-104
610	H07110140-001	AEH-0711-136	11/16/2007	EH-103
839	H07110140-002	AEH-0711-137	11/16/2007	EH-61
456	H07110140-003	AEH-0711-138	11/16/2007	DH-54
814	H07110140-004	AEH-0711-139	11/16/2007	EH-59
903	H07110140-005	AEH-0711-140	11/16/2007	MW-3
909	H07110140-007	AEH-0711-142	11/16/2007	MW-4
883	H07110183-001	AEH-0711-144	11/26/2007	MW-1
895	H07110183-002	AEH-0711-145	11/26/2007	MW-2
915	H07110183-003	AEH-0711-146	11/26/2007	MW-5
915	H07110183-004	AEH-0711-147	11/26/2007	MW-5
889	H07110183-005	AEH-0711-149	11/26/2007	MW-11
935	H07110183-006	AEH-0711-150	11/26/2007	MW-9
931	H07110183-009	AEH-0711-153	11/26/2007	MW-8
887	H07110195-001	AEH-0711-154	11/27/2007	MW-10
922	H07110195-002	AEH-0711-155	11/27/2007	MW-6
331	H07110197-001	AEH-0711-156	11/27/2007	DH-3
331	H07110197-002	AEH-0711-157	11/27/2007	DH-3
235	H07110197-005	AEH-0711-160	11/27/2007	DH-2
147	H07110197-006	AEH-0711-161	11/27/2007	DH-1
504	H07110199-001	AEH-0711-162	11/27/2007	DH-63
490	H07110199-002	AEH-0711-165	11/27/2007	DH-6
193	H07110199-003	AEH-0711-166	11/27/2007	DH-15
159	H07110199-004	AEH-0711-167	11/27/2007	DH-10A
445	H07110218-001	AEH-0711-168	11/28/2007	DH-52
451	H07110218-002	AEH-0711-169	11/28/2007	DH-53
438	H07110218-003	AEH-0711-170	11/28/2007	DH-51

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1024	H07110218-005	AEH-0711-172	11/28/2007	STW-7
1044	H07110218-006	AEH-0711-173	11/28/2007	STW-9
433	H07110218-007	AEH-0711-174	11/28/2007	DH-50
1036	H07110218-010	AEH-0711-177	11/28/2007	STW-8
995	H07110218-011	AEH-0711-178	11/28/2007	STW-4
960	H07110218-012	AEH-0711-179	11/28/2007	STW-1
291	H07110218-013	AEH-0711-180	11/28/2007	DH-24
949	H07110218-014	AEH-0711-181	11/28/2007	SPARGE 3
525	H07110229-001	AEH-0711-182	11/29/2007	DH-67
500	H07110229-002	AEH-0711-183	11/29/2007	DH-62
500	H07110229-003	AEH-0711-184	11/29/2007	DH-62
520	H07120019-001	AEH-0711-187	12/4/2007	DH-66
557	H07120019-002	AEH-0711-188	12/4/2007	DH-8
250	H07120019-003	AEH-0711-189	12/4/2007	DH-20
250	H07120019-004	AEH-0711-190	12/4/2007	DH-20
423	H07120019-005	AEH-0711-191	12/4/2007	DH-5
49	H07120019-007	AEH-0711-193	12/4/2007	APSD-15
51	H07120050-001	AEH-0711-195	12/5/2007	APSD-16
9	H07120050-002	AEH-0711-196	12/5/2007	APSD-1
108	H07120050-003	AEH-0711-197	12/5/2007	APSD-7
87	H07120050-004	AEH-0711-198	12/5/2007	APSD-4
77	H07120050-005	AEH-0711-199	12/5/2007	APSD-3
187	H07120050-006	AEH-0711-200	12/5/2007	DH-14
187	H07120050-007	AEH-0711-201	12/5/2007	DH-14
1154	H07120050-009	AEH-0711-203	12/5/2007	SDMW-4
1146	H07120050-010	AEH-0711-204	12/5/2007	SDMW-1
271	H07120076-001	AEH-0711-206	12/7/2007	DH-23
271	H07120076-002	AEH-0711-207	12/7/2007	DH-23
369	H07120076-003	AEH-0711-208	12/7/2007	DH-4
398	H07120076-004	AEH-0711-209	12/7/2007	DH-47
470	H07120076-005	AEH-0711-210	12/7/2007	DH-58
460	H07120076-006	AEH-0711-211	12/7/2007	DH-55
380	H07120076-007	AEH-0711-212	12/7/2007	DH-42
337	H07120088-001	AEH-0711-215	12/10/2007	DH-36
722	H07120088-002	AEH-0711-216	12/10/2007	EH-50
722	H07120088-003	AEH-0711-217	12/10/2007	EH-50
655	H07120088-005	AEH-0711-219	12/10/2007	EH-111
626	H07120088-006	AEH-0711-220	12/10/2007	EH-106
579	H07120088-007	AEH-0711-221	12/10/2007	EH-100
829	H07120088-009	AEH-0711-223	12/10/2007	EH-60
641	H07120088-010	AEH-0711-224	12/10/2007	EH-109
477	H07120112-001	AEH-0711-225	12/11/2007	DH-59

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222	H07120112-003	AEH-0711-227	12/11/2007	DH-19R
314	H07120112-004	AEH-0711-228	12/11/2007	DH-29
20	H07120112-006	AEH-0711-230	12/11/2007	APSD-10
1063	H07120112-007	AEH-0711-232	12/11/2007	DH-13
510	H07120112-009	AEH-0711-234	12/11/2007	DH-64
209	H07120134-001	AEH-0711-235	12/12/2007	DH-17
209	H07120134-002	AEH-0711-236	12/12/2007	DH-17
466	H07120134-003	AEH-0711-237	12/12/2007	DH-57
1150	H07120134-005	AEH-0711-239	12/12/2007	SDMW-2
517	H07120134-006	AEH-0711-240	12/12/2007	DH-65
463	H07120134-007	AEH-0711-241	12/12/2007	DH-56
1078	H07120134-008	AEH-0711-242	12/12/2007	DH-18
63	H07120134-009	AEH-0711-243	12/12/2007	APSD-2
1160	H07120134-010	AEH-0711-244	12/12/2007	TW-1
1124	H07120134-012	AEH-0711-246	12/12/2007	DH-33
1132	H07120134-013	AEH-0711-247	12/12/2007	DH-34
1158	H07120160-001	AEH-0711-248	12/13/2007	SDMW-5
1158	H07120160-002	AEH-0711-249	12/13/2007	SDMW-5
1152	H07120160-003	AEH-0711-250	12/13/2007	SDMW-3
343	H07120160-004	AEH-0711-252	12/13/2007	DH-37
1138	H07120160-005	AEH-0711-253	12/13/2007	DH-35
1091	H07120160-006	AEH-0711-254	12/13/2007	DH-21
1109	H07120160-009	AEH-0711-257	12/13/2007	DH-30
1103	H07120160-010	AEH-0711-258	12/13/2007	DH-27
789	H08010206-001	AEH-0801-100	1/25/2008	EH-57A
789	H08010206-002	AEH-0801-101	1/25/2008	EH-57A
851	H08010206-003	AEH-0801-102	1/25/2008	EH-62
858	H08010206-004	AEH-0801-103	1/25/2008	EH-63
542	H08010206-005	AEH-0801-104	1/25/2008	DH-7
172	H08010206-006	AEH-0801-105	1/25/2008	DH-11
801	H08010206-008	AEH-0801-107	1/25/2008	EH-58
604	H08010206-009	AEH-0801-108	1/25/2008	EH-102
764	H08010227-001	AEH-0801-110	1/30/2008	EH-53
863	H08010227-002	AEH-0801-111	1/30/2008	EH-64
863	H08010227-003	AEH-0801-112	1/30/2008	EH-64
671	H08010227-004	AEH-0801-113	1/30/2008	EH-113
590	H08010227-005	AEH-0801-114	1/30/2008	EH-101
735	H08010227-007	AEH-0801-116	1/30/2008	EH-51
647	H08010227-008	AEH-0801-117	1/30/2008	EH-110
685	H08010227-010	AEH-0801-119	1/30/2008	EH-115
677	H08010227-011	AEH-0801-120	1/30/2008	EH-114
688	H08010227-012	AEH-0801-121	1/30/2008	EH-116

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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695	H08010227-013	AEH-0801-122	1/30/2008	EH-117
610	H08010244-001	AEH-0801-123	1/31/2008	EH-103
611	H08010244-002	AEH-0801-124	1/31/2008	EH-103
829	H08010244-003	AEH-0801-125	1/31/2008	EH-60
840	H08010244-004	AEH-0801-126	1/31/2008	EH-61
235	H08010244-005	AEH-0801-127	1/31/2008	DH-2
664	H08010244-006	AEH-0801-128	1/31/2008	EH-112
617	H08010244-007	AEH-0801-129	1/31/2008	EH-104
779	H08010244-008	AEH-0801-130	1/31/2008	EH-54
331	H08010244-010	AEH-0801-132	1/31/2008	DH-3
814	H08010244-012	AEH-0801-136	1/31/2008	EH-59
722	H08010244-013	AEH-0801-137	1/31/2008	EH-50
579	H08010244-014	AEH-0801-138	1/31/2008	EH-100
749	H08020014-001	AEH-0801-139	2/1/2008	EH-52
655	H08020014-002	AEH-0801-140	2/1/2008	EH-111
626	H08020014-003	AEH-0801-141	2/1/2008	EH-106
626	H08020014-004	AEH-0801-142	2/1/2008	EH-106
641	H08020014-005	AEH-0801-143	2/1/2008	EH-109
903	H08020014-006	AEH-0801-145	2/1/2008	MW-3
445	H08020014-007	AEH-0801-146	2/1/2008	DH-52
490	H08020014-008	AEH-0801-147	2/1/2008	DH-6
147	H08020014-010	AEH-0801-149	2/1/2008	DH-1
471	H08020014-011	AEH-0801-151	2/1/2008	DH-58
558	H08020017-001	AEH-0801-153	2/4/2008	DH-8
558	H08020017-002	AEH-0801-154	2/4/2008	DH-8
477	H08020017-003	AEH-0801-155	2/4/2008	DH-59
65	H08020017-004	AEH-0801-156	2/4/2008	APSD-2
1091	H08020017-006	AEH-0801-158	2/4/2008	DH-21
512	H08020076-001	AEH-0801-160	2/11/2008	DH-64
1063	H08020090-001	AEH-0802-100	2/12/2008	DH-13
1063	H08020090-002	AEH-0802-101	2/12/2008	DH-13
1078	H08020090-003	AEH-0802-103	2/12/2008	DH-18
1150	H08020090-005	AEH-0802-105	2/12/2008	SDMW-2
1103	H08020090-007	AEH-0802-107	2/12/2008	DH-27
1111	H08020090-008	AEH-0802-108	2/12/2008	DH-30
1146	H08020101-001	AEH-0802-110	2/13/2008	SDMW-1
1154	H08020101-002	AEH-0802-112	2/13/2008	SDMW-4
1154	H08020101-003	AEH-0802-113	2/13/2008	SDMW-4
1138	H08020101-004	AEH-0802-114	2/13/2008	DH-35
1162	H08020101-005	AEH-0802-115	2/13/2008	TW-1
1124	H08020101-007	AEH-0802-117	2/13/2008	DH-33
1152	H08020101-008	AEH-0802-118	2/13/2008	SDMW-3
51	H08020101-010	AEH-0802-121	2/13/2008	APSD-16

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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49	H08020101-011	AEH-0802-122	2/13/2008	APSD-15
1158	H08020113-001	AEH-0802-123	2/14/2008	SDMW-5
87	H08020113-002	AEH-0802-124	2/14/2008	APSD-4
87	H08020113-003	AEH-0802-125	2/14/2008	APSD-4
314	H08020113-004	AEH-0802-126	2/14/2008	DH-29
9	H08020113-006	AEH-0802-128	2/14/2008	APSD-1
77	H08020113-007	AEH-0802-129	2/14/2008	APSD-3
65	H08020150-001	AEH-0802-131	2/21/2008	APSD-2
65	H08020150-002	AEH-0802-132	2/21/2008	APSD-2
1132	H08020150-004	AEH-0802-134	2/21/2008	DH-34
1091	H08020150-006	AEH-0802-136	2/21/2008	DH-21
903	H08030053-001	AEH-0802-137	3/3/2008	MW-3
909	H08030053-002	AEH-0802-138	3/3/2008	MW-4
909	H08030053-003	AEH-0802-139	3/3/2008	MW-4
883	H08030053-004	AEH-0802-140	3/3/2008	MW-1
895	H08030053-005	AEH-0802-141	3/3/2008	MW-2
891	H08030072-001	AEH-0802-144	3/4/2008	MW-11
917	H08030072-002	AEH-0802-145	3/4/2008	MW-5
917	H08030072-003	AEH-0802-146	3/4/2008	MW-5
935	H08030072-004	AEH-0802-147	3/4/2008	MW-9
931	H08030072-005	AEH-0802-148	3/4/2008	MW-8
887	H08030072-006	AEH-0802-149	3/4/2008	MW-10
922	H08030072-008	AEH-0802-151	3/4/2008	MW-6
604	H08040441-001	AEH-0805-100	4/29/2008	EH-102
751	H08040441-002	AEH-0805-101	4/29/2008	EH-52
858	H08040441-003	AEH-0805-102	4/29/2008	EH-63
803	H08040441-004	AEH-0805-103	4/29/2008	EH-58
790	H08040441-005	AEH-0805-104	4/29/2008	EH-57A
851	H08040441-008	AEH-0805-107	4/29/2008	EH-62
851	H08040441-009	AEH-0805-108	4/29/2008	EH-62
542	H08040470-009	AEH-0805-117	4/30/2008	DH-7
172	H08040470-011	AEH-0805-119	4/30/2008	DH-11
679	H08040470-012	AEH-0805-120	4/30/2008	EH-114
617	H08050019-002	AEH-0805-122	5/1/2008	EH-104
764	H08050019-003	AEH-0805-123	5/1/2008	EH-53
685	H08050019-004	AEH-0805-124	5/1/2008	EH-115
664	H08050019-005	AEH-0805-125	5/1/2008	EH-112
863	H08050019-007	AEH-0805-127	5/1/2008	EH-64
590	H08050019-008	AEH-0805-128	5/1/2008	EH-101
611	H08050019-009	AEH-0805-129	5/1/2008	EH-103
611	H08050019-010	AEH-0805-130	5/1/2008	EH-103
671	H08050028-001	AEH-0805-131	5/1/2008	EH-113
647	H08050028-002	AEH-0805-132	5/1/2008	EH-110

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690	H08050028-004	AEH-0805-134	5/1/2008	EH-116
695	H08050028-005	AEH-0805-135	5/1/2008	EH-117
236	H08050028-006	AEH-0805-136	5/1/2008	DH-2
779	H08050066-002	AEH-0805-138	5/5/2008	EH-54
840	H08050066-003	AEH-0805-139	5/5/2008	EH-61
909	H08050066-004	AEH-0805-140	5/5/2008	MW-4
883	H08050066-005	AEH-0805-141	5/5/2008	MW-1
903	H08050066-006	AEH-0805-142	5/5/2008	MW-3
895	H08050066-007	AEH-0805-143	5/5/2008	MW-2
897	H08050066-008	AEH-0805-144	5/5/2008	MW-2
935	H08050066-009	AEH-0805-145	5/5/2008	MW-9
891	H08050066-010	AEH-0805-146	5/5/2008	MW-11
917	H08050066-011	AEH-0805-148	5/5/2008	MW-5
931	H08050066-012	AEH-0805-149	5/5/2008	MW-8
887	H08050097-002	AEH-0805-151	5/5/2008	MW-10
922	H08050097-003	AEH-0805-152	5/5/2008	MW-6
456	H08050097-004	AEH-0805-153	5/5/2008	DH-54
504	H08050097-006	AEH-0805-155	5/6/2008	DH-63
879	H08050097-007	AEH-0805-156	5/6/2008	EH-69
877	H08050097-008	AEH-0805-157	5/6/2008	EH-68
500	H08050097-009	AEH-0805-158	5/6/2008	DH-62
1078	H08050097-010	AEH-0805-159	5/6/2008	DH-18
1156	H08050097-011	AEH-0805-160	5/6/2008	SDMW-4
1156	H08050097-012	AEH-0805-161	5/6/2008	SDMW-4
632	H08050097-014	AEH-0805-163	5/6/2008	EH-107
869	H08050097-015	AEH-0805-164	5/6/2008	EH-65
193	H08050136-001	AEH-0805-165	5/6/2008	DH-15
331	H08050136-002	AEH-0805-166	5/6/2008	DH-3
814	H08050136-004	AEH-0805-168	5/7/2008	EH-59
814	H08050136-004RA	AEH-0805-168	5/7/2008	EH-59
525	H08050136-005	AEH-0805-169	5/7/2008	DH-67
520	H08050136-006	AEH-0805-170	5/7/2008	DH-66
558	H08050136-008	AEH-0805-172	5/7/2008	DH-8
558	H08050136-008RA	AEH-0805-172	5/7/2008	DH-8
250	H08050136-009	AEH-0805-173	5/7/2008	DH-20
250	H08050136-010	AEH-0805-174	5/7/2008	DH-20
735	H08050136-011	AEH-0805-175	5/7/2008	EH-51
735	H08050136-011RA	AEH-0805-175	5/7/2008	EH-51
723	H08050136-012	AEH-0805-176	5/7/2008	EH-50
87	H08050136-013	AEH-0805-177	5/7/2008	APSD-4
9	H08050154-001	AEH-0805-178	5/7/2008	APSD-1
423	H08050154-002	AEH-0805-179	5/7/2008	DH-5

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49	H08050154-004	AEH-0805-181	5/7/2008	APSD-15
873	H08050154-006	AEH-0805-183	5/8/2008	EH-67
705	H08050154-007	AEH-0805-184	5/8/2008	EH-122
705	H08050154-008	AEH-0805-185	5/8/2008	EH-122
703	H08050154-009	AEH-0805-186	5/8/2008	EH-121
871	H08050154-011	AEH-0805-188	5/8/2008	EH-66
697	H08050163-001	AEH-0805-189	5/8/2008	EH-118
699	H08050163-002	AEH-0805-190	5/8/2008	EH-119
701	H08050163-003	AEH-0805-191	5/8/2008	EH-120
438	H08050176-001	AEH-0805-193	5/9/2008	DH-51
159	H08050176-002	AEH-0805-194	5/9/2008	DH-10A
445	H08050176-003	AEH-0805-195	5/9/2008	DH-52
490	H08050176-004	AEH-0805-196	5/9/2008	DH-6
490	H08050176-005	AEH-0805-197	5/9/2008	DH-6
271	H08050176-006	AEH-0805-198	5/9/2008	DH-23
20	H08050176-007	AEH-0805-199	5/9/2008	APSD-10
109	H08050176-009	AEH-0805-201	5/9/2008	APSD-7
471	H08050176-010	AEH-0805-202	5/9/2008	DH-58
370	H08050176-011	AEH-0805-203	5/9/2008	DH-4
398	H08050190-002	AEH-0805-205	5/12/2008	DH-47
466	H08050190-003	AEH-0805-206	5/12/2008	DH-57
380	H08050190-004	AEH-0805-207	5/12/2008	DH-42
655	H08050190-005	AEH-0805-208	5/12/2008	EH-111
655	H08050190-006	AEH-0805-209	5/12/2008	EH-111
579	H08050190-007	AEH-0805-210	5/12/2008	EH-100
579	H08050190-007RA	AEH-0805-210	5/12/2008	EH-100
626	H08050190-009	AEH-0805-212	5/12/2008	EH-106
626	H08050190-009RA	AEH-0805-212	5/12/2008	EH-106
77	H08050222-001	AEH-0805-213	5/12/2008	APSD-3
337	H08050222-002	AEH-0805-214	5/12/2008	DH-36
1044	H08050222-003	AEH-0805-215	5/12/2008	STW-9
1024	H08050222-004	AEH-0805-216	5/12/2008	STW-7
1036	H08050222-005	AEH-0805-217	5/12/2008	STW-8
433	H08050222-006	AEH-0805-218	5/12/2008	DH-50
829	H08050222-008	AEH-0805-220	5/13/2008	EH-60
1105	H08050222-009	AEH-0805-221	5/13/2008	DH-27
1105	H08050222-010	AEH-0805-222	5/13/2008	DH-27
1152	H08050222-011	AEH-0805-223	5/13/2008	SDMW-3
1158	H08050222-012	AEH-0805-224	5/13/2008	SDMW-5
1111	H08050222-013	AEH-0805-225	5/13/2008	DH-30
1138	H08050222-014	AEH-0805-233	5/13/2008	DH-35
1146	H08050222-015	AEH-0805-234	5/13/2008	SDMW-1

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995	H08050243-001	AEH-0805-237	5/13/2008	STW-4
960	H08050243-002	AEH-0805-238	5/13/2008	STW-1
316	H08050243-003	AEH-0805-239	5/13/2008	DH-29
527	H08050243-004	AEH-0805-240	5/14/2008	DH-68
527	H08050243-005	AEH-0805-241	5/14/2008	DH-68
529	H08050243-006	AEH-0805-242	5/14/2008	DH-69
544	H08050243-007	AEH-0805-243	5/14/2008	DH-70
544	H08050243-008	AEH-0805-244	5/14/2008	DH-71
477	H08050243-010	AEH-0805-246	5/14/2008	DH-59
222	H08050243-012	AEH-0805-248	5/14/2008	DH-19R
1063	H08050268-001	AEH-0805-249	5/14/2008	DH-13
53	H08050268-002	AEH-0805-251	5/15/2008	APSD-16
949	H08050268-003	AEH-0805-252	5/15/2008	SPARGE 3
292	H08050268-004	AEH-0805-253	5/15/2008	DH-24
512	H08050268-005	AEH-0805-254	5/15/2008	DH-64
512	H08050268-006	AEH-0805-255	5/15/2008	DH-64
209	H08050268-007	AEH-0805-256	5/15/2008	DH-17
38	H08050269-001	AEH-0805-259	5/15/2008	APSD-12
29	H08050269-003	AEH-0805-261	5/15/2008	APSD-11
124	H08050269-004	AEH-0805-262	5/15/2008	APSD-8
134	H08050269-005	AEH-0805-263	5/15/2008	APSD-9
1150	H08050289-001	AEH-0805-264	5/16/2008	SDMW-2
1162	H08050289-003	AEH-0805-266	5/16/2008	TW-1
1162	H08050289-004	AEH-0805-267	5/16/2008	TW-1
1124	H08050289-005	AEH-0805-268	5/16/2008	DH-33
65	H08050289-007	AEH-0805-271	5/16/2008	APSD-2
1132	H08050289-008	AEH-0805-273	5/16/2008	DH-34
1093	H08050361-001	AEH-0805-274	5/20/2008	DH-21
790	H08070284-001	AEH-0807-100	7/14/2008	EH-57A
697	H08070284-002	AEH-0807-101	7/14/2008	EH-118
699	H08070284-003	AEH-0807-102	7/14/2008	EH-119
699	H08070284-004	AEH-0807-103	7/14/2008	EH-119
701	H08070284-005	AEH-0807-104	7/14/2008	EH-120
705	H08070284-006	AEH-0807-105	7/14/2008	EH-122
875	H08070284-007	AEH-0807-106	7/14/2008	EH-67
703	H08070284-008	AEH-0807-107	7/14/2008	EH-121
873	H08070284-010	AEH-0807-109	7/14/2008	EH-66
851	H08070284-011	AEH-0807-110	7/14/2008	EH-62
858	H08070284-012	AEH-0807-111	7/14/2008	EH-63
604	H08070318-001	AEH-0807-113	7/14/2008	EH-102
751	H08070318-002	AEH-0807-114	7/14/2008	EH-52
803	H08070318-003	AEH-0807-115	7/14/2008	EH-58

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879	H08070318-006	AEH-0807-118	7/15/2008	EH-69
863	H08070318-007	AEH-0807-119	7/15/2008	EH-64
590	H08070318-008	AEH-0807-120	7/15/2008	EH-101
590	H08070318-009	AEH-0807-121	7/15/2008	EH-101
737	H08070318-010	AEH-0807-122	7/15/2008	EH-51
542	H08070318-012	AEH-0807-124	7/15/2008	DH-7
331	H08070318-013	AEH-0807-125	7/15/2008	DH-3
172	H08070318-014	AEH-0807-126	7/15/2008	DH-11
764	H08070318-015	AEH-0807-127	7/15/2008	EH-53
779	H08070318-016	AEH-0807-128	7/15/2008	EH-54
611	H08070334-001	AEH-0807-129	7/15/2008	EH-103
840	H08070334-002	AEH-0807-130	7/15/2008	EH-61
673	H08070334-003	AEH-0807-131	7/15/2008	EH-113
685	H08070334-004	AEH-0807-132	7/16/2008	EH-115
147	H08070334-005	AEH-0807-133	7/16/2008	DH-1
149	H08070334-006	AEH-0807-134	7/16/2008	DH-1
236	H08070334-007	AEH-0807-135	7/16/2008	DH-2
617	H08070334-008	AEH-0807-136	7/16/2008	EH-104
634	H08070334-009	AEH-0807-137	7/16/2008	EH-107
871	H08070334-011	AEH-0807-139	7/16/2008	EH-65
695	H08070334-013	AEH-0807-141	7/16/2008	EH-117
690	H08070334-014	AEH-0807-142	7/16/2008	EH-116
679	H08070334-015	AEH-0807-143	7/16/2008	EH-114
1078	H08070356-001	AEH-0807-150	7/17/2008	DH-18
1078	H08070356-002	AEH-0807-151	7/17/2008	DH-18
1065	H08070356-004	AEH-0807-153	7/17/2008	DH-13
1156	H08070356-006	AEH-0807-158	7/17/2008	SDMW-4
1105	H08070356-007	AEH-0807-159	7/17/2008	DH-27
647	H08070357-001	AEH-0807-144	7/16/2008	EH-110
664	H08070357-002	AEH-0807-145	7/16/2008	EH-112
814	H08070357-003	AEH-0807-146	7/16/2008	EH-59
723	H08070357-004	AEH-0807-147	7/16/2008	EH-50
903	H08070357-005	AEH-0807-149	7/16/2008	MW-3
1111	H08070368-001	AEH-0807-160	7/17/2008	DH-30
1140	H08070368-002	AEH-0807-161	7/17/2008	DH-35
1148	H08070368-003	AEH-0807-162	7/17/2008	SDMW-1
1150	H08070368-004	AEH-0807-163	7/17/2008	SDMW-2
1158	H08070368-005	AEH-0807-164	7/17/2008	SDMW-5
1152	H08070368-006	AEH-0807-165	7/17/2008	SDMW-3
1126	H08070368-007	AEH-0807-166	7/17/2008	DH-33
1162	H08070375-002	AEH-0807-169	7/18/2008	TW-1
1162	H08070375-003	AEH-0807-170	7/18/2008	TW-1

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1093	H08070375-005	AEH-0807-172	7/18/2008	DH-21
1132	H08070375-006	AEH-0807-173	7/18/2008	DH-34
529	H08070391-001	AEH-0807-174	7/18/2008	DH-69
558	H08070391-002	AEH-0807-175	7/18/2008	DH-8
445	H08070391-003	AEH-0807-176	7/18/2008	DH-52
492	H08070391-004	AEH-0807-177	7/18/2008	DH-6
471	H08070391-005	AEH-0807-178	7/18/2008	DH-58
570	H08070463-001	AEH-0807-179	7/23/2008	DH-9
655	H08070463-002	AEH-0807-180	7/23/2008	EH-111
657	H08070463-003	AEH-0807-181	7/23/2008	EH-111
626	H08070463-005	AEH-0807-183	7/23/2008	EH-106
829	H08070463-006	AEH-0807-184	7/23/2008	EH-60
581	H08070463-007	AEH-0807-185	7/23/2008	EH-100
641	H08070463-008	AEH-0807-186	7/23/2008	EH-109
512	H08070463-009	AEH-0807-187	7/23/2008	DH-64
477	H08070463-011	AEH-0807-189	7/23/2008	DH-59
65	H08070463-012	AEH-0807-190	7/23/2008	APSD-2
911	H08080354-001	AEH-0808-100	8/19/2008	MW-4
885	H08080360-001	AEH-0808-102	8/20/2008	MW-1
903	H08080360-002	AEH-0808-103	8/20/2008	MW-3
905	H08080360-003	AEH-0808-104	8/20/2008	MW-3
935	H08080360-005	AEH-0808-106	8/20/2008	MW-9
917	H08080360-006	AEH-0808-107	8/20/2008	MW-5
931	H08080360-007	AEH-0808-108	8/20/2008	MW-8
887	H08080360-008	AEH-0808-109	8/20/2008	MW-10
897	H08080360-009	AEH-0808-110	8/20/2008	MW-2
891	H08080360-010	AEH-0808-111	8/20/2008	MW-11
924	H08080360-011	AEH-0808-112	8/20/2008	MW-6
606	H08100377-001	AEH-0811-108	10/28/2008	EH-102
606	H08100377-002	AEH-0811-109	10/28/2008	EH-102
858	H08100377-003	AEH-0811-110	10/28/2008	EH-63
803	H08100377-004	AEH-0811-111	10/28/2008	EH-58
790	H08100377-005	AEH-0811-112	10/28/2008	EH-57A
851	H08100377-006	AEH-0811-113	10/28/2008	EH-62
542	H08100377-008	AEH-0811-115	10/28/2008	DH-7
172	H08100377-009	AEH-0811-116	10/28/2008	DH-11
703	H08100377-010	AEH-0811-117	10/28/2008	EH-121
873	H08100377-012	AEH-0811-119	10/28/2008	EH-66
705	H08100394-001	AEH-0811-120	10/29/2008	EH-122
875	H08100394-002	AEH-0811-121	10/29/2008	EH-67
875	H08100394-003	AEH-0811-122	10/29/2008	EH-67
697	H08100394-004	AEH-0811-123	10/29/2008	EH-118
699	H08100394-005	AEH-0811-124	10/29/2008	EH-119

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701	H08100394-006	AEH-0811-125	10/29/2008	EH-120
879	H08100394-008	AEH-0811-127	10/29/2008	EH-69
877	H08100394-009	AEH-0811-128	10/29/2008	EH-68
149	H08100394-010	AEH-0811-129	10/29/2008	DH-1
865	H08100394-012	AEH-0811-131	10/29/2008	EH-64
590	H08100394-013	AEH-0811-132	10/29/2008	EH-101
1080	H08100410-001	AEH-0811-133	10/30/2008	DH-18
897	H08100411-001	AEH-0811-134	10/30/2008	MW-2
897	H08100411-002	AEH-0811-135	10/30/2008	MW-2
885	H08100411-003	AEH-0811-136	10/30/2008	MW-1
911	H08100411-005	AEH-0811-138	10/30/2008	MW-4
905	H08100411-006	AEH-0811-139	10/30/2008	MW-3
924	H08100411-007	AEH-0811-140	10/30/2008	MW-6
889	H08100411-008	AEH-0811-141	10/30/2008	MW-10
931	H08100411-009	AEH-0811-142	10/30/2008	MW-8
935	H08100411-010	AEH-0811-143	10/30/2008	MW-9
891	H08100411-012	AEH-0811-145	10/30/2008	MW-11
917	H08100411-013	AEH-0811-146	10/30/2008	MW-5
766	H08110021-001	AEH-0811-147	11/3/2008	EH-53
673	H08110021-002	AEH-0811-148	11/3/2008	EH-113
611	H08110021-003	AEH-0811-149	11/3/2008	EH-103
611	H08110021-004	AEH-0811-150	11/3/2008	EH-103
840	H08110021-005	AEH-0811-151	11/3/2008	EH-61
779	H08110021-006	AEH-0811-152	11/3/2008	EH-54
504	H08110021-007	AEH-0811-153	11/3/2008	DH-63
236	H08110021-009	AEH-0811-155	11/3/2008	DH-2
456	H08110046-001	AEH-0811-157	11/4/2008	DH-54
619	H08110046-002	AEH-0811-158	11/4/2008	EH-104
695	H08110046-003	AEH-0811-159	11/4/2008	EH-117
690	H08110046-004	AEH-0811-160	11/4/2008	EH-116
690	H08110046-005	AEH-0811-161	11/4/2008	EH-116
679	H08110046-006	AEH-0811-162	11/4/2008	EH-114
500	H08110046-008	AEH-0811-164	11/4/2008	DH-62
634	H08110050-001	AEH-0811-166	11/4/2008	EH-107
647	H08110050-002	AEH-0811-167	11/4/2008	EH-110
331	H08110050-003	AEH-0811-168	11/4/2008	DH-3
664	H08110073-001	AEH-0811-169	11/5/2008	EH-112
525	H08110073-002	AEH-0811-170	11/5/2008	DH-67
193	H08110073-003	AEH-0811-171	11/5/2008	DH-15
193	H08110073-004	AEH-0811-172	11/5/2008	DH-15
492	H08110073-005	AEH-0811-173	11/5/2008	DH-6
816	H08110073-007	AEH-0811-175	11/5/2008	EH-59
737	H08110073-008	AEH-0811-176	11/5/2008	EH-51

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522	H08110073-011	AEH-0811-179	11/5/2008	DH-66
558	H08110088-001	AEH-0811-180	11/6/2008	DH-8
29	H08110088-002	AEH-0811-181	11/6/2008	APSD-11
38	H08110088-003	AEH-0811-182	11/6/2008	APSD-12
87	H08110088-004	AEH-0811-183	11/6/2008	APSD-4
252	H08110088-005	AEH-0811-184	11/6/2008	DH-20
252	H08110088-006	AEH-0811-185	11/6/2008	DH-20
423	H08110088-007	AEH-0811-186	11/6/2008	DH-5
529	H08110088-008	AEH-0811-187	11/6/2008	DH-69
1156	H08110088-009	AEH-0811-188	11/6/2008	SDMW-4
451	H08110092-001	AEH-0811-190	11/6/2008	DH-53
445	H08110092-003	AEH-0811-192	11/6/2008	DH-52
159	H08110092-004	AEH-0811-193	11/6/2008	DH-10A
723	H08110092-005	AEH-0811-194	11/6/2008	EH-50
11	H08110106-001	AEH-0811-195	11/10/2008	APSD-1
134	H08110106-002	AEH-0811-196	11/10/2008	APSD-9
751	H08110106-003	AEH-0811-197	11/10/2008	EH-52
751	H08110106-004	AEH-0811-198	11/10/2008	EH-52
53	H08110106-005	AEH-0811-199	11/10/2008	APSD-16
124	H08110106-006	AEH-0811-200	11/10/2008	APSD-8
527	H08110106-007	AEH-0811-201	11/10/2008	DH-68
438	H08110106-008	AEH-0811-202	11/10/2008	DH-51
49	H08110106-009	AEH-0811-203	11/10/2008	APSD-15
273	H08110106-011	AEH-0811-205	11/10/2008	DH-23
20	H08110106-013	AEH-0811-207	11/10/2008	APSD-10
109	H08110106-014	AEH-0811-208	11/10/2008	APSD-7
466	H08110126-001	AEH-0811-209	11/11/2008	DH-57
466	H08110126-002	AEH-0811-210	11/11/2008	DH-57
370	H08110126-003	AEH-0811-211	11/11/2008	DH-4
544	H08110126-005	AEH-0811-213	11/11/2008	DH-70
398	H08110126-006	AEH-0811-214	11/11/2008	DH-47
471	H08110126-007	AEH-0811-215	11/11/2008	DH-58
544	H08110126-008	AEH-0811-216	11/11/2008	DH-71
657	H08110126-009	AEH-0811-217	11/11/2008	EH-111
628	H08110126-010	AEH-0811-218	11/11/2008	EH-106
1140	H08110126-012	AEH-0811-220	11/11/2008	DH-35
339	H08110126-013	AEH-0811-221	11/11/2008	DH-36
77	H08110126-014	AEH-0811-222	11/11/2008	APSD-3
960	H08110140-001	AEH-0811-223	11/12/2008	STW-1
1024	H08110140-002	AEH-0811-224	11/12/2008	STW-7
1036	H08110140-003	AEH-0811-225	11/12/2008	STW-8
1046	H08110140-004	AEH-0811-226	11/12/2008	STW-9

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433	H08110140-006	AEH-0811-228	11/12/2008	DH-50
581	H08110140-007	AEH-0811-229	11/12/2008	EH-100
581	H08110140-008	AEH-0811-230	11/12/2008	EH-100
831	H08110140-010	AEH-0811-232	11/12/2008	EH-60
641	H08110140-011	AEH-0811-234	11/12/2008	EH-109
1148	H08110140-012	AEH-0811-235	11/12/2008	SDMW-1
1111	H08110162-001	AEH-0811-237	11/13/2008	DH-30
1105	H08110162-002	AEH-0811-238	11/13/2008	DH-27
1105	H08110162-003	AEH-0811-239	11/13/2008	DH-27
1152	H08110162-005	AEH-0811-241	11/13/2008	SDMW-3
1160	H08110162-006	AEH-0811-242	11/13/2008	SDMW-5
479	H08110162-007	AEH-0811-243	11/13/2008	DH-59
224	H08110162-008	AEH-0811-244	11/13/2008	DH-19R
1065	H08110162-010	AEH-0811-246	11/13/2008	DH-13
406	H08110162-011	AEH-0811-247	11/13/2008	DH-49
292	H08110162-012	AEH-0811-248	11/13/2008	DH-24
951	H08110162-013	AEH-0811-249	11/13/2008	SPARGE 3
512	H08110162-014	AEH-0811-250	11/13/2008	DH-64
316	H08110187-001	AEH-0811-251	11/17/2008	DH-29
402	H08110187-002	AEH-0811-252	11/17/2008	DH-48
211	H08110187-003	AEH-0811-253	11/17/2008	DH-17
211	H08110187-004	AEH-0811-254	11/17/2008	DH-17
1150	H08110187-006	AEH-0811-256	11/17/2008	SDMW-2
344	H08110187-007	AEH-0811-257	11/17/2008	DH-37
65	H08110187-008	AEH-0811-258	11/17/2008	APSD-2
1126	H08110187-010	AEH-0811-260	11/17/2008	DH-33
1162	H08110187-011	AEH-0811-261	11/17/2008	TW-1
1117	H08110187-012	AEH-0811-262	11/17/2008	DH-31
1093	H08110187-013	AEH-0811-263	11/17/2008	DH-21
1132	H08110187-014	AEH-0811-264	11/17/2008	DH-34
790	H09020024-001	AEH-0902-100	2/2/2009	EH-57A
790	H09020024-002	AEH-0902-101	2/2/2009	EH-57A
697	H09020024-003	AEH-0902-102	2/2/2009	EH-118
699	H09020024-004	AEH-0902-103	2/2/2009	EH-119
701	H09020024-005	AEH-0902-104	2/2/2009	EH-120
703	H09020024-007	AEH-0902-106	2/2/2009	EH-121
873	H09020024-009	AEH-0902-108	2/2/2009	EH-66
705	H09020024-010	AEH-0902-109	2/2/2009	EH-122
875	H09020024-011	AEH-0902-110	2/2/2009	EH-67
853	H09020024-012	AEH-0902-111	2/3/2009	EH-62
853	H09020024-013	AEH-0902-112	2/3/2009	EH-62
858	H09020024-015	AEH-0902-114	2/3/2009	EH-63

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803	H09020024-017	AEH-0902-116	2/3/2009	EH-58
877	H09020024-018	AEH-0902-117	2/3/2009	EH-68
879	H09020024-019	AEH-0902-118	2/3/2009	EH-69
172	H09020024-020	AEH-0902-119	2/3/2009	DH-11
542	H09020036-001	AEH-0902-120	2/3/2009	DH-7
865	H09020036-002	AEH-0902-121	2/3/2009	EH-64
590	H09020036-003	AEH-0902-122	2/3/2009	EH-101
766	H09020036-004	AEH-0902-123	2/3/2009	EH-53
779	H09020036-006	AEH-0902-125	2/3/2009	EH-54
840	H09020036-007	AEH-0902-126	2/4/2009	EH-61
613	H09020036-008	AEH-0902-127	2/4/2009	EH-103
613	H09020036-009	AEH-0902-128	2/4/2009	EH-103
673	H09020036-010	AEH-0902-129	2/4/2009	EH-113
685	H09020036-011	AEH-0902-130	2/4/2009	EH-115
149	H09020036-012	AEH-0902-131	2/4/2009	DH-1
236	H09020036-014	AEH-0902-133	2/4/2009	DH-2
619	H09020058-001	AEH-0902-134	2/4/2009	EH-104
634	H09020058-002	AEH-0902-135	2/4/2009	EH-107
695	H09020058-004	AEH-0902-137	2/4/2009	EH-117
690	H09020058-005	AEH-0902-138	2/4/2009	EH-116
679	H09020058-006	AEH-0902-139	2/4/2009	EH-114
649	H09020058-007	AEH-0902-140	2/4/2009	EH-110
333	H09020058-009	AEH-0902-142	2/5/2009	DH-3
333	H09020058-010	AEH-0902-143	2/5/2009	DH-3
560	H09020058-011	AEH-0902-144	2/5/2009	DH-8
737	H09020058-012	AEH-0902-145	2/5/2009	EH-51
871	H09020058-013	AEH-0902-146	2/5/2009	EH-65
529	H09020058-015	AEH-0902-148	2/5/2009	DH-69
723	H09020058-016	AEH-0902-149	2/5/2009	EH-50
929	H09020067-001	AEH-0902-150	2/6/2009	MW-7
911	H09020067-002	AEH-0902-151	2/6/2009	MW-4
885	H09020067-004	AEH-0902-153	2/6/2009	MW-1
885	H09020067-005	AEH-0902-154	2/6/2009	MW-1
935	H09020067-007	AEH-0902-156	2/6/2009	MW-9
917	H09020067-008	AEH-0902-157	2/6/2009	MW-5
933	H09020067-009	AEH-0902-158	2/6/2009	MW-8
889	H09020067-010	AEH-0902-159	2/6/2009	MW-10
897	H09020067-011	AEH-0902-160	2/6/2009	MW-2
905	H09020067-012	AEH-0902-161	2/6/2009	MW-3
891	H09020078-001	AEH-0902-162	2/9/2009	MW-11
924	H09020078-002	AEH-0902-163	2/9/2009	MW-6
723	H09020078-003	AEH-0902-164	2/9/2009	EH-50

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751	H09020078-005	AEH-0902-166	2/9/2009	EH-52
445	H09020078-007	AEH-0902-168	2/9/2009	DH-52
492	H09020078-008	AEH-0902-169	2/9/2009	DH-6
471	H09020078-009	AEH-0902-170	2/9/2009	DH-58
657	H09020078-010	AEH-0902-171	2/9/2009	EH-111
628	H09020078-012	AEH-0902-173	2/9/2009	EH-106
831	H09020078-013	AEH-0902-174	2/9/2009	EH-60
581	H09020078-014	AEH-0902-175	2/9/2009	EH-100
641	H09020078-015	AEH-0902-176	2/9/2009	EH-109
479	H09020089-001	AEH-0902-177	2/10/2009	DH-59
479	H09020089-002	AEH-0902-178	2/10/2009	DH-59
512	H09020089-003	AEH-0902-179	2/10/2009	DH-64
67	H09020089-005	AEH-0902-181	2/10/2009	APSD-2
1093	H09020089-006	AEH-0902-182	2/10/2009	DH-21
664	H09020131-001	AEH-0902-184	2/13/2009	EH-112
816	H09020131-002	AEH-0902-185	2/13/2009	EH-59
816	H09020131-003	AEH-0902-186	2/13/2009	EH-59
707	H09050115-001	AEH-0905-109	5/5/2009	EH-123
707	H09050115-002	AEH-0905-110	5/5/2009	EH-124
707	H09050115-003	AEH-0905-111	5/5/2009	EH-124
709	H09050115-004	AEH-0905-112	5/5/2009	EH-126
709	H09050115-005	AEH-0905-113	5/5/2009	EH-125
711	H09050115-006	AEH-0905-114	5/5/2009	EH-127
697	H09050115-008	AEH-0905-116	5/5/2009	EH-118
703	H09050115-010	AEH-0905-118	5/5/2009	EH-121
873	H09050115-011	AEH-0905-119	5/5/2009	EH-66
875	H09050115-012	AEH-0905-120	5/5/2009	EH-67
705	H09050115-013	AEH-0905-121	5/5/2009	EH-122
853	H09050115-014	AEH-0905-122	5/5/2009	EH-62
858	H09050142-001	AEH-0905-123	5/6/2009	EH-63
606	H09050142-002	AEH-0905-124	5/6/2009	EH-102
606	H09050142-003	AEH-0905-125	5/6/2009	EH-102
471	H09050142-005	AEH-0905-127	5/6/2009	DH-58
879	H09050142-006	AEH-0905-128	5/6/2009	EH-69
877	H09050142-007	AEH-0905-129	5/6/2009	EH-68
542	H09050142-009	AEH-0905-131	5/6/2009	DH-7
172	H09050142-010	AEH-0905-132	5/6/2009	DH-11
149	H09050142-011	AEH-0905-133	5/6/2009	DH-1
865	H09050142-012	AEH-0905-134	5/6/2009	EH-64
766	H09050142-013	AEH-0905-136	5/6/2009	EH-53
592	H09050142-014	AEH-0905-137	5/6/2009	EH-101
840	H09050142-015	AEH-0905-138	5/6/2009	EH-61

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613	H09050158-001	AEH-0905-139	5/7/2009	EH-103
911	H09050158-002	AEH-0905-140	5/7/2009	MW-4
911	H09050158-003	AEH-0905-141	5/7/2009	MW-4
885	H09050158-004	AEH-0905-142	5/7/2009	MW-1
937	H09050158-006	AEH-0905-144	5/7/2009	MW-9
919	H09050158-007	AEH-0905-145	5/7/2009	MW-5
933	H09050158-008	AEH-0905-146	5/7/2009	MW-8
889	H09050158-010	AEH-0905-148	5/7/2009	MW-10
905	H09050158-011	AEH-0905-149	5/7/2009	MW-3
897	H09050158-012	AEH-0905-150	5/7/2009	MW-2
891	H09050158-013	AEH-0905-151	5/7/2009	MW-11
924	H09050167-001	AEH-0905-152	5/8/2009	MW-6
924	H09050167-002	AEH-0905-153	5/8/2009	MW-6
929	H09050167-004	AEH-0905-155	5/8/2009	MW-7
619	H09050167-005	AEH-0905-156	5/8/2009	EH-104
790	H09050167-006	AEH-0905-157	5/8/2009	EH-57A
1080	H09050167-008	AEH-0905-159	5/8/2009	DH-18
504	H09050167-009	AEH-0905-160	5/8/2009	DH-63
456	H09050167-010	AEH-0905-161	5/8/2009	DH-54
500	H09050178-002	AEH-0905-163	5/11/2009	DH-62
236	H09050178-003	AEH-0905-164	5/11/2009	DH-2
679	H09050178-004	AEH-0905-165	5/11/2009	EH-114
634	H09050178-005	AEH-0905-166	5/11/2009	EH-107
634	H09050178-006	AEH-0905-167	5/11/2009	EH-107
666	H09050178-007	AEH-0905-168	5/11/2009	EH-112
673	H09050178-008	AEH-0905-169	5/11/2009	EH-113
695	H09050178-010	AEH-0905-171	5/11/2009	EH-117
699	H09050178-011	AEH-0905-172	5/11/2009	EH-119
690	H09050178-012	AEH-0905-173	5/11/2009	EH-116
649	H09050178-013	AEH-0905-174	5/11/2009	EH-110
193	H09050193-001	AEH-0905-175	5/12/2009	DH-15
701	H09050193-003	AEH-0905-177	5/12/2009	EH-120
701	H09050193-004	AEH-0905-178	5/12/2009	EH-120
333	H09050193-005	AEH-0905-179	5/12/2009	DH-3
29	H09050193-006	AEH-0905-180	5/12/2009	APSD-11
527	H09050193-007	AEH-0905-181	5/12/2009	DH-67
779	H09050193-009	AEH-0905-183	5/12/2009	EH-54
816	H09050193-010	AEH-0905-184	5/12/2009	EH-59
560	H09050193-011	AEH-0905-185	5/12/2009	DH-8
38	H09050193-012	AEH-0905-186	5/12/2009	APSD-12
522	H09050193-013	AEH-0905-187	5/12/2009	DH-66
438	H09050210-002	AEH-0905-189	5/13/2009	DH-51
737	H09050210-003	AEH-0905-190	5/13/2009	EH-51

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252	H09050210-005	AEH-0905-192	5/13/2009	DH-20
1156	H09050210-006	AEH-0905-193	5/13/2009	SDMW-4
87	H09050210-007	AEH-0905-194	5/13/2009	APSD-4
126	H09050210-008	AEH-0905-195	5/13/2009	APSD-8
423	H09050210-010	AEH-0905-197	5/13/2009	DH-5
723	H09050210-011	AEH-0905-198	5/13/2009	EH-50
753	H09050210-012	AEH-0905-199	5/13/2009	EH-52
529	H09050210-013	AEH-0905-200	5/13/2009	DH-69
136	H09050210-014	AEH-0905-201	5/13/2009	APSD-9
20	H09050210-015	AEH-0905-202	5/13/2009	APSD-10
451	H09050210-016	AEH-0905-203	5/13/2009	DH-53
447	H09050210-017	AEH-0905-204	5/13/2009	DH-52
737	H09050233-001	AEH-0905-205	5/14/2009	EH-51
737	H09050233-002	AEH-0905-206	5/14/2009	EH-51
527	H09050233-003	AEH-0905-207	5/14/2009	DH-68
159	H09050233-005	AEH-0905-209	5/14/2009	DH-10A
159	H09050233-005	AEH-0905-209A	5/14/2009	DH-10A
492	H09050233-006	AEH-0905-210	5/14/2009	DH-6
273	H09050233-008	AEH-0905-212	5/14/2009	DH-23
53	H09050233-009	AEH-0905-213	5/14/2009	APSD-16
51	H09050233-010	AEH-0905-214	5/14/2009	APSD-15
544	H09050233-011	AEH-0905-215	5/14/2009	DH-70
370	H09050233-012	AEH-0905-216	5/14/2009	DH-4
398	H09050233-013	AEH-0905-217	5/14/2009	DH-47
473	H09050233-014	AEH-0905-218	5/14/2009	DH-58
466	H09050233-015	AEH-0905-219	5/14/2009	DH-57
109	H09050233-016	AEH-0905-220	5/14/2009	APSD-7
546	H09050233-017	AEH-0905-221	5/14/2009	DH-71
11	H09050242-001	AEH-0905-222	5/15/2009	APSD-1
657	H09050242-004	AEH-0905-230	5/15/2009	EH-111
657	H09050242-005	AEH-0905-231	5/15/2009	EH-111
339	H09050242-006	AEH-0905-232	5/15/2009	DH-36
1024	H09050242-007	AEH-0905-233	5/15/2009	STW-7
433	H09050242-008	AEH-0905-234	5/15/2009	DH-50
581	H09050242-009	AEH-0905-236	5/15/2009	EH-100
709	H09050248-002	AEH-0905-226	5/15/2009	EH-126
709	H09050248-003	AEH-0905-227	5/15/2009	EH-125
709	H09050248-004	AEH-0905-228	5/15/2009	EH-125
711	H09050248-005	AEH-0905-229	5/15/2009	EH-127
707	H09050248-007	AEH-0905-237	5/15/2009	EH-123
1140	H09050256-002	AEH-0905-240	5/18/2009	DH-35
1148	H09050256-003	AEH-0905-241	5/18/2009	SDMW-1

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628	H09050256-005	AEH-0905-243	5/18/2009	EH-106
831	H09050256-006	AEH-0905-244	5/18/2009	EH-60
1046	H09050256-007	AEH-0905-245	5/18/2009	STW-9
1036	H09050256-008	AEH-0905-246	5/18/2009	STW-8
1160	H09050256-009	AEH-0905-247	5/18/2009	SDMW-5
1154	H09050256-011	AEH-0905-249	5/18/2009	SDMW-3
995	H09050256-012	AEH-0905-250	5/18/2009	STW-4
960	H09050256-013	AEH-0905-251	5/18/2009	STW-1
643	H09050256-014	AEH-0905-252	5/18/2009	EH-109
479	H09050256-015	AEH-0905-253	5/18/2009	DH-59
77	H09050287-002	AEH-0905-255	5/19/2009	APSD-3
1105	H09050287-003	AEH-0905-256	5/19/2009	DH-27
1111	H09050287-004	AEH-0905-257	5/19/2009	DH-30
1065	H09050287-006	AEH-0905-260	5/19/2009	DH-13
1065	H09050287-007	AEH-0905-261	5/19/2009	DH-13
292	H09050287-008	AEH-0905-262	5/19/2009	DH-24
951	H09050287-009	AEH-0905-263	5/19/2009	SPARGE 3
316	H09050287-010	AEH-0905-264	5/19/2009	DH-29
1150	H09050287-011	AEH-0905-265	5/19/2009	SDMW-2
514	H09050287-012	AEH-0905-267	5/19/2009	DH-64
211	H09050287-013	AEH-0905-268	5/19/2009	DH-17
67	H09050289-002	AEH-0905-270	5/20/2009	APSD-2
1164	H09050289-003	AEH-0905-271	5/20/2009	TW-1
1164	H09050289-004	AEH-0905-272	5/20/2009	TW-1
1126	H09050289-005	AEH-0905-273	5/20/2009	DH-33
1134	H09050289-007	AEH-0905-275	5/20/2009	DH-34
1093	H09050289-008	AEH-0905-276	5/20/2009	DH-21
224	H09050289-009	AEH-0905-277	5/20/2009	DH-19R
583	HYD-9028	AEH-8610-7040	10/23/1986	EH-101
739	HYD-9042	AEH-8611-15	11/11/1986	EH-52
739	HYD-9043	AEH-8611-45	11/18/1986	EH-52
739	HYD-9044	AEH-8611-33	11/18/1986	EH-52
1119	IMMW-0004-102	IMMW-0004-102	4/26/2000	DH-32
400	IMMW-9912-118	IMMW-9912-118	12/15/1999	DH-48
289	L021034-001	EHST-0212-100	12/17/2002	DH-24
948	L021034-002	EHST-0212-101	12/17/2002	SPARGE 3
1022	L021034-003	EHST-0212-102	12/17/2002	STW-7
289	L030016-001	EHST-0212-100	1/14/2003	DH-24
1022	L030016-002	EHST-0212-101	1/14/2003	STW-7
1034	L030016-003	EHST-0212-102	1/14/2003	STW-8
18	L030599-001	AEH-0310-339	10/25/2003	APSD-10
75	L030599-002	AEH-0310-340	10/25/2003	APSD-3

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8	L030599-004	AEH-0310-342	10/25/2003	APSD-1
46	L030599-005	AEH-0310-343	10/25/2003	APSD-13
248	L030599-006	AEH-0310-344	10/25/2003	DH-20
313	L030599-009	AEH-0310-347	10/25/2003	DH-29
389	L030599-010	AEH-0310-348	10/25/2003	DH-45
392	L030599-011	AEH-0310-349	10/25/2003	DH-46
397	L030599-012	AEH-0310-350	10/25/2003	DH-47
386	L030599-013	AEH-0310-351	10/25/2003	DH-44
373	L030599-014	AEH-0310-352	10/25/2003	DH-40
346	L030599-015	AEH-0310-353	10/25/2003	DH-39
261	L030599-016	AEH-0310-354	10/25/2003	DH-22
494	L030599-017	AEH-0310-355	10/26/2003	DH-60
498	L030599-018	AEH-0310-356	10/26/2003	DH-62
556	L030599-019	AEH-0310-357	10/26/2003	DH-8
519	L030599-020	AEH-0310-358	10/26/2003	DH-66
425	L000630001	IMMW-0004-120	4/25/2000	DH-50
435	L000630002	IMMW-0004-121	4/25/2000	DH-51
453	L000630003	IMMW-0004-124	4/25/2000	DH-54
1107	L000631001	IMMW-0004-100	4/26/2000	DH-30
374	L000631002	IMMW-0004-111	4/26/2000	DH-41
377	L000631003	IMMW-0004-112	4/26/2000	DH-42
382	L000631004	IMMW-0004-113	4/26/2000	DH-43
385	L000631005	IMMW-0004-114	4/26/2000	DH-44
388	L000631006	IMMW-0004-115	4/25/2000	DH-45
391	L000631007	IMMW-0004-116	4/25/2000	DH-46
1113	L000631008	IMMW-0004-101	4/26/2000	DH-31
388	L000631009	IMMW-0004-126	4/25/2000	DH-45
382	L000631011	IMMW-0004-128	4/26/2000	DH-43
1121	L000631015	IMMW-0004-103	4/26/2000	DH-33
1126	L000631016	IMMW-0004-104	4/26/2000	DH-34
1134	L000631017	IMMW-0004-105	4/26/2000	DH-35
333	L000631018	IMMW-0004-106	4/26/2000	DH-36
339	L000631019	IMMW-0004-107	4/26/2000	DH-37
1140	L000631020	IMMW-0004-108	4/26/2000	DH-38
344	L000631021	IMMW-0004-109	4/26/2000	DH-39
370	L000631022	IMMW-0004-110	4/26/2000	DH-40
400	L000631023	IMMW-0004-118	4/25/2000	DH-48
402	L000631024	IMMW-0004-119	4/25/2000	DH-49
440	L000631025	IMMW-0004-122	4/25/2000	DH-52
447	L000631026	IMMW-0004-123	4/25/2000	DH-53
394	L000631028	IMMW-0004-117	4/26/2000	DH-47
1060	L000703001	EHC-0005-115	5/3/2000	DH-13

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1074	L000703003	EHC-0005-119	5/2/2000	DH-18
144	L000703004	EHC-0005-121	5/1/2000	DH-1
1087	L000703005	EHC-0005-123	5/3/2000	DH-21
259	L000703006	EHC-0005-124	5/3/2000	DH-22
281	L000703007	EHC-0005-126	5/1/2000	DH-24
301	L000703008	EHC-0005-128	5/3/2000	DH-28
232	L000703009	EHC-0005-130	5/1/2000	DH-2
327	L000703010	EHC-0005-131	5/2/2000	DH-3
538	L000703011	EHC-0005-135	5/1/2000	DH-7
555	L000703012	EHC-0005-136	5/2/2000	DH-8
718	L000703013	EHC-0005-141	5/1/2000	EH-50
760	L000704001	EHC-0005-144	5/2/2000	EH-53
786	L000704002	EHC-0005-146	5/2/2000	EH-57A
824	L000704003	EHC-0005-149	5/3/2000	EH-60
847	L000704004	EHC-0005-151	5/2/2000	EH-62
281	L000704005	EHC-0005-162	5/1/2000	DH-24
327	L000704007	EHC-0005-164	5/2/2000	DH-3
259	L000704009	EHC-0005-166	5/3/2000	DH-22
17	L000705002	EHC-0005-101	5/9/2000	APSD-10
27	L000705003	EHC-0005-102	5/9/2000	APSD-11
35	L000705004	EHC-0005-103	5/9/2000	APSD-12
45	L000705005	EHC-0005-104	5/8/2000	APSD-13
6	L000705006	EHC-0005-105	5/8/2000	APSD-1
60	L000705007	EHC-0005-106	5/9/2000	APSD-2
74	L000705008	EHC-0005-107	5/8/2000	APSD-3
84	L000705009	EHC-0005-108	5/8/2000	APSD-4
106	L000705010	EHC-0005-109	5/9/2000	APSD-7
122	L000705011	EHC-0005-110	5/9/2000	APSD-8
132	L000705012	EHC-0005-111	5/9/2000	APSD-9
156	L000705013	EHC-0005-112	5/8/2000	DH-10A
168	L000705014	EHC-0005-113	5/8/2000	DH-11
184	L000705015	EHC-0005-116	5/9/2000	DH-14
218	L000705016	EHC-0005-120	5/8/2000	DH-19
247	L000705017	EHC-0005-122	5/8/2000	DH-20
268	L000705018	EHC-0005-125	5/8/2000	DH-23
1100	L000705019	EHC-0005-127	5/8/2000	DH-27
311	L000705020	EHC-0005-129	5/8/2000	DH-29
366	L000705021	EHC-0005-132	5/9/2000	DH-4
419	L000705022	EHC-0005-133	5/9/2000	DH-5
488	L000705023	EHC-0005-134	5/8/2000	DH-6
599	L000705026	EHC-0005-140	5/8/2000	EH-102
731	L000705027	EHC-0005-142	5/8/2000	EH-51

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774	L000705029	EHC-0005-145	5/8/2000	EH-54
798	L000705030	EHC-0005-147	5/8/2000	EH-58
809	L000705031	EHC-0005-148	5/8/2000	EH-59
268	L000705034	EHC-0005-169	5/8/2000	DH-23
420	L000705036	EHC-0005-171	5/9/2000	DH-5
951	L000720001	EHST-0005-100	5/10/2000	STW-1
973	L000720002	EHST-0005-101	5/10/2000	STW-3
1005	L000720003	EHST-0005-102	5/10/2000	STW-6
995	L000720004	EHST-0005-103	5/10/2000	STW-5
984	L000720005	EHST-0005-104	5/10/2000	STW-4
962	L000720006	EHST-0005-105	5/10/2000	STW-2
951	L000759001	EHST-0005-110	5/18/2000	STW-1
997	L000759002	EHST-0005-111	5/18/2000	STW-5
984	L000759003	EHST-0005-112	5/18/2000	STW-4
962	L000759004	EHST-0005-113	5/18/2000	STW-2
973	L000759005	EHST-0005-114	5/18/2000	STW-3
1005	L000759006	EHST-0005-115	5/18/2000	STW-6
425	L000759008	EHST-0005-117	5/18/2000	DH-50
425	L000759009	EHST-0005-118	5/18/2000	DH-50
425	L000825001	EHST-0005-120	5/30/2000	DH-50
985	L000825002	EHST-0005-121	5/30/2000	STW-4
997	L000825003	EHST-0005-122	5/30/2000	STW-5
1005	L000825004	EHST-0005-123	5/30/2000	STW-6
973	L000825005	EHST-0005-124	5/30/2000	STW-3
962	L000825006	EHST-0005-125	5/30/2000	STW-2
951	L000825007	EHST-0005-126	5/30/2000	STW-1
953	L000825008	EHST-0005-127	5/30/2000	STW-1
942	L000825010	EHST-0005-129	5/30/2000	SPARGE 3
425	L000882001	EHST-0006-100	6/6/2000	DH-50
997	L000882002	EHST-0006-101	6/6/2000	STW-5
985	L000882003	EHST-0006-102	6/6/2000	STW-4
962	L000882004	EHST-0006-103	6/6/2000	STW-2
1005	L000882005	EHST-0006-104	6/6/2000	STW-6
1006	L000882006	EHST-0006-105	6/6/2000	STW-6
973	L000882007	EHST-0006-106	6/6/2000	STW-3
953	L000882009	EHST-0006-108	6/6/2000	STW-1
985	L000910000	EHST-0006-205	6/13/2000	STW-4
425	L000910001	EHST-0006-200	6/13/2000	DH-50
997	L000910002	EHST-0006-201	6/13/2000	STW-5
1006	L000910003	EHST-0006-202	6/13/2000	STW-6
974	L000910004	EHST-0006-203	6/13/2000	STW-3
962	L000910005	EHST-0006-204	6/13/2000	STW-2

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985	L000910007	EHST-0006-206	6/13/2000	STW-4
953	L000910008	EHST-0006-207	6/13/2000	STW-1
824	L000964001	EHST-0006-300	6/21/2000	EH-60
435	L000964002	EHST-0006-301	6/21/2000	DH-51
426	L000964003	EHST-0006-302	6/21/2000	DH-50
997	L000964004	EHST-0006-303	6/21/2000	STW-5
1006	L000964005	EHST-0006-304	6/21/2000	STW-6
974	L000964006	EHST-0006-305	6/21/2000	STW-3
962	L000964007	EHST-0006-306	6/21/2000	STW-2
985	L000964008	EHST-0006-307	6/21/2000	STW-4
953	L000964009	EHST-0006-308	6/21/2000	STW-1
281	L000964011	EHST-0006-310	6/21/2000	DH-24
426	L001003001	EHST-0006-400	6/29/2000	DH-50
997	L001003002	EHST-0006-401	6/29/2000	STW-5
1006	L001003003	EHST-0006-402	6/29/2000	STW-6
974	L001003004	EHST-0006-403	6/29/2000	STW-3
963	L001003005	EHST-0006-404	6/29/2000	STW-2
986	L001003006	EHST-0006-405	6/29/2000	STW-4
953	L001003008	EHST-0006-407	6/29/2000	STW-1
953	L001003009	EHST-0006-408	6/29/2000	STW-1
426	L001116001	EHST-0007-100	7/13/2000	DH-50
998	L001116002	EHST-0007-101	7/13/2000	STW-5
1006	L001116003	EHST-0007-102	7/13/2000	STW-6
974	L001116004	EHST-0007-103	7/13/2000	STW-3
963	L001116005	EHST-0007-104	7/13/2000	STW-2
986	L001116006	EHST-0007-105	7/13/2000	STW-4
986	L001116007	EHST-0007-106	7/13/2000	STW-4
954	L001116009	EHST-0007-108	7/13/2000	STW-1
426	L001190001	EHST-0007-200	7/24/2000	DH-50
998	L001190002	EHST-0007-201	7/24/2000	STW-5
986	L001190003	EHST-0007-202	7/24/2000	STW-4
963	L001190004	EHST-0007-203	7/24/2000	STW-2
974	L001190005	EHST-0007-204	7/24/2000	STW-3
974	L001190006	EHST-0007-205	7/24/2000	STW-3
1006	L001190007	EHST-0007-206	7/24/2000	STW-6
954	L001190009	EHST-0007-208	7/24/2000	STW-1
824	L001239001	EHST-0008-100	8/3/2000	EH-60
426	L001239002	EHST-0008-101	8/3/2000	DH-50
998	L001239003	EHST-0008-102	8/3/2000	STW-5
1007	L001239004	EHST-0008-103	8/3/2000	STW-6
975	L001239005	EHST-0008-104	8/3/2000	STW-3
963	L001239006	EHST-0008-105	8/3/2000	STW-2
986	L001239007	EHST-0008-106	8/3/2000	STW-4

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942	L001239010	EHST-0008-109	8/3/2000	SPARGE 3
943	L001239011	EHST-0008-110	8/3/2000	SPARGE 3
281	L001239012	EHST-0008-111	8/3/2000	DH-24
824	L001333001	EHST-0008-200	8/16/2000	EH-60
426	L001333002	EHST-0008-201	8/16/2000	DH-50
998	L001333003	EHST-0008-202	8/16/2000	STW-5
1007	L001333004	EHST-0008-203	8/16/2000	STW-6
975	L001333005	EHST-0008-204	8/16/2000	STW-3
963	L001333006	EHST-0008-205	8/16/2000	STW-2
986	L001333007	EHST-0008-206	8/16/2000	STW-4
954	L001333009	EHST-0008-208	8/16/2000	STW-1
943	L001333010	EHST-0008-209	8/16/2000	SPARGE 3
282	L001333011	EHST-0008-210	8/16/2000	DH-24
282	L001333012	EHST-0008-211	8/16/2000	DH-24
824	L001441001	EHST-0008-300	8/31/2000	EH-60
427	L001441002	EHST-0008-301	8/31/2000	DH-50
987	L001441003	EHST-0008-302	8/31/2000	STW-4
998	L001441004	EHST-0008-303	8/31/2000	STW-5
1007	L001441005	EHST-0008-304	8/31/2000	STW-6
975	L001441006	EHST-0008-305	8/31/2000	STW-3
963	L001441007	EHST-0008-306	8/31/2000	STW-2
954	L001441008	EHST-0008-307	8/31/2000	STW-1
943	L001441010	EHST-0008-309	8/31/2000	SPARGE 3
282	L001441011	EHST-0008-310	8/31/2000	DH-24
282	L001441012	EHST-0008-311	8/31/2000	DH-24
825	L001513001	EHST-0009-100	9/13/2000	EH-60
427	L001513002	EHST-0009-101	9/13/2000	DH-50
998	L001513003	EHST-0009-102	9/13/2000	STW-5
1007	L001513004	EHST-0009-103	9/13/2000	STW-6
975	L001513005	EHST-0009-104	9/13/2000	STW-3
964	L001513006	EHST-0009-105	9/13/2000	STW-2
964	L001513007	EHST-0009-106	9/13/2000	STW-2
987	L001513008	EHST-0009-107	9/13/2000	STW-4
954	L001513010	EHST-0009-109	9/13/2000	STW-1
943	L001513011	EHST-0009-110	9/13/2000	SPARGE 3
282	L001513012	EHST-0009-111	9/13/2000	DH-24
718	L001585001	EHST-0009-200	9/22/2000	EH-50
825	L001585002	EHST-0009-201	9/22/2000	EH-60
282	L001585003	EHST-0009-202	9/22/2000	DH-24
283	L001585004	EHST-0009-203	9/22/2000	DH-24
943	L001585006	EHST-0009-205	9/22/2000	SPARGE 3
825	L001649001	EHST-0010-100	10/3/2000	EH-60

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427	L001649002	EHST-0010-101	10/3/2000	DH-50
987	L001649003	EHST-0010-102	10/3/2000	STW-4
964	L001649004	EHST-0010-103	10/3/2000	STW-2
975	L001649005	EHST-0010-104	10/3/2000	STW-3
1007	L001649006	EHST-0010-105	10/3/2000	STW-6
999	L001649007	EHST-0010-106	10/3/2000	STW-5
955	L001649008	EHST-0010-107	10/3/2000	STW-1
283	L001649009	EHST-0010-108	10/3/2000	DH-24
283	L001649010	EHST-0010-109	10/3/2000	DH-24
943	L001649012	EHST-0010-111	10/3/2000	SPARGE 3
719	L001753001	EHST-0010-200	10/17/2000	EH-50
825	L001753002	EHST-0010-201	10/17/2000	EH-60
944	L001753003	EHST-0010-202	10/17/2000	SPARGE 3
283	L001753005	EHST-0010-204	10/17/2000	DH-24
283	L001753006	EHST-0010-205	10/17/2000	DH-24
719	L001861001	EHST-0011-100	11/3/2000	EH-50
825	L001861002	EHST-0011-101	11/3/2000	EH-60
427	L001861003	EHST-0011-102	11/3/2000	DH-50
987	L001861004	EHST-0011-103	11/3/2000	STW-4
955	L001861005	EHST-0011-104	11/3/2000	STW-1
944	L001861006	EHST-0011-105	11/3/2000	SPARGE 3
944	L001861007	EHST-0011-106	11/3/2000	SPARGE 3
283	L001861009	EHST-0011-108	11/3/2000	DH-24
284	L001873001	EHC-0011-127	11/8/2000	DH-24
301	L001873002	EHC-0011-129	11/8/2000	DH-28
327	L001873003	EHC-0011-132	11/7/2000	DH-3
538	L001873004	EHC-0011-136	11/6/2000	DH-7
555	L001873005	EHC-0011-137	11/7/2000	DH-8
719	L001873006	EHC-0011-142	11/6/2000	EH-50
760	L001873007	EHC-0011-145	11/6/2000	EH-53
786	L001873008	EHC-0011-147	11/6/2000	EH-57A
825	L001873009	EHC-0011-150	11/8/2000	EH-60
847	L001873010	EHC-0011-152	11/7/2000	EH-62
538	L001873011	EHC-0011-168	11/6/2000	DH-7
327	L001873013	EHC-0011-170	11/7/2000	DH-3
826	L001873015	EHC-0011-172	11/8/2000	EH-60
1060	L001873017	EHC-0011-115	11/8/2000	DH-13
206	L001873018	EHC-0011-118	11/7/2000	DH-17
1074	L001873019	EHC-0011-120	11/7/2000	DH-18
144	L001873020	EHC-0011-122	11/6/2000	DH-1
232	L001873021	EHC-0011-123	11/6/2000	DH-2
1087	L001873022	EHC-0011-124	11/8/2000	DH-21
259	L001873023	EHC-0011-125	11/8/2000	DH-22

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27	L001897002	EHC-0011-102	11/10/2000	APSD-11
36	L001897003	EHC-0011-103	11/10/2000	APSD-12
45	L001897004	EHC-0011-104	11/13/2000	APSD-13
7	L001897005	EHC-0011-105	11/10/2000	APSD-1
60	L001897006	EHC-0011-106	11/10/2000	APSD-2
74	L001897007	EHC-0011-107	11/10/2000	APSD-3
84	L001897008	EHC-0011-108	11/10/2000	APSD-4
106	L001897009	EHC-0011-109	11/10/2000	APSD-7
122	L001897010	EHC-0011-110	11/10/2000	APSD-8
132	L001897011	EHC-0011-111	11/10/2000	APSD-9
156	L001897012	EHC-0011-112	11/13/2000	DH-10A
168	L001897013	EHC-0011-113	11/10/2000	DH-11
185	L001897014	EHC-0011-116	11/10/2000	DH-14
218	L001897015	EHC-0011-121	11/13/2000	DH-19
269	L001897016	EHC-0011-126	11/13/2000	DH-23
1100	L001897017	EHC-0011-128	11/13/2000	DH-27
312	L001897018	EHC-0011-130	11/13/2000	DH-29
247	L001897019	EHC-0011-131	11/10/2000	DH-20
366	L001897020	EHC-0011-133	11/10/2000	DH-4
420	L001897021	EHC-0011-134	11/10/2000	DH-5
488	L001897022	EHC-0011-135	11/13/2000	DH-6
599	L001897023	EHC-0011-141	11/9/2000	EH-102
567	L001897024	EHC-0011-138	11/13/2000	DH-9
731	L001897025	EHC-0011-143	11/9/2000	EH-51
746	L001897026	EHC-0011-144	11/9/2000	EH-52
774	L001897027	EHC-0011-146	11/9/2000	EH-54
798	L001897028	EHC-0011-148	11/9/2000	EH-58
810	L001897029	EHC-0011-149	11/9/2000	EH-59
600	L001897030	EHC-0011-175	11/9/2000	EH-102
36	L001897032	EHC-0011-177	11/10/2000	APSD-12
218	L001897034	EHC-0011-179	11/13/2000	DH-19
1107	L001922001	IMMW-0011-100	11/16/2000	DH-30
1113	L001922002	IMMW-0011-101	11/16/2000	DH-31
1121	L001922003	IMMW-0011-103	11/16/2000	DH-33
1128	L001922004	IMMW-0011-104	11/16/2000	DH-34
1134	L001922005	IMMW-0011-105	11/16/2000	DH-35
335	L001922006	IMMW-0011-106	11/15/2000	DH-36
339	L001922007	IMMW-0011-107	11/16/2000	DH-37
1142	L001922008	IMMW-0011-108	11/16/2000	DH-38
344	L001922009	IMMW-0011-109	11/15/2000	DH-39
372	L001922010	IMMW-0011-110	11/15/2000	DH-40
374	L001922011	IMMW-0011-111	11/15/2000	DH-41

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382	L001922013	IMMW-0011-113	11/15/2000	DH-43
385	L001922014	IMMW-0011-114	11/15/2000	DH-44
388	L001922015	IMMW-0011-115	11/15/2000	DH-45
391	L001922016	IMMW-0011-116	11/15/2000	DH-46
396	L001922017	IMMW-0011-117	11/15/2000	DH-47
404	L001922018	IMMW-0011-119	11/15/2000	DH-49
427	L001922019	IMMW-0011-120	11/15/2000	DH-50
435	L001922020	IMMW-0011-121	11/15/2000	DH-51
440	L001922021	IMMW-0011-122	11/15/2000	DH-52
447	L001922022	IMMW-0011-123	11/15/2000	DH-53
453	L001922023	IMMW-0011-124	11/15/2000	DH-54
881	L001922024	IMMW-0011-125	11/17/2000	MW-1
893	L001922025	IMMW-0011-126	11/16/2000	MW-2
899	L001922026	IMMW-0011-127	11/16/2000	MW-3
905	L001922027	IMMW-0011-128	11/16/2000	MW-4
913	L001922028	IMMW-0011-129	11/17/2000	MW-5
919	L001922029	IMMW-0011-130	11/16/2000	MW-6
926	L001922030	IMMW-0011-131	11/17/2000	MW-7
404	L001922031	IMMW-0011-132	11/15/2000	DH-49
341	L001922035	IMMW-0011-136	11/16/2000	DH-37
826	L002044001	EHST-0012-100	12/20/2000	EH-60
955	L002044002	EHST-0012-101	12/20/2000	STW-1
427	L002044003	EHST-0012-102	12/20/2000	DH-50
987	L002044004	EHST-0012-103	12/20/2000	STW-4
999	L002044005	EHST-0012-104	12/20/2000	STW-5
964	L002044007	EHST-0012-106	12/20/2000	STW-2
1007	L002044008	EHST-0012-107	12/20/2000	STW-6
975	L002044009	EHST-0012-108	12/20/2000	STW-3
944	L002044010	EHST-0012-109	12/20/2000	SPARGE 3
944	L002044011	EHST-0012-110	12/20/2000	SPARGE 3
284	L002044012	EHST-0012-111	12/20/2000	DH-24
826	L010183002	EHST-0102-101	2/7/2001	EH-60
944	L010183003	EHST-0102-102	2/7/2001	SPARGE 3
284	L010183004	EHST-0102-103	2/7/2001	DH-24
428	L010183005	EHST-0102-104	2/7/2001	DH-50
428	L010183006	EHST-0102-105	2/7/2001	DH-50
987	L010183007	EHST-0102-106	2/7/2001	STW-4
999	L010183008	EHST-0102-107	2/7/2001	STW-5
955	L010183009	EHST-0102-108	2/7/2001	STW-1
206	L010183011	EHST-0102-110	2/7/2001	DH-17
1087	L010183012	EHST-0102-111	2/7/2001	DH-21
219	L010183013	EHST-0102-112	2/7/2001	DH-19R

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1136	L010608013	EHC-0105-138	5/2/2001	DH-35
1113	L010608014	EHC-0105-134	5/2/2001	DH-31
1122	L010608015	EHC-0105-136	5/2/2001	DH-33
1128	L010608016	EHC-0105-137	5/2/2001	DH-34
428	L010608017	EHC-0105-155	5/1/2001	DH-50
435	L010608018	EHC-0105-156	5/1/2001	DH-51
440	L010608019	EHC-0105-157	5/1/2001	DH-52
447	L010608020	EHC-0105-158	5/1/2001	DH-53
453	L010608021	EHC-0105-159	5/1/2001	DH-54
335	L010608022	EHC-0105-204	5/2/2001	DH-36
341	L010608024	EHC-0105-206	5/2/2001	DH-37
335	L010608025	EHC-0105-139	5/2/2001	DH-36
341	L010608026	EHC-0105-140	5/2/2001	DH-37
1142	L010608027	EHC-0105-141	5/2/2001	DH-38
375	L010608028	EHC-0105-145	5/2/2001	DH-41
382	L010608029	EHC-0105-147	5/2/2001	DH-43
388	L010608030	EHC-0105-149	5/1/2001	DH-45
391	L010608031	EHC-0105-150	5/1/2001	DH-46
396	L010608032	EHC-0105-151	5/1/2001	DH-47
404	L010608033	EHC-0105-153	5/1/2001	DH-49
732	L010655001	EHC-0105-169	5/7/2001	EH-51
366	L010655003	EHC-0105-154	5/7/2001	DH-4
774	L010655004	EHC-0105-172	5/4/2001	EH-54
746	L010655005	EHC-0105-170	5/4/2001	EH-52
798	L010655006	EHC-0105-174	5/7/2001	EH-58
269	L010655009	EHC-0105-126	5/8/2001	DH-23
122	L010655010	EHC-0105-110	5/8/2001	APSD-8
247	L010655011	EHC-0105-123	5/8/2001	DH-20
132	L010655012	EHC-0105-111	5/8/2001	APSD-9
219	L010655013	EHC-0105-121	5/8/2001	DH-19R
567	L010655014	EHC-0105-164	5/8/2001	DH-9
145	L010655015	EHC-0105-122	5/8/2001	DH-1
420	L010655018	EHC-0105-160	5/7/2001	DH-5
488	L010655019	EHC-0105-161	5/7/2001	DH-6
247	L010655020	EHC-0105-219	5/8/2001	DH-20
17	L010655021	EHC-0105-101	5/8/2001	APSD-10
27	L010655022	EHC-0105-102	5/8/2001	APSD-11
36	L010655023	EHC-0105-103	5/8/2001	APSD-12
45	L010655024	EHC-0105-104	5/8/2001	APSD-13
7	L010655025	EHC-0105-105	5/8/2001	APSD-1
61	L010655026	EHC-0105-106	5/8/2001	APSD-2
106	L010655027	EHC-0105-109	5/8/2001	APSD-7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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385	L010655028	EHC-0105-148	5/4/2001	DH-44
378	L010655029	EHC-0105-146	5/4/2001	DH-42
346	L010655031	EHC-0105-142	5/4/2001	DH-39
185	L010655032	EHC-0105-117	5/7/2001	DH-14
169	L010655033	EHC-0105-216	5/7/2001	DH-11
169	L010655034	EHC-0105-114	5/7/2001	DH-11
600	L010655035	EHC-0105-167	5/4/2001	EH-102
378	L010655036	EHC-0105-214	5/4/2001	DH-42
312	L010655053	EHC-0105-131	5/7/2001	DH-29
84	L010655054	EHC-0105-108	5/7/2001	APSD-4
372	L010655055	EHC-0105-144	5/4/2001	DH-40
810	L010655056	EHC-0105-175	5/4/2001	EH-59
156	L010655057	EHC-0105-113	5/7/2001	DH-10A
74	L010655058	EHC-0105-107	5/7/2001	APSD-3
555	L010691002	EHC-0105-226	5/10/2001	DH-8
719	L010691008	EHC-0105-168	5/9/2001	EH-50
786	L010691009	EHC-0105-173	5/9/2001	EH-57A
826	L010691010	EHC-0105-176	5/10/2001	EH-60
847	L010691011	EHC-0105-178	5/9/2001	EH-62
327	L010691013	EHC-0105-222	5/9/2001	DH-3
1061	L010691017	EHC-0105-116	5/11/2001	DH-13
197	L010691018	EHC-0105-118	5/10/2001	DH-16
1074	L010691019	EHC-0105-120	5/10/2001	DH-18
1087	L010691020	EHC-0105-124	5/11/2001	DH-21
259	L010691021	EHC-0105-125	5/10/2001	DH-22
284	L010691022	EHC-0105-127	5/10/2001	DH-24
1100	L010691023	EHC-0105-129	5/11/2001	DH-27
301	L010691024	EHC-0105-130	5/11/2001	DH-28
233	L010691025	EHC-0105-132	5/9/2001	DH-2
327	L010691026	EHC-0105-143	5/9/2001	DH-3
539	L010691027	EHC-0105-162	5/9/2001	DH-7
555	L010691028	EHC-0105-163	5/10/2001	DH-8
881	L010699001	EHC-0105-181	5/14/2001	MW-1
919	L010699002	EHC-0105-186	5/14/2001	MW-6
964	L010699003	EHC-0105-197	5/14/2001	STW-2
893	L010699004	EHC-0105-182	5/14/2001	MW-2
907	L010699005	EHC-0105-184	5/14/2001	MW-4
955	L010699006	EHC-0105-196	5/14/2001	STW-1
926	L010699008	EHC-0105-187	5/14/2001	MW-7
999	L010699009	EHC-0105-200	5/14/2001	STW-5
945	L010699010	EHC-0105-195	5/14/2001	SPARGE 3
913	L010699011	EHC-0105-185	5/14/2001	MW-5
988	L010699012	EHC-0105-199	5/14/2001	STW-4

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976	L010699013	EHC-0105-198	5/14/2001	STW-3
1008	L010699014	EHC-0105-201	5/14/2001	STW-6
964	L010699015	EHC-0105-232	5/14/2001	STW-2
899	L010699016	EHC-0105-183	5/14/2001	MW-3
219	L010699018	EHC-0105-234	5/15/2001	DH-19R
456	L011005001	EHC-0107-100	7/10/2001	DH-55
460	L011005002	EHC-0107-101	7/10/2001	DH-56
463	L011005003	EHC-0107-102	7/11/2001	DH-57
468	L011005004	EHC-0107-103	7/11/2001	DH-58
473	L011005005	EHC-0107-104	7/11/2001	DH-59
492	L011005006	EHC-0107-105	7/11/2001	DH-60
497	L011005007	EHC-0107-107	7/11/2001	DH-62
502	L011005008	EHC-0107-108	7/10/2001	DH-63
506	L011005009	EHC-0107-109	7/11/2001	DH-64
514	L011005010	EHC-0107-110	7/10/2001	DH-65
853	L011005011	EHC-0107-111	7/10/2001	EH-63
860	L011005012	EHC-0107-112	7/10/2001	EH-64
865	L011005013	EHC-0107-113	7/10/2001	EH-65
458	L011005014	EHC-0107-114	7/10/2001	DH-55
497	L011005017	EHC-0107-117	7/11/2001	DH-62
1013	L011184001	EHC-0108-100	8/10/2001	STW-7
1024	L011184002	EHC-0108-101	8/10/2001	STW-8
1038	L011184003	EHC-0108-102	8/10/2001	STW-9
506	L011254001	EHC-0108-200	8/27/2001	DH-64
428	L011367001	EHST-0109-100	9/26/2001	DH-50
988	L011367002	EHST-0109-101	9/26/2001	STW-4
999	L011367003	EHST-0109-102	9/26/2001	STW-5
1008	L011367004	EHST-0109-103	9/26/2001	STW-6
976	L011367005	EHST-0109-104	9/26/2001	STW-3
965	L011367006	EHST-0109-105	9/26/2001	STW-2
1038	L011367007	EHST-0109-106	9/26/2001	STW-9
1026	L011367008	EHST-0109-107	9/26/2001	STW-8
1013	L011367009	EHST-0109-108	9/26/2001	STW-7
955	L011367010	EHST-0109-109	9/26/2001	STW-1
945	L011367011	EHST-0109-110	9/26/2001	SPARGE 3
284	L011367012	EHST-0109-111	9/26/2001	DH-24
284	L011367013	EHST-0109-112	9/26/2001	DH-24
145	L011535001	EHC-0111-121	11/6/2001	DH-1
1107	L011535002	EHC-0111-131	11/8/2001	DH-30
1122	L011535003	EHC-0111-134	11/8/2001	DH-33
1136	L011535004	EHC-0111-136	11/8/2001	DH-35
341	L011535005	EHC-0111-138	11/8/2001	DH-37
346	L011535006	EHC-0111-140	11/7/2001	DH-39

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328	L011535007	EHC-0111-141	11/6/2001	DH-3
372	L011535008	EHC-0111-142	11/7/2001	DH-40
375	L011535009	EHC-0111-143	11/8/2001	DH-41
378	L011535010	EHC-0111-144	11/8/2001	DH-42
382	L011535011	EHC-0111-145	11/8/2001	DH-43
385	L011535012	EHC-0111-146	11/7/2001	DH-44
388	L011535013	EHC-0111-147	11/7/2001	DH-45
392	L011535014	EHC-0111-148	11/7/2001	DH-46
396	L011535015	EHC-0111-149	11/7/2001	DH-47
400	L011535016	EHC-0111-150	11/6/2001	DH-48
404	L011535017	EHC-0111-151	11/8/2001	DH-49
429	L011535018	EHC-0111-153	11/8/2001	DH-50
893	L011538001	EHC-0111-179	11/7/2001	MW-2
899	L011538002	EHC-0111-180	11/7/2001	MW-3
907	L011538003	EHC-0111-181	11/7/2001	MW-4
919	L011538004	EHC-0111-183	11/7/2001	MW-6
926	L011538005	EHC-0111-184	11/7/2001	MW-7
848	L011538006	EHC-0111-192	11/6/2001	EH-62
388	L011538009	EHC-0111-195	11/7/2001	DH-45
375	L011538012	EHC-0111-198	11/8/2001	DH-41
436	L011539001	EHC-0111-154	11/8/2001	DH-51
440	L011539002	EHC-0111-155	11/6/2001	DH-52
449	L011539003	EHC-0111-156	11/6/2001	DH-53
453	L011539004	EHC-0111-157	11/6/2001	DH-54
555	L011539005	EHC-0111-161	11/8/2001	DH-8
573	L011539006	EHC-0111-163	11/6/2001	EH-100
719	L011539007	EHC-0111-166	11/6/2001	EH-50
760	L011539008	EHC-0111-169	11/6/2001	EH-53
847	L011539009	EHC-0111-176	11/6/2001	EH-62
881	L011539010	EHC-0111-178	11/7/2001	MW-1
18	L011563001	EHC-0111-100	11/14/2001	APSD-10
27	L011563002	EHC-0111-101	11/14/2001	APSD-11
36	L011563003	EHC-0111-102	11/14/2001	APSD-12
45	L011563004	EHC-0111-103	11/14/2001	APSD-13
7	L011563005	EHC-0111-104	11/14/2001	APSD-1
61	L011563006	EHC-0111-105	11/14/2001	APSD-2
74	L011563007	EHC-0111-106	11/14/2001	APSD-3
85	L011563008	EHC-0111-107	11/14/2001	APSD-4
106	L011563009	EHC-0111-108	11/14/2001	APSD-7
122	L011563010	EHC-0111-109	11/14/2001	APSD-8
132	L011563011	EHC-0111-110	11/14/2001	APSD-9
157	L011563012	EHC-0111-111	11/13/2001	DH-10A
169	L011563013	EHC-0111-112	11/13/2001	DH-11

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1061	L011563014	EHC-0111-114	11/9/2001	DH-13
185	L011563015	EHC-0111-115	11/14/2001	DH-14
197	L011563016	EHC-0111-118	11/9/2001	DH-16
247	L011563017	EHC-0111-122	11/14/2001	DH-20
286	L011563018	EHC-0111-126	11/9/2001	DH-24
259	L011564001	EHC-0111-124	11/11/2001	DH-22
1087	L011564002	EHC-0111-123	11/9/2001	DH-21
1100	L011564003	EHC-0111-127	11/11/2001	DH-27
312	L011564004	EHC-0111-129	11/14/2001	DH-29
1113	L011564005	EHC-0111-132	11/11/2001	DH-31
1128	L011564006	EHC-0111-135	11/9/2001	DH-34
335	L011564007	EHC-0111-137	11/9/2001	DH-36
1142	L011564008	EHC-0111-139	11/11/2001	DH-38
366	L011564009	EHC-0111-152	11/14/2001	DH-4
420	L011564010	EHC-0111-158	11/14/2001	DH-5
488	L011564011	EHC-0111-159	11/13/2001	DH-6
539	L011564012	EHC-0111-160	11/13/2001	DH-7
585	L011564013	EHC-0111-164	11/13/2001	EH-101
600	L011564014	EHC-0111-165	11/13/2001	EH-102
732	L011564015	EHC-0111-167	11/13/2001	EH-51
746	L011564016	EHC-0111-168	11/13/2001	EH-52
774	L011564017	EHC-0111-170	11/13/2001	EH-54
786	L011564018	EHC-0111-171	11/13/2001	EH-57A
798	L011565001	EHC-0111-172	11/13/2001	EH-58
810	L011565002	EHC-0111-173	11/13/2001	EH-59
826	L011565003	EHC-0111-174	11/9/2001	EH-60
837	L011565004	EHC-0111-175	11/9/2001	EH-61
197	L011565007	EHC-0111-204	11/9/2001	DH-16
259	L011565009	EHC-0111-206	11/11/2001	DH-22
585	L011565011	EHC-0111-208	11/13/2001	EH-101
366	L011565013	EHC-0111-210	11/14/2001	DH-4
1074	L011573001	EHC-0111-119	11/15/2001	DH-18
219	L011573002	EHC-0111-120	11/15/2001	DH-19R
269	L011573003	EHC-0111-125	11/15/2001	DH-23
301	L011573004	EHC-0111-128	11/15/2001	DH-28
233	L011573005	EHC-0111-130	11/15/2001	DH-2
913	L011573006	EHC-0111-182	11/15/2001	MW-5
1074	L011573007	EHC-0111-213	11/15/2001	DH-18
945	L011587001	EHST-0111-200	11/20/2001	SPARGE 3
286	L011587002	EHST-0111-201	11/20/2001	DH-24
429	L011587003	EHST-0111-202	11/20/2001	DH-50
988	L011587004	EHST-0111-203	11/20/2001	STW-4
1026	L011587005	EHST-0111-204	11/20/2001	STW-8

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1000	L011587006	EHST-0111-205	11/20/2001	STW-5
1008	L011587007	EHST-0111-206	11/20/2001	STW-6
1014	L011587008	EHST-0111-207	11/20/2001	STW-7
976	L011587009	EHST-0111-208	11/20/2001	STW-3
965	L011587010	EHST-0111-209	11/20/2001	STW-2
956	L011587011	EHST-0111-210	11/20/2001	STW-1
1038	L011587012	EHST-0111-211	11/20/2001	STW-9
965	L011606001	EHST-0111-300	11/30/2001	STW-2
976	L011606002	EHST-0111-301	11/30/2001	STW-3
1014	L011606003	EHST-0111-302	11/30/2001	STW-7
1026	L011606004	EHST-0111-303	11/30/2001	STW-8
1038	L011606005	EHST-0111-304	11/30/2001	STW-9
965	L011614001	EHST-0112-100	12/4/2001	STW-2
977	L011614002	EHST-0112-101	12/4/2001	STW-3
1014	L011614003	EHST-0112-102	12/4/2001	STW-7
1026	L011614004	EHST-0112-103	12/4/2001	STW-8
1039	L011614005	EHST-0112-104	12/4/2001	STW-9
286	L011626001	EHST-0112-200	12/7/2001	DH-24
945	L011626002	EHST-0112-201	12/7/2001	SPARGE 3
429	L011626003	EHST-0112-202	12/7/2001	DH-50
988	L011626004	EHST-0112-203	12/7/2001	STW-4
1000	L011626005	EHST-0112-204	12/7/2001	STW-5
1008	L011626006	EHST-0112-205	12/7/2001	STW-6
966	L011626007	EHST-0112-206	12/7/2001	STW-2
1039	L011626008	EHST-0112-207	12/7/2001	STW-9
977	L011626009	EHST-0112-208	12/7/2001	STW-3
1027	L011626010	EHST-0112-209	12/7/2001	STW-8
1014	L011626011	EHST-0112-210	12/7/2001	STW-7
956	L011626012	EHST-0112-211	12/7/2001	STW-1
865	L011627001	EHC-0111-220	12/6/2001	EH-65
860	L011627002	EHC-0111-221	12/6/2001	EH-64
853	L011627003	EHC-0111-222	12/6/2001	EH-63
573	L011627004	EHC-0111-223	12/6/2001	EH-100
573	L011627005	EHC-0111-224	12/6/2001	EH-100
502	L011627006	EHC-0111-225	12/6/2001	DH-63
506	L011627008	EHC-0111-227	12/6/2001	DH-64
468	L011627009	EHC-0111-228	12/6/2001	DH-58
190	L011627011	EHC-0111-230	12/7/2001	DH-15
460	L011627012	EHC-0111-231	12/7/2001	DH-56
514	L011627013	EHC-0111-232	12/7/2001	DH-65
458	L011627014	EHC-0111-233	12/7/2001	DH-55
458	L011627015	EHC-0111-234	12/7/2001	DH-55
497	L011627016	EHC-0111-236	12/7/2001	DH-62

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494	L011627018	EHC-0111-239	12/7/2001	DH-60
473	L011627019	EHC-0111-240	12/7/2001	DH-59
429	L011652001	EHST-0112-300	12/14/2001	DH-50
989	L011652002	EHST-0112-301	12/14/2001	STW-4
1000	L011652003	EHST-0112-302	12/14/2001	STW-5
1009	L011652004	EHST-0112-303	12/14/2001	STW-6
966	L011652005	EHST-0112-304	12/14/2001	STW-2
1039	L011652006	EHST-0112-305	12/14/2001	STW-9
977	L011652007	EHST-0112-306	12/14/2001	STW-3
1027	L011652008	EHST-0112-307	12/14/2001	STW-8
1014	L011652009	EHST-0112-308	12/14/2001	STW-7
286	L011661001	EHST-0112-400	12/19/2001	DH-24
946	L011661002	EHST-0112-401	12/19/2001	SPARGE 3
429	L011661003	EHST-0112-402	12/19/2001	DH-50
989	L011661004	EHST-0112-403	12/19/2001	STW-4
1039	L011661005	EHST-0112-404	12/19/2001	STW-9
966	L011661006	EHST-0112-405	12/19/2001	STW-2
1000	L011661007	EHST-0112-406	12/19/2001	STW-5
1009	L011661008	EHST-0112-407	12/19/2001	STW-6
977	L011661009	EHST-0112-408	12/19/2001	STW-3
1027	L011661010	EHST-0112-409	12/19/2001	STW-8
1015	L011661011	EHST-0112-410	12/19/2001	STW-7
956	L011661012	EHST-0112-411	12/19/2001	STW-1
429	L011677001	EHST-0112-500	12/27/2001	DH-50
989	L011677002	EHST-0112-501	12/27/2001	STW-4
1000	L011677003	EHST-0112-502	12/27/2001	STW-5
1009	L011677004	EHST-0112-503	12/27/2001	STW-6
966	L011677005	EHST-0112-504	12/27/2001	STW-2
1039	L011677006	EHST-0112-505	12/27/2001	STW-9
977	L011677007	EHST-0112-506	12/27/2001	STW-3
1027	L011677008	EHST-0112-507	12/27/2001	STW-8
1015	L011677009	EHST-0112-508	12/27/2001	STW-7
946	L020024001	EHST-0201-109	1/10/2002	SPARGE 3
287	L020024002	EHST-0201-110	1/10/2002	DH-24
430	L020024003	EHST-0201-111	1/11/2002	DH-50
956	L020025001	EHST-0201-100	1/10/2002	STW-1
1015	L020025002	EHST-0201-101	1/10/2002	STW-7
1027	L020025003	EHST-0201-102	1/10/2002	STW-8
989	L020025004	EHST-0201-103	1/10/2002	STW-4
1001	L020025005	EHST-0201-104	1/10/2002	STW-5
966	L020025006	EHST-0201-105	1/10/2002	STW-2
1040	L020025007	EHST-0201-106	1/10/2002	STW-9
978	L020025008	EHST-0201-107	1/10/2002	STW-3

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1009	L020025009	EHST-0201-108	1/10/2002	STW-6
430	L020027001	EHST-0201-200	1/16/2002	DH-50
1028	L020027002	EHST-0201-201	1/16/2002	STW-8
1015	L020027003	EHST-0201-202	1/16/2002	STW-7
989	L020027004	EHST-0201-203	1/16/2002	STW-4
1001	L020027005	EHST-0201-204	1/16/2002	STW-5
1040	L020027006	EHST-0201-205	1/16/2002	STW-9
967	L020027007	EHST-0201-206	1/16/2002	STW-2
978	L020027008	EHST-0201-207	1/16/2002	STW-3
1009	L020027009	EHST-0201-208	1/16/2002	STW-6
1009	L020027010	EHST-0201-209	1/16/2002	STW-6
956	L020042001	EHST-0201-300	1/23/2002	STW-1
1015	L020042002	EHST-0201-301	1/23/2002	STW-7
1028	L020042003	EHST-0201-302	1/23/2002	STW-8
989	L020042004	EHST-0201-303	1/23/2002	STW-4
1001	L020042005	EHST-0201-304	1/23/2002	STW-5
1010	L020042006	EHST-0201-305	1/23/2002	STW-6
978	L020042007	EHST-0201-306	1/23/2002	STW-3
1040	L020042008	EHST-0201-307	1/23/2002	STW-9
967	L020042009	EHST-0201-308	1/23/2002	STW-2
430	L020042010	EHST-0201-309	1/23/2002	DH-50
946	L020042011	EHST-0201-310	1/23/2002	SPARGE 3
287	L020042012	EHST-0201-311	1/23/2002	DH-24
287	L020042013	EHST-0201-312	1/23/2002	DH-24
287	L020075001	EHST-0202-400	2/5/2002	DH-24
946	L020075002	EHST-0202-401	2/5/2002	SPARGE 3
430	L020075003	EHST-0202-402	2/5/2002	DH-50
990	L020075004	EHST-0202-403	2/5/2002	STW-4
1001	L020075005	EHST-0202-404	2/5/2002	STW-5
1010	L020075006	EHST-0202-405	2/5/2002	STW-6
978	L020075007	EHST-0202-406	2/5/2002	STW-3
1040	L020075008	EHST-0202-407	2/5/2002	STW-9
967	L020075009	EHST-0202-408	2/5/2002	STW-2
1015	L020075010	EHST-0202-409	2/5/2002	STW-7
1016	L020075011	EHST-0202-410	2/5/2002	STW-7
1028	L020075012	EHST-0202-411	2/5/2002	STW-8
957	L020075013	EHST-0202-412	2/5/2002	STW-1
1016	L020096001	EHST-0202-500	2/12/2002	STW-7
1028	L020096002	EHST-0202-501	2/12/2002	STW-8
967	L020096003	EHST-0202-502	2/12/2002	STW-2
1040	L020096004	EHST-0202-503	2/12/2002	STW-9
978	L020096005	EHST-0202-504	2/12/2002	STW-3
967	L020096006	EHST-0202-600	2/13/2002	STW-2

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1040	L020096007	EHST-0202-601	2/13/2002	STW-9
978	L020096008	EHST-0202-602	2/13/2002	STW-3
1028	L020096009	EHST-0202-603	2/13/2002	STW-8
1016	L020096010	EHST-0202-604	2/13/2002	STW-7
573	L020096011	EHC-0202-100	2/13/2002	EH-100
1041	L020101001	EHST-0202-700	2/14/2002	STW-9
967	L020101002	EHST-0202-701	2/14/2002	STW-2
979	L020101003	EHST-0202-702	2/14/2002	STW-3
1028	L020101004	EHST-0202-703	2/14/2002	STW-8
1016	L020101005	EHST-0202-704	2/14/2002	STW-7
1041	L020101006	EHST-0202-800	2/15/2002	STW-9
968	L020101007	EHST-0202-801	2/15/2002	STW-2
979	L020101008	EHST-0202-802	2/15/2002	STW-3
1029	L020101009	EHST-0202-803	2/15/2002	STW-8
1016	L020101010	EHST-0202-804	2/15/2002	STW-7
287	L020110001	EHST-0202-900	2/19/2002	DH-24
946	L020110002	EHST-0202-901	2/19/2002	SPARGE 3
430	L020110003	EHST-0202-902	2/19/2002	DH-50
1041	L020110004	EHST-0202-903	2/19/2002	STW-9
968	L020110005	EHST-0202-904	2/19/2002	STW-2
979	L020110006	EHST-0202-905	2/19/2002	STW-3
1010	L020110007	EHST-0202-906	2/19/2002	STW-6
1001	L020110008	EHST-0202-907	2/19/2002	STW-5
990	L020110009	EHST-0202-908	2/19/2002	STW-4
1029	L020110010	EHST-0202-909	2/19/2002	STW-8
1029	L020110011	EHST-0202-910	2/19/2002	STW-8
1016	L020110012	EHST-0202-911	2/19/2002	STW-7
957	L020110013	EHST-0202-912	2/19/2002	STW-1
1017	L020118001	EHST-0202-100	2/22/2002	STW-7
1029	L020118002	EHST-0202-101	2/22/2002	STW-8
1001	L020118003	EHST-0202-102	2/22/2002	STW-5
1041	L020118004	EHST-0202-103	2/22/2002	STW-9
968	L020118005	EHST-0202-104	2/22/2002	STW-2
979	L020118006	EHST-0202-105	2/22/2002	STW-3
573	L020126001	EHC-0202-200B	2/26/2002	EH-100
573	L020126002	EHC-0202-200T	2/26/2002	EH-100
957	L020142001	EHST-0202-200	2/27/2002	STW-1
1029	L020142002	EHST-0202-201	2/27/2002	STW-8
1017	L020142003	EHST-0202-202	2/27/2002	STW-7
430	L020142004	EHST-0202-203	2/27/2002	DH-50
990	L020142005	EHST-0202-204	2/27/2002	STW-4
1002	L020142006	EHST-0202-205	2/27/2002	STW-5
1010	L020142007	EHST-0202-206	2/27/2002	STW-6

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1041	L020142009	EHST-0202-208	2/27/2002	STW-9
968	L020142010	EHST-0202-209	2/27/2002	STW-2
287	L020278001	EHST-0204-100	4/19/2002	DH-24
946	L020278002	EHST-0204-101	4/19/2002	SPARGE 3
1041	L020278003	EHST-0204-102	4/19/2002	STW-9
968	L020278004	EHST-0204-103	4/19/2002	STW-2
1002	L020278005	EHST-0204-104	4/19/2002	STW-5
990	L020278006	EHST-0204-105	4/19/2002	STW-4
1010	L020278007	EHST-0204-106	4/19/2002	STW-6
979	L020278008	EHST-0204-107	4/19/2002	STW-3
1029	L020278009	EHST-0204-108	4/19/2002	STW-8
1017	L020278010	EHST-0204-109	4/19/2002	STW-7
957	L020278011	EHST-0204-110	4/19/2002	STW-1
288	L020364001	EHST-0205-100	5/10/2002	DH-24
947	L020364002	EHST-0205-101	5/10/2002	SPARGE 3
1002	L020364003	EHST-0205-102	5/10/2002	STW-5
990	L020364004	EHST-0205-103	5/10/2002	STW-4
1030	L020364005	EHST-0205-104	5/10/2002	STW-8
1017	L020364006	EHST-0205-105	5/10/2002	STW-7
786	L020370001	EHC-0205-189	5/17/2002	EH-57A
761	L020370002	EHC-0205-187	5/17/2002	EH-53
848	L020370003	EHC-0205-194	5/17/2002	EH-62
848	L020370004	EHC-0205-228B	5/17/2002	EH-62
855	L020370005	EHC-0205-195	5/17/2002	EH-63
860	L020370006	EHC-0205-196	5/17/2002	EH-64
867	L020370007	EHC-0205-197	5/17/2002	EH-65
899	L020370008	EHC-0205-209	5/20/2002	MW-3
907	L020370009	EHC-0205-210	5/20/2002	MW-4
881	L020370010	EHC-0205-207	5/20/2002	MW-1
893	L020370011	EHC-0205-208	5/20/2002	MW-2
893	L020370012	EHC-0205-228C	5/20/2002	MW-2
919	L020370013	EHC-0205-212	5/20/2002	MW-6
913	L020370014	EHC-0205-211	5/20/2002	MW-5
74	L020396001	EHC-0205-108	5/24/2002	APSD-3
85	L020396002	EHC-0205-109	5/24/2002	APSD-4
248	L020396003	EHC-0205-127	5/24/2002	DH-20
157	L020396004	EHC-0205-116	5/29/2002	DH-10A
190	L020396005	EHC-0205-121	5/30/2002	DH-15
206	L020396006	EHC-0205-123	5/30/2002	DH-17
1074	L020396007	EHC-0205-124	5/29/2002	DH-18
219	L020396008	EHC-0205-125	5/30/2002	DH-19R
145	L020396009	EHC-0205-126	5/29/2002	DH-1

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1089	L020396010	EHC-0205-128	5/30/2002	DH-21
261	L020396011	EHC-0205-129	5/30/2002	DH-22
269	L020396012	EHC-0205-130	5/30/2002	DH-23
810	L020396013	EHC-0205-191	6/1/2002	EH-59
600	L020396014	EHC-0205-183	6/1/2002	EH-102
746	L020396015	EHC-0205-186	6/1/2002	EH-52
575	L020396016	EHC-0205-181	6/1/2002	EH-100
719	L020396017	EHC-0205-184	6/1/2002	EH-50
440	L020397001	EHC-0205-160	5/29/2002	DH-52
449	L020397002	EHC-0205-161	5/29/2002	DH-53
539	L020397003	EHC-0205-176	5/29/2002	DH-7
555	L020397004	EHC-0205-177	5/29/2002	DH-8
328	L020397005	EHC-0205-229	5/29/2002	DH-3
301	L020397007	EHC-0205-133	5/30/2002	DH-28
1107	L020397008	EHC-0205-136	5/30/2002	DH-30
1136	L020397009	EHC-0205-141	5/30/2002	DH-35
341	L020397010	EHC-0205-143	5/30/2002	DH-37
346	L020397011	EHC-0205-145	5/29/2002	DH-39
328	L020397012	EHC-0205-146	5/29/2002	DH-3
372	L020397013	EHC-0205-147	5/29/2002	DH-40
375	L020397014	EHC-0205-148	5/29/2002	DH-41
378	L020397015	EHC-0205-149	5/29/2002	DH-42
385	L020397016	EHC-0205-151	5/29/2002	DH-44
383	L020398001	EHC-0205-150	5/30/2002	DH-43
431	L020398002	EHC-0205-158	5/30/2002	DH-50
436	L020398003	EHC-0205-159	5/30/2002	DH-51
453	L020398004	EHC-0205-162	5/30/2002	DH-54
473	L020398005	EHC-0205-167	5/30/2002	DH-59
494	L020398006	EHC-0205-169	5/30/2002	DH-60
498	L020398007	EHC-0205-171	5/30/2002	DH-62
502	L020398008	EHC-0205-172	5/30/2002	DH-63
506	L020398009	EHC-0205-173	5/30/2002	DH-64
488	L020398010	EHC-0205-175	5/30/2002	DH-6
454	L020398011	EHC-0205-231	5/30/2002	DH-54
233	L020412001	EHC-0205-135	5/31/2002	DH-2
458	L020412002	EHC-0205-163	5/31/2002	DH-55
514	L020412003	EHC-0205-174	5/31/2002	DH-65
514	L020412004	EHC-0205-233	5/31/2002	DH-65
460	L020412005	EHC-0205-164	5/31/2002	DH-56
389	L020412006	EHC-0205-152	5/31/2002	DH-45
392	L020412007	EHC-0205-153	5/31/2002	DH-46
396	L020412008	EHC-0205-154	5/31/2002	DH-47
169	L020412009	EHC-0205-117	5/31/2002	DH-11

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185	L020412010	EHC-0205-120	5/31/2002	DH-14
366	L020412011	EHC-0205-157	5/31/2002	DH-4
106	L020412012	EHC-0205-110	5/31/2002	APSD-7
122	L020412013	EHC-0205-111	5/31/2002	APSD-8
27	L020412014	EHC-0205-103	5/31/2002	APSD-11
36	L020412015	EHC-0205-104	5/31/2002	APSD-12
132	L020412016	EHC-0205-112	5/31/2002	APSD-9
18	L020412017	EHC-0205-102	5/31/2002	APSD-10
61	L020412018	EHC-0205-107	5/31/2002	APSD-2
7	L020412019	EHC-0205-106	5/31/2002	APSD-1
45	L020412020	EHC-0205-105	5/31/2002	APSD-13
420	L020412021	EHC-0205-168	5/31/2002	DH-5
1100	L020412023	EHC-0205-132	6/1/2002	DH-27
1101	L020412024	EHC-0205-235	6/1/2002	DH-27
1142	L020412025	EHC-0205-144	6/1/2002	DH-38
1128	L020412026	EHC-0205-140	6/1/2002	DH-34
1113	L020412027	EHC-0205-137	6/1/2002	DH-31
335	L020412028	EHC-0205-142	6/1/2002	DH-36
288	L020412029	EHC-0205-131	6/1/2002	DH-24
826	L020412030	EHC-0205-192	6/1/2002	EH-60
837	L020412031	EHC-0205-193	6/1/2002	EH-61
312	L020412032	EHC-0205-134	6/1/2002	DH-29
1061	L020412033	EHC-0205-119	6/1/2002	DH-13
468	L020412034	EHC-0205-166	6/1/2002	DH-58
774	L020412035	EHC-0205-188	6/1/2002	EH-54
799	L020412036	EHC-0205-190	6/1/2002	EH-58
732	L020419001	EHC-0205-185	6/5/2002	EH-51
585	L020419002	EHC-0205-182	6/5/2002	EH-101
288	L020426001	EHST-0206-100	6/6/2002	DH-24
990	L020426002	EHST-0206-101	6/6/2002	STW-4
969	L020426003	EHST-0206-102	6/6/2002	STW-2
1002	L020426004	EHST-0206-103	6/6/2002	STW-5
1042	L020426005	EHST-0206-104	6/6/2002	STW-9
1011	L020426006	EHST-0206-105	6/6/2002	STW-6
980	L020426007	EHST-0206-106	6/6/2002	STW-3
1030	L020426008	EHST-0206-107	6/6/2002	STW-8
1017	L020426009	EHST-0206-108	6/6/2002	STW-7
1030	L020591001	EHST-0207-100	7/17/2002	STW-8
1017	L020591002	EHST-0207-101	7/17/2002	STW-7
980	L020591003	EHST-0207-103	7/17/2002	STW-3
991	L020591004	EHST-0207-104	7/17/2002	STW-4
969	L020591005	EHST-0207-105	7/17/2002	STW-2
1018	L020591006	EHST-0207-200	7/19/2002	STW-7

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1018	L020594001	EHST-0207-300	7/24/2002	STW-7
1030	L020594002	EHST-0207-301	7/24/2002	STW-8
969	L020594003	EHST-0207-302	7/24/2002	STW-2
991	L020594004	EHST-0207-303	7/24/2002	STW-4
980	L020594005	EHST-0207-304	7/24/2002	STW-3
1030	L020594006	EHST-0207-400	7/25/2002	STW-8
1018	L020594007	EHST-0207-401	7/25/2002	STW-7
1018	L020606001	EHST-0207-500	7/31/2002	STW-7
1031	L020606002	EHST-0207-501	7/31/2002	STW-8
980	L020606003	EHST-0207-502	7/31/2002	STW-3
969	L020606004	EHST-0207-503	7/31/2002	STW-2
991	L020606005	EHST-0207-504	7/31/2002	STW-4
1018	L020606006	EHST-0207-600	8/1/2002	STW-7
1031	L020606007	EHST-0207-601	8/1/2002	STW-8
288	L020638001	EHST-0208-100	8/8/2002	DH-24
947	L020638002	EHST-0208-101	8/8/2002	SPARGE 3
958	L020638003	EHST-0208-102	8/8/2002	STW-1
1031	L020638004	EHST-0208-103	8/8/2002	STW-8
1018	L020638005	EHST-0208-104	8/8/2002	STW-7
1042	L020638006	EHST-0208-105	8/8/2002	STW-9
969	L020638007	EHST-0208-106	8/8/2002	STW-2
1002	L020638008	EHST-0208-107	8/8/2002	STW-5
991	L020642001	EHST-0208-108	8/8/2002	STW-4
431	L020642002	EHST-0208-109	8/8/2002	DH-50
980	L020642003	EHST-0208-110	8/8/2002	STW-3
1011	L020642004	EHST-0208-111	8/8/2002	STW-6
1031	L020642005	EHST-0208-200	8/9/2002	STW-8
1019	L020642006	EHST-0208-201	8/9/2002	STW-7
1019	L020650001	EHST-0208-300	8/14/2002	STW-7
1031	L020650002	EHST-0208-301	8/14/2002	STW-8
981	L020650003	EHST-0208-302	8/14/2002	STW-3
969	L020650004	EHST-0208-303	8/14/2002	STW-2
991	L020650005	EHST-0208-304	8/14/2002	STW-4
1019	L020650006	EHST-0208-400	8/15/2002	STW-7
1031	L020650007	EHST-0208-401	8/15/2002	STW-8
1002	L020685001	EHST-0208-107RR	8/8/2002	STW-5
1019	L020686001	EHST-0208-500	8/22/2002	STW-7
1032	L020686002	EHST-0208-501	8/22/2002	STW-8
981	L020686003	EHST-0208-503	8/22/2002	STW-3
991	L020686004	EHST-0208-504	8/22/2002	STW-4
970	L020686005	EHST-0208-502	8/22/2002	STW-2
1019	L020705001	EHST-0208-600	8/28/2002	STW-7

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981	L020705004	EHST-0208-603	8/28/2002	STW-3
992	L020705005	EHST-0208-604	8/28/2002	STW-4
1019	L020731001	EHST-0209-100	9/4/2002	STW-7
1032	L020731002	EHST-0209-101	9/4/2002	STW-8
970	L020731003	EHST-0209-102	9/4/2002	STW-2
981	L020731004	EHST-0209-103	9/5/2002	STW-3
992	L020731005	EHST-0209-104	9/4/2002	STW-4
1020	L020749001	EHST-0209-200	9/6/2002	STW-7
1032	L020749002	EHST-0209-201	9/6/2002	STW-8
288	L020775001	EHST-0209-300	9/12/2002	DH-24
1020	L020775002	EHST-0209-301	9/12/2002	STW-7
1032	L020775003	EHST-0209-302	9/12/2002	STW-8
1020	L020785001	EHST-0209-400	9/19/2002	STW-7
1032	L020785002	EHST-0209-401	9/19/2002	STW-8
992	L020785003	EHST-0209-402	9/19/2002	STW-4
970	L020785004	EHST-0209-403	9/19/2002	STW-2
981	L020785005	EHST-0209-404	9/19/2002	STW-3
1020	L020785006	EHST-0209-500	9/20/2002	STW-7
1033	L020785007	EHST-0209-501	9/20/2002	STW-8
288	L020829001	EHST-0209-600	9/26/2002	DH-24
947	L020829002	EHST-0209-601	9/26/2002	SPARGE 3
431	L020829003	EHST-0209-602	9/26/2002	DH-50
1011	L020829004	EHST-0209-603	9/26/2002	STW-6
982	L020829005	EHST-0209-604	9/26/2002	STW-3
1003	L020829006	EHST-0209-605	9/26/2002	STW-5
1042	L020829007	EHST-0209-606	9/26/2002	STW-9
970	L020829008	EHST-0209-607	9/26/2002	STW-2
289	L020829009	EHST-0209-600A	9/26/2002	DH-24
1003	L020829010	EHST-0209-608	9/26/2002	STW-5
1033	L020829011	EHST-0209-609	9/26/2002	STW-8
1020	L020829012	EHST-0209-610	9/26/2002	STW-7
992	L020845001	EHST-0210-100	10/4/2002	STW-4
970	L020845002	EHST-0210-101	10/4/2002	STW-2
982	L020845003	EHST-0210-104	10/4/2002	STW-3
1033	L020845004	EHST-0210-102	10/4/2002	STW-8
1020	L020845005	EHST-0210-103	10/4/2002	STW-7
1021	L020845006	EHST-0210-200	10/5/2002	STW-7
1033	L020845007	EHST-0210-201	10/5/2002	STW-8
522	L020846001	EHIM-0210-200	10/7/2002	DH-67
619	L020846002	EHIM-0210-201	10/7/2002	EH-106
992	L020869001	EHST-0210-300	10/17/2002	STW-4

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971	L020869002	EHST-0210-301	10/17/2002	STW-2
981	L020869003	EHST-0210-302	9/17/2002	STW-3
1033	L020869004	EHST-0210-303	10/17/2002	STW-8
1021	L020869005	EHST-0210-304	10/17/2002	STW-7
673	L020870001	EHIM-0210-101	10/15/2002	EH-114
992	L020888001	EHST-0210-400	10/23/2002	STW-4
971	L020888002	EHST-0210-401	10/23/2002	STW-2
982	L020888003	EHST-0210-402	10/23/2002	STW-3
1033	L020888004	EHST-0210-403	10/23/2002	STW-8
1021	L020888005	EHST-0210-404	10/23/2002	STW-7
681	L020894001	EHIM-0210-300	10/24/2002	EH-115
666	L020894002	EHIM-0210-301	10/24/2002	EH-113
993	L020915001	EHST-0210-500	10/31/2002	STW-4
971	L020915002	EHST-0210-501	10/31/2002	STW-2
982	L020915003	EHST-0210-502	10/31/2002	STW-3
1034	L020915004	EHST-0210-503	10/31/2002	STW-8
1021	L020915005	EHST-0210-504	10/31/2002	STW-7
506	L020925001	EHC-0211-100	11/4/2002	DH-64
637	L020925002	EHC-0211-101	11/5/2002	EH-109
506	L020926001	EHMP-0211-100	11/5/2002	DH-64
507	L020926002	EHMP-0211-101	11/5/2002	DH-64
507	L020926003	EHMP-0211-102	11/5/2002	DH-64
507	L020926004	EHMP-0211-103	11/5/2002	DH-64
636	L020926005	EHMP-0211-200	11/5/2002	EH-109
636	L020926006	EHMP-0211-201	11/5/2002	EH-109
636	L020926007	EHMP-0211-202	11/5/2002	EH-109
636	L020926008	EHMP-0211-203	11/5/2002	EH-109
636	L020926009	EHMP-0211-204	11/5/2002	EH-109
636	L020926010	EHMP-0211-205	11/5/2002	EH-109
621	L020940001	EHC-0211-226	11/11/2002	EH-106
651	L020940002	EHC-0211-227	11/11/2002	EH-111
576	L020940003	EHC-0211-177	11/12/2002	EH-100
619	L020941001	EHMP-0211-300	11/11/2002	EH-106
621	L020941002	EHMP-0211-301	11/11/2002	EH-106
621	L020941003	EHMP-0211-302	11/11/2002	EH-106
621	L020941004	EHMP-0211-303	11/11/2002	EH-106
621	L020941005	EHMP-0211-304	11/11/2002	EH-106
621	L020941006	EHMP-0211-305	11/11/2002	EH-106
649	L020941007	EHMP-0211-400	11/11/2002	EH-111
649	L020941008	EHMP-0211-401	11/11/2002	EH-111
649	L020941009	EHMP-0211-402	11/11/2002	EH-111
651	L020941010	EHMP-0211-403	11/11/2002	EH-111
575	L020941011	EHMP-0211-500	11/12/2002	EH-100

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575	L020941013	EHMP-0211-502	11/12/2002	EH-100
575	L020941014	EHMP-0211-503	11/12/2002	EH-100
575	L020941015	EHMP-0211-504	11/12/2002	EH-100
993	L020943001	EHC-0211-215	11/13/2002	STW-4
1003	L020943002	EHC-0211-216	11/13/2002	STW-5
1011	L020943003	EHC-0211-217	11/13/2002	STW-6
982	L020943004	EHC-0211-214	11/13/2002	STW-3
1042	L020943005	EHC-0211-220	11/13/2002	STW-9
971	L020943006	EHC-0211-213	11/13/2002	STW-2
1021	L020943007	EHC-0211-218	11/13/2002	STW-7
431	L020943008	EHC-0211-156	11/13/2002	DH-50
958	L020943009	EHC-0211-212	11/13/2002	STW-1
947	L020943010	EHC-0211-211	11/13/2002	SPARGE 3
404	L020943011	EHC-0211-154	11/13/2002	DH-49
436	L020943012	EHC-0211-157	11/13/2002	DH-51
1003	L020943013	EHC-0211-239A	11/13/2002	STW-5
107	L020948001	EHC-0211-110	11/13/2002	APSD-7
122	L020948002	EHC-0211-111	11/13/2002	APSD-8
123	L020948003	EHC-0211-238	11/13/2002	APSD-8
27	L020948004	EHC-0211-221	11/13/2002	APSD-11
36	L020948005	EHC-0211-102	11/13/2002	APSD-12
18	L020948006	EHC-0211-171	11/13/2002	APSD-10
133	L020948007	EHC-0211-112	11/13/2002	APSD-9
85	L020948008	EHC-0211-109	11/13/2002	APSD-4
75	L020948009	EHC-0211-108	11/13/2002	APSD-3
61	L020948010	EHC-0211-107	11/13/2002	APSD-2
7	L020948011	EHC-0211-105	11/13/2002	APSD-1
45	L020948012	EHC-0211-103	11/13/2002	APSD-13
389	L020948013	EHC-0211-150	11/13/2002	DH-45
392	L020948014	EHC-0211-151	11/13/2002	DH-46
396	L020948015	EHC-0211-152	11/13/2002	DH-47
248	L020948016	EHC-0211-124	11/13/2002	DH-20
312	L020948018	EHC-0211-132	11/13/2002	DH-29
368	L020949001	EHC-0211-155	11/14/2002	DH-4
185	L020949002	EHC-0211-117	11/14/2002	DH-14
185	L020949003	EHC-0211-241	11/14/2002	DH-14
169	L020949004	EHC-0211-114	11/14/2002	DH-11
539	L020949005	EHC-0211-174	11/14/2002	DH-7
420	L020949006	EHC-0211-166	11/14/2002	DH-5
328	L020949007	EHC-0211-144	11/14/2002	DH-3
145	L020949008	EHC-0211-123	11/14/2002	DH-1
386	L020949009	EHC-0211-149	11/14/2002	DH-44

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346	L020949010	EHC-0211-143	11/14/2002	DH-39
372	L020949011	EHC-0211-145	11/14/2002	DH-40
494	L020949012	EHC-0211-167	11/14/2002	DH-60
498	L020949013	EHC-0211-169	11/14/2002	DH-62
556	L020949014	EHC-0211-175	11/14/2002	DH-8
383	L020949015	EHC-0211-148	11/14/2002	DH-43
261	L020949016	EHC-0211-126	11/14/2002	DH-22
378	L020949017	EHC-0211-147	11/14/2002	DH-42
375	L020949018	EHC-0211-146	11/14/2002	DH-41
926	L020950001	EHC-0211-202	11/15/2002	MW-7
913	L020950002	EHC-0211-200	11/15/2002	MW-5
907	L020950003	EHC-0211-199	11/15/2002	MW-4
881	L020950004	EHC-0211-196	11/15/2002	MW-1
893	L020950005	EHC-0211-197	11/15/2002	MW-2
899	L020950006	EHC-0211-198	11/15/2002	MW-3
921	L020950007	EHC-0211-201	11/15/2002	MW-6
233	L020950008	EHC-0211-133	11/15/2002	DH-2
458	L020950009	EHC-0211-161	11/15/2002	DH-55
516	L020950010	EHC-0211-172	11/15/2002	DH-65
462	L020950011	EHC-0211-162	11/15/2002	DH-56
1108	L020950012	EHC-0211-134	11/15/2002	DH-30
1108	L020950013	EHC-0211-243	11/15/2002	DH-30
1122	L020950014	EHC-0211-137	11/15/2002	DH-33
341	L020950015	EHC-0211-141	11/15/2002	DH-37
301	L020950016	EHC-0211-131	11/15/2002	DH-28
1089	L020950017	EHC-0211-125	11/15/2002	DH-21
1136	L020950018	EHC-0211-139	11/15/2002	DH-35
517	L020950019	EHC-0211-236	11/15/2002	DH-66
269	L020950020	EHC-0211-127	11/15/2002	DH-23
157	L020951002	EHC-0211-113	11/16/2002	DH-10A
190	L020951003	EHC-0211-118	11/16/2002	DH-15
488	L020951004	EHC-0211-173	11/16/2002	DH-6
522	L020951005	EHC-0211-237	11/16/2002	DH-67
502	L020951006	EHC-0211-192	11/16/2002	DH-63
454	L020951007	EHC-0211-160	11/16/2002	DH-54
608	L020951008	EHC-0211-234	11/16/2002	EH-103
837	L020951009	EHC-0211-190	11/16/2002	EH-61
720	L020951010	EHC-0211-180	11/16/2002	EH-50
613	L020951011	EHC-0211-235	11/16/2002	EH-104
681	L020951012	EHC-0211-231	11/16/2002	EH-115
219	L020951013	EHC-0211-122	11/16/2002	DH-19R
473	L020951014	EHC-0211-165	11/16/2002	DH-59
464	L020951015	EHC-0211-163	11/16/2002	DH-57

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468	L020956001	EHC-0211-164	11/16/2002	DH-58
1075	L020956002	EHC-0211-121	11/16/2002	DH-18
1075	L020956003	EHC-0211-245	11/16/2002	DH-18
1061	L020956004	EHC-0211-116	11/16/2002	DH-13
206	L020956005	EHC-0211-120	11/16/2002	DH-17
449	L020956006	EHC-0211-159	11/16/2002	DH-53
442	L020956007	EHC-0211-158	11/16/2002	DH-52
867	L020956009	EHC-0211-194	11/17/2002	EH-65
643	L020956010	EHC-0211-233	11/17/2002	EH-110
799	L020956011	EHC-0211-187	11/17/2002	EH-58
810	L020956012	EHC-0211-188	11/17/2002	EH-59
600	L020956013	EHC-0211-179	11/17/2002	EH-102
746	L020956015	EHC-0211-182	11/17/2002	EH-52
585	L020957001	EHC-0211-178	11/17/2002	EH-101
732	L020957002	EHC-0211-181	11/17/2002	EH-51
860	L020957003	EHC-0211-193	11/17/2002	EH-64
786	L020957004	EHC-0211-185	11/17/2002	EH-57A
675	L020957005	EHC-0211-230	11/17/2002	EH-114
666	L020957006	EHC-0211-239B	11/17/2002	EH-113
761	L020957007	EHC-0211-183	11/17/2002	EH-53
848	L020957008	EHC-0211-191	11/17/2002	EH-62
774	L020957009	EHC-0211-184	11/17/2002	EH-54
775	L020957010	EHC-0211-247	11/17/2002	EH-54
659	L020957011	EHC-0211-228	11/17/2002	EH-112
628	L020957012	EHC-0211-232	11/17/2002	EH-107
855	L020959001	EHC-0211-170	11/18/2002	EH-63
1101	L020959002	EHC-0211-130	11/18/2002	DH-27
1142	L020959003	EHC-0211-142	11/18/2002	DH-38
1128	L020959004	EHC-0211-138	11/18/2002	DH-34
1114	L020959005	EHC-0211-135	11/18/2002	DH-31
335	L020959006	EHC-0211-140	11/18/2002	DH-36
289	L020959007	EHC-0211-128	11/18/2002	DH-24
289	L020959008	EHC-0211-250	11/18/2002	DH-24
827	L020959009	EHC-0211-189	11/18/2002	EH-60
507	L021012001	EHDM-0212-100	12/11/2002	DH-64
507	L021012002	EHDM-0212-101	12/11/2002	DH-64
507	L021012003	EHDM-0212-102	12/11/2002	DH-64
508	L021012004	EHDM-0212-103	12/11/2002	DH-64
637	L021012005	EHDM-0212-200	12/11/2002	EH-109
637	L021012006	EHDM-0212-201	12/11/2002	EH-109
637	L021012007	EHDM-0212-202	12/11/2002	EH-109
637	L021012008	EHDM-0212-203	12/11/2002	EH-109
637	L021012009	EHDM-0212-204	12/11/2002	EH-109

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289	L021034001	EHST-0212-100	12/17/2002	DH-24
947	L021034002	EHST-0212-101	12/17/2002	SPARGE 3
1021	L021034003	EHST-0212-102	12/17/2002	STW-7
881	L030242001	AEH-0306-100	5/30/2003	MW-1
894	L030242002	AEH-0306-101	5/30/2003	MW-2
899	L030242003	AEH-0306-102	5/30/2003	MW-3
907	L030242004	AEH-0306-103	5/30/2003	MW-4
913	L030242005	AEH-0306-104	5/30/2003	MW-5
926	L030242006	AEH-0306-105	5/30/2003	MW-7
921	L030242007	AEH-0306-106	5/30/2003	MW-6
921	L030242008	AEH-0306-107	5/30/2003	MW-6
328	L030242009	AEH-0306-108	5/30/2003	DH-3
145	L030242010	AEH-0306-109	5/30/2003	DH-1
107	L030242011	AEH-0306-110	5/30/2003	APSD-7
18	L030242012	AEH-0306-111	5/30/2003	APSD-10
7	L030242013	AEH-0306-112	5/30/2003	APSD-1
61	L030242014	AEH-0306-113	5/30/2003	APSD-2
75	L030242015	AEH-0306-114	5/30/2003	APSD-3
46	L030242016	AEH-0306-115	5/30/2003	APSD-13
389	L030242017	AEH-0306-116	5/30/2003	DH-45
392	L030242018	AEH-0306-117	5/30/2003	DH-46
396	L030242019	AEH-0306-118	5/30/2003	DH-47
539	L030243001	AEH-0306-120	5/31/2003	DH-7
169	L030243002	AEH-0306-121	5/31/2003	DH-11
368	L030243003	AEH-0306-122	5/31/2003	DH-4
421	L030243004	AEH-0306-123	5/31/2003	DH-5
421	L030243005	AEH-0306-124	5/31/2003	DH-5
312	L030243006	AEH-0306-125	5/31/2003	DH-29
248	L030243007	AEH-0306-126	5/31/2003	DH-20
386	L030243009	AEH-0306-128	5/31/2003	DH-44
372	L030243010	AEH-0306-129	5/31/2003	DH-40
346	L030243011	AEH-0306-130	5/31/2003	DH-39
261	L030243012	AEH-0306-131	5/31/2003	DH-22
494	L030243013	AEH-0306-132	5/31/2003	DH-60
383	L030243014	AEH-0306-133	5/31/2003	DH-43
498	L030243015	AEH-0306-134	5/31/2003	DH-62
556	L030243016	AEH-0306-135	5/31/2003	DH-8
519	L030243017	AEH-0306-136	5/31/2003	DH-66
375	L030243018	AEH-0306-137	5/31/2003	DH-41
379	L030243019	AEH-0306-138	5/31/2003	DH-42
475	L030243020	AEH-0306-139	5/31/2003	DH-59
221	L030244001	AEH-0306-140	6/1/2003	DH-19R

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1101	L030244003	AEH-0306-142	6/1/2003	DH-27
1142	L030244004	AEH-0306-143	6/1/2003	DH-38
342	L030244005	AEH-0306-144	6/1/2003	DH-37
1122	L030244006	AEH-0306-146	6/1/2003	DH-33
1128	L030244007	AEH-0306-147	6/1/2003	DH-34
1089	L030244008	AEH-0306-148	6/1/2003	DH-21
1136	L030244009	AEH-0306-149	6/1/2003	DH-35
1114	L030244010	AEH-0306-150	6/1/2003	DH-31
269	L030244011	AEH-0306-151	6/1/2003	DH-23
270	L030244012	AEH-0306-152	6/1/2003	DH-23
464	L030244013	AEH-0306-153	6/1/2003	DH-57
568	L030244014	AEH-0306-154	6/1/2003	DH-9
468	L030244015	AEH-0306-155	6/1/2003	DH-58
1075	L030244016	AEH-0306-156	6/1/2003	DH-18
1061	L030244017	AEH-0306-157	6/1/2003	DH-13
336	L030244019	AEH-0306-160	6/1/2003	DH-36
206	L030244020	AEH-0306-162	6/2/2003	DH-17
436	L030245001	AEH-0306-163	6/2/2003	DH-51
431	L030245002	AEH-0306-164	6/2/2003	DH-50
1042	L030245003	AEH-0306-165	6/2/2003	STW-9
1034	L030245004	AEH-0306-166	6/2/2003	STW-8
1022	L030245005	AEH-0306-167	6/2/2003	STW-7
993	L030245006	AEH-0306-168	6/2/2003	STW-4
958	L030245007	AEH-0306-169	6/2/2003	STW-1
508	L030245008	AEH-0306-170	6/2/2003	DH-64
948	L030245009	AEH-0306-171	6/2/2003	SPARGE 3
290	L030245010	AEH-0306-172	6/2/2003	DH-24
290	L030245011	AEH-0306-173	6/2/2003	DH-24
405	L030245012	AEH-0306-174	6/2/2003	DH-49
522	L030245013	AEH-0306-175	6/2/2003	DH-67
502	L030245014	AEH-0306-176	6/2/2003	DH-63
449	L030245016	AEH-0306-179	6/2/2003	DH-53
442	L030245017	AEH-0306-180	6/3/2003	DH-52
157	L030245018	AEH-0306-181	6/3/2003	DH-10A
191	L030245019	AEH-0306-182	6/3/2003	DH-15
191	L030245020	AEH-0306-183	6/3/2003	DH-15
489	L030247002	AEH-0306-185	6/3/2003	DH-6
787	L030247003	AEH-0306-186	6/3/2003	EH-57A
675	L030247004	AEH-0306-187	6/3/2003	EH-114
855	L030247005	AEH-0306-188	6/3/2003	EH-63
576	L030247006	AEH-0306-189	6/3/2003	EH-100
720	L030247007	AEH-0306-190	6/3/2003	EH-50

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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827	L030247009	AEH-0306-192	6/3/2003	EH-60
608	L030247010	AEH-0306-193	6/3/2003	EH-103
454	L030247011	AEH-0306-194	6/3/2003	DH-54
799	L030247012	AEH-0306-195	6/3/2003	EH-58
810	L030247013	AEH-0306-196	6/3/2003	EH-59
746	L030247014	AEH-0306-197	6/3/2003	EH-52
643	L030247015	AEH-0306-198	6/3/2003	EH-110
586	L030256001	AEH-0306-199	6/4/2003	EH-101
732	L030256002	AEH-0306-200	6/4/2003	EH-51
732	L030256003	AEH-0306-201	6/4/2003	EH-51
666	L030256004	AEH-0306-202	6/4/2003	EH-113
761	L030256005	AEH-0306-203	6/4/2003	EH-53
848	L030256006	AEH-0306-204	6/4/2003	EH-62
775	L030256007	AEH-0306-205	6/4/2003	EH-54
613	L030256009	AEH-0306-207	6/4/2003	EH-104
651	L030256010	AEH-0306-208	6/4/2003	EH-111
659	L030256011	AEH-0306-209	6/4/2003	EH-112
681	L030256012	AEH-0306-210	6/4/2003	EH-115
622	L030256013	AEH-0306-211	6/4/2003	EH-106
628	L030256014	AEH-0306-212	6/4/2003	EH-107
867	L030256015	AEH-0306-213	6/4/2003	EH-65
860	L030256016	AEH-0306-214	6/4/2003	EH-64
638	L030256017	AEH-0306-215	6/4/2003	EH-109
233	L030256018	AEH-0306-216	6/4/2003	DH-2
576	L030598001	AEH-0310-320	10/24/2003	EH-100
576	L030598002	AEH-0310-321	10/24/2003	EH-100
720	L030598003	AEH-0310-322	10/24/2003	EH-50
907	L030598004	AEH-0310-323	10/24/2003	MW-4
882	L030598006	AEH-0310-324	10/24/2003	MW-1
894	L030598007	AEH-0310-325	10/24/2003	MW-2
900	L030598008	AEH-0310-326	10/24/2003	MW-3
921	L030598009	AEH-0310-327	10/24/2003	MW-6
328	L030598010	AEH-0310-328	10/24/2003	DH-3
233	L030598011	AEH-0310-329	10/24/2003	DH-2
145	L030598012	AEH-0310-330	10/24/2003	DH-1
539	L030598015	AEH-0310-333	10/25/2003	DH-7
170	L030598016	AEH-0310-334	10/25/2003	DH-11
368	L030598017	AEH-0310-335	10/25/2003	DH-4
421	L030598018	AEH-0310-336	10/25/2003	DH-5
421	L030598019	AEH-0310-337	10/25/2003	DH-5
107	L030598020	AEH-0310-338	10/25/2003	APSD-7
383	L030600001	AEH-0310-359	10/26/2003	DH-43

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376	L030600003	AEH-0310-361	10/26/2003	DH-41
221	L030600004	AEH-0310-362	10/26/2003	DH-19R
475	L030600005	AEH-0310-363	10/26/2003	DH-59
1108	L030600006	AEH-0310-364	10/26/2003	DH-30
1101	L030600007	AEH-0310-365	10/26/2003	DH-27
1101	L030600008	AEH-0310-366	10/26/2003	DH-27
1143	L030600009	AEH-0310-367	10/26/2003	DH-38
342	L030600010	AEH-0310-368	10/26/2003	DH-37
1122	L030600011	AEH-0310-370	10/26/2003	DH-33
1129	L030600012	AEH-0310-371	10/26/2003	DH-34
1089	L030600013	AEH-0310-372	10/26/2003	DH-21
1136	L030600014	AEH-0310-373	10/26/2003	DH-35
1114	L030600015	AEH-0310-374	10/26/2003	DH-31
270	L030600016	AEH-0310-375	10/26/2003	DH-23
464	L030600019	AEH-0310-378	10/27/2003	DH-57
468	L030600020	AEH-0310-380	10/27/2003	DH-58
336	L030601001	AEH-0310-381	10/27/2003	DH-36
449	L030601002	AEH-0310-382	10/27/2003	DH-53
442	L030601003	AEH-0310-383	10/27/2003	DH-52
157	L030601004	AEH-0310-384	10/27/2003	DH-10A
675	L030601005	AEH-0310-385	10/27/2003	EH-114
787	L030601006	AEH-0310-386	10/27/2003	EH-57A
787	L030601007	AEH-0310-387	10/27/2003	EH-57A
524	L030601008	AEH-0310-388	10/27/2003	DH-67
855	L030601012	AEH-0310-392	10/28/2003	EH-63
666	L030601013	AEH-0310-393	10/28/2003	EH-113
651	L030601014	AEH-0310-394	10/28/2003	EH-111
659	L030601015	AEH-0310-395	10/28/2003	EH-112
681	L030601016	AEH-0310-396	10/28/2003	EH-115
622	L030601017	AEH-0310-397	10/28/2003	EH-106
630	L030601018	AEH-0310-398	10/28/2003	EH-107
867	L030601019	AEH-0310-399	10/28/2003	EH-65
860	L030601020	AEH-0310-400	10/28/2003	EH-64
615	L030604001	AEH-0310-401	10/28/2003	EH-104
747	L030604002	AEH-0310-402	10/28/2003	EH-52
811	L030604003	AEH-0310-403	10/28/2003	EH-59
643	L030604004	AEH-0310-404	10/28/2003	EH-110
638	L030604005	AEH-0310-405	10/28/2003	EH-109
638	L030604006	AEH-0310-406	10/28/2003	EH-109
191	L030604007	AEH-0310-407	10/28/2003	DH-15
489	L030604008	AEH-0310-408	10/28/2003	DH-6
1075	L030604009	AEH-0310-410	10/28/2003	DH-18

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1061	L030604010	AEH-0310-411	10/28/2003	DH-13
761	L030604013	AEH-0310-415	10/29/2003	EH-53
848	L030604014	AEH-0310-416	10/29/2003	EH-62
775	L030604015	AEH-0310-417	10/29/2003	EH-54
799	L030604016	AEH-0310-418	10/29/2003	EH-58
454	L030604017	AEH-0310-419	10/29/2003	DH-54
608	L030604018	AEH-0310-420	10/29/2003	EH-103
586	L030604019	AEH-0310-421	10/29/2003	EH-101
733	L030604020	AEH-0310-422	10/29/2003	EH-51
837	L030605001	AEH-0310-423	10/29/2003	EH-61
827	L030605002	AEH-0310-424	10/29/2003	EH-60
400	L030605003	AEH-0310-426	10/29/2003	DH-48
290	L030605004	AEH-0310-425	10/29/2003	DH-24
208	L030605005	AEH-0310-427	10/29/2003	DH-17
208	L030605006	AEH-0310-428	10/29/2003	DH-17
436	L030605007	AEH-0310-429	10/29/2003	DH-51
432	L030605008	AEH-0310-430	10/29/2003	DH-50
508	L030605009	AEH-0310-431	10/29/2003	DH-64
405	L030605010	AEH-0310-432	10/29/2003	DH-49
948	L030605013	AEH-0310-436	10/30/2003	SPARGE 3
1022	L030605014	AEH-0310-437	10/30/2003	STW-7
959	L030605015	AEH-0310-438	10/30/2003	STW-1
1034	L030605016	AEH-0310-439	10/30/2003	STW-8
1043	L030605017	AEH-0310-440	10/30/2003	STW-9
1043	L030605018	AEH-0310-441	10/30/2003	STW-9
993	L030605019	AEH-0310-442	10/30/2003	STW-4
156	L992007002	EHC-9911-113	11/11/1999	DH-10A
168	L992007003	EHC-9911-114	11/9/1999	DH-11
1051	L992007004	EHC-9911-115	11/12/1999	DH-12
1060	L992007005	EHC-9911-116	11/12/1999	DH-13
205	L992007006	EHC-9911-118	11/12/1999	DH-17
1073	L992007007	EHC-9911-120	11/10/1999	DH-18
144	L992007008	EHC-9911-122	11/8/1999	DH-1
1087	L992007009	EHC-9911-124	11/9/1999	DH-21
268	L992007010	EHC-9911-126	11/11/1999	DH-23
281	L992007011	EHC-9911-127	11/12/1999	DH-24
1100	L992007012	EHC-9911-128	11/12/1999	DH-27
232	L992007013	EHC-9911-131	11/8/1999	DH-2
326	L992007014	EHC-9911-132	11/10/1999	DH-3
487	L992007015	EHC-9911-135	11/11/1999	DH-6
538	L992008001	EHC-9911-136	11/8/1999	DH-7
554	L992008002	EHC-9911-137	11/10/1999	DH-8
567	L992008003	EHC-9911-138	11/11/1999	DH-9

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599	L992008006	EHC-9911-141	11/9/1999	EH-102
718	L992008007	EHC-9911-142	11/10/1999	EH-50
731	L992008008	EHC-9911-143	11/11/1999	EH-51
745	L992008009	EHC-9911-144	11/11/1999	EH-52
760	L992008010	EHC-9911-145	11/9/1999	EH-53
773	L992008011	EHC-9911-146	11/9/1999	EH-54
785	L992008012	EHC-9911-147	11/9/1999	EH-57A
798	L992008013	EHC-9911-148	11/8/1999	EH-58
809	L992008014	EHC-9911-149	11/9/1999	EH-59
823	L992008015	EHC-9911-150	11/11/1999	EH-60
847	L992009001	EHC-9911-152	11/10/1999	EH-62
538	L992009004	EHC-9911-168	11/8/1999	DH-7
599	L992009006	EHC-9911-170	11/9/1999	EH-102
847	L992009008	EHC-9911-172	11/10/1999	EH-62
824	L992009010	EHC-9911-174	11/11/1999	EH-60
281	L992009012	EHC-9911-176	11/12/1999	DH-24
17	L992055001	EHC-9911-102	11/17/1999	APSD-10
26	L992055002	EHC-9911-103	11/17/1999	APSD-11
35	L992055003	EHC-9911-104	11/17/1999	APSD-12
44	L992055004	EHC-9911-105	11/17/1999	APSD-13
6	L992055005	EHC-9911-106	11/17/1999	APSD-1
60	L992055006	EHC-9911-107	11/17/1999	APSD-2
74	L992055007	EHC-9911-108	11/17/1999	APSD-3
84	L992055008	EHC-9911-109	11/17/1999	APSD-4
106	L992055009	EHC-9911-110	11/17/1999	APSD-7
121	L992055010	EHC-9911-111	11/17/1999	APSD-8
132	L992055011	EHC-9911-112	11/17/1999	APSD-9
184	L992055012	EHC-9911-117	11/17/1999	DH-14
218	L992055013	EHC-9911-121	11/16/1999	DH-19
247	L992055014	EHC-9911-123	11/17/1999	DH-20
258	L992055015	EHC-9911-125	11/16/1999	DH-22
300	L992055016	EHC-9911-129	11/16/1999	DH-28
311	L992055017	EHC-9911-130	11/17/1999	DH-29
365	L992056001	EHC-9911-133	11/17/1999	DH-4
419	L992056002	EHC-9911-134	11/17/1999	DH-5
258	L992056011	EHC-9911-179	11/16/1999	DH-22
365	L992056013	EHC-9911-181	11/17/1999	DH-4
1107	L992165001	IMMW-9912-100	12/17/1999	DH-30
1113	L992165002	IMMW-9912-101	12/17/1999	DH-31
1119	L992165003	IMMW-9912-102	12/16/1999	DH-32
1121	L992165004	IMMW-9912-103	12/17/1999	DH-33
1126	L992165005	IMMW-9912-104	12/17/1999	DH-34
1134	L992165006	IMMW-9912-105	12/17/1999	DH-35

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339	L992165008	IMMW-9912-107	12/17/1999	DH-37
1140	L992165009	IMMW-9912-108	12/16/1999	DH-38
344	L992165010	IMMW-9912-109	12/16/1999	DH-39
370	L992165011	IMMW-9912-110	12/16/1999	DH-40
374	L992165012	IMMW-9912-111	12/16/1999	DH-41
377	L992165013	IMMW-9912-112	12/16/1999	DH-42
382	L992165014	IMMW-9912-113	12/16/1999	DH-43
385	L992165015	IMMW-9912-114	12/16/1999	DH-44
387	L992165016	IMMW-9912-115	12/15/1999	DH-45
391	L992165017	IMMW-9912-116	12/15/1999	DH-46
394	L992165018	IMMW-9912-117	12/16/1999	DH-47
402	L992165019	IMMW-9912-119	12/15/1999	DH-49
423	L992165020	IMMW-9912-120	12/15/1999	DH-50
435	L992165021	IMMW-9912-121	12/15/1999	DH-51
440	L992165022	IMMW-9912-122	12/15/1999	DH-52
447	L992165023	IMMW-9912-123	12/15/1999	DH-53
453	L992165024	IMMW-9912-124	12/16/1999	DH-54
435	L992165025	IMMW-9912-125	12/15/1999	DH-51
377	L992165029	IMMW-9912-129	12/16/1999	DH-42
1134	L992165031	IMMW-9912-131	12/17/1999	DH-35
985	P000343	EHST-0006-307	6/21/2000	STW-4
136	S5704	AEH-8501-116	1/15/1985	DH-1
136	S5705	AEH-8501-127	1/15/1985	DH-1
161	S5707	AEH-8501-126	1/15/1985	DH-11
531	S5708	AEH-8501-122	1/18/1985	DH-7
151	S5709	AEH-8501-125	1/18/1985	DH-10
481	S5710	AEH-8501-121	1/16/1985	DH-6
348	S5712	AEH-8501-128	1/16/1985	DH-4
408	S5748	AEH-8501-120	1/17/1985	DH-5
408	S5749	AEH-8501-129	1/17/1985	DH-5
546	S5750	AEH-8501-123	1/17/1985	DH-8
316	S5752	AEH-8501-118	1/18/1985	DH-3
318	S5753	AEH-8501-130	1/18/1985	DH-3
560	S5754	AEH-8501-124	1/18/1985	DH-9
224	S5755	AEH-8501-117	1/18/1985	DH-2
531	S5756	AEH-8501-122	1/18/1985	DH-7
151	S5757	AEH-8501-125	1/18/1985	DH-10
481	S5759	AEH-8501-121	1/16/1985	DH-6
161	S5760	AEH-8501-126	1/15/1985	DH-11
161	S5761	AEH-8501-137	1/21/1985	DH-11
28	z	AEH-0411-257	10/22/2004	APSD-11
37	z	AEH-0411-242	10/22/2004	APSD-12

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86	z	AEH-0411-243	10/22/2004	APSD-4
123	z	AEH-0411-241	10/22/2004	APSD-8
124	z	AEH-0611-APSD8	11/6/2006	APSD-8
133	z	AEH-0411-244	10/22/2004	APSD-9
186	z	AEH-0411-247	10/22/2004	DH-14
187	z	AEH-0611-DH14	11/6/2006	DH-14
198	z	AEH-0705-205	5/21/2007	DH-16
262	z	AEH-0611-DH22	11/9/2006	DH-22
262	z	AEH-0705-173	5/17/2007	DH-22
302	z	AEH-0411-246	10/22/2004	DH-28
303	z	AEH-0611-DH28	11/6/2006	DH-28
344	z	AEH-0905-266	5/19/2009	DH-37
401	z	AEH-0611-155	11/9/2006	DH-48
401	z	AEH-0705-134	5/11/2007	DH-48
406	z	AEH-0705-160	5/16/2007	DH-49
408	z	AEH-0905-238	5/18/2009	DH-49
459	z	AEH-0411-248	10/22/2004	DH-55
460	z	AEH-0611-DH55	11/6/2006	DH-55
462	z	AEH-0411-250	10/22/2004	DH-56
463	z	AEH-0611-DH56	11/6/2006	DH-56
465	z	AEH-0705-185	5/18/2007	DH-57
497	z	AEH-0611-DH61	11/6/2006	DH-61
516	z	AEH-0411-249	10/22/2004	DH-65
517	z	AEH-0611-DH65	11/6/2006	DH-65
569	z	AEH-0705-191	5/21/2007	DH-9
601	z	AEH-0411-240	10/22/2004	EH-102
602	z	AEH-0611-EH102	11/6/2006	EH-102
812	z	AEH-0606-141	6/22/2006	EH-59
922	z	AEH-0611-MW6	11/6/2006	MW-6
927	z	AEH-0611-MW7	11/6/2006	MW-7
928	z	AEH-0705-240	6/8/2007	MW-7
939	z	AEH-0411-251	10/22/2004	SPARGE 1
940	z	AEH-0611-SPAR1	11/6/2006	SPARGE 1
941	z	AEH-0411-252	10/22/2004	SPARGE 2
942	z	AEH-0611-SPAR2	11/6/2006	SPARGE 2
972	z	AEH-0611-STW2	11/6/2006	STW-2
972	z	AEH-0411-256	10/22/2004	STW-2
983	z	AEH-0411-253	10/22/2004	STW-3
984	z	AEH-0611-STW3	11/6/2006	STW-3
1004	z	AEH-0411-255	10/22/2004	STW-5
1004	z	AEH-0611-STW5	11/6/2006	STW-5
1012	z	AEH-0411-254	10/22/2004	STW-6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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1053	z	AEH-0705-195	5/21/2007	DH-12
1053	z	AEH-0611-244	12/4/2006	DH-12
1062	z	AEH-0611-245	12/4/2006	DH-13
1076	z	AEH-0611-246	12/4/2006	DH-18
1117	z	AEH-0905-259	5/19/2009	DH-31
1120	z	AEH-0705-187	5/18/2007	DH-32
1120	z	AEH-0611-242	11/20/2006	DH-32
1124	z	AEH-0705-188	5/18/2007	DH-33

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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894	AEH-0306-101	L030242002	5/30/2003	MW-2
899	AEH-0306-102	L030242003	5/30/2003	MW-3
907	AEH-0306-103	L030242004	5/30/2003	MW-4
913	AEH-0306-104	L030242005	5/30/2003	MW-5
926	AEH-0306-105	L030242006	5/30/2003	MW-7
921	AEH-0306-106	L030242007	5/30/2003	MW-6
921	AEH-0306-107	L030242008	5/30/2003	MW-6
328	AEH-0306-108	L030242009	5/30/2003	DH-3
145	AEH-0306-109	L030242010	5/30/2003	DH-1
107	AEH-0306-110	L030242011	5/30/2003	APSD-7
18	AEH-0306-111	L030242012	5/30/2003	APSD-10
7	AEH-0306-112	L030242013	5/30/2003	APSD-1
61	AEH-0306-113	L030242014	5/30/2003	APSD-2
75	AEH-0306-114	L030242015	5/30/2003	APSD-3
46	AEH-0306-115	L030242016	5/30/2003	APSD-13
389	AEH-0306-116	L030242017	5/30/2003	DH-45
392	AEH-0306-117	L030242018	5/30/2003	DH-46
396	AEH-0306-118	L030242019	5/30/2003	DH-47
539	AEH-0306-120	L030243001	5/31/2003	DH-7
169	AEH-0306-121	L030243002	5/31/2003	DH-11
368	AEH-0306-122	L030243003	5/31/2003	DH-4
421	AEH-0306-123	L030243004	5/31/2003	DH-5
421	AEH-0306-124	L030243005	5/31/2003	DH-5
312	AEH-0306-125	L030243006	5/31/2003	DH-29
248	AEH-0306-126	L030243007	5/31/2003	DH-20
386	AEH-0306-128	L030243009	5/31/2003	DH-44
372	AEH-0306-129	L030243010	5/31/2003	DH-40
346	AEH-0306-130	L030243011	5/31/2003	DH-39
261	AEH-0306-131	L030243012	5/31/2003	DH-22
494	AEH-0306-132	L030243013	5/31/2003	DH-60
383	AEH-0306-133	L030243014	5/31/2003	DH-43
498	AEH-0306-134	L030243015	5/31/2003	DH-62
556	AEH-0306-135	L030243016	5/31/2003	DH-8
519	AEH-0306-136	L030243017	5/31/2003	DH-66
375	AEH-0306-137	L030243018	5/31/2003	DH-41
379	AEH-0306-138	L030243019	5/31/2003	DH-42
475	AEH-0306-139	L030243020	5/31/2003	DH-59
221	AEH-0306-140	L030244001	6/1/2003	DH-19R
1108	AEH-0306-141	L030244002	6/1/2003	DH-30
1101	AEH-0306-142	L030244003	6/1/2003	DH-27
1142	AEH-0306-143	L030244004	6/1/2003	DH-38
342	AEH-0306-144	L030244005	6/1/2003	DH-37

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1128	AEH-0306-147	L030244007	6/1/2003	DH-34
1089	AEH-0306-148	L030244008	6/1/2003	DH-21
1136	AEH-0306-149	L030244009	6/1/2003	DH-35
1114	AEH-0306-150	L030244010	6/1/2003	DH-31
269	AEH-0306-151	L030244011	6/1/2003	DH-23
270	AEH-0306-152	L030244012	6/1/2003	DH-23
464	AEH-0306-153	L030244013	6/1/2003	DH-57
568	AEH-0306-154	L030244014	6/1/2003	DH-9
468	AEH-0306-155	L030244015	6/1/2003	DH-58
1075	AEH-0306-156	L030244016	6/1/2003	DH-18
1061	AEH-0306-157	L030244017	6/1/2003	DH-13
336	AEH-0306-160	L030244019	6/1/2003	DH-36
206	AEH-0306-162	L030244020	6/2/2003	DH-17
436	AEH-0306-163	L030245001	6/2/2003	DH-51
431	AEH-0306-164	L030245002	6/2/2003	DH-50
1042	AEH-0306-165	L030245003	6/2/2003	STW-9
1034	AEH-0306-166	L030245004	6/2/2003	STW-8
1022	AEH-0306-167	L030245005	6/2/2003	STW-7
993	AEH-0306-168	L030245006	6/2/2003	STW-4
958	AEH-0306-169	L030245007	6/2/2003	STW-1
508	AEH-0306-170	L030245008	6/2/2003	DH-64
948	AEH-0306-171	L030245009	6/2/2003	SPARGE 3
290	AEH-0306-172	L030245010	6/2/2003	DH-24
290	AEH-0306-173	L030245011	6/2/2003	DH-24
405	AEH-0306-174	L030245012	6/2/2003	DH-49
522	AEH-0306-175	L030245013	6/2/2003	DH-67
502	AEH-0306-176	L030245014	6/2/2003	DH-63
449	AEH-0306-179	L030245016	6/2/2003	DH-53
442	AEH-0306-180	L030245017	6/3/2003	DH-52
157	AEH-0306-181	L030245018	6/3/2003	DH-10A
191	AEH-0306-182	L030245019	6/3/2003	DH-15
191	AEH-0306-183	L030245020	6/3/2003	DH-15
489	AEH-0306-185	L030247002	6/3/2003	DH-6
787	AEH-0306-186	L030247003	6/3/2003	EH-57A
675	AEH-0306-187	L030247004	6/3/2003	EH-114
855	AEH-0306-188	L030247005	6/3/2003	EH-63
576	AEH-0306-189	L030247006	6/3/2003	EH-100
720	AEH-0306-190	L030247007	6/3/2003	EH-50
837	AEH-0306-191	L030247008	6/3/2003	EH-61
827	AEH-0306-192	L030247009	6/3/2003	EH-60
608	AEH-0306-193	L030247010	6/3/2003	EH-103
454	AEH-0306-194	L030247011	6/3/2003	DH-54

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810	AEH-0306-196	L030247013	6/3/2003	EH-59
746	AEH-0306-197	L030247014	6/3/2003	EH-52
643	AEH-0306-198	L030247015	6/3/2003	EH-110
586	AEH-0306-199	L030256001	6/4/2003	EH-101
732	AEH-0306-200	L030256002	6/4/2003	EH-51
732	AEH-0306-201	L030256003	6/4/2003	EH-51
666	AEH-0306-202	L030256004	6/4/2003	EH-113
761	AEH-0306-203	L030256005	6/4/2003	EH-53
848	AEH-0306-204	L030256006	6/4/2003	EH-62
775	AEH-0306-205	L030256007	6/4/2003	EH-54
613	AEH-0306-207	L030256009	6/4/2003	EH-104
651	AEH-0306-208	L030256010	6/4/2003	EH-111
659	AEH-0306-209	L030256011	6/4/2003	EH-112
681	AEH-0306-210	L030256012	6/4/2003	EH-115
622	AEH-0306-211	L030256013	6/4/2003	EH-106
628	AEH-0306-212	L030256014	6/4/2003	EH-107
867	AEH-0306-213	L030256015	6/4/2003	EH-65
860	AEH-0306-214	L030256016	6/4/2003	EH-64
638	AEH-0306-215	L030256017	6/4/2003	EH-109
233	AEH-0306-216	L030256018	6/4/2003	DH-2
123	AEH-0306-218	0306-218	5/30/2003	APSD-8
133	AEH-0306-219	0306-219	5/30/2003	APSD-9
28	AEH-0306-220	0306-220	5/30/2003	APSD-11
37	AEH-0306-221	0306-221	5/30/2003	APSD-12
85	AEH-0306-222	0306-222	5/30/2003	APSD-4
186	AEH-0306-223	0306-223	5/31/2003	DH-14
939	AEH-0306-226	0306-226	6/2/2003	SPARGE 1
941	AEH-0306-227	0306-227	6/2/2003	SPARGE 2
971	AEH-0306-228	0306-228	6/2/2003	STW-2
983	AEH-0306-229	0306-229	6/2/2003	STW-3
1003	AEH-0306-230	0306-230	6/2/2003	STW-5
1011	AEH-0306-231	0306-231	6/2/2003	STW-6
458	AEH-0306-232	0306-232	6/2/2003	DH-55
462	AEH-0306-233	0306-233	6/2/2003	DH-56
516	AEH-0306-234	0306-234	6/2/2003	DH-65
600	AEH-0306-235	0306-235	6/3/2003	EH-102
576	AEH-0310-320	L030598001	10/24/2003	EH-100
576	AEH-0310-321	L030598002	10/24/2003	EH-100
720	AEH-0310-322	L030598003	10/24/2003	EH-50
907	AEH-0310-323	L030598004	10/24/2003	MW-4
882	AEH-0310-324	L030598006	10/24/2003	MW-1
894	AEH-0310-325	L030598007	10/24/2003	MW-2

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921	AEH-0310-327	L030598009	10/24/2003	MW-6
328	AEH-0310-328	L030598010	10/24/2003	DH-3
233	AEH-0310-329	L030598011	10/24/2003	DH-2
145	AEH-0310-330	L030598012	10/24/2003	DH-1
539	AEH-0310-333	L030598015	10/25/2003	DH-7
170	AEH-0310-334	L030598016	10/25/2003	DH-11
368	AEH-0310-335	L030598017	10/25/2003	DH-4
421	AEH-0310-336	L030598018	10/25/2003	DH-5
421	AEH-0310-337	L030598019	10/25/2003	DH-5
107	AEH-0310-338	L030598020	10/25/2003	APSD-7
18	AEH-0310-339	L030599-001	10/25/2003	APSD-10
75	AEH-0310-340	L030599-002	10/25/2003	APSD-3
61	AEH-0310-341	L030599-003	10/25/2003	APSD-2
8	AEH-0310-342	L030599-004	10/25/2003	APSD-1
46	AEH-0310-343	L030599-005	10/25/2003	APSD-13
248	AEH-0310-344	L030599-006	10/25/2003	DH-20
313	AEH-0310-347	L030599-009	10/25/2003	DH-29
389	AEH-0310-348	L030599-010	10/25/2003	DH-45
392	AEH-0310-349	L030599-011	10/25/2003	DH-46
397	AEH-0310-350	L030599-012	10/25/2003	DH-47
386	AEH-0310-351	L030599-013	10/25/2003	DH-44
373	AEH-0310-352	L030599-014	10/25/2003	DH-40
346	AEH-0310-353	L030599-015	10/25/2003	DH-39
261	AEH-0310-354	L030599-016	10/25/2003	DH-22
494	AEH-0310-355	L030599-017	10/26/2003	DH-60
498	AEH-0310-356	L030599-018	10/26/2003	DH-62
556	AEH-0310-357	L030599-019	10/26/2003	DH-8
519	AEH-0310-358	L030599-020	10/26/2003	DH-66
383	AEH-0310-359	L030600001	10/26/2003	DH-43
379	AEH-0310-360	L030600002	10/26/2003	DH-42
376	AEH-0310-361	L030600003	10/26/2003	DH-41
221	AEH-0310-362	L030600004	10/26/2003	DH-19R
475	AEH-0310-363	L030600005	10/26/2003	DH-59
1108	AEH-0310-364	L030600006	10/26/2003	DH-30
1101	AEH-0310-365	L030600007	10/26/2003	DH-27
1101	AEH-0310-366	L030600008	10/26/2003	DH-27
1143	AEH-0310-367	L030600009	10/26/2003	DH-38
342	AEH-0310-368	L030600010	10/26/2003	DH-37
1122	AEH-0310-370	L030600011	10/26/2003	DH-33
1129	AEH-0310-371	L030600012	10/26/2003	DH-34
1089	AEH-0310-372	L030600013	10/26/2003	DH-21
1136	AEH-0310-373	L030600014	10/26/2003	DH-35

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270	AEH-0310-375	L030600016	10/26/2003	DH-23
464	AEH-0310-378	L030600019	10/27/2003	DH-57
568	AEH-0310-379	AEH-0310-379	10/27/2003	DH-9
468	AEH-0310-380	L030600020	10/27/2003	DH-58
336	AEH-0310-381	L030601001	10/27/2003	DH-36
449	AEH-0310-382	L030601002	10/27/2003	DH-53
442	AEH-0310-383	L030601003	10/27/2003	DH-52
157	AEH-0310-384	L030601004	10/27/2003	DH-10A
675	AEH-0310-385	L030601005	10/27/2003	EH-114
787	AEH-0310-386	L030601006	10/27/2003	EH-57A
787	AEH-0310-387	L030601007	10/27/2003	EH-57A
524	AEH-0310-388	L030601008	10/27/2003	DH-67
855	AEH-0310-392	L030601012	10/28/2003	EH-63
666	AEH-0310-393	L030601013	10/28/2003	EH-113
651	AEH-0310-394	L030601014	10/28/2003	EH-111
659	AEH-0310-395	L030601015	10/28/2003	EH-112
681	AEH-0310-396	L030601016	10/28/2003	EH-115
622	AEH-0310-397	L030601017	10/28/2003	EH-106
630	AEH-0310-398	L030601018	10/28/2003	EH-107
867	AEH-0310-399	L030601019	10/28/2003	EH-65
860	AEH-0310-400	L030601020	10/28/2003	EH-64
615	AEH-0310-401	L030604001	10/28/2003	EH-104
747	AEH-0310-402	L030604002	10/28/2003	EH-52
811	AEH-0310-403	L030604003	10/28/2003	EH-59
643	AEH-0310-404	L030604004	10/28/2003	EH-110
638	AEH-0310-405	L030604005	10/28/2003	EH-109
638	AEH-0310-406	L030604006	10/28/2003	EH-109
191	AEH-0310-407	L030604007	10/28/2003	DH-15
489	AEH-0310-408	L030604008	10/28/2003	DH-6
502	AEH-0310-409	AEH-0310-409	10/28/2003	DH-63
1075	AEH-0310-410	L030604009	10/28/2003	DH-18
1061	AEH-0310-411	L030604010	10/28/2003	DH-13
761	AEH-0310-415	L030604013	10/29/2003	EH-53
848	AEH-0310-416	L030604014	10/29/2003	EH-62
775	AEH-0310-417	L030604015	10/29/2003	EH-54
799	AEH-0310-418	L030604016	10/29/2003	EH-58
454	AEH-0310-419	L030604017	10/29/2003	DH-54
608	AEH-0310-420	L030604018	10/29/2003	EH-103
586	AEH-0310-421	L030604019	10/29/2003	EH-101
733	AEH-0310-422	L030604020	10/29/2003	EH-51
837	AEH-0310-423	L030605001	10/29/2003	EH-61
827	AEH-0310-424	L030605002	10/29/2003	EH-60

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400	AEH-0310-426	L030605003	10/29/2003	DH-48
208	AEH-0310-427	L030605005	10/29/2003	DH-17
208	AEH-0310-428	L030605006	10/29/2003	DH-17
436	AEH-0310-429	L030605007	10/29/2003	DH-51
432	AEH-0310-430	L030605008	10/29/2003	DH-50
508	AEH-0310-431	L030605009	10/29/2003	DH-64
405	AEH-0310-432	L030605010	10/29/2003	DH-49
948	AEH-0310-436	L030605013	10/30/2003	SPARGE 3
1022	AEH-0310-437	L030605014	10/30/2003	STW-7
959	AEH-0310-438	L030605015	10/30/2003	STW-1
1034	AEH-0310-439	L030605016	10/30/2003	STW-8
1043	AEH-0310-440	L030605017	10/30/2003	STW-9
1043	AEH-0310-441	L030605018	10/30/2003	STW-9
993	AEH-0310-442	L030605019	10/30/2003	STW-4
927	AEH-0310-445	AEH-0310-445	10/24/2003	MW-7
914	AEH-0310-446	AEH-0310-446	10/24/2003	MW-5
186	AEH-0310-447	AEH-0310-447	10/25/2003	DH-14
123	AEH-0310-448	AEH-0310-448	10/25/2003	APSD-8
28	AEH-0310-449	AEH-0310-449	10/25/2003	APSD-11
37	AEH-0310-450	AEH-0310-450	10/25/2003	APSD-12
133	AEH-0310-451	AEH-0310-451	10/25/2003	APSD-9
85	AEH-0310-452	AEH-0310-452	10/25/2003	APSD-4
302	AEH-0310-454	AEH-0310-454	10/26/2003	DH-28
459	AEH-0310-455	AEH-0310-455	10/26/2003	DH-55
462	AEH-0310-456	AEH-0310-456	10/26/2003	DH-56
516	AEH-0310-457	AEH-0310-457	10/26/2003	DH-65
601	AEH-0310-458	AEH-0310-458	10/28/2003	EH-102
939	AEH-0310-459	AEH-0310-459	10/30/2003	SPARGE 1
941	AEH-0310-460	AEH-0310-460	10/30/2003	SPARGE 2
971	AEH-0310-461	AEH-0310-461	10/30/2003	STW-2
983	AEH-0310-462	AEH-0310-462	10/30/2003	STW-3
1003	AEH-0310-463	AEH-0310-463	10/30/2003	STW-5
1011	AEH-0310-464	AEH-0310-464	10/30/2003	STW-6
368	AEH-0405-100	H04050109-001	5/17/2004	DH-4
421	AEH-0405-101	H04050109-002	5/17/2004	DH-5
421	AEH-0405-102	H04050109-003	5/17/2004	DH-5
397	AEH-0405-103	H04050109-004	5/17/2004	DH-47
392	AEH-0405-104	H04050109-005	5/17/2004	DH-46
389	AEH-0405-105	H04050109-006	5/17/2004	DH-45
675	AEH-0405-107	H04050109-008	5/18/2004	EH-114
787	AEH-0405-108	AEH-0405-108	5/18/2004	EH-57A
651	AEH-0405-109	H04050109-009	5/18/2004	EH-111

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659	AEH-0405-110	H04050109-010	5/18/2004	EH-112
668	AEH-0405-111	H04050121-001	5/19/2004	EH-113
761	AEH-0405-112	H04050121-002	5/19/2004	EH-53
849	AEH-0405-113	H04050121-003	5/19/2004	EH-62
775	AEH-0405-114	H04050121-004	5/19/2004	EH-54
775	AEH-0405-115	H04050121-005	5/19/2004	EH-54
681	AEH-0405-116	H04050121-006	5/19/2004	EH-115
622	AEH-0405-117	H04050121-007	5/19/2004	EH-106
867	AEH-0405-118	H04050121-008	5/19/2004	EH-65
630	AEH-0405-119	H04050121-009	5/19/2004	EH-107
861	AEH-0405-120	H04050121-010	5/19/2004	EH-64
855	AEH-0405-121	H04050121-011	5/19/2004	EH-63
643	AEH-0405-122	H04050121-012	5/19/2004	EH-110
508	AEH-0405-124	H04050133-001	5/20/2004	DH-64
432	AEH-0405-125	H04050133-002	5/20/2004	DH-50
993	AEH-0405-126	H04050133-003	5/20/2004	STW-4
1043	AEH-0405-127	H04050133-004	5/20/2004	STW-9
1043	AEH-0405-128	H04050133-005	5/20/2004	STW-9
1035	AEH-0405-129	H04050133-006	5/20/2004	STW-8
1022	AEH-0405-130	H04050133-007	5/20/2004	STW-7
959	AEH-0405-131	H04050133-008	5/20/2004	STW-1
436	AEH-0405-132	H04050133-009	5/20/2004	DH-51
208	AEH-0405-133	H04050133-010	5/20/2004	DH-17
948	AEH-0405-134	H04050133-011	5/20/2004	SPARGE 3
290	AEH-0405-135	H04050133-012	5/20/2004	DH-24
894	AEH-0405-136	H04050133-013	5/20/2004	MW-2
882	AEH-0405-137	H04050133-014	5/20/2004	MW-1
900	AEH-0405-139	H04050133-016	5/20/2004	MW-3
107	AEH-0405-140	H04050141-001	5/21/2004	APSD-7
8	AEH-0405-141	H04050141-002	5/21/2004	APSD-1
62	AEH-0405-142	H04050141-003	5/21/2004	APSD-2
75	AEH-0405-143	H04050141-004	5/21/2004	APSD-3
75	AEH-0405-144	H04050141-005	5/21/2004	APSD-3
313	AEH-0405-145	H04050141-006	5/21/2004	DH-29
248	AEH-0405-146	H04050141-007	5/21/2004	DH-20
46	AEH-0405-148	H04050141-009	5/21/2004	APSD-13
376	AEH-0405-149	H04050141-010	5/21/2004	DH-41
540	AEH-0405-150	H04050162-001	5/24/2004	DH-7
170	AEH-0405-151	H04050162-002	5/24/2004	DH-11
489	AEH-0405-152	H04050162-003	5/24/2004	DH-6
157	AEH-0405-153	H04050162-004	5/24/2004	DH-10A
442	AEH-0405-154	H04050162-005	5/24/2004	DH-52
449	AEH-0405-155	H04050162-006	5/24/2004	DH-53

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400	AEH-0405-157	H04050162-008	5/24/2004	DH-48
503	AEH-0405-158	AEH-0405-158	5/24/2004	DH-63
524	AEH-0405-159	H04050162-009	5/24/2004	DH-67
146	AEH-0405-160	H04050162-010	5/24/2004	DH-1
234	AEH-0405-161	H04050162-011	5/24/2004	DH-2
927	AEH-0405-165	H04050175-001	5/25/2004	MW-7
921	AEH-0405-167	H04050175-003	5/25/2004	MW-6
914	AEH-0405-168	H04050175-004	5/25/2004	MW-5
908	AEH-0405-169	H04050175-005	5/25/2004	MW-4
329	AEH-0405-171	H04050175-007	5/25/2004	DH-3
799	AEH-0405-172	H04050175-008	5/25/2004	EH-58
811	AEH-0405-173	H04050175-009	5/25/2004	EH-59
747	AEH-0405-174	H04050175-010	5/25/2004	EH-52
733	AEH-0405-175	H04050175-011	5/25/2004	EH-51
454	AEH-0405-176	H04050175-012	5/25/2004	DH-54
608	AEH-0405-177	H04050175-013	5/25/2004	EH-103
608	AEH-0405-178	H04050175-014	5/25/2004	EH-103
827	AEH-0405-179	H04050191-001	5/26/2004	EH-60
838	AEH-0405-180	H04050191-002	5/26/2004	EH-61
720	AEH-0405-183	H04050191-005	5/26/2004	EH-50
576	AEH-0405-184	H04050191-006	5/26/2004	EH-100
576	AEH-0405-185	H04050191-007	5/26/2004	EH-100
615	AEH-0405-186	H04050191-008	5/26/2004	EH-104
638	AEH-0405-187	H04050191-009	5/26/2004	EH-109
586	AEH-0405-188	H04050191-010	5/26/2004	EH-101
18	AEH-0405-189	H04050191-011	5/26/2004	APSD-10
386	AEH-0405-190	H04050191-012	5/26/2004	DH-44
373	AEH-0405-191	H04050191-013	5/26/2004	DH-40
347	AEH-0405-192	H04050191-014	5/26/2004	DH-39
494	AEH-0405-193	H04050191-015	5/26/2004	DH-60
261	AEH-0405-194	H04050191-016	5/26/2004	DH-22
498	AEH-0405-195	H04050191-017	5/26/2004	DH-62
556	AEH-0405-196	H04050191-018	5/26/2004	DH-8
519	AEH-0405-197	H04050191-019	5/26/2004	DH-66
383	AEH-0405-198	H04050191-020	5/26/2004	DH-43
405	AEH-0405-199	H04050208-001	5/27/2004	DH-49
1062	AEH-0405-200	H04050208-002	5/27/2004	DH-13
191	AEH-0405-202	H04050208-004	5/27/2004	DH-15
1075	AEH-0405-205	H04050208-007	5/27/2004	DH-18
464	AEH-0405-206	H04050208-008	5/27/2004	DH-57
469	AEH-0405-207	H04050208-009	5/27/2004	DH-58
568	AEH-0405-208	H04050208-010	5/27/2004	DH-9

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475	AEH-0405-210	H04050208-012	5/27/2004	DH-59
379	AEH-0405-211	H04050208-013	5/27/2004	DH-42
1108	AEH-0405-212	H04050208-014	5/27/2004	DH-30
1101	AEH-0405-213	H04050208-015	5/27/2004	DH-27
1143	AEH-0405-214	H04050208-016	5/27/2004	DH-38
270	AEH-0405-215	H04050208-017	5/27/2004	DH-23
342	AEH-0405-216	H04050208-018	5/27/2004	DH-37
1123	AEH-0405-218	H04050208-019	5/27/2004	DH-33
1129	AEH-0405-219	H04050208-020	5/27/2004	DH-34
1089	AEH-0405-220	H04050208-021	5/27/2004	DH-21
336	AEH-0405-221	H04050224-001	5/28/2004	DH-36
1137	AEH-0405-222	H04050224-002	5/28/2004	DH-35
1137	AEH-0405-223	H04050224-003	5/28/2004	DH-35
1114	AEH-0405-224	H04050224-004	5/28/2004	DH-31
221	AEH-0405-226	H04050224-006	5/28/2004	DH-19R
601	AEH-0405-230	AEH-0405-230	5/13/2004	EH-102
123	AEH-0405-231	AEH-0405-231	5/13/2004	APSD-8
28	AEH-0405-232	AEH-0405-232	5/13/2004	APSD-11
37	AEH-0405-233	AEH-0405-233	5/13/2004	APSD-12
85	AEH-0405-234	AEH-0405-234	5/13/2004	APSD-4
133	AEH-0405-235	AEH-0405-235	5/13/2004	APSD-9
302	AEH-0405-236	AEH-0405-236	5/13/2004	DH-28
186	AEH-0405-237	AEH-0405-237	5/13/2004	DH-14
459	AEH-0405-238	AEH-0405-238	5/13/2004	DH-55
516	AEH-0405-239	AEH-0405-239	5/13/2004	DH-65
462	AEH-0405-240	AEH-0405-240	5/13/2004	DH-56
939	AEH-0405-241	AEH-0405-241	5/13/2004	SPARGE 1
941	AEH-0405-242	AEH-0405-242	5/13/2004	SPARGE 2
983	AEH-0405-243	AEH-0405-243	5/13/2004	STW-3
1012	AEH-0405-244	AEH-0405-244	5/13/2004	STW-6
1004	AEH-0405-245	AEH-0405-245	5/13/2004	STW-5
972	AEH-0405-246	AEH-0405-246	5/13/2004	STW-2
107	AEH-0411-100	H04100175-001	10/25/2004	APSD-7
8	AEH-0411-101	H04100175-002	10/25/2004	APSD-1
62	AEH-0411-102	H04100175-003	10/25/2004	APSD-2
75	AEH-0411-103	H04100175-004	10/25/2004	APSD-3
313	AEH-0411-104	H04100175-005	10/25/2004	DH-29
19	AEH-0411-105	H04100175-006	10/25/2004	APSD-10
62	AEH-0411-106	H04100175-007	10/25/2004	APSD-2
787	AEH-0411-109	H04100182-001	10/26/2004	EH-57A
675	AEH-0411-110	H04100182-002	10/26/2004	EH-114
799	AEH-0411-111	H04100182-003	10/26/2004	EH-58

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747	AEH-0411-115	H04100182-006	10/26/2004	EH-52
747	AEH-0411-116	H04100182-007	10/26/2004	EH-52
733	AEH-0411-117	H04100182-008	10/26/2004	EH-51
586	AEH-0411-118	H04100182-009	10/26/2004	EH-101
861	AEH-0411-120	H04100182-011	10/26/2004	EH-64
645	AEH-0411-121	H04100182-012	10/26/2004	EH-110
855	AEH-0411-122	H04100182-013	10/26/2004	EH-63
630	AEH-0411-123	H04100182-014	10/26/2004	EH-107
867	AEH-0411-124	H04100182-015	10/26/2004	EH-65
638	AEH-0411-125	H04100182-016	10/26/2004	EH-109
668	AEH-0411-126	H04100192-001	10/27/2004	EH-113
761	AEH-0411-127	H04100192-002	10/27/2004	EH-53
762	AEH-0411-128	H04100192-003	10/27/2004	EH-53
849	AEH-0411-129	H04100192-004	10/27/2004	EH-62
775	AEH-0411-132	H04100192-007	10/27/2004	EH-54
651	AEH-0411-133	H04100192-008	10/27/2004	EH-111
659	AEH-0411-134	H04100192-009	10/27/2004	EH-112
681	AEH-0411-135	H04100192-010	10/27/2004	EH-115
622	AEH-0411-136	H04100192-011	10/27/2004	EH-106
615	AEH-0411-137	H04100192-012	10/27/2004	EH-104
720	AEH-0411-138	H04100192-013	10/27/2004	EH-50
577	AEH-0411-139	H04100192-014	10/27/2004	EH-100
454	AEH-0411-140	H04100192-015	10/27/2004	DH-54
608	AEH-0411-141	H04100202-001	10/28/2004	EH-103
827	AEH-0411-142	H04100202-002	10/28/2004	EH-60
838	AEH-0411-143	H04100202-003	10/28/2004	EH-61
524	AEH-0411-144	H04100202-004	10/28/2004	DH-67
401	AEH-0411-145	H04100202-005	10/28/2004	DH-48
503	AEH-0411-146	AEH-0411-146	10/28/2004	DH-63
248	AEH-0411-147	H04100202-006	10/28/2004	DH-20
249	AEH-0411-148	H04100202-007	10/28/2004	DH-20
46	AEH-0411-151	H04100202-010	10/28/2004	APSD-13
221	AEH-0411-152	H04100202-011	10/28/2004	DH-19R
376	AEH-0411-153	H04100202-012	10/28/2004	DH-41
379	AEH-0411-154	H04100202-013	10/28/2004	DH-42
383	AEH-0411-155	H04100202-014	10/28/2004	DH-43
498	AEH-0411-156	H04100202-015	10/28/2004	DH-62
495	AEH-0411-157	H04100202-016	10/28/2004	DH-60
386	AEH-0411-158	H04110009-001	10/29/2004	DH-44
347	AEH-0411-159	H04110009-002	10/29/2004	DH-39
373	AEH-0411-160	H04110009-003	10/29/2004	DH-40
389	AEH-0411-161	H04110009-004	10/29/2004	DH-45

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393	AEH-0411-163	H04110009-006	10/29/2004	DH-46
397	AEH-0411-164	H04110009-007	10/29/2004	DH-47
422	AEH-0411-165	H04110009-008	10/29/2004	DH-5
368	AEH-0411-166	H04110009-009	10/29/2004	DH-4
540	AEH-0411-167	H04110009-010	10/29/2004	DH-7
170	AEH-0411-170	H04110009-013	10/29/2004	DH-11
329	AEH-0411-171	H04110018-001	11/1/2004	DH-3
234	AEH-0411-172	H04110018-002	11/1/2004	DH-2
146	AEH-0411-173	H04110018-003	11/1/2004	DH-1
556	AEH-0411-174	H04110018-004	11/1/2004	DH-8
261	AEH-0411-175	H04110018-005	11/1/2004	DH-22
464	AEH-0411-176	H04110018-006	11/1/2004	DH-57
465	AEH-0411-177	H04110018-007	11/1/2004	DH-57
270	AEH-0411-178	H04110018-008	11/1/2004	DH-23
568	AEH-0411-179	H04110018-009	11/1/2004	DH-9
469	AEH-0411-180	H04110018-010	11/1/2004	DH-58
336	AEH-0411-181	H04110018-011	11/1/2004	DH-36
900	AEH-0411-184	H04110018-014	11/1/2004	MW-3
450	AEH-0411-185	H04110029-001	11/2/2004	DH-53
450	AEH-0411-186	H04110029-002	11/2/2004	DH-53
442	AEH-0411-187	H04110029-003	11/2/2004	DH-52
158	AEH-0411-188	H04110029-004	11/2/2004	DH-10A
489	AEH-0411-189	H04110029-005	11/2/2004	DH-6
191	AEH-0411-190	H04110029-006	11/2/2004	DH-15
1075	AEH-0411-193	H04110029-009	11/2/2004	DH-18
1052	AEH-0411-194	H04110029-010	11/2/2004	DH-12
1062	AEH-0411-195	H04110029-011	11/2/2004	DH-13
519	AEH-0411-196	H04110029-012	11/2/2004	DH-66
475	AEH-0411-197	H04110029-013	11/2/2004	DH-59
1102	AEH-0411-198	H04110029-014	11/2/2004	DH-27
405	AEH-0411-199	H04110029-015	11/2/2004	DH-49
948	AEH-0411-200	H04110029-016	11/2/2004	SPARGE 3
290	AEH-0411-201	H04110029-017	11/2/2004	DH-24
508	AEH-0411-202	H04110029-018	11/2/2004	DH-64
208	AEH-0411-203	H04110037-001	11/3/2004	DH-17
432	AEH-0411-204	H04110037-002	11/3/2004	DH-50
437	AEH-0411-205	H04110037-003	11/3/2004	DH-51
437	AEH-0411-206	H04110037-004	11/3/2004	DH-51
914	AEH-0411-207	H04110037-005	11/3/2004	MW-5
894	AEH-0411-208	H04110037-006	11/3/2004	MW-2
908	AEH-0411-210	H04110037-008	11/3/2004	MW-4
882	AEH-0411-211	H04110037-009	11/3/2004	MW-1

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1022	AEH-0411-213	H04110037-011	11/3/2004	STW-7
1035	AEH-0411-214	H04110037-012	11/3/2004	STW-8
1043	AEH-0411-215	H04110037-013	11/3/2004	STW-9
994	AEH-0411-216	H04110037-014	11/3/2004	STW-4
342	AEH-0411-218	H04110037-016	11/3/2004	DH-37
1143	AEH-0411-219	H04110037-017	11/3/2004	DH-38
1119	AEH-0411-220	AEH-0411-220	11/3/2004	DH-32
1123	AEH-0411-221	H04110037-018	11/3/2004	DH-33
1108	AEH-0411-222	H04110037-019	11/3/2004	DH-30
1129	AEH-0411-223	H04110037-020	11/3/2004	DH-34
1089	AEH-0411-224	H04110037-021	11/3/2004	DH-21
1137	AEH-0411-225	H04110037-022	11/3/2004	DH-35
1114	AEH-0411-226	H04110037-023	11/3/2004	DH-31
601	AEH-0411-240	z	10/22/2004	EH-102
123	AEH-0411-241	z	10/22/2004	APSD-8
37	AEH-0411-242	z	10/22/2004	APSD-12
86	AEH-0411-243	z	10/22/2004	APSD-4
133	AEH-0411-244	z	10/22/2004	APSD-9
46	AEH-0411-245	z	10/22/2004	APSD-13
302	AEH-0411-246	z	10/22/2004	DH-28
186	AEH-0411-247	z	10/22/2004	DH-14
459	AEH-0411-248	z	10/22/2004	DH-55
516	AEH-0411-249	z	10/22/2004	DH-65
462	AEH-0411-250	z	10/22/2004	DH-56
939	AEH-0411-251	z	10/22/2004	SPARGE 1
941	AEH-0411-252	z	10/22/2004	SPARGE 2
983	AEH-0411-253	z	10/22/2004	STW-3
1012	AEH-0411-254	z	10/22/2004	STW-6
1004	AEH-0411-255	z	10/22/2004	STW-5
972	AEH-0411-256	z	10/22/2004	STW-2
28	AEH-0411-257	z	10/22/2004	APSD-11
800	AEH-0505-100	C05050399-001	5/10/2005	EH-58
811	AEH-0505-101	C05050399-002	5/10/2005	EH-59
747	AEH-0505-102	C05050399-003	5/10/2005	EH-52
762	AEH-0505-103	C05050399-004	5/10/2005	EH-53
668	AEH-0505-104	C05050399-005	5/10/2005	EH-113
668	AEH-0505-105	C05050399-006	5/10/2005	EH-113
849	AEH-0505-106	C05050399-007	5/10/2005	EH-62
776	AEH-0505-107	C05050399-008	5/10/2005	EH-54
861	AEH-0505-108	C05050399-009	5/10/2005	EH-64
868	AEH-0505-109	C05050399-010	5/10/2005	EH-65
630	AEH-0505-110	C05050399-011	5/10/2005	EH-107

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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609	AEH-0505-111	C05050399-012	5/10/2005	EH-103
645	AEH-0505-113	C05050444-001	5/11/2005	EH-110
645	AEH-0505-114	C05050444-002	5/11/2005	EH-110
856	AEH-0505-115	C05050444-003	5/11/2005	EH-63
622	AEH-0505-116	C05050444-004	5/11/2005	EH-106
639	AEH-0505-117	C05050444-005	5/11/2005	EH-109
615	AEH-0505-118	C05050444-006	5/11/2005	EH-104
682	AEH-0505-119	C05050444-007	5/11/2005	EH-115
652	AEH-0505-120	C05050444-008	5/11/2005	EH-111
659	AEH-0505-121	C05050444-009	5/11/2005	EH-112
720	AEH-0505-122	C05050444-010	5/11/2005	EH-50
577	AEH-0505-123	C05050444-011	5/11/2005	EH-100
733	AEH-0505-124	C05050444-012	5/11/2005	EH-51
586	AEH-0505-125	C05050444-013	5/11/2005	EH-101
489	AEH-0505-127	C05050485-001	5/12/2005	DH-6
191	AEH-0505-128	C05050485-002	5/12/2005	DH-15
158	AEH-0505-129	C05050485-003	5/12/2005	DH-10A
442	AEH-0505-130	C05050485-004	5/12/2005	DH-52
450	AEH-0505-131	C05050485-005	5/12/2005	DH-53
146	AEH-0505-132	C05050485-006	5/12/2005	DH-1
234	AEH-0505-133	C05050485-007	5/12/2005	DH-2
107	AEH-0505-134	C05050485-008	5/12/2005	APSD-7
108	AEH-0505-135	C05050485-009	5/12/2005	APSD-7
8	AEH-0505-136	C05050485-010	5/12/2005	APSD-1
62	AEH-0505-137	C05050485-011	5/12/2005	APSD-2
76	AEH-0505-138	C05050485-012	5/12/2005	APSD-3
46	AEH-0505-139	C05050485-013	5/12/2005	APSD-13
19	AEH-0505-142	C05050527-001	5/13/2005	APSD-10
249	AEH-0505-143	C05050527-002	5/13/2005	DH-20
313	AEH-0505-144	C05050527-003	5/13/2005	DH-29
313	AEH-0505-145	C05050527-004	5/13/2005	DH-29
390	AEH-0505-147	C05050527-006	5/13/2005	DH-45
393	AEH-0505-148	C05050527-007	5/13/2005	DH-46
397	AEH-0505-149	C05050527-008	5/13/2005	DH-47
422	AEH-0505-150	C05050527-009	5/13/2005	DH-5
368	AEH-0505-151	C05050527-010	5/13/2005	DH-4
198	AEH-0505-152	AEH-0505-152	5/13/2005	DH-16
1119	AEH-0505-153	AEH-0505-153	5/13/2005	DH-32
1052	AEH-0505-154	AEH-0505-154	5/13/2005	DH-12
401	AEH-0505-155	AEH-0505-155	5/13/2005	DH-48
437	AEH-0505-157	C05050640-001	5/16/2005	DH-51
959	AEH-0505-158	C05050640-002	5/16/2005	STW-1
1023	AEH-0505-159	C05050640-003	5/16/2005	STW-7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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1035	AEH-0505-160	C05050640-004	5/16/2005	STW-8
1043	AEH-0505-161	C05050640-005	5/16/2005	STW-9
994	AEH-0505-162	C05050640-006	5/16/2005	STW-4
432	AEH-0505-163	C05050640-007	5/16/2005	DH-50
948	AEH-0505-164	C05050640-008	5/16/2005	SPARGE 3
290	AEH-0505-165	C05050640-009	5/16/2005	DH-24
291	AEH-0505-166	C05050640-010	5/16/2005	DH-24
1102	AEH-0505-167	C05050640-011	5/16/2005	DH-27
405	AEH-0505-170	AEH-0505-170	5/17/2005	DH-49
540	AEH-0505-171	C05050640-014	5/17/2005	DH-7
170	AEH-0505-172	C05050640-015	5/17/2005	DH-11
914	AEH-0505-173	C05050640-016	5/17/2005	MW-5
914	AEH-0505-174	C05050640-017	5/17/2005	MW-5
908	AEH-0505-175	C05050640-018	5/17/2005	MW-4
882	AEH-0505-176	C05050640-019	5/17/2005	MW-1
894	AEH-0505-177	C05050640-020	5/17/2005	MW-2
900	AEH-0505-178	C05050640-021	5/17/2005	MW-3
787	AEH-0505-179	C05050640-022	5/17/2005	EH-57A
675	AEH-0505-180	C05050640-023	5/17/2005	EH-114
827	AEH-0505-181	C05050640-024	5/17/2005	EH-60
838	AEH-0505-182	C05050640-025	5/17/2005	EH-61
208	AEH-0505-185	C05050691-001	5/18/2005	DH-17
469	AEH-0505-186	C05050691-002	5/18/2005	DH-58
386	AEH-0505-187	C05050691-003	5/18/2005	DH-44
347	AEH-0505-188	C05050691-004	5/18/2005	DH-39
373	AEH-0505-189	C05050691-005	5/18/2005	DH-40
556	AEH-0505-190	C05050691-006	5/18/2005	DH-8
557	AEH-0505-191	C05050691-007	5/18/2005	DH-8
499	AEH-0505-192	C05050691-008	5/18/2005	DH-62
495	AEH-0505-193	C05050691-009	5/18/2005	DH-60
519	AEH-0505-194	C05050691-010	5/18/2005	DH-66
1076	AEH-0505-195	C05050691-011	5/18/2005	DH-18
1062	AEH-0505-197	C05050691-013	5/18/2005	DH-13
508	AEH-0505-198	C05050691-014	5/18/2005	DH-64
524	AEH-0505-199	C05050691-015	5/18/2005	DH-67
376	AEH-0505-201	C05050744-001	5/19/2005	DH-41
379	AEH-0505-202	C05050744-002	5/19/2005	DH-42
384	AEH-0505-203	C05050744-003	5/19/2005	DH-43
475	AEH-0505-204	C05050744-004	5/19/2005	DH-59
475	AEH-0505-205	C05050744-005	5/19/2005	DH-59
336	AEH-0505-206	C05050744-006	5/19/2005	DH-36
1109	AEH-0505-207	C05050744-007	5/19/2005	DH-30
342	AEH-0505-208	C05050744-008	5/19/2005	DH-37

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465	AEH-0505-210	C05050744-010	5/19/2005	DH-57
270	AEH-0505-211	C05050744-011	5/19/2005	DH-23
455	AEH-0505-212	C05050744-012	5/19/2005	DH-54
1123	AEH-0505-213	AEH-0505-213	5/19/2005	DH-33
221	AEH-0505-215	C05050744-014	5/19/2005	DH-19R
329	AEH-0505-216	C05050744-015	5/19/2005	DH-3
568	AEH-0505-217	AEH-0505-216	5/16/2005	DH-9
262	AEH-0505-219	C05050789-001	5/20/2005	DH-22
1129	AEH-0505-220	C05050789-002	5/20/2005	DH-34
1129	AEH-0505-221	C05050789-003	5/20/2005	DH-34
1090	AEH-0505-222	C05050789-004	5/20/2005	DH-21
1137	AEH-0505-223	C05050789-005	5/20/2005	DH-35
1114	AEH-0505-224	C05050789-006	5/20/2005	DH-31
503	AEH-0505-225	C05050789-007	5/20/2005	DH-63
86	AEH-0505-APSD4	AEH-0505-APSD4	5/9/2005	APSD-4
123	AEH-0505-APSD8	AEH-0505-APSD8	5/9/2005	APSD-8
133	AEH-0505-APSD9	AEH-0505-APSD9	5/9/2005	APSD-9
28	AEH-0505-APSD11	AEH-0505-APSD11	5/9/2005	APSD-11
37	AEH-0505-APSD12	AEH-0505-APSD12	5/9/2005	APSD-12
186	AEH-0505-DH14	AEH-0505-DH14	5/9/2005	DH-14
459	AEH-0505-DH55	AEH-0505-DH55	5/9/2005	DH-55
462	AEH-0505-DH56	AEH-0505-DH56	5/9/2005	DH-56
496	AEH-0505-DH61	AEH-0505-DH61	5/9/2005	DH-61
516	AEH-0505-DH65	AEH-0505-DH65	5/9/2005	DH-65
302	AEH-0505-DH258	AEH-0505-DH258	5/9/2005	DH-28
601	AEH-0505-EH102	AEH-0505-EH102	5/9/2005	EH-102
940	AEH-0505-SPARGE 1	AEH-0505-SPARGE 1	5/9/2005	SPARGE 1
941	AEH-0505-SPARGE 2	AEH-0505-SPARGE 2	5/9/2005	SPARGE 2
972	AEH-0505-STW2	AEH-0505-STW2	5/9/2005	STW-2
983	AEH-0505-STW3	AEH-0505-STW3	5/9/2005	STW-3
1004	AEH-0505-STW5	AEH-0505-STW5	5/9/2005	STW-5
1012	AEH-0505-STW6	AEH-0505-STW6	5/9/2005	STW-6
676	AEH-0511-100	H05110055-001	11/7/2005	EH-114
788	AEH-0511-101	H05110055-002	11/7/2005	EH-57A
668	AEH-0511-102	H05110055-003	11/7/2005	EH-113
762	AEH-0511-103	H05110055-004	11/7/2005	EH-53
762	AEH-0511-104	H05110055-005	11/7/2005	EH-53
849	AEH-0511-105	H05110055-006	11/7/2005	EH-62
776	AEH-0511-106	H05110055-007	11/7/2005	EH-54
861	AEH-0511-107	H05110055-008	11/7/2005	EH-64
856	AEH-0511-110	H05110071-001	11/8/2005	EH-63
630	AEH-0511-111	H05110071-002	11/8/2005	EH-107

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622	AEH-0511-113	H05110071-004	11/8/2005	EH-106
682	AEH-0511-114	H05110071-005	11/8/2005	EH-115
652	AEH-0511-115	H05110071-006	11/8/2005	EH-111
661	AEH-0511-116	H05110071-007	11/8/2005	EH-112
645	AEH-0511-117	H05110071-008	11/8/2005	EH-110
639	AEH-0511-118	H05110071-009	11/8/2005	EH-109
639	AEH-0511-119	H05110071-010	11/8/2005	EH-109
615	AEH-0511-120	H05110071-011	11/8/2005	EH-104
577	AEH-0511-121	H05110071-012	11/8/2005	EH-100
721	AEH-0511-123	H05110071-014	11/8/2005	EH-50
609	AEH-0511-125	H05110081-001	11/9/2005	EH-103
828	AEH-0511-126	H05110081-002	11/9/2005	EH-60
838	AEH-0511-127	H05110081-003	11/9/2005	EH-61
455	AEH-0511-128	H05110081-004	11/9/2005	DH-54
733	AEH-0511-129	H05110081-005	11/9/2005	EH-51
586	AEH-0511-130	H05110081-006	11/9/2005	EH-101
747	AEH-0511-131	H05110081-007	11/9/2005	EH-52
800	AEH-0511-132	H05110081-008	11/9/2005	EH-58
811	AEH-0511-133	H05110081-009	11/9/2005	EH-59
811	AEH-0511-134	H05110081-010	11/9/2005	EH-59
540	AEH-0511-135	H05110081-011	11/9/2005	DH-7
170	AEH-0511-136	H05110081-012	11/9/2005	DH-11
108	AEH-0511-138	H05110081-014	11/9/2005	APSD-7
19	AEH-0511-139	H05110081-015	11/9/2005	APSD-10
76	AEH-0511-140	H05110081-016	11/9/2005	APSD-3
62	AEH-0511-141	H05110081-017	11/9/2005	APSD-2
397	AEH-0511-143	H05110092-001	11/9/2005	DH-47
8	AEH-0511-144	H05110092-002	11/9/2005	APSD-1
393	AEH-0511-145	H05110092-003	11/9/2005	DH-46
390	AEH-0511-146	H05110092-004	11/9/2005	DH-45
249	AEH-0511-147	H05110092-005	11/9/2005	DH-20
329	AEH-0511-148	H05110092-006	11/10/2005	DH-3
914	AEH-0511-149	H05110092-007	11/10/2005	MW-5
685	AEH-0511-151	H05110092-009	11/10/2005	EH-116
687	AEH-0511-152	H05110092-010	11/10/2005	EH-116
692	AEH-0511-153	H05110092-011	11/10/2005	EH-117
908	AEH-0511-155	H05110092-001	11/11/2005	MW-4
908	AEH-0511-155	H05110105-001	11/11/2005	MW-4
882	AEH-0511-156	H05110105-002	11/11/2005	MW-1
894	AEH-0511-157	H05110105-003	11/11/2005	MW-2
900	AEH-0511-158	H05110105-004	11/11/2005	MW-3
234	AEH-0511-159	H05110105-005	11/11/2005	DH-2

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146	AEH-0511-161	H05110105-007	11/11/2005	DH-1
401	AEH-0511-162	AEH-0511-162	11/11/2005	DH-48
524	AEH-0511-163	H05110105-008	11/11/2005	DH-67
519	AEH-0511-164	H05110105-009	11/11/2005	DH-66
557	AEH-0511-165	H05110105-010	11/11/2005	DH-8
499	AEH-0511-167	H05110105-012	11/11/2005	DH-62
47	AEH-0511-168	H05110105-013	11/11/2005	APSD-13
387	AEH-0511-170	H05110113-001	11/14/2005	DH-44
373	AEH-0511-171	H05110113-002	11/14/2005	DH-40
347	AEH-0511-172	H05110136-001	11/16/2005	DH-39
262	AEH-0511-173	H05110136-002	11/16/2005	DH-22
262	AEH-0511-174	H05110136-003	11/16/2005	DH-22
495	AEH-0511-175	H05110136-004	11/16/2005	DH-60
376	AEH-0511-176	H05110136-005	11/16/2005	DH-41
221	AEH-0511-177	H05110136-006	11/16/2005	DH-19R
379	AEH-0511-178	H05110136-007	11/16/2005	DH-42
384	AEH-0511-179	H05110136-008	11/16/2005	DH-43
469	AEH-0511-180	H05110136-009	11/16/2005	DH-58
336	AEH-0511-181	H05110136-010	11/16/2005	DH-36
208	AEH-0511-182	H05110136-011	11/16/2005	DH-17
569	AEH-0511-183	AEH-0511-183	11/16/2005	DH-9
437	AEH-0511-185	H05110136-013	11/16/2005	DH-51
959	AEH-0511-186	H05110136-014	11/16/2005	STW-1
1023	AEH-0511-187	H05110136-015	11/16/2005	STW-7
1035	AEH-0511-188	H05110136-016	11/16/2005	STW-8
1044	AEH-0511-189	H05110136-017	11/16/2005	STW-9
994	AEH-0511-190	H05110136-018	11/16/2005	STW-4
949	AEH-0511-193	H05110153-001	11/17/2005	SPARGE 3
291	AEH-0511-194	H05110153-002	11/17/2005	DH-24
509	AEH-0511-195	H05110153-003	11/17/2005	DH-64
509	AEH-0511-196	H05110153-004	11/17/2005	DH-64
432	AEH-0511-197	H05110153-005	11/17/2005	DH-50
405	AEH-0511-198	H05110153-006	11/17/2005	DH-49
489	AEH-0511-199	H05110153-007	11/17/2005	DH-6
192	AEH-0511-200	H05110153-008	11/17/2005	DH-15
443	AEH-0511-202	H05110153-010	11/17/2005	DH-52
450	AEH-0511-203	H05110153-011	11/17/2005	DH-53
158	AEH-0511-204	H05110153-012	11/17/2005	DH-10A
1076	AEH-0511-205	H05110153-013	11/17/2005	DH-18
1062	AEH-0511-206	H05110153-014	11/17/2005	DH-13
503	AEH-0511-208	H05110164-001	11/18/2005	DH-63
476	AEH-0511-209	H05110164-002	11/18/2005	DH-59

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1102	AEH-0511-211	H05110164-004	11/18/2005	DH-27
1102	AEH-0511-212	H05110164-005	11/18/2005	DH-27
422	AEH-0511-213	H05110164-006	11/18/2005	DH-5
369	AEH-0511-214	H05110164-007	11/18/2005	DH-4
342	AEH-0511-216	H05110164-009	11/18/2005	DH-37
1143	AEH-0511-217	H05110164-010	11/18/2005	DH-38
1123	AEH-0511-218	H05110164-011	11/18/2005	DH-33
1119	AEH-0511-219	AEH-0511-219	11/18/2005	DH-32
465	AEH-0511-220	H05110164-012	11/18/2005	DH-57
270	AEH-0511-221	H05110164-013	11/18/2005	DH-23
1137	AEH-0511-222	H05110164-014	11/18/2005	DH-35
1090	AEH-0511-223	H05110164-015	11/18/2005	DH-21
1129	AEH-0511-224	H05110164-016	11/18/2005	DH-34
1115	AEH-0511-225	H05110164-017	11/18/2005	DH-31
313	AEH-0511-227	H05110173-001	11/21/2005	DH-29
1052	AEH-0511-237	AEH-0511-237	11/3/2005	DH-12
198	AEH-0511-238	AEH-0511-238	11/3/2005	DH-16
601	AEH-0511-239	AEH-0511-239	11/3/2005	EH-102
124	AEH-0511-240	AEH-0511-240	11/3/2005	APSD-8
28	AEH-0511-241	AEH-0511-241	11/3/2005	APSD-11
37	AEH-0511-242	AEH-0511-242	11/3/2005	APSD-12
86	AEH-0511-243	AEH-0511-243	11/3/2005	APSD-4
134	AEH-0511-244	AEH-0511-244	11/3/2005	APSD-9
496	AEH-0511-245	AEH-0511-245	11/3/2005	DH-61
302	AEH-0511-246	AEH-0511-246	11/3/2005	DH-28
186	AEH-0511-247	AEH-0511-247	11/3/2005	DH-14
972	AEH-0511-248	AEH-0511-248	11/3/2005	STW-2
459	AEH-0511-249	AEH-0511-249	11/3/2005	DH-55
517	AEH-0511-250	AEH-0511-250	11/3/2005	DH-65
463	AEH-0511-251	AEH-0511-251	11/3/2005	DH-56
921	AEH-0511-252	AEH-0511-252	11/3/2005	MW-6
940	AEH-0511-253	AEH-0511-253	11/3/2005	SPARGE 1
941	AEH-0511-254	AEH-0511-254	11/3/2005	SPARGE 2
983	AEH-0511-255	AEH-0511-255	11/3/2005	STW-3
1012	AEH-0511-256	AEH-0511-256	11/3/2005	STW-6
1004	AEH-0511-257	AEH-0511-257	11/3/2005	STW-5
927	AEH-0511-258	AEH-0511-258	11/3/2005	MW-7
788	AEH-0605-100	H06050010-001	5/1/2006	EH-57A
676	AEH-0605-101	H06050010-002	5/1/2006	EH-114
687	AEH-0605-102	H06050010-003	5/1/2006	EH-116
692	AEH-0605-103	H06050010-004	5/1/2006	EH-117
668	AEH-0605-104	H06050010-005	5/1/2006	EH-113

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762	AEH-0605-105	H06050010-006	5/1/2006	EH-53
762	AEH-0605-106	H06050010-007	5/1/2006	EH-53
849	AEH-0605-107	H06050010-008	5/1/2006	EH-62
776	AEH-0605-109	H06050010-010	5/1/2006	EH-54
652	AEH-0605-111	H06050019-001	5/2/2006	EH-111
661	AEH-0605-112	H06050019-002	5/2/2006	EH-112
682	AEH-0605-113	H06050019-003	5/2/2006	EH-115
623	AEH-0605-114	H06050019-004	5/2/2006	EH-106
623	AEH-0605-115	H06050019-005	5/2/2006	EH-106
868	AEH-0605-116	H06050019-006	5/2/2006	EH-65
630	AEH-0605-117	H06050019-007	5/2/2006	EH-107
861	AEH-0605-120	H06050019-010	5/2/2006	EH-64
645	AEH-0605-121	H06050028-001	5/2/2006	EH-110
639	AEH-0605-122	H06050028-002	5/2/2006	EH-109
615	AEH-0605-123	H06050028-003	5/2/2006	EH-104
721	AEH-0605-124	H06050028-004	5/2/2006	EH-50
455	AEH-0605-125	H06050038-001	5/3/2006	DH-54
609	AEH-0605-126	H06050038-002	5/3/2006	EH-103
828	AEH-0605-127	H06050038-003	5/3/2006	EH-60
838	AEH-0605-128	H06050038-004	5/3/2006	EH-61
800	AEH-0605-129	H06050038-005	5/3/2006	EH-58
812	AEH-0605-130	H06050038-006	5/3/2006	EH-59
577	AEH-0605-133	H06050038-009	5/3/2006	EH-100
577	AEH-0605-134	H06050038-010	5/3/2006	EH-100
587	AEH-0605-135	H06050044-001	5/3/2006	EH-101
733	AEH-0605-136	H06050044-002	5/3/2006	EH-51
748	AEH-0605-137	H06050044-003	5/3/2006	EH-52
856	AEH-0605-138	H06050056-001	5/4/2006	EH-63
540	AEH-0605-139	H06050056-002	5/4/2006	DH-7
170	AEH-0605-140	H06050056-003	5/4/2006	DH-11
369	AEH-0605-142	H06050056-005	5/4/2006	DH-4
369	AEH-0605-143	H06050056-006	5/4/2006	DH-4
108	AEH-0605-145	H06050056-008	5/4/2006	APSD-7
19	AEH-0605-146	H06050056-009	5/4/2006	APSD-10
329	AEH-0605-147	H06050060-001	5/4/2006	DH-3
8	AEH-0605-148	H06050060-002	5/4/2006	APSD-1
62	AEH-0605-149	H06050060-003	5/4/2006	APSD-2
76	AEH-0605-150	H06050060-004	5/4/2006	APSD-3
314	AEH-0605-151	H06050060-005	5/4/2006	DH-29
390	AEH-0605-152	H06050060-006	5/4/2006	DH-45
393	AEH-0605-153	H06050060-007	5/4/2006	DH-46
397	AEH-0605-154	H06050065-001	5/5/2006	DH-47
249	AEH-0605-155	H06050065-002	5/5/2006	DH-20

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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373	AEH-0605-158	H06050065-005	5/5/2006	DH-40
347	AEH-0605-159	H06050065-006	5/5/2006	DH-39
495	AEH-0605-161	H06050065-008	5/5/2006	DH-60
557	AEH-0605-162	H06050065-009	5/5/2006	DH-8
499	AEH-0605-163	H06050065-010	5/5/2006	DH-62
499	AEH-0605-164	H06050065-011	5/5/2006	DH-62
915	AEH-0605-165	H06050069-001	5/5/2006	MW-5
908	AEH-0605-166	H06050069-002	5/5/2006	MW-4
882	AEH-0605-167	H06050069-003	5/5/2006	MW-1
895	AEH-0605-168	H06050069-004	5/5/2006	MW-2
900	AEH-0605-169	H06050069-005	5/5/2006	MW-3
422	AEH-0605-170	H06050082-001	5/8/2006	DH-5
490	AEH-0605-171	H06050082-002	5/8/2006	DH-6
192	AEH-0605-172	H06050082-003	5/8/2006	DH-15
192	AEH-0605-173	H06050082-004	5/8/2006	DH-15
443	AEH-0605-175	H06050082-006	5/8/2006	DH-52
450	AEH-0605-176	H06050082-007	5/8/2006	DH-53
158	AEH-0605-177	H06050082-008	5/8/2006	DH-10A
525	AEH-0605-178	H06050082-009	5/8/2006	DH-67
47	AEH-0605-179	H06050082-010	5/8/2006	APSD-13
503	AEH-0605-182	H06050086-003	5/8/2006	DH-63
1076	AEH-0605-183	H06050086-004	5/8/2006	DH-18
1062	AEH-0605-184	H06050086-005	5/8/2006	DH-13
569	AEH-0605-185	AEH-0605-185	5/8/2006	DH-9
1120	AEH-0605-186	AEH-0605-186	5/8/2006	DH-32
198	AEH-0605-187	AEH-0605-187	5/9/2006	DH-16
209	AEH-0605-188	H06050103-001	5/9/2006	DH-17
437	AEH-0605-189	H06050103-002	5/9/2006	DH-51
959	AEH-0605-190	H06050103-003	5/9/2006	STW-1
1023	AEH-0605-191	H06050103-004	5/9/2006	STW-7
1035	AEH-0605-192	H06050103-005	5/9/2006	STW-8
1044	AEH-0605-193	H06050103-006	5/9/2006	STW-9
994	AEH-0605-194	H06050103-007	5/9/2006	STW-4
432	AEH-0605-196	H06050103-009	5/9/2006	DH-50
509	AEH-0605-198	H06050103-011	5/9/2006	DH-64
509	AEH-0605-199	H06050103-012	5/9/2006	DH-64
949	AEH-0605-200	H06050103-013	5/9/2006	SPARGE 3
291	AEH-0605-201	H06050103-014	5/9/2006	DH-24
406	AEH-0605-202	H06050119-001	5/10/2006	DH-49
401	AEH-0605-203	AEH-0605-203	5/10/2006	DH-48
146	AEH-0605-204	H06050119-002	5/10/2006	DH-1
234	AEH-0605-206	H06050119-004	5/10/2006	DH-2

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337	AEH-0605-207	H06050119-005	5/10/2006	DH-36
469	AEH-0605-208	H06050119-006	5/10/2006	DH-58
520	AEH-0605-209	H06050119-007	5/10/2006	DH-66
520	AEH-0605-210	H06050119-008	5/10/2006	DH-66
376	AEH-0605-212	H06050119-010	5/10/2006	DH-41
262	AEH-0605-213	H06050119-011	5/10/2006	DH-22
222	AEH-0605-214	H06050126-001	5/10/2006	DH-19R
476	AEH-0605-215	H06050126-002	5/10/2006	DH-59
465	AEH-0605-216	H06050126-003	5/10/2006	DH-57
271	AEH-0605-217	H06050126-004	5/10/2006	DH-23
1052	AEH-0605-218	AEH-0605-218	5/10/2006	DH-12
1109	AEH-0605-219	H06050126-005	5/10/2006	DH-30
1102	AEH-0605-220	H06050126-006	5/10/2006	DH-27
1143	AEH-0605-221	H06050137-001	5/11/2006	DH-38
343	AEH-0605-222	H06050137-002	5/11/2006	DH-37
343	AEH-0605-223	H06050137-003	5/11/2006	DH-37
1115	AEH-0605-224	H06050137-004	5/11/2006	DH-31
1123	AEH-0605-227	AEH-0605-227	5/11/2006	DH-33
1137	AEH-0605-228	H06050137-007	5/11/2006	DH-35
1130	AEH-0605-229	H06050137-008	5/11/2006	DH-34
1090	AEH-0605-230	H06050137-009	5/11/2006	DH-21
380	AEH-0605-231	H06050137-010	5/11/2006	DH-42
384	AEH-0605-232	H06050137-011	5/11/2006	DH-43
86	AEH-0605-APSD4	AEH-0605-APSD4	4/25/2006	APSD-4
134	AEH-0605-APSD6	AEH-605-APSD6	4/25/2006	APSD-9
124	AEH-0605-APSD8	AEH-0605-APSD8	4/25/2006	APSD-8
29	AEH-0605-APSD11	AEH-0605-APSD11	4/25/2006	APSD-11
38	AEH-0605-APSD12	AEH-0605-APSD12	4/25/2006	APSD-12
187	AEH-0605-DH14	AEH-0605-DH14	4/28/2006	DH-14
302	AEH-0605-DH28	AEH-0605-DH28	4/25/2006	DH-28
459	AEH-0605-DH55	AEH-0605-DH55	4/28/2006	DH-55
463	AEH-0605-DH56	AEH-0605-DH56	4/28/2006	DH-56
496	AEH-0605-DH61	AEH-0605-DH61	4/25/2006	DH-61
517	AEH-0605-DH65	AEH-0605-DH65	4/28/2006	DH-65
601	AEH-0605-EH102	AEH-0605-EH102	4/25/2006	EH-102
922	AEH-0605-MW6	AEH-0605-MW6	4/28/2006	MW-6
927	AEH-0605-MW7	AEH-0605-MW7	4/28/2006	MW-7
940	AEH-0605-SPAR1	AEH-0605-SPAR1	4/28/2006	SPARGE 1
942	AEH-0605-SPAR2	AEH-0605-SPAR2	4/28/2006	SPARGE 2
972	AEH-0605-STW2	AEH-0605-STW2	4/28/2006	STW-2
984	AEH-0605-STW3	AEH-0605-STW3	4/28/2006	STW-3
1004	AEH-0605-STW5	AEH-0605-STW5	4/28/2006	STW-5
1012	AEH-0605-STW6	AEH-0605-STW6	4/28/2006	STW-6

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763	AEH-0606-101	H06060187-002	6/19/2006	EH-53
849	AEH-0606-102	H06060187-003	6/19/2006	EH-62
776	AEH-0606-103	H06060187-004	6/19/2006	EH-54
776	AEH-0606-104	H06060187-005	6/19/2006	EH-54
652	AEH-0606-107	H06060187-008	6/19/2006	EH-111
661	AEH-0606-108	H06060201-001	6/20/2006	EH-112
682	AEH-0606-109	H06060201-002	6/20/2006	EH-115
623	AEH-0606-110	H06060201-003	6/20/2006	EH-106
868	AEH-0606-111	H06060201-004	6/20/2006	EH-65
631	AEH-0606-112	H06060201-005	6/20/2006	EH-107
631	AEH-0606-113	H06060201-006	6/20/2006	EH-107
861	AEH-0606-115	H06060201-008	6/20/2006	EH-64
645	AEH-0606-117	H06060201-010	6/20/2006	EH-110
639	AEH-0606-118	H06060201-011	6/20/2006	EH-109
788	AEH-0606-119	H06060206-001	6/20/2006	EH-57A
676	AEH-0606-120	H06060206-002	6/20/2006	EH-114
687	AEH-0606-121	H06060206-003	6/20/2006	EH-116
692	AEH-0606-122	H06060206-004	6/20/2006	EH-117
455	AEH-0606-123	H06060217-001	6/21/2006	DH-54
609	AEH-0606-124	H06060217-002	6/21/2006	EH-103
828	AEH-0606-125	H06060217-003	6/21/2006	EH-60
838	AEH-0606-126	H06060217-004	6/21/2006	EH-61
721	AEH-0606-127	H06060217-005	6/21/2006	EH-50
577	AEH-0606-128	H06060217-006	6/21/2006	EH-100
578	AEH-0606-129	H06060217-007	6/21/2006	EH-100
856	AEH-0606-131	H06060220-001	6/21/2006	EH-63
800	AEH-0606-133	H06060220-003	6/21/2006	EH-58
748	AEH-0606-134	H06060220-004	6/21/2006	EH-52
616	AEH-0606-135	H06060237-001	6/22/2006	EH-104
587	AEH-0606-136	H06060237-002	6/22/2006	EH-101
587	AEH-0606-137	H06060237-003	6/22/2006	EH-101
734	AEH-0606-140	H06060237-006	6/22/2006	EH-51
812	AEH-0606-141	z	6/22/2006	EH-59
631	AEH-0609-100	H06090189-001	9/21/2006	EH-107
646	AEH-0609-101	H06090189-002	9/21/2006	EH-110
609	AEH-0609-102	H06090189-003	9/21/2006	EH-103
616	AEH-0609-103	H06090189-004	9/21/2006	EH-104
676	AEH-0609-104	H06090189-005	9/21/2006	EH-114
687	AEH-0609-105	H06090189-006	9/21/2006	EH-116
692	AEH-0609-106	H06090189-007	9/21/2006	EH-117
692	AEH-0609-107	H06090189-008	9/21/2006	EH-117
669	AEH-0609-110	H06090199-001	9/22/2006	EH-113

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682	AEH-0609-112	H06090199-003	9/22/2006	EH-115
652	AEH-0609-113	H06090199-004	9/22/2006	EH-111
652	AEH-0609-114	H06090199-005	9/22/2006	EH-111
623	AEH-0609-115	H06090199-006	9/22/2006	EH-106
587	AEH-0609-117	H06090199-008	9/22/2006	EH-101
578	AEH-0609-119	H06090199-010	9/22/2006	EH-100
639	AEH-0609-120	H06090211-001	9/25/2006	EH-109
788	AEH-0611-100	H06110064-001	11/7/2006	EH-57A
763	AEH-0611-103	H06110064-002	11/7/2006	EH-53
850	AEH-0611-104	H06110064-003	11/7/2006	EH-62
776	AEH-0611-106	H06110064-005	11/7/2006	EH-54
868	AEH-0611-108	H06110064-007	11/7/2006	EH-65
862	AEH-0611-109	H06110064-008	11/7/2006	EH-64
862	AEH-0611-110	H06110064-009	11/7/2006	EH-64
721	AEH-0611-111	H06110064-010	11/7/2006	EH-50
839	AEH-0611-112	H06110064-011	11/7/2006	EH-61
828	AEH-0611-113	H06110064-012	11/7/2006	EH-60
455	AEH-0611-114	H06110064-013	11/7/2006	DH-54
856	AEH-0611-115	H06110070-001	11/8/2006	EH-63
734	AEH-0611-116	H06110070-002	11/8/2006	EH-51
748	AEH-0611-117	H06110070-003	11/8/2006	EH-52
748	AEH-0611-118	H06110070-004	11/8/2006	EH-52
812	AEH-0611-119	H06110070-005	11/8/2006	EH-59
800	AEH-0611-121	H06110070-007	11/8/2006	EH-58
540	AEH-0611-122	H06110070-008	11/8/2006	DH-7
171	AEH-0611-123	H06110071-001	11/8/2006	DH-11
901	AEH-0611-124	H06110071-002	11/8/2006	MW-3
909	AEH-0611-126	H06110071-004	11/8/2006	MW-4
883	AEH-0611-127	H06110071-005	11/8/2006	MW-1
895	AEH-0611-128	H06110071-006	11/8/2006	MW-2
234	AEH-0611-129	H06110071-007	11/8/2006	DH-2
887	AEH-0611-130	H06110081-001	11/9/2006	MW-10
929	AEH-0611-131	H06110081-002	11/9/2006	MW-8
933	AEH-0611-132	H06110081-003	11/9/2006	MW-9
933	AEH-0611-133	H06110081-004	11/9/2006	MW-9
915	AEH-0611-134	H06110081-005	11/9/2006	MW-5
329	AEH-0611-137	H06110081-008	11/9/2006	DH-3
503	AEH-0611-138	H06110081-009	11/9/2006	DH-63
406	AEH-0611-139	H06110081-010	11/9/2006	DH-49
147	AEH-0611-140	H06110083-001	11/9/2006	DH-1
291	AEH-0611-141	H06110083-002	11/9/2006	DH-24
949	AEH-0611-142	H06110083-003	11/9/2006	SPARGE 3

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433	AEH-0611-144	H06110088-001	11/10/2006	DH-50
994	AEH-0611-145	H06110088-002	11/10/2006	STW-4
1044	AEH-0611-146	H06110088-003	11/10/2006	STW-9
1035	AEH-0611-147	H06110088-004	11/10/2006	STW-8
1036	AEH-0611-148	H06110088-005	11/10/2006	STW-8
1023	AEH-0611-149	H06110088-006	11/10/2006	STW-7
960	AEH-0611-150	H06110088-007	11/10/2006	STW-1
437	AEH-0611-151	H06110088-008	11/10/2006	DH-51
937	AEH-0611-152	H06110088-009	11/10/2006	PRB-2
587	AEH-0611-153	H06110090-001	11/10/2006	EH-101
198	AEH-0611-154	AEH-0611-154	11/10/2006	DH-16
401	AEH-0611-155	z	11/9/2006	DH-48
578	AEH-0611-158	H06110090-004	11/10/2006	EH-100
676	AEH-0611-159	H06110099-001	11/13/2006	EH-114
687	AEH-0611-160	H06110099-002	11/13/2006	EH-116
692	AEH-0611-162	H06110099-004	11/13/2006	EH-117
669	AEH-0611-164	H06110099-006	11/13/2006	EH-113
661	AEH-0611-165	H06110099-007	11/13/2006	EH-112
661	AEH-0611-166	H06110099-008	11/13/2006	EH-112
623	AEH-0611-167	H06110099-009	11/13/2006	EH-106
653	AEH-0611-168	H06110119-001	11/14/2006	EH-111
682	AEH-0611-169	H06110119-002	11/14/2006	EH-115
631	AEH-0611-170	H06110119-003	11/14/2006	EH-107
631	AEH-0611-171	H06110119-004	11/14/2006	EH-107
640	AEH-0611-173	H06110119-006	11/14/2006	EH-109
616	AEH-0611-174	H06110119-007	11/14/2006	EH-104
646	AEH-0611-175	H06110119-008	11/14/2006	EH-110
609	AEH-0611-176	H06110122-001	11/14/2006	EH-103
490	AEH-0611-177	H06110122-002	11/14/2006	DH-6
192	AEH-0611-178	H06110122-003	11/14/2006	DH-15
450	AEH-0611-180	H06110122-005	11/14/2006	DH-53
443	AEH-0611-181	H06110122-006	11/14/2006	DH-52
158	AEH-0611-182	H06110122-007	11/14/2006	DH-10A
525	AEH-0611-183	H06110135-001	11/15/2006	DH-67
422	AEH-0611-184	H06110135-002	11/15/2006	DH-5
369	AEH-0611-186	H06110135-004	11/15/2006	DH-4
108	AEH-0611-187	H06110135-005	11/15/2006	APSD-7
19	AEH-0611-188	H06110135-006	11/15/2006	APSD-10
19	AEH-0611-189	H06110135-007	11/15/2006	APSD-10
249	AEH-0611-190	H06110135-008	11/15/2006	DH-20
398	AEH-0611-191	H06110135-009	11/15/2006	DH-47
393	AEH-0611-193	H06110135-011	11/15/2006	DH-46

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390	AEH-0611-194	H06110138-001	11/15/2006	DH-45
314	AEH-0611-195	H06110138-002	11/15/2006	DH-29
9	AEH-0611-196	H06110138-003	11/15/2006	APSD-1
47	AEH-0611-197	H06110138-004	11/15/2006	APSD-13
387	AEH-0611-198	H06110138-005	11/15/2006	DH-44
374	AEH-0611-199	H06110138-006	11/15/2006	DH-40
347	AEH-0611-200	H06110158-001	11/17/2006	DH-39
495	AEH-0611-201	AEH-0611-201	11/17/2006	DH-60
499	AEH-0611-202	H06110158-002	11/17/2006	DH-62
499	AEH-0611-203	H06110158-003	11/17/2006	DH-62
557	AEH-0611-204	H06110158-004	11/17/2006	DH-8
384	AEH-0611-206	H06110158-006	11/17/2006	DH-43
377	AEH-0611-208	H06110158-008	11/17/2006	DH-41
520	AEH-0611-209	H06110160-001	11/17/2006	DH-66
939	AEH-0611-210	H06110160-002	11/17/2006	PRB-3
937	AEH-0611-211	H06110160-003	11/17/2006	PRB-1
222	AEH-0611-212	H06110160-004	11/17/2006	DH-19R
1109	AEH-0611-213	H06110166-001	11/20/2006	DH-30
1102	AEH-0611-214	H06110166-002	11/20/2006	DH-27
1103	AEH-0611-215	H06110166-003	11/20/2006	DH-27
1144	AEH-0611-216	H06110166-004	11/20/2006	DH-38
343	AEH-0611-218	H06110166-006	11/20/2006	DH-37
1115	AEH-0611-219	H06110166-007	11/20/2006	DH-31
1123	AEH-0611-220	H06110166-008	11/20/2006	DH-33
470	AEH-0611-222	H06110172-001	11/20/2006	DH-58
465	AEH-0611-223	H06110172-002	11/20/2006	DH-57
271	AEH-0611-224	H06110172-003	11/20/2006	DH-23
1138	AEH-0611-225	H06110172-004	11/20/2006	DH-35
1130	AEH-0611-226	H06110172-005	11/20/2006	DH-34
1090	AEH-0611-227	H06120014-001	12/4/2006	DH-21
1160	AEH-0611-228	H06120014-002	12/4/2006	TW-1
337	AEH-0611-229	H06120014-003	12/4/2006	DH-36
337	AEH-0611-230	H06120014-004	12/4/2006	DH-36
209	AEH-0611-231	H06120014-005	12/4/2006	DH-17
1120	AEH-0611-242	z	11/20/2006	DH-32
569	AEH-0611-243	AEH-0611-243	11/20/2006	DH-9
1053	AEH-0611-244	z	12/4/2006	DH-12
1062	AEH-0611-245	z	12/4/2006	DH-13
1076	AEH-0611-246	z	12/4/2006	DH-18
63	AEH-0611-APSD2	AEH-0611-APSD2	11/6/2006	APSD-2
76	AEH-0611-APSD3	AEH-0611-APSD3	11/6/2006	APSD-3
86	AEH-0611-APSD4	AEH-0611-APSD4	11/20/2006	APSD-4

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134	AEH-0611-APSD9	AEH-0611-APSD9	11/20/2006	APSD-9
29	AEH-0611-APSD11	AEH-0611-APSD11	11/20/2006	APSD-11
38	AEH-0611-APSD12	AEH-0611-APSD12	11/20/2006	APSD-12
187	AEH-0611-DH14	z	11/6/2006	DH-14
262	AEH-0611-DH22	z	11/9/2006	DH-22
303	AEH-0611-DH28	z	11/6/2006	DH-28
380	AEH-0611-DH42	AEH-0611-DH42	11/6/2006	DH-42
460	AEH-0611-DH55	z	11/6/2006	DH-55
463	AEH-0611-DH56	z	11/6/2006	DH-56
476	AEH-0611-DH59	AEH-0611-DH59	11/9/2006	DH-59
497	AEH-0611-DH61	z	11/6/2006	DH-61
517	AEH-0611-DH65	z	11/6/2006	DH-65
602	AEH-0611-EH102	z	11/6/2006	EH-102
922	AEH-0611-MW6	z	11/6/2006	MW-6
927	AEH-0611-MW7	z	11/6/2006	MW-7
940	AEH-0611-SPAR1	z	11/6/2006	SPARGE 1
942	AEH-0611-SPAR2	z	11/6/2006	SPARGE 2
972	AEH-0611-STW2	z	11/6/2006	STW-2
984	AEH-0611-STW3	z	11/6/2006	STW-3
1004	AEH-0611-STW5	z	11/6/2006	STW-5
1012	AEH-0611-STW6	z	11/6/2006	STW-6
676	AEH-0703-100	H07030213-001	3/27/2007	EH-114
687	AEH-0703-101	H07030213-002	3/27/2007	EH-116
693	AEH-0703-102	H07030213-003	3/27/2007	EH-117
669	AEH-0703-103	H07030213-004	3/27/2007	EH-113
669	AEH-0703-104	H07030213-005	3/27/2007	EH-113
777	AEH-0703-105	H07030213-006	3/27/2007	EH-54
662	AEH-0703-106	H07030213-007	3/27/2007	EH-112
653	AEH-0703-108	H07030213-009	3/27/2007	EH-111
683	AEH-0703-109	H07030213-010	3/27/2007	EH-115
587	AEH-0703-110	H07030213-011	3/27/2007	EH-101
578	AEH-0703-112	H07030232-001	3/28/2007	EH-100
578	AEH-0703-113	H07030232-002	3/28/2007	EH-100
610	AEH-0703-114	H07030232-003	3/28/2007	EH-103
828	AEH-0703-115	H07030232-004	3/28/2007	EH-60
616	AEH-0703-116	H07030232-005	3/28/2007	EH-104
623	AEH-0703-117	H07030232-006	3/28/2007	EH-106
631	AEH-0703-119	H07030232-008	3/28/2007	EH-107
868	AEH-0703-121	H07030232-010	3/28/2007	EH-65
640	AEH-0703-122	H07030232-011	3/28/2007	EH-109
646	AEH-0703-123	H07030232-012	3/28/2007	EH-110
602	AEH-0703-124	H07030232-013	3/28/2007	EH-102

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171	AEH-0703-126	H07030242-002	3/29/2007	DH-11
927	AEH-0703-127	H07030242-003	3/29/2007	MW-7
901	AEH-0703-128	H07030242-004	3/29/2007	MW-3
901	AEH-0703-129	H07030242-005	3/29/2007	MW-3
330	AEH-0703-131	H07030242-007	3/29/2007	DH-3
235	AEH-0703-132	H07030242-008	3/29/2007	DH-2
509	AEH-0703-133	H07030246-001	3/29/2007	DH-64
470	AEH-0703-135	H07030246-003	3/29/2007	DH-58
1090	AEH-0703-136	H07030246-004	3/29/2007	DH-21
63	AEH-0703-137	H07030246-005	3/29/2007	APSD-2
763	AEH-0703-138	H07040026-001	4/3/2007	EH-53
850	AEH-0703-139	H07040026-002	4/3/2007	EH-62
862	AEH-0703-141	H07040026-004	4/3/2007	EH-64
862	AEH-0703-142	H07040026-005	4/3/2007	EH-64
856	AEH-0703-143	H07040026-006	4/3/2007	EH-63
748	AEH-0703-144	H07040026-007	4/3/2007	EH-52
734	AEH-0703-145	H07040026-008	4/3/2007	EH-51
839	AEH-0703-147	H07040026-010	4/3/2007	EH-61
721	AEH-0703-148	H07040026-011	4/3/2007	EH-50
788	AEH-0703-149	H07040049-001	4/4/2007	EH-57A
788	AEH-0703-150	H07040049-002	4/4/2007	EH-57A
800	AEH-0703-153	H07040049-005	4/4/2007	EH-58
476	AEH-0703-154	H07040049-006	4/4/2007	DH-59
394	AEH-0704-100	H07040211-001	4/24/2007	DH-46
394	AEH-0704-101	H07040211-002	4/24/2007	DH-46
390	AEH-0704-103	H07040211-004	4/24/2007	DH-45
677	AEH-0705-100	8705007-04	5/8/2007	EH-114
677	AEH-0705-100	H07050103-001	5/8/2007	EH-114
688	AEH-0705-101	8705007-05	5/8/2007	EH-116
688	AEH-0705-101	H07050103-002	5/8/2007	EH-116
669	AEH-0705-102	8705007-06	5/8/2007	EH-113
671	AEH-0705-102	H07050103-003	5/8/2007	EH-113
662	AEH-0705-103	8705007-07	5/8/2007	EH-112
662	AEH-0705-103	H07050103-004	5/8/2007	EH-112
662	AEH-0705-104	H07050103-005	5/8/2007	EH-112
653	AEH-0705-105	8705007-08	5/8/2007	EH-111
653	AEH-0705-105	H07050103-006	5/8/2007	EH-111
588	AEH-0705-107	8705007-09	5/8/2007	EH-101
588	AEH-0705-107	H07050103-008	5/8/2007	EH-101
734	AEH-0705-109	H07050103-010	5/8/2007	EH-51
578	AEH-0705-110	H07050114-001	5/9/2007	EH-100
721	AEH-0705-111	H07050114-002	5/9/2007	EH-50

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616	AEH-0705-113	H07050114-004	5/9/2007	EH-104
789	AEH-0705-115	H07050114-006	5/9/2007	EH-57A
610	AEH-0705-117	H07050114-008	5/9/2007	EH-103
839	AEH-0705-118	H07050114-009	5/9/2007	EH-61
455	AEH-0705-119	H07050114-010	5/9/2007	DH-54
763	AEH-0705-120	H07050128-001	5/10/2007	EH-53
850	AEH-0705-121	H07050128-002	5/10/2007	EH-62
862	AEH-0705-122	H07050128-003	5/10/2007	EH-64
857	AEH-0705-123	H07050128-004	5/10/2007	EH-63
640	AEH-0705-126	H07050134-001	5/10/2007	EH-109
646	AEH-0705-127	H07050134-002	5/10/2007	EH-110
646	AEH-0705-128	H07050134-003	5/10/2007	EH-110
541	AEH-0705-130	H07050134-005	5/10/2007	DH-7
171	AEH-0705-131	H07050134-006	5/10/2007	DH-11
525	AEH-0705-132	H07050134-007	5/10/2007	DH-67
504	AEH-0705-133	H07050137-001	5/11/2007	DH-63
401	AEH-0705-134	z	5/11/2007	DH-48
147	AEH-0705-135	H07050137-002	5/11/2007	DH-1
235	AEH-0705-136	H07050137-003	5/11/2007	DH-2
602	AEH-0705-137	8705007-13	5/11/2007	EH-102
602	AEH-0705-137	H07050137-004	5/11/2007	EH-102
602	AEH-0705-138	8705007-12	5/11/2007	EH-102
602	AEH-0705-138	H07050137-005	5/11/2007	EH-102
683	AEH-0705-140	8705007-11	5/11/2007	EH-115
683	AEH-0705-140	H07050137-007	5/11/2007	EH-115
801	AEH-0705-142	8705007-10	5/11/2007	EH-58
801	AEH-0705-142	H07050140-001	5/11/2007	EH-58
192	AEH-0705-144	H07050154-001	5/14/2007	DH-15
192	AEH-0705-145	H07050154-002	5/14/2007	DH-15
158	AEH-0705-146	H07050154-003	5/14/2007	DH-10A
451	AEH-0705-147	H07050154-004	5/14/2007	DH-53
438	AEH-0705-149	H07050154-006	5/14/2007	DH-51
433	AEH-0705-150	H07050154-007	5/14/2007	DH-50
960	AEH-0705-152	H07050191-001	5/16/2007	STW-1
1023	AEH-0705-153	H07050191-002	5/16/2007	STW-7
1023	AEH-0705-154	H07050191-003	5/16/2007	STW-7
1044	AEH-0705-155	H07050191-004	5/16/2007	STW-9
994	AEH-0705-157	H07050191-006	5/16/2007	STW-4
1036	AEH-0705-158	H07050191-007	5/16/2007	STW-8
949	AEH-0705-159	H07050191-008	5/16/2007	SPARGE 3
406	AEH-0705-160	z	5/16/2007	DH-49
369	AEH-0705-162	H07050193-002	5/16/2007	DH-4

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76	AEH-0705-165	H07050207-002	5/17/2007	APSD-3
76	AEH-0705-166	H07050207-003	5/17/2007	APSD-3
314	AEH-0705-167	H07050207-004	5/17/2007	DH-29
9	AEH-0705-168	H07050209-001	5/17/2007	APSD-1
398	AEH-0705-170	H07050209-003	5/17/2007	DH-47
500	AEH-0705-172	H07050209-005	5/17/2007	DH-62
262	AEH-0705-173	z	5/17/2007	DH-22
222	AEH-0705-174	H07050209-006	5/17/2007	DH-19R
380	AEH-0705-175	H07050219-001	5/18/2007	DH-42
476	AEH-0705-176	H07050219-002	5/18/2007	DH-59
476	AEH-0705-177	H07050219-003	5/18/2007	DH-59
1109	AEH-0705-178	H07050219-004	5/18/2007	DH-30
1144	AEH-0705-182	H07050219-007	5/18/2007	DH-38
343	AEH-0705-183	H07050219-008	5/18/2007	DH-37
1115	AEH-0705-184	H07050225-001	5/18/2007	DH-31
465	AEH-0705-185	z	5/18/2007	DH-57
271	AEH-0705-186	H07050225-002	5/18/2007	DH-23
1120	AEH-0705-187	z	5/18/2007	DH-32
1124	AEH-0705-188	z	5/18/2007	DH-33
291	AEH-0705-189	H07050225-003	5/18/2007	DH-24
470	AEH-0705-190	H07050232-001	5/21/2007	DH-58
569	AEH-0705-191	z	5/21/2007	DH-9
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422	AEH-0705-193	H07050232-003	5/21/2007	DH-5
520	AEH-0705-194	H07050232-004	5/21/2007	DH-66
1053	AEH-0705-195	z	5/21/2007	DH-12
1063	AEH-0705-196	H07050232-005	5/21/2007	DH-13
1076	AEH-0705-197	H07050232-006	5/21/2007	DH-18
1138	AEH-0705-198	H07050236-001	5/21/2007	DH-35
1130	AEH-0705-199	8705007-14	5/21/2007	DH-34
1130	AEH-0705-199	H07050236-002	5/21/2007	DH-34
1130	AEH-0705-200	8705007-15	5/21/2007	DH-34
1130	AEH-0705-200	H07050236-003	5/21/2007	DH-34
337	AEH-0705-201	H07050236-004	5/21/2007	DH-36
209	AEH-0705-204	H07050236-007	5/21/2007	DH-17
198	AEH-0705-205	z	5/21/2007	DH-16
51	AEH-0705-206	H07050262-001	5/22/2007	APSD-16
49	AEH-0705-207	H07050262-002	5/22/2007	APSD-15
250	AEH-0705-208	H07050262-003	5/22/2007	DH-20
250	AEH-0705-209	H07050262-004	5/22/2007	DH-20
828	AEH-0705-210	H07050262-005	5/22/2007	EH-60

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812	AEH-0705-215	8705007-20	5/23/2007	EH-59
812	AEH-0705-215	H07050275-001	5/23/2007	EH-59
777	AEH-0705-216	8705007-21	5/23/2007	EH-54
777	AEH-0705-216	H07050275-002	5/23/2007	EH-54
693	AEH-0705-217	8705007-22	5/23/2007	EH-117
693	AEH-0705-217	H07050275-003	5/23/2007	EH-117
624	AEH-0705-219	8705007-24	5/23/2007	EH-106
624	AEH-0705-219	H07050275-005	5/23/2007	EH-106
624	AEH-0705-220	8705007-25	5/23/2007	EH-106
624	AEH-0705-220	H07050275-006	5/23/2007	EH-106
748	AEH-0705-221	H07050275-007	5/23/2007	EH-52
749	AEH-0705-221	8705007-26	5/23/2007	EH-52
443	AEH-0705-222	8705007-27	5/23/2007	DH-52
443	AEH-0705-222	H07050276-001	5/23/2007	DH-52
510	AEH-0705-223	8705007-28	5/23/2007	DH-64
510	AEH-0705-223	H07050276-002	5/23/2007	DH-64
1103	AEH-0705-225	H07050291-001	5/24/2007	DH-27
1090	AEH-0705-226	H07050291-002	5/24/2007	DH-21
330	AEH-0705-227	H07050291-003	5/24/2007	DH-3
330	AEH-0705-228	H07050291-004	5/24/2007	DH-3
901	AEH-0705-231	H07060043-001	6/5/2007	MW-3
909	AEH-0705-232	H07060043-002	6/5/2007	MW-4
883	AEH-0705-233	H07060043-003	6/5/2007	MW-1
883	AEH-0705-234	H07060043-004	6/5/2007	MW-1
895	AEH-0705-235	H07060043-005	6/5/2007	MW-2
887	AEH-0705-238	H07060043-008	6/5/2007	MW-10
928	AEH-0705-240	z	6/8/2007	MW-7
889	AEH-0705-241	H07060083-002	6/8/2007	MW-11
915	AEH-0705-242	H07060083-003	6/8/2007	MW-5
915	AEH-0705-243	H07060083-004	6/8/2007	MW-5
933	AEH-0705-244	H07060083-005	6/8/2007	MW-9
931	AEH-0705-246	H07060083-007	6/8/2007	MW-8
922	AEH-0705-247	H07060083-008	6/8/2007	MW-6
63	AEH-0705-248	H07060203-001	6/19/2007	APSD-2
693	AEH-0707-100	H07070241-001	7/24/2007	EH-117
688	AEH-0707-101	H07070241-002	7/24/2007	EH-116
677	AEH-0707-102	H07070241-003	7/24/2007	EH-114
671	AEH-0707-103	H07070241-004	7/24/2007	EH-113
763	AEH-0707-104	H07070241-005	7/24/2007	EH-53
763	AEH-0707-105	H07070241-006	7/24/2007	EH-53
653	AEH-0707-106	H07070241-007	7/24/2007	EH-111

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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683	AEH-0707-109	H07070241-010	7/24/2007	EH-115
624	AEH-0707-111	H07070241-012	7/24/2007	EH-106
632	AEH-0707-112	H07070259-001	7/25/2007	EH-107
869	AEH-0707-114	H07070259-003	7/25/2007	EH-65
640	AEH-0707-115	H07070259-004	7/25/2007	EH-109
640	AEH-0707-116	H07070259-005	7/25/2007	EH-109
579	AEH-0707-118	H07070259-007	7/25/2007	EH-100
722	AEH-0707-119	H07070259-008	7/25/2007	EH-50
646	AEH-0707-120	H07070259-009	7/25/2007	EH-110
862	AEH-0707-121	H07070259-010	7/25/2007	EH-64
839	AEH-0707-122	H07070259-011	7/25/2007	EH-61
829	AEH-0707-123	H07070259-012	7/25/2007	EH-60
610	AEH-0707-124	H07070280-001	7/26/2007	EH-103
588	AEH-0707-127	H07070280-004	7/26/2007	EH-101
734	AEH-0707-128	H07070280-005	7/26/2007	EH-51
734	AEH-0707-129	H07070280-006	7/26/2007	EH-51
749	AEH-0707-130	H07070280-007	7/26/2007	EH-52
604	AEH-0707-131	H07070280-008	7/26/2007	EH-102
801	AEH-0707-132	H07070280-009	7/26/2007	EH-58
857	AEH-0707-133	H07070280-010	7/26/2007	EH-63
777	AEH-0707-134	H07070280-011	7/26/2007	EH-54
616	AEH-0707-135	H07070280-012	7/26/2007	EH-104
789	AEH-0707-136	H07070291-001	7/27/2007	EH-57A
850	AEH-0707-138	H07070291-003	7/27/2007	EH-62
850	AEH-0707-139	H07070291-004	7/27/2007	EH-62
812	AEH-0707-141	H07070291-006	7/27/2007	EH-59
901	AEH-0707-142	H07070291-007	7/27/2007	MW-3
928	AEH-0707-143	H07070291-008	7/27/2007	MW-7
235	AEH-0707-144	H07070291-009	7/27/2007	DH-2
541	AEH-0707-145	H07070291-010	7/27/2007	DH-7
171	AEH-0707-146	H07070291-011	7/27/2007	DH-11
443	AEH-0707-147	H07070291-012	7/27/2007	DH-52
470	AEH-0707-148	H07070291-013	7/27/2007	DH-58
510	AEH-0707-149	H07070302-001	7/30/2007	DH-64
510	AEH-0707-150	H07070302-002	7/30/2007	DH-64
330	AEH-0707-153	H07070302-005	7/30/2007	DH-3
477	AEH-0707-154	H07070302-006	7/30/2007	DH-59
63	AEH-0707-155	H07070302-007	7/30/2007	APSD-2
1091	AEH-0707-156	H07070302-008	7/30/2007	DH-21
171	AEH-0709-100	H07090010-001	9/4/2007	DH-11
541	AEH-0709-101	H07090010-002	9/4/2007	DH-7
541	AEH-0709-102	H07090010-003	9/4/2007	DH-7

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604	AEH-0709-105	H07090010-006	9/4/2007	EH-102
850	AEH-0709-107	H07090032-001	9/5/2007	EH-62
789	AEH-0709-108	H07090032-002	9/5/2007	EH-57A
764	AEH-0709-110	H07090032-004	9/5/2007	EH-53
857	AEH-0709-111	H07090032-006	9/5/2007	EH-63
857	AEH-0709-112	H07090032-007	9/5/2007	EH-63
863	AEH-0709-113	H07090032-008	9/5/2007	EH-64
683	AEH-0709-114	H07090032-009	9/5/2007	EH-115
617	AEH-0709-116	H07090032-011	9/5/2007	EH-104
839	AEH-0709-117	H07090032-012	9/5/2007	EH-61
610	AEH-0709-118	H07090032-014	9/5/2007	EH-103
632	AEH-0709-119	H07090052-001	9/6/2007	EH-107
588	AEH-0709-120	H07090052-002	9/6/2007	EH-101
588	AEH-0709-121	H07090052-003	9/6/2007	EH-101
647	AEH-0709-122	H07090052-004	9/6/2007	EH-110
677	AEH-0709-123	H07090052-005	9/6/2007	EH-114
688	AEH-0709-124	H07090052-006	9/6/2007	EH-116
693	AEH-0709-125	H07090052-007	9/6/2007	EH-117
671	AEH-0709-127	H07090052-009	9/6/2007	EH-113
869	AEH-0709-128	H07090052-010	9/6/2007	EH-65
662	AEH-0709-130	H07090052-012	9/6/2007	EH-112
814	AEH-0709-131	H07090052-013	9/6/2007	EH-59
901	AEH-0709-132	H07090102-001	9/11/2007	MW-3
928	AEH-0709-133	H07090102-002	9/11/2007	MW-7
330	AEH-0709-134	H07090102-003	9/11/2007	DH-3
330	AEH-0709-136	H07090102-005	9/11/2007	DH-3
722	AEH-0709-137	H07090102-006	9/11/2007	EH-50
735	AEH-0709-139	H07090102-008	9/11/2007	EH-51
749	AEH-0709-140	H07090102-009	9/11/2007	EH-52
749	AEH-0709-141	H07090115-001	9/12/2007	EH-52
470	AEH-0709-143	H07090115-003	9/12/2007	DH-58
9	AEH-0709-144	H07090115-004	9/12/2007	APSD-1
49	AEH-0709-145	H07090115-005	9/12/2007	APSD-15
51	AEH-0709-146	H07090115-006	9/12/2007	APSD-16
86	AEH-0709-147	H07090115-007	9/12/2007	APSD-4
77	AEH-0709-148	H07090115-008	9/12/2007	APSD-3
653	AEH-0709-149	H07090115-009	9/12/2007	EH-111
655	AEH-0709-150	H07090115-010	9/12/2007	EH-111
579	AEH-0709-151	H07090115-011	9/12/2007	EH-100
829	AEH-0709-153	H07090135-001	9/13/2007	EH-60
495	AEH-0709-154	H07090135-002	9/13/2007	DH-60
624	AEH-0709-155	H07090135-003	9/13/2007	EH-106

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477	AEH-0709-159	H07090135-007	9/13/2007	DH-59
510	AEH-0709-160	H07090135-008	9/13/2007	DH-64
314	AEH-0709-161	H07090135-009	9/13/2007	DH-29
63	AEH-0709-162	H07090135-010	9/13/2007	APSD-2
1091	AEH-0709-163	H07090135-011	9/13/2007	DH-21
235	AEH-0709-DH2	AEH-0709-DH2	9/6/2007	DH-2
777	AEH-0709-EH54	AEH-0709-EH54	9/6/2007	EH-54
1160	AEH-0710-100	H07100027-001	10/2/2007	TW-1
1076	AEH-0710-101	H07100027-002	10/2/2007	DH-18
1078	AEH-0710-102	H07100027-003	10/2/2007	DH-18
1053	AEH-0710-104	AEH-0710-DH12	12/2/2007	DH-12
1063	AEH-0710-105	H07100027-005	10/2/2007	DH-13
1138	AEH-0710-106	H07100027-006	10/2/2007	DH-35
1144	AEH-0710-107	H07100027-007	10/2/2007	DH-38
1091	AEH-0710-108	H07100027-008	10/2/2007	DH-21
1115	AEH-0710-110	H07100061-001	10/3/2007	DH-31
1132	AEH-0710-111	H07100061-002	10/3/2007	DH-34
1120	AEH-0710-112	AEH-0710-DH32	10/3/2007	DH-32
1124	AEH-0710-113	H07100061-003	10/3/2007	DH-33
1124	AEH-0710-114	H07100061-004	10/3/2007	DH-33
1146	AEH-0710-115	H07100061-005	10/3/2007	SDMW-1
1154	AEH-0710-116	H07100061-006	10/3/2007	SDMW-4
1152	AEH-0710-117	H07100061-007	10/3/2007	SDMW-3
1158	AEH-0710-119	H07100061-009	10/3/2007	SDMW-5
1103	AEH-0710-121	H07100074-001	10/4/2007	DH-27
1103	AEH-0710-122	H07100074-002	10/4/2007	DH-27
1148	AEH-0710-123	H07100074-003	10/4/2007	SDMW-2
789	AEH-0711-100	H07110094-001	11/12/2007	EH-57A
671	AEH-0711-101	H07110094-002	11/12/2007	EH-113
764	AEH-0711-102	H07110094-003	11/12/2007	EH-53
764	AEH-0711-103	H07110094-004	11/12/2007	EH-53
851	AEH-0711-107	H07110103-001	11/13/2007	EH-62
777	AEH-0711-108	H07110103-002	11/13/2007	EH-54
857	AEH-0711-109	H07110103-003	11/13/2007	EH-63
857	AEH-0711-110	H07110103-004	11/13/2007	EH-63
863	AEH-0711-111	H07110103-005	11/13/2007	EH-64
869	AEH-0711-112	H07110103-006	11/13/2007	EH-65
632	AEH-0711-113	H07110103-007	11/13/2007	EH-107
683	AEH-0711-114	H07110103-008	11/13/2007	EH-115
647	AEH-0711-115	H07110103-009	11/13/2007	EH-110
588	AEH-0711-118	H07110122-001	11/14/2007	EH-101
735	AEH-0711-119	H07110122-002	11/14/2007	EH-51

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749	AEH-0711-122	H07110122-005	11/14/2007	EH-52
801	AEH-0711-123	H07110122-006	11/14/2007	EH-58
541	AEH-0711-124	H07110122-007	11/14/2007	DH-7
171	AEH-0711-127	H07110130-001	11/15/2007	DH-11
677	AEH-0711-128	H07110130-002	11/15/2007	EH-114
688	AEH-0711-129	H07110130-003	11/15/2007	EH-116
693	AEH-0711-130	H07110130-004	11/15/2007	EH-117
664	AEH-0711-131	H07110130-005	11/15/2007	EH-112
617	AEH-0711-132	H07110130-006	11/15/2007	EH-104
617	AEH-0711-133	H07110130-007	11/15/2007	EH-104
610	AEH-0711-136	H07110140-001	11/16/2007	EH-103
839	AEH-0711-137	H07110140-002	11/16/2007	EH-61
456	AEH-0711-138	H07110140-003	11/16/2007	DH-54
814	AEH-0711-139	H07110140-004	11/16/2007	EH-59
903	AEH-0711-140	H07110140-005	11/16/2007	MW-3
909	AEH-0711-142	H07110140-007	11/16/2007	MW-4
883	AEH-0711-144	H07110183-001	11/26/2007	MW-1
895	AEH-0711-145	H07110183-002	11/26/2007	MW-2
915	AEH-0711-146	H07110183-003	11/26/2007	MW-5
915	AEH-0711-147	H07110183-004	11/26/2007	MW-5
928	AEH-0711-148	AEH-0711-148	11/26/2007	MW-7
889	AEH-0711-149	H07110183-005	11/26/2007	MW-11
935	AEH-0711-150	H07110183-006	11/26/2007	MW-9
931	AEH-0711-153	H07110183-009	11/26/2007	MW-8
887	AEH-0711-154	H07110195-001	11/27/2007	MW-10
922	AEH-0711-155	H07110195-002	11/27/2007	MW-6
331	AEH-0711-156	H07110197-001	11/27/2007	DH-3
331	AEH-0711-157	H07110197-002	11/27/2007	DH-3
235	AEH-0711-160	H07110197-005	11/27/2007	DH-2
147	AEH-0711-161	H07110197-006	11/27/2007	DH-1
504	AEH-0711-162	H07110199-001	11/27/2007	DH-63
402	AEH-0711-163	AEH-0711-163	11/27/2007	DH-48
406	AEH-0711-164	AEH-0711-164	11/27/2007	DH-49
490	AEH-0711-165	H07110199-002	11/27/2007	DH-6
193	AEH-0711-166	H07110199-003	11/27/2007	DH-15
159	AEH-0711-167	H07110199-004	11/27/2007	DH-10A
445	AEH-0711-168	H07110218-001	11/28/2007	DH-52
451	AEH-0711-169	H07110218-002	11/28/2007	DH-53
438	AEH-0711-170	H07110218-003	11/28/2007	DH-51
438	AEH-0711-171	H07110218-004	11/28/2007	DH-51
1024	AEH-0711-172	H07110218-005	11/28/2007	STW-7

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433	AEH-0711-174	H07110218-007	11/28/2007	DH-50
1036	AEH-0711-177	H07110218-010	11/28/2007	STW-8
995	AEH-0711-178	H07110218-011	11/28/2007	STW-4
960	AEH-0711-179	H07110218-012	11/28/2007	STW-1
291	AEH-0711-180	H07110218-013	11/28/2007	DH-24
949	AEH-0711-181	H07110218-014	11/28/2007	SPARGE 3
525	AEH-0711-182	H07110229-001	11/29/2007	DH-67
500	AEH-0711-183	H07110229-002	11/29/2007	DH-62
500	AEH-0711-184	H07110229-003	11/29/2007	DH-62
520	AEH-0711-187	H07120019-001	12/4/2007	DH-66
557	AEH-0711-188	H07120019-002	12/4/2007	DH-8
250	AEH-0711-189	H07120019-003	12/4/2007	DH-20
250	AEH-0711-190	H07120019-004	12/4/2007	DH-20
423	AEH-0711-191	H07120019-005	12/4/2007	DH-5
49	AEH-0711-193	H07120019-007	12/4/2007	APSD-15
51	AEH-0711-195	H07120050-001	12/5/2007	APSD-16
9	AEH-0711-196	H07120050-002	12/5/2007	APSD-1
108	AEH-0711-197	H07120050-003	12/5/2007	APSD-7
87	AEH-0711-198	H07120050-004	12/5/2007	APSD-4
77	AEH-0711-199	H07120050-005	12/5/2007	APSD-3
187	AEH-0711-200	H07120050-006	12/5/2007	DH-14
187	AEH-0711-201	H07120050-007	12/5/2007	DH-14
1154	AEH-0711-203	H07120050-009	12/5/2007	SDMW-4
1146	AEH-0711-204	H07120050-010	12/5/2007	SDMW-1
271	AEH-0711-206	H07120076-001	12/7/2007	DH-23
271	AEH-0711-207	H07120076-002	12/7/2007	DH-23
369	AEH-0711-208	H07120076-003	12/7/2007	DH-4
398	AEH-0711-209	H07120076-004	12/7/2007	DH-47
470	AEH-0711-210	H07120076-005	12/7/2007	DH-58
460	AEH-0711-211	H07120076-006	12/7/2007	DH-55
380	AEH-0711-212	H07120076-007	12/7/2007	DH-42
337	AEH-0711-215	H07120088-001	12/10/2007	DH-36
722	AEH-0711-216	H07120088-002	12/10/2007	EH-50
722	AEH-0711-217	H07120088-003	12/10/2007	EH-50
655	AEH-0711-219	H07120088-005	12/10/2007	EH-111
626	AEH-0711-220	H07120088-006	12/10/2007	EH-106
579	AEH-0711-221	H07120088-007	12/10/2007	EH-100
829	AEH-0711-223	H07120088-009	12/10/2007	EH-60
641	AEH-0711-224	H07120088-010	12/10/2007	EH-109
477	AEH-0711-225	H07120112-001	12/11/2007	DH-59
222	AEH-0711-226	H07120112-002	12/11/2007	DH-19R
222	AEH-0711-227	H07120112-003	12/11/2007	DH-19R

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20	AEH-0711-230	H07120112-006	12/11/2007	APSD-10
1053	AEH-0711-231	AEH-0711-231	12/11/2007	DH-12
1063	AEH-0711-232	H07120112-007	12/11/2007	DH-13
510	AEH-0711-234	H07120112-009	12/11/2007	DH-64
209	AEH-0711-235	H07120134-001	12/12/2007	DH-17
209	AEH-0711-236	H07120134-002	12/12/2007	DH-17
466	AEH-0711-237	H07120134-003	12/12/2007	DH-57
1150	AEH-0711-239	H07120134-005	12/12/2007	SDMW-2
517	AEH-0711-240	H07120134-006	12/12/2007	DH-65
463	AEH-0711-241	H07120134-007	12/12/2007	DH-56
1078	AEH-0711-242	H07120134-008	12/12/2007	DH-18
63	AEH-0711-243	H07120134-009	12/12/2007	APSD-2
1160	AEH-0711-244	H07120134-010	12/12/2007	TW-1
1124	AEH-0711-246	H07120134-012	12/12/2007	DH-33
1132	AEH-0711-247	H07120134-013	12/12/2007	DH-34
1158	AEH-0711-248	H07120160-001	12/13/2007	SDMW-5
1158	AEH-0711-249	H07120160-002	12/13/2007	SDMW-5
1152	AEH-0711-250	H07120160-003	12/13/2007	SDMW-3
1120	AEH-0711-251	AEH-0711-251	12/13/2007	DH-32
343	AEH-0711-252	H07120160-004	12/13/2007	DH-37
1138	AEH-0711-253	H07120160-005	12/13/2007	DH-35
1091	AEH-0711-254	H07120160-006	12/13/2007	DH-21
1109	AEH-0711-257	H07120160-009	12/13/2007	DH-30
1103	AEH-0711-258	H07120160-010	12/13/2007	DH-27
1115	AEH-0711-259	AEH-0711-259	12/13/2007	DH-31
1144	AEH-0711-260	AEH-0711-260	12/13/2007	DH-38
199	AEH-0711-261	AEH-0711-261	12/13/2007	DH-16
263	AEH-0711-262	AEH-0711-262	12/13/2007	DH-22
569	AEH-0711-263	AEH-0711-263	12/13/2007	DH-9
124	AEH-0711-APSD8	AEH-0711-APSD8	11/1/2007	APSD-8
134	AEH-0711-APSD9	AEH-0711-APSD9	11/1/2007	APSD-9
29	AEH-0711-APSD11	AEH-0711-APSD11	11/1/2007	APSD-11
38	AEH-0711-APSD12	AEH-0711-APSD12	11/1/2007	APSD-12
47	AEH-0711-APSD13	AEH-0711-APSD13	11/1/2007	APSD-13
303	AEH-0711-DH28	AEH-0711-DH28	11/1/2007	DH-28
348	AEH-0711-DH39	AEH-0711-DH39	11/1/2007	DH-39
374	AEH-0711-DH40	AEH-0711-DH40	11/1/2007	DH-40
377	AEH-0711-DH41	AEH-0711-DH41	11/1/2007	DH-41
384	AEH-0711-DH43	AEH-0711-DH43	11/1/2007	DH-43
387	AEH-0711-DH44	AEH-0711-DH44	11/1/2007	DH-44
391	AEH-0711-DH45	AEH-0711-DH45	11/1/2007	DH-45
394	AEH-0711-DH46	AEH-0711-DH46	11/1/2007	DH-46

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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497	AEH-0711-DH61	AEH-0711-DH61	11/1/2007	DH-61
937	AEH-0711-PRB2	AEH-0711-PRB2	11/1/2007	PRB-2
940	AEH-0711-SPAR1	AEH-0711-SPAR1	11/1/2007	SPARGE 1
942	AEH-0711-SPAR2	AEH-0711-SPAR2	11/1/2007	SPARGE 2
973	AEH-0711-STW2	AEH-0711-STW2	11/1/2007	STW-2
984	AEH-0711-STW3	AEH-0711-STW3	11/1/2007	STW-3
1005	AEH-0711-STW5	AEH-0711-STW5	11/1/2007	STW-5
1013	AEH-0711-STW6	AEH-0711-STW6	11/1/2007	STW-6
789	AEH-0801-100	H08010206-001	1/25/2008	EH-57A
789	AEH-0801-101	H08010206-002	1/25/2008	EH-57A
851	AEH-0801-102	H08010206-003	1/25/2008	EH-62
858	AEH-0801-103	H08010206-004	1/25/2008	EH-63
542	AEH-0801-104	H08010206-005	1/25/2008	DH-7
172	AEH-0801-105	H08010206-006	1/25/2008	DH-11
801	AEH-0801-107	H08010206-008	1/25/2008	EH-58
604	AEH-0801-108	H08010206-009	1/25/2008	EH-102
764	AEH-0801-110	H08010227-001	1/30/2008	EH-53
863	AEH-0801-111	H08010227-002	1/30/2008	EH-64
863	AEH-0801-112	H08010227-003	1/30/2008	EH-64
671	AEH-0801-113	H08010227-004	1/30/2008	EH-113
590	AEH-0801-114	H08010227-005	1/30/2008	EH-101
735	AEH-0801-116	H08010227-007	1/30/2008	EH-51
647	AEH-0801-117	H08010227-008	1/30/2008	EH-110
685	AEH-0801-119	H08010227-010	1/30/2008	EH-115
677	AEH-0801-120	H08010227-011	1/30/2008	EH-114
688	AEH-0801-121	H08010227-012	1/30/2008	EH-116
695	AEH-0801-122	H08010227-013	1/30/2008	EH-117
610	AEH-0801-123	H08010244-001	1/31/2008	EH-103
611	AEH-0801-124	H08010244-002	1/31/2008	EH-103
829	AEH-0801-125	H08010244-003	1/31/2008	EH-60
840	AEH-0801-126	H08010244-004	1/31/2008	EH-61
235	AEH-0801-127	H08010244-005	1/31/2008	DH-2
664	AEH-0801-128	H08010244-006	1/31/2008	EH-112
617	AEH-0801-129	H08010244-007	1/31/2008	EH-104
779	AEH-0801-130	H08010244-008	1/31/2008	EH-54
331	AEH-0801-132	H08010244-010	1/31/2008	DH-3
632	AEH-0801-133	AEH-0801-133	1/31/2008	EH-107
869	AEH-0801-134	AEH-0801-134	1/31/2008	EH-65
814	AEH-0801-136	H08010244-012	1/31/2008	EH-59
722	AEH-0801-137	H08010244-013	1/31/2008	EH-50
579	AEH-0801-138	H08010244-014	1/31/2008	EH-100
749	AEH-0801-139	H08020014-001	2/1/2008	EH-52

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626	AEH-0801-141	H08020014-003	2/1/2008	EH-106
626	AEH-0801-142	H08020014-004	2/1/2008	EH-106
641	AEH-0801-143	H08020014-005	2/1/2008	EH-109
928	AEH-0801-144	AEH-0801-144	2/1/2008	MW-7
903	AEH-0801-145	H08020014-006	2/1/2008	MW-3
445	AEH-0801-146	H08020014-007	2/1/2008	DH-52
490	AEH-0801-147	H08020014-008	2/1/2008	DH-6
147	AEH-0801-149	H08020014-010	2/1/2008	DH-1
569	AEH-0801-150	AEH-0801-150	2/1/2008	DH-9
471	AEH-0801-151	H08020014-011	2/1/2008	DH-58
558	AEH-0801-153	H08020017-001	2/4/2008	DH-8
558	AEH-0801-154	H08020017-002	2/4/2008	DH-8
477	AEH-0801-155	H08020017-003	2/4/2008	DH-59
65	AEH-0801-156	H08020017-004	2/4/2008	APSD-2
1091	AEH-0801-158	H08020017-006	2/4/2008	DH-21
512	AEH-0801-160	H08020076-001	2/11/2008	DH-64
1063	AEH-0802-100	H08020090-001	2/12/2008	DH-13
1063	AEH-0802-101	H08020090-002	2/12/2008	DH-13
1053	AEH-0802-102	AEH-0802-102	2/12/2008	DH-12
1078	AEH-0802-103	H08020090-003	2/12/2008	DH-18
1150	AEH-0802-105	H08020090-005	2/12/2008	SDMW-2
1103	AEH-0802-107	H08020090-007	2/12/2008	DH-27
1111	AEH-0802-108	H08020090-008	2/12/2008	DH-30
1144	AEH-0802-109	AEH-0802-109	2/12/2008	DH-38
1146	AEH-0802-110	H08020101-001	2/13/2008	SDMW-1
1117	AEH-0802-111	AEH-0802-111	2/13/2008	DH-31
1154	AEH-0802-112	H08020101-002	2/13/2008	SDMW-4
1154	AEH-0802-113	H08020101-003	2/13/2008	SDMW-4
1138	AEH-0802-114	H08020101-004	2/13/2008	DH-35
1162	AEH-0802-115	H08020101-005	2/13/2008	TW-1
1124	AEH-0802-117	H08020101-007	2/13/2008	DH-33
1152	AEH-0802-118	H08020101-008	2/13/2008	SDMW-3
1120	AEH-0802-119	AEH-0802-119	2/13/2008	DH-32
51	AEH-0802-121	H08020101-010	2/13/2008	APSD-16
49	AEH-0802-122	H08020101-011	2/13/2008	APSD-15
1158	AEH-0802-123	H08020113-001	2/14/2008	SDMW-5
87	AEH-0802-124	H08020113-002	2/14/2008	APSD-4
87	AEH-0802-125	H08020113-003	2/14/2008	APSD-4
314	AEH-0802-126	H08020113-004	2/14/2008	DH-29
9	AEH-0802-128	H08020113-006	2/14/2008	APSD-1
77	AEH-0802-129	H08020113-007	2/14/2008	APSD-3
65	AEH-0802-131	H08020150-001	2/21/2008	APSD-2

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1132	AEH-0802-134	H08020150-004	2/21/2008	DH-34
1091	AEH-0802-136	H08020150-006	2/21/2008	DH-21
903	AEH-0802-137	H08030053-001	3/3/2008	MW-3
909	AEH-0802-138	H08030053-002	3/3/2008	MW-4
909	AEH-0802-139	H08030053-003	3/3/2008	MW-4
883	AEH-0802-140	H08030053-004	3/3/2008	MW-1
895	AEH-0802-141	H08030053-005	3/3/2008	MW-2
891	AEH-0802-144	H08030072-001	3/4/2008	MW-11
917	AEH-0802-145	H08030072-002	3/4/2008	MW-5
917	AEH-0802-146	H08030072-003	3/4/2008	MW-5
935	AEH-0802-147	H08030072-004	3/4/2008	MW-9
931	AEH-0802-148	H08030072-005	3/4/2008	MW-8
887	AEH-0802-149	H08030072-006	3/4/2008	MW-10
922	AEH-0802-151	H08030072-008	3/4/2008	MW-6
928	AEH-0802-152	AEH-0802-152	3/7/2008	MW-7
604	AEH-0805-100	H08040441-001	4/29/2008	EH-102
751	AEH-0805-101	H08040441-002	4/29/2008	EH-52
858	AEH-0805-102	H08040441-003	4/29/2008	EH-63
803	AEH-0805-103	H08040441-004	4/29/2008	EH-58
790	AEH-0805-104	H08040441-005	4/29/2008	EH-57A
851	AEH-0805-107	H08040441-008	4/29/2008	EH-62
851	AEH-0805-108	H08040441-009	4/29/2008	EH-62
542	AEH-0805-117	H08040470-009	4/30/2008	DH-7
172	AEH-0805-119	H08040470-011	4/30/2008	DH-11
679	AEH-0805-120	H08040470-012	4/30/2008	EH-114
617	AEH-0805-122	H08050019-002	5/1/2008	EH-104
764	AEH-0805-123	H08050019-003	5/1/2008	EH-53
685	AEH-0805-124	H08050019-004	5/1/2008	EH-115
664	AEH-0805-125	H08050019-005	5/1/2008	EH-112
863	AEH-0805-127	H08050019-007	5/1/2008	EH-64
590	AEH-0805-128	H08050019-008	5/1/2008	EH-101
611	AEH-0805-129	H08050019-009	5/1/2008	EH-103
611	AEH-0805-130	H08050019-010	5/1/2008	EH-103
671	AEH-0805-131	H08050028-001	5/1/2008	EH-113
647	AEH-0805-132	H08050028-002	5/1/2008	EH-110
147	AEH-0805-133	H08050028-003	5/1/2008	DH-1
690	AEH-0805-134	H08050028-004	5/1/2008	EH-116
695	AEH-0805-135	H08050028-005	5/1/2008	EH-117
236	AEH-0805-136	H08050028-006	5/1/2008	DH-2
779	AEH-0805-138	H08050066-002	5/5/2008	EH-54
840	AEH-0805-139	H08050066-003	5/5/2008	EH-61
909	AEH-0805-140	H08050066-004	5/5/2008	MW-4

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895	AEH-0805-143	H08050066-007	5/5/2008	MW-2
897	AEH-0805-144	H08050066-008	5/5/2008	MW-2
935	AEH-0805-145	H08050066-009	5/5/2008	MW-9
891	AEH-0805-146	H08050066-010	5/5/2008	MW-11
929	AEH-0805-147	AEH-0805-147	5/5/2008	MW-7
917	AEH-0805-148	H08050066-011	5/5/2008	MW-5
931	AEH-0805-149	H08050066-012	5/5/2008	MW-8
887	AEH-0805-151	H08050097-002	5/5/2008	MW-10
922	AEH-0805-152	H08050097-003	5/5/2008	MW-6
456	AEH-0805-153	H08050097-004	5/5/2008	DH-54
504	AEH-0805-155	H08050097-006	5/6/2008	DH-63
879	AEH-0805-156	H08050097-007	5/6/2008	EH-69
877	AEH-0805-157	H08050097-008	5/6/2008	EH-68
500	AEH-0805-158	H08050097-009	5/6/2008	DH-62
1078	AEH-0805-159	H08050097-010	5/6/2008	DH-18
1156	AEH-0805-160	H08050097-011	5/6/2008	SDMW-4
1156	AEH-0805-161	H08050097-012	5/6/2008	SDMW-4
632	AEH-0805-163	H08050097-014	5/6/2008	EH-107
869	AEH-0805-164	H08050097-015	5/6/2008	EH-65
193	AEH-0805-165	H08050136-001	5/6/2008	DH-15
331	AEH-0805-166	H08050136-002	5/6/2008	DH-3
814	AEH-0805-168	H08050136-004	5/7/2008	EH-59
814	AEH-0805-168	H08050136-004RA	5/7/2008	EH-59
525	AEH-0805-169	H08050136-005	5/7/2008	DH-67
520	AEH-0805-170	H08050136-006	5/7/2008	DH-66
558	AEH-0805-172	H08050136-008	5/7/2008	DH-8
558	AEH-0805-172	H08050136-008RA	5/7/2008	DH-8
250	AEH-0805-173	H08050136-009	5/7/2008	DH-20
250	AEH-0805-174	H08050136-010	5/7/2008	DH-20
735	AEH-0805-175	H08050136-011	5/7/2008	EH-51
735	AEH-0805-175	H08050136-011RA	5/7/2008	EH-51
723	AEH-0805-176	H08050136-012	5/7/2008	EH-50
87	AEH-0805-177	H08050136-013	5/7/2008	APSD-4
9	AEH-0805-178	H08050154-001	5/7/2008	APSD-1
423	AEH-0805-179	H08050154-002	5/7/2008	DH-5
451	AEH-0805-180	H08050154-003	5/7/2008	DH-53
49	AEH-0805-181	H08050154-004	5/7/2008	APSD-15
873	AEH-0805-183	H08050154-006	5/8/2008	EH-67
705	AEH-0805-184	H08050154-007	5/8/2008	EH-122
705	AEH-0805-185	H08050154-008	5/8/2008	EH-122
703	AEH-0805-186	H08050154-009	5/8/2008	EH-121

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697	AEH-0805-189	H08050163-001	5/8/2008	EH-118
699	AEH-0805-190	H08050163-002	5/8/2008	EH-119
701	AEH-0805-191	H08050163-003	5/8/2008	EH-120
438	AEH-0805-193	H08050176-001	5/9/2008	DH-51
159	AEH-0805-194	H08050176-002	5/9/2008	DH-10A
445	AEH-0805-195	H08050176-003	5/9/2008	DH-52
490	AEH-0805-196	H08050176-004	5/9/2008	DH-6
490	AEH-0805-197	H08050176-005	5/9/2008	DH-6
271	AEH-0805-198	H08050176-006	5/9/2008	DH-23
20	AEH-0805-199	H08050176-007	5/9/2008	APSD-10
109	AEH-0805-201	H08050176-009	5/9/2008	APSD-7
471	AEH-0805-202	H08050176-010	5/9/2008	DH-58
370	AEH-0805-203	H08050176-011	5/9/2008	DH-4
398	AEH-0805-205	H08050190-002	5/12/2008	DH-47
466	AEH-0805-206	H08050190-003	5/12/2008	DH-57
380	AEH-0805-207	H08050190-004	5/12/2008	DH-42
655	AEH-0805-208	H08050190-005	5/12/2008	EH-111
655	AEH-0805-209	H08050190-006	5/12/2008	EH-111
579	AEH-0805-210	H08050190-007RA	5/12/2008	EH-100
579	AEH-0805-210	H08050190-007	5/12/2008	EH-100
626	AEH-0805-212	H08050190-009	5/12/2008	EH-106
626	AEH-0805-212	H08050190-009RA	5/12/2008	EH-106
77	AEH-0805-213	H08050222-001	5/12/2008	APSD-3
337	AEH-0805-214	H08050222-002	5/12/2008	DH-36
1044	AEH-0805-215	H08050222-003	5/12/2008	STW-9
1024	AEH-0805-216	H08050222-004	5/12/2008	STW-7
1036	AEH-0805-217	H08050222-005	5/12/2008	STW-8
433	AEH-0805-218	H08050222-006	5/12/2008	DH-50
829	AEH-0805-220	H08050222-008	5/13/2008	EH-60
1105	AEH-0805-221	H08050222-009	5/13/2008	DH-27
1105	AEH-0805-222	H08050222-010	5/13/2008	DH-27
1152	AEH-0805-223	H08050222-011	5/13/2008	SDMW-3
1158	AEH-0805-224	H08050222-012	5/13/2008	SDMW-5
1111	AEH-0805-225	H08050222-013	5/13/2008	DH-30
1053	AEH-0805-226	AEH-0805-226	5/13/2008	DH-12
199	AEH-0805-227	AEH-0805-227	5/13/2008	DH-16
263	AEH-0805-228	AEH-0805-228	5/13/2008	DH-22
1121	AEH-0805-229	AEH-0805-229	5/13/2008	DH-32
1144	AEH-0805-230	AEH-0805-230	5/13/2008	DH-38
402	AEH-0805-231	AEH-0805-231	5/13/2008	DH-48
570	AEH-0805-232	AEH-0805-232	5/13/2008	DH-9
1138	AEH-0805-233	H08050222-014	5/13/2008	DH-35

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641	AEH-0805-236	H08050222-017	5/13/2008	EH-109
995	AEH-0805-237	H08050243-001	5/13/2008	STW-4
960	AEH-0805-238	H08050243-002	5/13/2008	STW-1
316	AEH-0805-239	H08050243-003	5/13/2008	DH-29
527	AEH-0805-240	H08050243-004	5/14/2008	DH-68
527	AEH-0805-241	H08050243-005	5/14/2008	DH-68
529	AEH-0805-242	H08050243-006	5/14/2008	DH-69
544	AEH-0805-243	H08050243-007	5/14/2008	DH-70
544	AEH-0805-244	H08050243-008	5/14/2008	DH-71
477	AEH-0805-246	H08050243-010	5/14/2008	DH-59
222	AEH-0805-248	H08050243-012	5/14/2008	DH-19R
1063	AEH-0805-249	H08050268-001	5/14/2008	DH-13
53	AEH-0805-251	H08050268-002	5/15/2008	APSD-16
949	AEH-0805-252	H08050268-003	5/15/2008	SPARGE 3
292	AEH-0805-253	H08050268-004	5/15/2008	DH-24
512	AEH-0805-254	H08050268-005	5/15/2008	DH-64
512	AEH-0805-255	H08050268-006	5/15/2008	DH-64
209	AEH-0805-256	H08050268-007	5/15/2008	DH-17
406	AEH-0805-258	AEH-0805-258	5/15/2008	DH-49
38	AEH-0805-259	H08050269-001	5/15/2008	APSD-12
29	AEH-0805-261	H08050269-003	5/15/2008	APSD-11
124	AEH-0805-262	H08050269-004	5/15/2008	APSD-8
134	AEH-0805-263	H08050269-005	5/15/2008	APSD-9
1150	AEH-0805-264	H08050289-001	5/16/2008	SDMW-2
1162	AEH-0805-266	H08050289-003	5/16/2008	TW-1
1162	AEH-0805-267	H08050289-004	5/16/2008	TW-1
1124	AEH-0805-268	H08050289-005	5/16/2008	DH-33
343	AEH-0805-270	AEH-0805-270	5/16/2008	DH-37
65	AEH-0805-271	H08050289-007	5/16/2008	APSD-2
1117	AEH-0805-272	AEH-0805-272	5/16/2008	DH-31
1132	AEH-0805-273	H08050289-008	5/16/2008	DH-34
1093	AEH-0805-274	H08050361-001	5/20/2008	DH-21
790	AEH-0807-100	H08070284-001	7/14/2008	EH-57A
697	AEH-0807-101	H08070284-002	7/14/2008	EH-118
699	AEH-0807-102	H08070284-003	7/14/2008	EH-119
699	AEH-0807-103	H08070284-004	7/14/2008	EH-119
701	AEH-0807-104	H08070284-005	7/14/2008	EH-120
705	AEH-0807-105	H08070284-006	7/14/2008	EH-122
875	AEH-0807-106	H08070284-007	7/14/2008	EH-67
703	AEH-0807-107	H08070284-008	7/14/2008	EH-121
873	AEH-0807-109	H08070284-010	7/14/2008	EH-66
851	AEH-0807-110	H08070284-011	7/14/2008	EH-62

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604	AEH-0807-113	H08070318-001	7/14/2008	EH-102
751	AEH-0807-114	H08070318-002	7/14/2008	EH-52
803	AEH-0807-115	H08070318-003	7/14/2008	EH-58
877	AEH-0807-116	H08070318-004	7/15/2008	EH-68
879	AEH-0807-118	H08070318-006	7/15/2008	EH-69
863	AEH-0807-119	H08070318-007	7/15/2008	EH-64
590	AEH-0807-120	H08070318-008	7/15/2008	EH-101
590	AEH-0807-121	H08070318-009	7/15/2008	EH-101
737	AEH-0807-122	H08070318-010	7/15/2008	EH-51
542	AEH-0807-124	H08070318-012	7/15/2008	DH-7
331	AEH-0807-125	H08070318-013	7/15/2008	DH-3
172	AEH-0807-126	H08070318-014	7/15/2008	DH-11
764	AEH-0807-127	H08070318-015	7/15/2008	EH-53
779	AEH-0807-128	H08070318-016	7/15/2008	EH-54
611	AEH-0807-129	H08070334-001	7/15/2008	EH-103
840	AEH-0807-130	H08070334-002	7/15/2008	EH-61
673	AEH-0807-131	H08070334-003	7/15/2008	EH-113
685	AEH-0807-132	H08070334-004	7/16/2008	EH-115
147	AEH-0807-133	H08070334-005	7/16/2008	DH-1
149	AEH-0807-134	H08070334-006	7/16/2008	DH-1
236	AEH-0807-135	H08070334-007	7/16/2008	DH-2
617	AEH-0807-136	H08070334-008	7/16/2008	EH-104
634	AEH-0807-137	H08070334-009	7/16/2008	EH-107
871	AEH-0807-139	H08070334-011	7/16/2008	EH-65
695	AEH-0807-141	H08070334-013	7/16/2008	EH-117
690	AEH-0807-142	H08070334-014	7/16/2008	EH-116
679	AEH-0807-143	H08070334-015	7/16/2008	EH-114
647	AEH-0807-144	H08070357-001	7/16/2008	EH-110
664	AEH-0807-145	H08070357-002	7/16/2008	EH-112
814	AEH-0807-146	H08070357-003	7/16/2008	EH-59
723	AEH-0807-147	H08070357-004	7/16/2008	EH-50
929	AEH-0807-148	AEH-0807-148	7/16/2008	MW-7
903	AEH-0807-149	H08070357-005	7/16/2008	MW-3
1078	AEH-0807-150	H08070356-001	7/17/2008	DH-18
1078	AEH-0807-151	H08070356-002	7/17/2008	DH-18
1065	AEH-0807-153	H08070356-004	7/17/2008	DH-13
1054	AEH-0807-155	AEH-0807-155	7/17/2008	DH-12
1121	AEH-0807-156	AEH-0807-156	7/17/2008	DH-32
1146	AEH-0807-157	AEH-0807-157	7/17/2008	DH-38
1156	AEH-0807-158	H08070356-006	7/17/2008	SDMW-4
1105	AEH-0807-159	H08070356-007	7/17/2008	DH-27
1111	AEH-0807-160	H08070368-001	7/17/2008	DH-30

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1148	AEH-0807-162	H08070368-003	7/17/2008	SDMW-1
1150	AEH-0807-163	H08070368-004	7/17/2008	SDMW-2
1158	AEH-0807-164	H08070368-005	7/17/2008	SDMW-5
1152	AEH-0807-165	H08070368-006	7/17/2008	SDMW-3
1126	AEH-0807-166	H08070368-007	7/17/2008	DH-33
1117	AEH-0807-168	AEH-0807-168	7/18/2008	DH-31
1162	AEH-0807-169	H08070375-002	7/18/2008	TW-1
1162	AEH-0807-170	H08070375-003	7/18/2008	TW-1
1093	AEH-0807-172	H08070375-005	7/18/2008	DH-21
1132	AEH-0807-173	H08070375-006	7/18/2008	DH-34
529	AEH-0807-174	H08070391-001	7/18/2008	DH-69
558	AEH-0807-175	H08070391-002	7/18/2008	DH-8
445	AEH-0807-176	H08070391-003	7/18/2008	DH-52
492	AEH-0807-177	H08070391-004	7/18/2008	DH-6
471	AEH-0807-178	H08070391-005	7/18/2008	DH-58
570	AEH-0807-179	H08070463-001	7/23/2008	DH-9
655	AEH-0807-180	H08070463-002	7/23/2008	EH-111
657	AEH-0807-181	H08070463-003	7/23/2008	EH-111
626	AEH-0807-183	H08070463-005	7/23/2008	EH-106
829	AEH-0807-184	H08070463-006	7/23/2008	EH-60
581	AEH-0807-185	H08070463-007	7/23/2008	EH-100
641	AEH-0807-186	H08070463-008	7/23/2008	EH-109
512	AEH-0807-187	H08070463-009	7/23/2008	DH-64
477	AEH-0807-189	H08070463-011	7/23/2008	DH-59
65	AEH-0807-190	H08070463-012	7/23/2008	APSD-2
911	AEH-0808-100	H08080354-001	8/19/2008	MW-4
885	AEH-0808-102	H08080360-001	8/20/2008	MW-1
903	AEH-0808-103	H08080360-002	8/20/2008	MW-3
905	AEH-0808-104	H08080360-003	8/20/2008	MW-3
935	AEH-0808-106	H08080360-005	8/20/2008	MW-9
917	AEH-0808-107	H08080360-006	8/20/2008	MW-5
931	AEH-0808-108	H08080360-007	8/20/2008	MW-8
887	AEH-0808-109	H08080360-008	8/20/2008	MW-10
897	AEH-0808-110	H08080360-009	8/20/2008	MW-2
891	AEH-0808-111	H08080360-010	8/20/2008	MW-11
924	AEH-0808-112	H08080360-011	8/20/2008	MW-6
606	AEH-0811-108	H08100377-001	10/28/2008	EH-102
606	AEH-0811-109	H08100377-002	10/28/2008	EH-102
858	AEH-0811-110	H08100377-003	10/28/2008	EH-63
803	AEH-0811-111	H08100377-004	10/28/2008	EH-58
790	AEH-0811-112	H08100377-005	10/28/2008	EH-57A
851	AEH-0811-113	H08100377-006	10/28/2008	EH-62

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172	AEH-0811-116	H08100377-009	10/28/2008	DH-11
703	AEH-0811-117	H08100377-010	10/28/2008	EH-121
873	AEH-0811-119	H08100377-012	10/28/2008	EH-66
705	AEH-0811-120	H08100394-001	10/29/2008	EH-122
875	AEH-0811-121	H08100394-002	10/29/2008	EH-67
875	AEH-0811-122	H08100394-003	10/29/2008	EH-67
697	AEH-0811-123	H08100394-004	10/29/2008	EH-118
699	AEH-0811-124	H08100394-005	10/29/2008	EH-119
701	AEH-0811-125	H08100394-006	10/29/2008	EH-120
879	AEH-0811-127	H08100394-008	10/29/2008	EH-69
877	AEH-0811-128	H08100394-009	10/29/2008	EH-68
149	AEH-0811-129	H08100394-010	10/29/2008	DH-1
865	AEH-0811-131	H08100394-012	10/29/2008	EH-64
590	AEH-0811-132	H08100394-013	10/29/2008	EH-101
1080	AEH-0811-133	H08100410-001	10/30/2008	DH-18
897	AEH-0811-134	H08100411-001	10/30/2008	MW-2
897	AEH-0811-135	H08100411-002	10/30/2008	MW-2
885	AEH-0811-136	H08100411-003	10/30/2008	MW-1
911	AEH-0811-138	H08100411-005	10/30/2008	MW-4
905	AEH-0811-139	H08100411-006	10/30/2008	MW-3
924	AEH-0811-140	H08100411-007	10/30/2008	MW-6
889	AEH-0811-141	H08100411-008	10/30/2008	MW-10
931	AEH-0811-142	H08100411-009	10/30/2008	MW-8
935	AEH-0811-143	H08100411-010	10/30/2008	MW-9
891	AEH-0811-145	H08100411-012	10/30/2008	MW-11
917	AEH-0811-146	H08100411-013	10/30/2008	MW-5
766	AEH-0811-147	H08110021-001	11/3/2008	EH-53
673	AEH-0811-148	H08110021-002	11/3/2008	EH-113
611	AEH-0811-149	H08110021-003	11/3/2008	EH-103
611	AEH-0811-150	H08110021-004	11/3/2008	EH-103
840	AEH-0811-151	H08110021-005	11/3/2008	EH-61
779	AEH-0811-152	H08110021-006	11/3/2008	EH-54
504	AEH-0811-153	H08110021-007	11/3/2008	DH-63
236	AEH-0811-155	H08110021-009	11/3/2008	DH-2
456	AEH-0811-157	H08110046-001	11/4/2008	DH-54
619	AEH-0811-158	H08110046-002	11/4/2008	EH-104
695	AEH-0811-159	H08110046-003	11/4/2008	EH-117
690	AEH-0811-160	H08110046-004	11/4/2008	EH-116
690	AEH-0811-161	H08110046-005	11/4/2008	EH-116
679	AEH-0811-162	H08110046-006	11/4/2008	EH-114
500	AEH-0811-164	H08110046-008	11/4/2008	DH-62
634	AEH-0811-166	H08110050-001	11/4/2008	EH-107

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331	AEH-0811-168	H08110050-003	11/4/2008	DH-3
664	AEH-0811-169	H08110073-001	11/5/2008	EH-112
525	AEH-0811-170	H08110073-002	11/5/2008	DH-67
193	AEH-0811-171	H08110073-003	11/5/2008	DH-15
193	AEH-0811-172	H08110073-004	11/5/2008	DH-15
492	AEH-0811-173	H08110073-005	11/5/2008	DH-6
816	AEH-0811-175	H08110073-007	11/5/2008	EH-59
737	AEH-0811-176	H08110073-008	11/5/2008	EH-51
871	AEH-0811-177	H08110073-009	11/5/2008	EH-65
522	AEH-0811-179	H08110073-011	11/5/2008	DH-66
558	AEH-0811-180	H08110088-001	11/6/2008	DH-8
29	AEH-0811-181	H08110088-002	11/6/2008	APSD-11
38	AEH-0811-182	H08110088-003	11/6/2008	APSD-12
87	AEH-0811-183	H08110088-004	11/6/2008	APSD-4
252	AEH-0811-184	H08110088-005	11/6/2008	DH-20
252	AEH-0811-185	H08110088-006	11/6/2008	DH-20
423	AEH-0811-186	H08110088-007	11/6/2008	DH-5
529	AEH-0811-187	H08110088-008	11/6/2008	DH-69
1156	AEH-0811-188	H08110088-009	11/6/2008	SDMW-4
451	AEH-0811-190	H08110092-001	11/6/2008	DH-53
445	AEH-0811-192	H08110092-003	11/6/2008	DH-52
159	AEH-0811-193	H08110092-004	11/6/2008	DH-10A
723	AEH-0811-194	H08110092-005	11/6/2008	EH-50
11	AEH-0811-195	H08110106-001	11/10/2008	APSD-1
134	AEH-0811-196	H08110106-002	11/10/2008	APSD-9
751	AEH-0811-197	H08110106-003	11/10/2008	EH-52
751	AEH-0811-198	H08110106-004	11/10/2008	EH-52
53	AEH-0811-199	H08110106-005	11/10/2008	APSD-16
124	AEH-0811-200	H08110106-006	11/10/2008	APSD-8
527	AEH-0811-201	H08110106-007	11/10/2008	DH-68
438	AEH-0811-202	H08110106-008	11/10/2008	DH-51
49	AEH-0811-203	H08110106-009	11/10/2008	APSD-15
273	AEH-0811-205	H08110106-011	11/10/2008	DH-23
20	AEH-0811-207	H08110106-013	11/10/2008	APSD-10
109	AEH-0811-208	H08110106-014	11/10/2008	APSD-7
466	AEH-0811-209	H08110126-001	11/11/2008	DH-57
466	AEH-0811-210	H08110126-002	11/11/2008	DH-57
370	AEH-0811-211	H08110126-003	11/11/2008	DH-4
544	AEH-0811-213	H08110126-005	11/11/2008	DH-70
398	AEH-0811-214	H08110126-006	11/11/2008	DH-47
471	AEH-0811-215	H08110126-007	11/11/2008	DH-58
544	AEH-0811-216	H08110126-008	11/11/2008	DH-71

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628	AEH-0811-218	H08110126-010	11/11/2008	EH-106
1140	AEH-0811-220	H08110126-012	11/11/2008	DH-35
339	AEH-0811-221	H08110126-013	11/11/2008	DH-36
77	AEH-0811-222	H08110126-014	11/11/2008	APSD-3
960	AEH-0811-223	H08110140-001	11/12/2008	STW-1
1024	AEH-0811-224	H08110140-002	11/12/2008	STW-7
1036	AEH-0811-225	H08110140-003	11/12/2008	STW-8
1046	AEH-0811-226	H08110140-004	11/12/2008	STW-9
995	AEH-0811-227	H08110140-005	11/12/2008	STW-4
433	AEH-0811-228	H08110140-006	11/12/2008	DH-50
581	AEH-0811-229	H08110140-007	11/12/2008	EH-100
581	AEH-0811-230	H08110140-008	11/12/2008	EH-100
831	AEH-0811-232	H08110140-010	11/12/2008	EH-60
641	AEH-0811-234	H08110140-011	11/12/2008	EH-109
1148	AEH-0811-235	H08110140-012	11/12/2008	SDMW-1
1111	AEH-0811-237	H08110162-001	11/13/2008	DH-30
1105	AEH-0811-238	H08110162-002	11/13/2008	DH-27
1105	AEH-0811-239	H08110162-003	11/13/2008	DH-27
1152	AEH-0811-241	H08110162-005	11/13/2008	SDMW-3
1160	AEH-0811-242	H08110162-006	11/13/2008	SDMW-5
479	AEH-0811-243	H08110162-007	11/13/2008	DH-59
224	AEH-0811-244	H08110162-008	11/13/2008	DH-19R
1065	AEH-0811-246	H08110162-010	11/13/2008	DH-13
406	AEH-0811-247	H08110162-011	11/13/2008	DH-49
292	AEH-0811-248	H08110162-012	11/13/2008	DH-24
951	AEH-0811-249	H08110162-013	11/13/2008	SPARGE 3
512	AEH-0811-250	H08110162-014	11/13/2008	DH-64
316	AEH-0811-251	H08110187-001	11/17/2008	DH-29
402	AEH-0811-252	H08110187-002	11/17/2008	DH-48
211	AEH-0811-253	H08110187-003	11/17/2008	DH-17
211	AEH-0811-254	H08110187-004	11/17/2008	DH-17
1150	AEH-0811-256	H08110187-006	11/17/2008	SDMW-2
344	AEH-0811-257	H08110187-007	11/17/2008	DH-37
65	AEH-0811-258	H08110187-008	11/17/2008	APSD-2
1126	AEH-0811-260	H08110187-010	11/17/2008	DH-33
1162	AEH-0811-261	H08110187-011	11/17/2008	TW-1
1117	AEH-0811-262	H08110187-012	11/17/2008	DH-31
1093	AEH-0811-263	H08110187-013	11/17/2008	DH-21
1132	AEH-0811-264	H08110187-014	11/17/2008	DH-34
790	AEH-0902-100	H09020024-001	2/2/2009	EH-57A
790	AEH-0902-101	H09020024-002	2/2/2009	EH-57A
697	AEH-0902-102	H09020024-003	2/2/2009	EH-118

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701	AEH-0902-104	H09020024-005	2/2/2009	EH-120
703	AEH-0902-106	H09020024-007	2/2/2009	EH-121
873	AEH-0902-108	H09020024-009	2/2/2009	EH-66
705	AEH-0902-109	H09020024-010	2/2/2009	EH-122
875	AEH-0902-110	H09020024-011	2/2/2009	EH-67
853	AEH-0902-111	H09020024-012	2/3/2009	EH-62
853	AEH-0902-112	H09020024-013	2/3/2009	EH-62
858	AEH-0902-114	H09020024-015	2/3/2009	EH-63
606	AEH-0902-115	H09020024-016	2/3/2009	EH-102
803	AEH-0902-116	H09020024-017	2/3/2009	EH-58
877	AEH-0902-117	H09020024-018	2/3/2009	EH-68
879	AEH-0902-118	H09020024-019	2/3/2009	EH-69
172	AEH-0902-119	H09020024-020	2/3/2009	DH-11
542	AEH-0902-120	H09020036-001	2/3/2009	DH-7
865	AEH-0902-121	H09020036-002	2/3/2009	EH-64
590	AEH-0902-122	H09020036-003	2/3/2009	EH-101
766	AEH-0902-123	H09020036-004	2/3/2009	EH-53
779	AEH-0902-125	H09020036-006	2/3/2009	EH-54
840	AEH-0902-126	H09020036-007	2/4/2009	EH-61
613	AEH-0902-127	H09020036-008	2/4/2009	EH-103
613	AEH-0902-128	H09020036-009	2/4/2009	EH-103
673	AEH-0902-129	H09020036-010	2/4/2009	EH-113
685	AEH-0902-130	H09020036-011	2/4/2009	EH-115
149	AEH-0902-131	H09020036-012	2/4/2009	DH-1
236	AEH-0902-133	H09020036-014	2/4/2009	DH-2
619	AEH-0902-134	H09020058-001	2/4/2009	EH-104
634	AEH-0902-135	H09020058-002	2/4/2009	EH-107
695	AEH-0902-137	H09020058-004	2/4/2009	EH-117
690	AEH-0902-138	H09020058-005	2/4/2009	EH-116
679	AEH-0902-139	H09020058-006	2/4/2009	EH-114
649	AEH-0902-140	H09020058-007	2/4/2009	EH-110
333	AEH-0902-142	H09020058-009	2/5/2009	DH-3
333	AEH-0902-143	H09020058-010	2/5/2009	DH-3
560	AEH-0902-144	H09020058-011	2/5/2009	DH-8
737	AEH-0902-145	H09020058-012	2/5/2009	EH-51
871	AEH-0902-146	H09020058-013	2/5/2009	EH-65
529	AEH-0902-148	H09020058-015	2/5/2009	DH-69
723	AEH-0902-149	H09020058-016	2/5/2009	EH-50
929	AEH-0902-150	H09020067-001	2/6/2009	MW-7
911	AEH-0902-151	H09020067-002	2/6/2009	MW-4
885	AEH-0902-153	H09020067-004	2/6/2009	MW-1
885	AEH-0902-154	H09020067-005	2/6/2009	MW-1

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917	AEH-0902-157	H09020067-008	2/6/2009	MW-5
933	AEH-0902-158	H09020067-009	2/6/2009	MW-8
889	AEH-0902-159	H09020067-010	2/6/2009	MW-10
897	AEH-0902-160	H09020067-011	2/6/2009	MW-2
905	AEH-0902-161	H09020067-012	2/6/2009	MW-3
891	AEH-0902-162	H09020078-001	2/9/2009	MW-11
924	AEH-0902-163	H09020078-002	2/9/2009	MW-6
723	AEH-0902-164	H09020078-003	2/9/2009	EH-50
751	AEH-0902-165	H09020078-004	2/9/2009	EH-52
751	AEH-0902-166	H09020078-005	2/9/2009	EH-52
445	AEH-0902-168	H09020078-007	2/9/2009	DH-52
492	AEH-0902-169	H09020078-008	2/9/2009	DH-6
471	AEH-0902-170	H09020078-009	2/9/2009	DH-58
657	AEH-0902-171	H09020078-010	2/9/2009	EH-111
628	AEH-0902-173	H09020078-012	2/9/2009	EH-106
831	AEH-0902-174	H09020078-013	2/9/2009	EH-60
581	AEH-0902-175	H09020078-014	2/9/2009	EH-100
641	AEH-0902-176	H09020078-015	2/9/2009	EH-109
479	AEH-0902-177	H09020089-001	2/10/2009	DH-59
479	AEH-0902-178	H09020089-002	2/10/2009	DH-59
512	AEH-0902-179	H09020089-003	2/10/2009	DH-64
67	AEH-0902-181	H09020089-005	2/10/2009	APSD-2
1093	AEH-0902-182	H09020089-006	2/10/2009	DH-21
664	AEH-0902-184	H09020131-001	2/13/2009	EH-112
816	AEH-0902-185	H09020131-002	2/13/2009	EH-59
816	AEH-0902-186	H09020131-003	2/13/2009	EH-59
570	AEH-0902-187	AEH-0902-187	2/10/2009	DH-9
707	AEH-0905-109	H09050115-001	5/5/2009	EH-123
707	AEH-0905-110	H09050115-002	5/5/2009	EH-124
707	AEH-0905-111	H09050115-003	5/5/2009	EH-124
709	AEH-0905-112	H09050115-004	5/5/2009	EH-126
709	AEH-0905-113	H09050115-005	5/5/2009	EH-125
711	AEH-0905-114	H09050115-006	5/5/2009	EH-127
697	AEH-0905-116	H09050115-008	5/5/2009	EH-118
703	AEH-0905-118	H09050115-010	5/5/2009	EH-121
873	AEH-0905-119	H09050115-011	5/5/2009	EH-66
875	AEH-0905-120	H09050115-012	5/5/2009	EH-67
705	AEH-0905-121	H09050115-013	5/5/2009	EH-122
853	AEH-0905-122	H09050115-014	5/5/2009	EH-62
858	AEH-0905-123	H09050142-001	5/6/2009	EH-63
606	AEH-0905-124	H09050142-002	5/6/2009	EH-102
606	AEH-0905-125	H09050142-003	5/6/2009	EH-102

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879	AEH-0905-128	H09050142-006	5/6/2009	EH-69
877	AEH-0905-129	H09050142-007	5/6/2009	EH-68
542	AEH-0905-131	H09050142-009	5/6/2009	DH-7
172	AEH-0905-132	H09050142-010	5/6/2009	DH-11
149	AEH-0905-133	H09050142-011	5/6/2009	DH-1
865	AEH-0905-134	H09050142-012	5/6/2009	EH-64
766	AEH-0905-136	H09050142-013	5/6/2009	EH-53
592	AEH-0905-137	H09050142-014	5/6/2009	EH-101
840	AEH-0905-138	H09050142-015	5/6/2009	EH-61
613	AEH-0905-139	H09050158-001	5/7/2009	EH-103
911	AEH-0905-140	H09050158-002	5/7/2009	MW-4
911	AEH-0905-141	H09050158-003	5/7/2009	MW-4
885	AEH-0905-142	H09050158-004	5/7/2009	MW-1
937	AEH-0905-144	H09050158-006	5/7/2009	MW-9
919	AEH-0905-145	H09050158-007	5/7/2009	MW-5
933	AEH-0905-146	H09050158-008	5/7/2009	MW-8
889	AEH-0905-148	H09050158-010	5/7/2009	MW-10
905	AEH-0905-149	H09050158-011	5/7/2009	MW-3
897	AEH-0905-150	H09050158-012	5/7/2009	MW-2
891	AEH-0905-151	H09050158-013	5/7/2009	MW-11
924	AEH-0905-152	H09050167-001	5/8/2009	MW-6
924	AEH-0905-153	H09050167-002	5/8/2009	MW-6
929	AEH-0905-155	H09050167-004	5/8/2009	MW-7
619	AEH-0905-156	H09050167-005	5/8/2009	EH-104
790	AEH-0905-157	H09050167-006	5/8/2009	EH-57A
1080	AEH-0905-159	H09050167-008	5/8/2009	DH-18
504	AEH-0905-160	H09050167-009	5/8/2009	DH-63
456	AEH-0905-161	H09050167-010	5/8/2009	DH-54
500	AEH-0905-163	H09050178-002	5/11/2009	DH-62
236	AEH-0905-164	H09050178-003	5/11/2009	DH-2
679	AEH-0905-165	H09050178-004	5/11/2009	EH-114
634	AEH-0905-166	H09050178-005	5/11/2009	EH-107
634	AEH-0905-167	H09050178-006	5/11/2009	EH-107
666	AEH-0905-168	H09050178-007	5/11/2009	EH-112
673	AEH-0905-169	H09050178-008	5/11/2009	EH-113
695	AEH-0905-171	H09050178-010	5/11/2009	EH-117
699	AEH-0905-172	H09050178-011	5/11/2009	EH-119
690	AEH-0905-173	H09050178-012	5/11/2009	EH-116
649	AEH-0905-174	H09050178-013	5/11/2009	EH-110
193	AEH-0905-175	H09050193-001	5/12/2009	DH-15
701	AEH-0905-177	H09050193-003	5/12/2009	EH-120
701	AEH-0905-178	H09050193-004	5/12/2009	EH-120

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29	AEH-0905-180	H09050193-006	5/12/2009	APSD-11
527	AEH-0905-181	H09050193-007	5/12/2009	DH-67
779	AEH-0905-183	H09050193-009	5/12/2009	EH-54
816	AEH-0905-184	H09050193-010	5/12/2009	EH-59
560	AEH-0905-185	H09050193-011	5/12/2009	DH-8
38	AEH-0905-186	H09050193-012	5/12/2009	APSD-12
522	AEH-0905-187	H09050193-013	5/12/2009	DH-66
438	AEH-0905-189	H09050210-002	5/13/2009	DH-51
737	AEH-0905-190	H09050210-003	5/13/2009	EH-51
871	AEH-0905-191	H09050210-004	5/13/2009	EH-65
252	AEH-0905-192	H09050210-005	5/13/2009	DH-20
1156	AEH-0905-193	H09050210-006	5/13/2009	SDMW-4
87	AEH-0905-194	H09050210-007	5/13/2009	APSD-4
126	AEH-0905-195	H09050210-008	5/13/2009	APSD-8
423	AEH-0905-197	H09050210-010	5/13/2009	DH-5
723	AEH-0905-198	H09050210-011	5/13/2009	EH-50
753	AEH-0905-199	H09050210-012	5/13/2009	EH-52
529	AEH-0905-200	H09050210-013	5/13/2009	DH-69
136	AEH-0905-201	H09050210-014	5/13/2009	APSD-9
20	AEH-0905-202	H09050210-015	5/13/2009	APSD-10
451	AEH-0905-203	H09050210-016	5/13/2009	DH-53
447	AEH-0905-204	H09050210-017	5/13/2009	DH-52
737	AEH-0905-205	H09050233-001	5/14/2009	EH-51
737	AEH-0905-206	H09050233-002	5/14/2009	EH-51
527	AEH-0905-207	H09050233-003	5/14/2009	DH-68
159	AEH-0905-209	H09050233-005	5/14/2009	DH-10A
159	AEH-0905-209A	H09050233-005	5/14/2009	DH-10A
492	AEH-0905-210	H09050233-006	5/14/2009	DH-6
273	AEH-0905-212	H09050233-008	5/14/2009	DH-23
53	AEH-0905-213	H09050233-009	5/14/2009	APSD-16
51	AEH-0905-214	H09050233-010	5/14/2009	APSD-15
544	AEH-0905-215	H09050233-011	5/14/2009	DH-70
370	AEH-0905-216	H09050233-012	5/14/2009	DH-4
398	AEH-0905-217	H09050233-013	5/14/2009	DH-47
473	AEH-0905-218	H09050233-014	5/14/2009	DH-58
466	AEH-0905-219	H09050233-015	5/14/2009	DH-57
109	AEH-0905-220	H09050233-016	5/14/2009	APSD-7
546	AEH-0905-221	H09050233-017	5/14/2009	DH-71
11	AEH-0905-222	H09050242-001	5/15/2009	APSD-1
709	AEH-0905-226	H09050248-002	5/15/2009	EH-126
709	AEH-0905-227	H09050248-003	5/15/2009	EH-125
709	AEH-0905-228	H09050248-004	5/15/2009	EH-125

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657	AEH-0905-230	H09050242-004	5/15/2009	EH-111
657	AEH-0905-231	H09050242-005	5/15/2009	EH-111
339	AEH-0905-232	H09050242-006	5/15/2009	DH-36
1024	AEH-0905-233	H09050242-007	5/15/2009	STW-7
433	AEH-0905-234	H09050242-008	5/15/2009	DH-50
581	AEH-0905-236	H09050242-009	5/15/2009	EH-100
707	AEH-0905-237	H09050248-007	5/15/2009	EH-123
408	AEH-0905-238	z	5/18/2009	DH-49
1140	AEH-0905-240	H09050256-002	5/18/2009	DH-35
1148	AEH-0905-241	H09050256-003	5/18/2009	SDMW-1
1148	AEH-0905-242	H09050256-004	5/18/2009	SDMW-1
628	AEH-0905-243	H09050256-005	5/18/2009	EH-106
831	AEH-0905-244	H09050256-006	5/18/2009	EH-60
1046	AEH-0905-245	H09050256-007	5/18/2009	STW-9
1036	AEH-0905-246	H09050256-008	5/18/2009	STW-8
1160	AEH-0905-247	H09050256-009	5/18/2009	SDMW-5
1154	AEH-0905-249	H09050256-011	5/18/2009	SDMW-3
995	AEH-0905-250	H09050256-012	5/18/2009	STW-4
960	AEH-0905-251	H09050256-013	5/18/2009	STW-1
643	AEH-0905-252	H09050256-014	5/18/2009	EH-109
479	AEH-0905-253	H09050256-015	5/18/2009	DH-59
77	AEH-0905-255	H09050287-002	5/19/2009	APSD-3
1105	AEH-0905-256	H09050287-003	5/19/2009	DH-27
1111	AEH-0905-257	H09050287-004	5/19/2009	DH-30
1117	AEH-0905-259	z	5/19/2009	DH-31
1065	AEH-0905-260	H09050287-006	5/19/2009	DH-13
1065	AEH-0905-261	H09050287-007	5/19/2009	DH-13
292	AEH-0905-262	H09050287-008	5/19/2009	DH-24
951	AEH-0905-263	H09050287-009	5/19/2009	SPARGE 3
316	AEH-0905-264	H09050287-010	5/19/2009	DH-29
1150	AEH-0905-265	H09050287-011	5/19/2009	SDMW-2
344	AEH-0905-266	z	5/19/2009	DH-37
514	AEH-0905-267	H09050287-012	5/19/2009	DH-64
211	AEH-0905-268	H09050287-013	5/19/2009	DH-17
67	AEH-0905-270	H09050289-002	5/20/2009	APSD-2
1164	AEH-0905-271	H09050289-003	5/20/2009	TW-1
1164	AEH-0905-272	H09050289-004	5/20/2009	TW-1
1126	AEH-0905-273	H09050289-005	5/20/2009	DH-33
1134	AEH-0905-275	H09050289-007	5/20/2009	DH-34
1093	AEH-0905-276	H09050289-008	5/20/2009	DH-21
224	AEH-0905-277	H09050289-009	5/20/2009	DH-19R
136	AEH-8501-116	85-696	1/15/1985	DH-1

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224	AEH-8501-117	85-676	1/18/1985	DH-2
224	AEH-8501-117	S5755	1/18/1985	DH-2
316	AEH-8501-118	85-677	1/18/1985	DH-3
316	AEH-8501-118	S5752	1/18/1985	DH-3
348	AEH-8501-119	85-678	1/16/1985	DH-4
408	AEH-8501-120	85-679	1/17/1985	DH-5
408	AEH-8501-120	S5748	1/17/1985	DH-5
479	AEH-8501-121	85-680	1/16/1985	DH-6
481	AEH-8501-121	S5759	1/16/1985	DH-6
481	AEH-8501-121	S5710	1/16/1985	DH-6
531	AEH-8501-122	88-682	1/18/1985	DH-7
531	AEH-8501-122	S5708	1/18/1985	DH-7
531	AEH-8501-122	S5756	1/18/1985	DH-7
546	AEH-8501-123	85-684	1/17/1985	DH-8
546	AEH-8501-123	S5750	1/17/1985	DH-8
560	AEH-8501-124	85-685	1/18/1985	DH-9
560	AEH-8501-124	S5754	1/18/1985	DH-9
149	AEH-8501-125	85-686	1/18/1985	DH-10
151	AEH-8501-125	S5757	1/18/1985	DH-10
151	AEH-8501-125	S5709	1/18/1985	DH-10
161	AEH-8501-126	85-699	1/15/1985	DH-11
161	AEH-8501-126	S5707	1/15/1985	DH-11
161	AEH-8501-126	S5760	1/15/1985	DH-11
136	AEH-8501-127	85-688	1/15/1985	DH-1
136	AEH-8501-127	S5705	1/15/1985	DH-1
348	AEH-8501-128	85-689	1/16/1985	DH-4
348	AEH-8501-128	S5712	1/16/1985	DH-4
408	AEH-8501-129	85-690	1/17/1985	DH-5
408	AEH-8501-129	S5749	1/17/1985	DH-5
318	AEH-8501-130	85-691	1/18/1985	DH-3
318	AEH-8501-130	S5753	1/18/1985	DH-3
161	AEH-8501-137	85-700	1/21/1985	DH-11
161	AEH-8501-137	S5761	1/21/1985	DH-11
138	AEH-8504-312	85-2473	4/10/1985	DH-1
224	AEH-8504-313	85-2474	4/10/1985	DH-2
318	AEH-8504-314	85-2475	4/10/1985	DH-3
348	AEH-8504-315	8504-315	4/9/1985	DH-4
349	AEH-8504-315	85-2476	4/9/1985	DH-4
409	AEH-8504-316	85-2477	4/9/1985	DH-5
409	AEH-8504-316	8504-316	4/9/1985	DH-5
409	AEH-8504-316 SD	8504-316SD	4/9/1985	DH-5
481	AEH-8504-317	85-2478	4/8/1985	DH-6

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546	AEH-8504-319	85-2480	4/10/1985	DH-8
560	AEH-8504-320	85-2481	4/9/1985	DH-9
151	AEH-8504-321	85-2482	4/8/1985	DH-10
349	AEH-8504-322	85-2483	4/9/1985	DH-4
349	AEH-8504-322	8504-322	4/9/1985	DH-4
161	AEH-8504-337	85-2487	4/8/1985	DH-11
349	AEH-8506-508	73-1989	6/11/1985	DH-4
349	AEH-8506-508	85-4513	6/11/1985	DH-4
138	AEH-8506-509	85-4512	6/13/1985	DH-1
226	AEH-8506-510	85-4511	6/12/1985	DH-2
318	AEH-8506-511	85-4510	6/12/1985	DH-3
349	AEH-8506-512	85-4509	6/11/1985	DH-4
409	AEH-8506-513	73-1990	6/11/1985	DH-5
409	AEH-8506-513	85-4508	6/11/1985	DH-5
481	AEH-8506-514	85-4507	6/13/1985	DH-6
531	AEH-8506-515	85-4506	6/14/1985	DH-7
546	AEH-8506-516	85-4505	6/14/1985	DH-8
562	AEH-8506-517	85-4504	6/11/1985	DH-9
562	AEH-8506-517	73-1991	6/11/1985	DH-9
151	AEH-8506-518	85-4503	6/15/1985	DH-10
162	AEH-8506-519	85-4502	6/15/1985	DH-11
318	AEH-8506-524	85-4498	6/12/1985	DH-3
481	AEH-8506-525	85-4497	6/13/1985	DH-6
162	AEH-8506-526	85-4496	6/15/1985	DH-11
350	AEH-8508-704	73-2884	8/15/1985	DH-4
350	AEH-8508-704	85-6282	8/15/1985	DH-4
318	AEH-8508-705	73-2886	8/15/1985	DH-3
319	AEH-8508-705	85-6283	8/15/1985	DH-3
531	AEH-8508-706	73-2880	8/14/1985	DH-7
532	AEH-8508-706	85-6284	8/14/1985	DH-7
548	AEH-8508-707	85-6285	8/15/1985	DH-8
548	AEH-8508-707	73-2887	8/15/1985	DH-8
162	AEH-8508-708	85-6286	8/14/1985	DH-11
162	AEH-8508-708	73-2882	8/14/1985	DH-11
409	AEH-8508-716	85-6290	8/13/1985	DH-5
138	AEH-8508-717	85-6291	8/12/1985	DH-1
226	AEH-8508-718	85-6292	8/13/1985	DH-2
319	AEH-8508-719	73-2885	8/15/1985	DH-3
319	AEH-8508-719	85-6293	8/15/1985	DH-3
350	AEH-8508-720	73-2883	8/15/1985	DH-4
350	AEH-8508-720	85-6294	8/15/1985	DH-4
410	AEH-8508-721	85-6295	8/13/1985	DH-5

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532	AEH-8508-723	73-2879	8/14/1985	DH-7
532	AEH-8508-723	85-6297	8/14/1985	DH-7
548	AEH-8508-724	73-2888	8/15/1985	DH-8
548	AEH-8508-724	85-6298	8/15/1985	DH-8
562	AEH-8508-725	85-6299	8/13/1985	DH-9
151	AEH-8508-726	85-6300	8/13/1985	DH-10
162	AEH-8508-727	85-6301	8/14/1985	DH-11
162	AEH-8508-727	73-2881	8/14/1985	DH-11
532	AEH-8508-732	85-6304	8/14/1985	DH-7
532	AEH-8508-733	85-6305	8/14/1985	DH-7
350	AEH-8508-734	85-6306	8/15/1985	DH-4
350	AEH-8508-735	85-6307	8/15/1985	DH-4
583	AEH-8610-148	86-7257	10/30/1986	EH-101
583	AEH-8610-148	8610-148	10/30/1986	EH-101
583	AEH-8610-149	86-7258	10/30/1986	EH-101
583	AEH-8610-149	8610-149	10/30/1986	EH-101
725	AEH-8610-150	86-7259	10/30/1986	EH-51
725	AEH-8610-150	8610-150	10/30/1986	EH-51
583	AEH-8610-7040	HYD-9028	10/23/1986	EH-101
174	AEH-8611-2	86-7323	11/4/1986	DH-14
174	AEH-8611-2	8611-2	11/4/1986	DH-14
174	AEH-8611-3	8611-3	11/4/1986	DH-14
174	AEH-8611-3	86-7325	11/4/1986	DH-14
187	AEH-8611-5	8611-5	11/6/1986	DH-15
188	AEH-8611-5	86-7464	11/6/1986	DH-15
188	AEH-8611-6	86-7465	11/6/1986	DH-15
188	AEH-8611-6	8611-6	11/6/1986	DH-15
711	AEH-8611-8	86-7467	11/7/1986	EH-50
711	AEH-8611-8	8611-8	11/7/1986	EH-50
711	AEH-8611-9	8611-9	11/7/1986	EH-50
713	AEH-8611-9	86-7468	11/7/1986	EH-50
1054	AEH-8611-10	8611-10	11/7/1986	DH-13
1054	AEH-8611-10	86-7469	11/7/1986	DH-13
570	AEH-8611-12	8611-12	11/11/1986	EH-100
570	AEH-8611-12	86-7491	11/11/1986	EH-100
571	AEH-8611-13	8611-13	11/11/1986	EH-100
571	AEH-8611-13	86-7492	11/11/1986	EH-100
592	AEH-8611-14	8611-14	11/11/1986	EH-102
592	AEH-8611-14	86-7493	11/11/1986	EH-102
739	AEH-8611-15	86-7494	11/11/1986	EH-52
739	AEH-8611-15	HYD-9042	11/11/1986	EH-52
753	AEH-8611-17	8611-17	11/13/1986	EH-53

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753	AEH-8611-18	86-7538	11/13/1986	EH-53
1046	AEH-8611-19	8611-19	11/13/1986	DH-12
1046	AEH-8611-19	86-7539	11/13/1986	DH-12
138	AEH-8611-21	8611-21	11/18/1986	DH-1
138	AEH-8611-21	86-7785	11/18/1986	DH-1
226	AEH-8611-22	86-7786	11/18/1986	DH-2
226	AEH-8611-22	8611-22	11/18/1986	DH-2
319	AEH-8611-23	8611-23	11/18/1986	DH-3
319	AEH-8611-23	86-7787	11/18/1986	DH-3
351	AEH-8611-24	86-7792	11/19/1986	DH-4
351	AEH-8611-24	8611-24	11/19/1986	DH-4
410	AEH-8611-25	8611-25	11/24/1986	DH-5
410	AEH-8611-25	86-7839	11/24/1986	DH-5
482	AEH-8611-26	86-7832	11/25/1986	DH-6
482	AEH-8611-26	8611-26	11/25/1986	DH-6
532	AEH-8611-27	8611-27	11/19/1986	DH-7
533	AEH-8611-27	86-7788	11/19/1986	DH-7
548	AEH-8611-28	8611-28	11/24/1986	DH-8
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562	AEH-8611-29	8611-29	11/25/1986	DH-9
562	AEH-8611-29	86-7835	11/25/1986	DH-9
151	AEH-8611-30	8611-30	11/18/1986	DH-10
152	AEH-8611-30	86-7793	11/18/1986	DH-10
163	AEH-8611-31	8611-31	11/19/1986	DH-11
163	AEH-8611-31	86-7791	11/19/1986	DH-11
766	AEH-8611-32	8611-32	11/24/1986	EH-54
766	AEH-8611-32	86-7836	11/24/1986	EH-54
739	AEH-8611-33	86-7784	11/18/1986	EH-52
739	AEH-8611-33	HYD-9044	11/18/1986	EH-52
533	AEH-8611-34	86-7789	11/19/1986	DH-7
533	AEH-8611-34	8611-34	11/19/1986	DH-7
768	AEH-8611-35	86-7840	11/24/1986	EH-54
768	AEH-8611-35	8611-35	11/24/1986	EH-54
482	AEH-8611-36	86-7833	11/25/1986	DH-6
482	AEH-8611-36	8611-36	11/25/1986	DH-6
739	AEH-8611-45	86-7782	11/18/1986	EH-52
739	AEH-8611-45	HYD-9043	11/18/1986	EH-52
199	AEH-8612-2	86-7891	12/1/1986	DH-17
199	AEH-8612-2	8612-2	12/1/1986	DH-17
199	AEH-8612-3	8612-3	12/1/1986	DH-17
200	AEH-8612-3	86-7892	12/1/1986	DH-17

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792	AEH-8612-11	86-8132	12/8/1986	EH-58
792	AEH-8612-11	8612-11	12/8/1986	EH-58
792	AEH-8612-13	86-8134	12/8/1986	EH-58
1046	AEH-8701-100	87-655	1/28/1987	DH-12
1054	AEH-8701-101	87-653	1/28/1987	DH-13
1054	AEH-8701-101	8701-101	1/28/1987	DH-13
174	AEH-8701-102	87-646	1/26/1987	DH-14
188	AEH-8701-103	87-650	1/27/1987	DH-15
200	AEH-8701-104	87-656	1/29/1987	DH-17
1067	AEH-8701-105	8701-105	1/27/1987	DH-18
1067	AEH-8701-105	87-649	1/27/1987	DH-18
725	AEH-8701-106	87-782	2/3/1987	EH-51
583	AEH-8701-107	87-785	2/3/1987	EH-101
713	AEH-8701-108	87-777	2/2/1987	EH-50
571	AEH-8701-109	87-774	2/2/1987	EH-100
740	AEH-8701-110	8701-110	2/4/1987	EH-52
740	AEH-8701-110	87-788	2/4/1987	EH-52
592	AEH-8701-111	8701-111	2/4/1987	EH-102
592	AEH-8701-111	87-786	2/4/1987	EH-102
755	AEH-8701-112	87-779	2/3/1987	EH-53
768	AEH-8701-114	87-790	2/5/1987	EH-54
768	AEH-8701-114	8701-114	2/5/1987	EH-54
792	AEH-8701-115	87-789	2/4/1987	EH-58
792	AEH-8701-115	8701-115	2/4/1987	EH-58
174	AEH-8701-126	87-647	1/26/1987	DH-14
188	AEH-8701-128	87-651	1/27/1987	DH-15
571	AEH-8701-132	87-775	2/2/1987	EH-100
725	AEH-8701-138	87-784	2/3/1987	EH-51
594	AEH-8701-139	8701-139	2/4/1987	EH-102
594	AEH-8701-139	87-787	2/4/1987	EH-102
175	AEH-8704-3	87-2234	4/2/1987	DH-14
175	AEH-8704-4	88-2237	4/2/1987	DH-14
571	AEH-8704-5	87-2354	4/7/1987	EH-100
571	AEH-8704-6	87-2355	4/7/1987	EH-100
594	AEH-8704-8	87-2429	4/13/1987	EH-102
594	AEH-8704-9	87-2430	4/13/1987	EH-102
584	AEH-8704-11	87-2425	4/15/1987	EH-101
584	AEH-8704-12	87-2426	4/15/1987	EH-101
584	AEH-8704-14	87-2428	4/15/1987	EH-101
755	AEH-8704-15	87-2823	4/21/1987	EH-53

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768	AEH-8704-18	8704-18	4/21/1987	EH-54
572	AEH-8704-21	87-2828	4/22/1987	EH-100
572	AEH-8704-22	87-2829	4/22/1987	EH-100
713	AEH-8704-25	87-2832	4/22/1987	EH-50
792	AEH-8704-26	87-2833	4/23/1987	EH-58
793	AEH-8704-27	87-2834	4/23/1987	EH-58
594	AEH-8704-29	87-2836	4/23/1987	EH-102
584	AEH-8704-30	8704-30	4/23/1987	EH-101
584	AEH-8704-30	87-2837	4/23/1987	EH-101
725	AEH-8704-31	8704-31	4/24/1987	EH-51
725	AEH-8704-31	87-2838	4/24/1987	EH-51
726	AEH-8704-32	8704-32	4/24/1987	EH-51
726	AEH-8704-32	87-2839	4/24/1987	EH-51
1080	AEH-8704-50	87-2841	4/27/1987	DH-21
533	AEH-8705-19	87-3820	5/21/1987	DH-7
163	AEH-8705-23	87-3822	5/21/1987	DH-11
238	AEH-8705-31	8705-31	5/12/1987	DH-20
238	AEH-8705-31	87-3315	5/12/1987	DH-20
263	AEH-8705-33	87-3322	5/13/1987	DH-23
263	AEH-8705-33	8705-33	5/13/1987	DH-23
740	AEH-8705-38	87-3033	5/6/1987	EH-52
805	AEH-8705-40	87-3320	5/13/1987	EH-59
805	AEH-8705-40	8705-40	5/13/1987	EH-59
533	AEH-8705-46	87-3821	5/21/1987	DH-7
238	AEH-8705-103	87-3318	5/12/1987	DH-20
238	AEH-8705-103	8705-103	5/12/1987	DH-20
803	AEH-8705-112	8705-112	5/13/1987	EH-59
805	AEH-8705-112	87-3321	5/13/1987	EH-59
713	AEH-8705-128	87-3316	5/11/1987	EH-50
188	AEH-8705-129	87-3371	5/12/1987	DH-15
138	AEH-8706-03	87-4006	6/2/1987	DH-1
226	AEH-8706-04	87-4009	6/3/1987	DH-2
319	AEH-8706-05	8706-05	6/2/1987	DH-3
321	AEH-8706-05	87-4008	6/2/1987	DH-3
351	AEH-8706-06	87-4091	6/4/1987	DH-4
410	AEH-8706-07	87-4012	6/3/1987	DH-5
482	AEH-8706-08	8706-08	6/4/1987	DH-6
482	AEH-8706-08	87-4018	6/4/1987	DH-6
550	AEH-8706-09	87-4013	6/3/1987	DH-8
562	AEH-8706-10	87-4019	6/5/1987	DH-9
152	AEH-8706-11	87-4014	6/3/1987	DH-10

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1055	AEH-8706-13	87-4197	6/9/1987	DH-13
175	AEH-8706-14	87-4020	6/5/1987	DH-14
189	AEH-8706-15	8706-15	6/4/1987	DH-15
189	AEH-8706-15	87-4016	6/4/1987	DH-15
200	AEH-8706-16	8706-16	6/9/1987	DH-17
200	AEH-8706-16	87-4196	6/9/1987	DH-17
1067	AEH-8706-17	87-4193	6/9/1987	DH-18
211	AEH-8706-18	8706-18	6/11/1987	DH-19
211	AEH-8706-18	87-4239	6/11/1987	DH-19
252	AEH-8706-19	8706-19	6/11/1987	DH-22
252	AEH-8706-19	87-4238	6/11/1987	DH-22
273	AEH-8706-20	8706-20	6/11/1987	DH-24
273	AEH-8706-20	87-4235	6/11/1987	DH-24
1095	AEH-8706-22	8706-22	6/9/1987	DH-27
1095	AEH-8706-22	87-4199	6/9/1987	DH-27
139	AEH-8706-34	87-4007	6/2/1987	DH-1
226	AEH-8706-35	87-4010	6/3/1987	DH-2
189	AEH-8706-36	87-4017	6/4/1987	DH-15
189	AEH-8706-36	8706-36	6/4/1987	DH-15
175	AEH-8706-37	87-4021	6/5/1987	DH-14
1067	AEH-8706-38	87-4194	6/9/1987	DH-18
273	AEH-8706-39	8706-39	6/11/1987	DH-24
275	AEH-8706-39	87-4236	6/11/1987	DH-24
292	AEH-8706-100	8706-100	6/9/1987	DH-26
292	AEH-8706-100	87-4198	6/9/1987	DH-26
1080	AEH-8706-101	87-4200	6/9/1987	DH-21
1080	AEH-8706-101	8706-101	6/9/1987	DH-21
805	AEH-8707-108	87-5179	6/26/1987	EH-59
189	AEH-8707-109	87-5180	6/29/1987	DH-15
238	AEH-8707-110	87-5181	6/30/1987	DH-20
1048	AEH-8708-01	87-6876	8/17/1987	DH-12
1055	AEH-8708-02	87-6647	8/13/1987	DH-13
175	AEH-8708-03	87-6641	8/11/1987	DH-14
175	AEH-8708-03	8708-03	8/11/1987	DH-14
189	AEH-8708-04	87-6642	8/12/1987	DH-15
200	AEH-8708-05	87-6875	8/17/1987	DH-17
1068	AEH-8708-06	87-6640	8/11/1987	DH-18
213	AEH-8708-07	8708-07	8/12/1987	DH-19
213	AEH-8708-07	87-6645	8/12/1987	DH-19
238	AEH-8708-08	87-6639	8/11/1987	DH-20
1082	AEH-8708-09	87-7529	8/24/1987	DH-21

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275	AEH-8708-12	8708-12	8/12/1987	DH-24
275	AEH-8708-12	87-6644	8/12/1987	DH-24
294	AEH-8708-13	8708-13	8/17/1987	DH-26
294	AEH-8708-13	87-6873	8/17/1987	DH-26
1095	AEH-8708-14	87-6874	8/17/1987	DH-27
713	AEH-8708-15	87-6638	8/10/1987	EH-50
726	AEH-8708-16	87-6636	8/10/1987	EH-51
740	AEH-8708-17	8708-17	8/7/1987	EH-52
740	AEH-8708-17	87-6484	8/7/1987	EH-52
755	AEH-8708-18	8708-18	8/7/1987	EH-53
755	AEH-8708-18	87-5211	8/7/1987	EH-53
769	AEH-8708-19	87-6486	8/7/1987	EH-54
793	AEH-8708-20	87-6634	8/10/1987	EH-58
805	AEH-8708-21	87-6488	8/7/1987	EH-59
805	AEH-8708-21	8708-21	8/7/1987	EH-59
572	AEH-8708-22	87-6637	8/10/1987	EH-100
584	AEH-8708-23	87-6635	8/10/1987	EH-101
594	AEH-8708-24	87-6490	8/7/1987	EH-102
769	AEH-8708-42	87-6494	8/7/1987	EH-54
740	AEH-8708-43	8708-43	8/7/1987	EH-52
741	AEH-8708-43	87-6495	8/7/1987	EH-52
793	AEH-8708-44	87-6648	8/10/1987	EH-58
239	AEH-8708-45	87-6651	8/11/1987	DH-20
176	AEH-8708-46	8708-46	8/11/1987	DH-14
176	AEH-8708-46	87-6652	8/11/1987	DH-14
190	AEH-8708-47	87-6653	8/12/1987	DH-15
1055	AEH-8708-48	87-6655	8/13/1987	DH-13
294	AEH-8708-49	8708-49	8/17/1987	DH-26
294	AEH-8708-49	87-6878	8/17/1987	DH-26
1082	AEH-8708-51	87-7531	8/24/1987	DH-21
713	AEH-8711-200	87-10541	11/17/1987	EH-50
714	AEH-8711-200	8711-200	11/17/1987	EH-50
726	AEH-8711-201	87-10542	11/16/1987	EH-51
741	AEH-8711-202	87-10543	11/17/1987	EH-52
755	AEH-8711-203	87-10544	11/16/1987	EH-53
769	AEH-8711-203	8711-203	11/16/1987	EH-54
769	AEH-8711-204	87-10545	11/16/1987	EH-54
793	AEH-8711-205	87-10546	11/17/1987	EH-58
572	AEH-8711-206	8711-206	11/17/1987	EH-100
572	AEH-8711-206	87-10547	11/17/1987	EH-100
585	AEH-8711-207	87-10548	11/16/1987	EH-101

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714	AEH-8711-213	8711-213	11/17/1987	EH-50
714	AEH-8711-213	87-10540	11/17/1987	EH-50
321	AEH-8711-214	87-10572	11/19/1987	DH-3
139	AEH-8711-216	8711-216	11/18/1987	DH-1
139	AEH-8711-216	87-10573	11/18/1987	DH-1
227	AEH-8711-217	87-10788	11/24/1987	DH-2
321	AEH-8711-218	87-10571	12/7/1987	DH-3
351	AEH-8711-219	87-10578	11/19/1987	DH-4
351	AEH-8711-219	8711-219	11/19/1987	DH-4
410	AEH-8711-220	87-10567	11/20/1987	DH-5
483	AEH-8711-221	87-10568	11/20/1987	DH-6
533	AEH-8711-222	87-10569	11/20/1987	DH-7
534	AEH-8711-222	8711-222	11/20/1987	DH-7
550	AEH-8711-223	87-10780	11/23/1987	DH-8
564	AEH-8711-224	87-10781	11/23/1987	DH-9
152	AEH-8711-225	87-10579	11/19/1987	DH-10
152	AEH-8711-225	8711-225	11/19/1987	DH-10
163	AEH-8711-226	87-10580	11/19/1987	DH-11
1048	AEH-8711-227	87-11004	11/25/1987	DH-12
1048	AEH-8711-227A	87-10549	11/17/1987	DH-12
1055	AEH-8711-228	8711-228	11/25/1987	DH-13
1055	AEH-8711-228	87-11005	11/25/1987	DH-13
176	AEH-8711-229	87-10574	11/19/1987	DH-14
190	AEH-8711-230	87-10575	11/19/1987	DH-15
195	AEH-8711-231	87-10790	11/24/1987	DH-16
1068	AEH-8711-233	87-10783	11/23/1987	DH-18
213	AEH-8711-234	87-11007	11/30/1987	DH-19
239	AEH-8711-235	87-10784	11/23/1987	DH-20
1082	AEH-8711-236	87-11008	11/30/1987	DH-21
254	AEH-8711-237	87-10785	11/23/1987	DH-22
264	AEH-8711-238	87-11006	11/25/1987	DH-23
264	AEH-8711-238	8711-238	11/25/1987	DH-23
275	AEH-8711-239	87-10789	11/24/1987	DH-24
294	AEH-8711-241	87-10786	11/23/1987	DH-26
1095	AEH-8711-242	87-10787	11/23/1987	DH-27
806	AEH-8711-243	8711-243	11/17/1987	EH-59
410	AEH-8711-251	87-10570	11/20/1987	DH-5
564	AEH-8711-252	87-10782	11/23/1987	DH-9
1055	AEH-8711-253	87-11013	11/25/1987	DH-13
1056	AEH-8711-253	8711-253	11/25/1987	DH-13
781	AEH-8711-260	8711-260	12/3/1987	EH-57A

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818	AEH-8712-245	8712-245	12/2/1987	EH-60
831	AEH-8712-246	87-11010	12/2/1987	EH-61
831	AEH-8712-246	8712-246	12/2/1987	EH-61
842	AEH-8712-247	8712-247	12/2/1987	EH-62
842	AEH-8712-247	87-11011	12/2/1987	EH-62
818	AEH-8712-259	8712-259	12/2/1987	EH-60
818	AEH-8712-259	87-11016	12/2/1987	EH-60
781	AEH-8712-261	87-11017	12/3/1987	EH-57A
781	AEH-8712-261	8712-261	12/3/1987	EH-57A
213	AEH-8712-264	87-11020	11/30/1987	DH-19
296	AEH-8712-300	8712-300	12/18/1987	DH-28
296	AEH-8712-300	88-21	12/18/1987	DH-28
296	AEH-8712-301	8712-301	12/18/1987	DH-28
296	AEH-8712-301	88-23	12/18/1987	DH-28
303	AEH-8712-303	88-22	12/18/1987	DH-29
303	AEH-8712-303	8712-303	12/18/1987	DH-29
139	AEH-8804-300	88-3118	4/25/1988	DH-1
227	AEH-8804-301	88-3200	5/3/1988	DH-2
321	AEH-8804-302	88-3119	4/25/1988	DH-3
351	AEH-8804-303	88-3120	4/29/1988	DH-4
411	AEH-8804-304	88-3121	4/27/1988	DH-5
483	AEH-8804-305	88-3122	4/29/1988	DH-6
534	AEH-8804-306	88-3123	4/27/1988	DH-7
550	AEH-8804-307	88-3201	5/2/1988	DH-8
564	AEH-8804-308	88-3202	5/2/1988	DH-9
152	AEH-8804-309	88-3124	4/27/1988	DH-10
163	AEH-8804-310	88-3125	4/25/1988	DH-11
1056	AEH-8804-312	88-3203	5/2/1988	DH-13
176	AEH-8804-313	88-3126	4/29/1988	DH-14
190	AEH-8804-314	88-3127	4/27/1988	DH-15
200	AEH-8804-316	88-2775	4/19/1988	DH-17
1068	AEH-8804-317	88-3204	5/2/1988	DH-18
213	AEH-8804-318	88-3205	5/3/1988	DH-19
239	AEH-8804-319	88-3128	4/29/1988	DH-20
1082	AEH-8804-320	88-2776	4/19/1988	DH-21
254	AEH-8804-321	88-3206	5/3/1988	DH-22
264	AEH-8804-322	88-3207	5/2/1988	DH-23
275	AEH-8804-323	88-2774	4/19/1988	DH-24
294	AEH-8804-324	88-3208	5/3/1988	DH-26
1095	AEH-8804-325	88-3209	5/3/1988	DH-27
296	AEH-8804-326	88-3120	5/3/1988	DH-28

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201	AEH-8804-328	88-2785	4/19/1988	DH-17
741	AEH-8804-329	88-2787	4/20/1988	EH-52
321	AEH-8804-330	88-3129	4/25/1988	DH-3
411	AEH-8804-331	88-3130	4/27/1988	DH-5
176	AEH-8804-332	88-3131	4/29/1988	DH-14
264	AEH-8804-333	88-3212	5/2/1988	DH-23
295	AEH-8804-334	88-3213	5/3/1988	DH-26
714	AEH-8804-342	88-2717	4/15/1988	EH-50
726	AEH-8804-343	88-2779	4/20/1988	EH-51
741	AEH-8804-344	88-2778	4/20/1988	EH-52
756	AEH-8804-345	88-2718	4/13/1988	EH-53
769	AEH-8804-346	88-2719	4/13/1988	EH-54
781	AEH-8804-347	88-2720	4/13/1988	EH-57A
793	AEH-8804-348	88-2721	4/15/1988	EH-58
806	AEH-8804-349	88-2735	4/13/1988	EH-59
818	AEH-8804-350	88-2772	4/18/1988	EH-60
833	AEH-8804-351	88-2773	4/18/1988	EH-61
842	AEH-8804-352	88-2722	4/15/1988	EH-62
572	AEH-8804-353	88-2723	4/15/1988	EH-100
585	AEH-8804-354	88-2780	4/20/1988	EH-101
595	AEH-8804-355	88-2777	4/20/1988	EH-102
769	AEH-8804-356	88-2729	4/13/1988	EH-54
793	AEH-8804-357	88-2730	4/15/1988	EH-58
833	AEH-8804-358	88-2783	4/18/1988	EH-61
139	AEH-8812-121	89-20	12/8/1988	DH-1
227	AEH-8812-122	89-21	12/9/1988	DH-2
321	AEH-8812-123	89-19	12/8/1988	DH-3
352	AEH-8812-124	89-36	12/19/1988	DH-4
411	AEH-8812-125	89-46	12/19/1988	DH-5
483	AEH-8812-126	89-37	12/19/1988	DH-6
534	AEH-8812-127	89-22	12/9/1988	DH-7
550	AEH-8812-128	89-10	12/15/1988	DH-8
152	AEH-8812-130	89-38	12/19/1988	DH-10
163	AEH-8812-131	89-23	12/9/1988	DH-11
1056	AEH-8812-132	89-53	12/22/1988	DH-13
201	AEH-8812-135	89-52	12/21/1988	DH-17
1068	AEH-8812-136	89-34	12/19/1988	DH-18
213	AEH-8812-137	89-56	12/28/1988	DH-19
239	AEH-8812-138	89-9	12/15/1988	DH-20
1082	AEH-8812-139	89-57	12/28/1988	DH-21
254	AEH-8812-140	89-50	12/21/1988	DH-22
264	AEH-8812-141	89-39	12/20/1988	DH-23

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295	AEH-8812-143	89-41	12/20/1988	DH-26
1095	AEH-8812-144	89-42	12/20/1988	DH-27
296	AEH-8812-145	89-51	12/21/1988	DH-28
304	AEH-8812-146	89-43	12/20/1988	DH-29
214	AEH-8812-147	89-58	12/28/1988	DH-19
1056	AEH-8812-148	89-54	12/22/1988	DH-13
276	AEH-8812-149	89-45	12/21/1988	DH-24
295	AEH-8812-150	89-40	12/20/1988	DH-26
1068	AEH-8812-151	89-35	12/19/1988	DH-18
595	AEH-8812-152	89-16	12/13/1988	EH-102
534	AEH-8812-153	89-31	12/9/1988	DH-7
714	AEH-8812-161	89-28	12/13/1988	EH-50
727	AEH-8812-162	89-6	12/14/1988	EH-51
741	AEH-8812-163	89-18	12/13/1988	EH-52
756	AEH-8812-164	89-26	12/12/1988	EH-53
770	AEH-8812-165	89-27	12/12/1988	EH-54
781	AEH-8812-166	89-25	12/12/1988	EH-57A
794	AEH-8812-167	89-24	12/9/1988	EH-58
818	AEH-8812-169	89-7	12/14/1988	EH-60
833	AEH-8812-170	89-8	12/15/1988	EH-61
842	AEH-8812-171	89-17	12/13/1988	EH-62
595	AEH-8812-174	89-15	12/13/1988	EH-102
139	AEH-8904-200	89-499	4/18/1989	DH-1
227	AEH-8904-201	89-475	4/11/1989	DH-2
322	AEH-8904-202	89-476	4/11/1989	DH-3
352	AEH-8904-203	89-500	4/18/1989	DH-4
411	AEH-8904-204	89-498	4/18/1989	DH-5
483	AEH-8904-205	89-501	4/18/1989	DH-6
534	AEH-8904-206	89-477	4/11/1989	DH-7
550	AEH-8904-207	89-497	4/18/1989	DH-8
564	AEH-8904-208	89-502	4/19/1989	DH-9
153	AEH-8904-209	89-503	4/19/1989	DH-10
164	AEH-8904-210	89-478	4/11/1989	DH-11
1056	AEH-8904-211	89-505	4/19/1989	DH-13
201	AEH-8904-214	89-504	4/19/1989	DH-17
1068	AEH-8904-215	89-486	4/17/1989	DH-18
214	AEH-8904-216	89-513	4/20/1989	DH-19
239	AEH-8904-217	89-485	4/12/1989	DH-20
1082	AEH-8904-218	89-514	4/20/1989	DH-21
254	AEH-8904-219	89-509	4/19/1989	DH-22
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297	AEH-8904-224	89-510	4/20/1989	DH-28
304	AEH-8904-225	89-507	4/19/1989	DH-29
714	AEH-8904-232	89-484	4/12/1989	EH-50
727	AEH-8904-233	89-487	4/17/1989	EH-51
741	AEH-8904-234	89-488	4/17/1989	EH-52
756	AEH-8904-235	89-483	4/12/1989	EH-53
770	AEH-8904-236	89-479	4/11/1989	EH-54
782	AEH-8904-237	89-482	4/12/1989	EH-57A
794	AEH-8904-238	89-480	4/11/1989	EH-58
818	AEH-8904-240	89-495	4/17/1989	EH-60
842	AEH-8904-242	89-496	4/18/1989	EH-62
595	AEH-8904-245	89-481	4/11/1989	EH-102
227	AEH-8904-246	89-490	4/11/1989	DH-2
782	AEH-8904-247	89-492	4/12/1989	EH-57A
1069	AEH-8904-248	89-494	4/17/1989	DH-18
483	AEH-8904-271	89-543	4/18/1989	DH-6
153	AEH-8904-272	89-545	4/19/1989	DH-10
295	AEH-8904-291	89-547	4/20/1989	DH-26
140	AEH-8910-400	89-794	10/11/1989	DH-1
227	AEH-8910-401	89-793	10/11/1989	DH-2
322	AEH-8910-402	89-792	10/11/1989	DH-3
352	AEH-8910-403	89-814	10/18/1989	DH-4
411	AEH-8910-404	89-815	10/18/1989	DH-5
483	AEH-8910-405	89-816	10/17/1989	DH-6
534	AEH-8910-406	89-801	10/12/1989	DH-7
550	AEH-8910-407	89-817	10/18/1989	DH-8
564	AEH-8910-408	89-818	10/18/1989	DH-9
153	AEH-8910-409	89-802	10/12/1989	DH-10
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1056	AEH-8910-411	89-819	10/18/1989	DH-13
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1069	AEH-8910-415	89-821	10/18/1989	DH-18
214	AEH-8910-416	89-833	10/23/1989	DH-19
239	AEH-8910-417	89-822	10/18/1989	DH-20
1083	AEH-8910-418	89-834	10/24/1989	DH-21
254	AEH-8910-419	89-830	10/19/1989	DH-22
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1096	AEH-8910-423	89-836	10/23/1989	DH-27
297	AEH-8910-424	89-837	10/24/1989	DH-28
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770	AEH-8910-427	89-808	10/12/1989	EH-54
164	AEH-8910-428	89-832	10/17/1989	DH-11
240	AEH-8910-429	89-826	10/18/1989	DH-20
201	AEH-8910-430	89-827	10/19/1989	DH-17
214	AEH-8910-431	89-840	10/23/1989	DH-19
304	AEH-8910-432	89-841	10/24/1989	DH-29
715	AEH-8910-440	89-798	10/12/1989	EH-50
727	AEH-8910-441	89-809	10/17/1989	EH-51
742	AEH-8910-442	89-810	10/17/1989	EH-52
756	AEH-8910-443	89-795	10/12/1989	EH-53
770	AEH-8910-444	89-796	10/12/1989	EH-54
782	AEH-8910-445	89-804	10/11/1989	EH-57A
794	AEH-8910-446	89-797	10/12/1989	EH-58
819	AEH-8910-448	89-811	10/17/1989	EH-60
842	AEH-8910-450	89-812	10/17/1989	EH-62
595	AEH-8910-453	89-799	10/12/1989	EH-102
1048	AEH-8910-460	89-813	10/18/1989	DH-12
140	AEH-9005-400	90-1030	4/27/1990	DH-1
228	AEH-9005-401	90-1031	4/27/1990	DH-2
322	AEH-9005-402	90-1032	4/27/1990	DH-3
352	AEH-9005-403	90-1054	4/29/1990	DH-4
411	AEH-9005-404	90-1033	4/28/1990	DH-5
484	AEH-9005-405	90-1055	4/29/1990	DH-6
535	AEH-9005-406	90-1034	4/27/1990	DH-7
551	AEH-9005-407	90-1035	4/28/1990	DH-8
153	AEH-9005-408	90-1056	4/29/1990	DH-10
164	AEH-9005-410	90-1036	4/27/1990	DH-11
1057	AEH-9005-411	90-1061	5/1/1990	DH-13
201	AEH-9005-414	90-1062	5/1/1990	DH-17
1069	AEH-9005-415	90-1037	4/28/1990	DH-18
214	AEH-9005-416	90-1063	5/1/1990	DH-19
240	AEH-9005-417	90-1038	4/28/1990	DH-20
1083	AEH-9005-418	90-1064	5/1/1990	DH-21
255	AEH-9005-419	90-1065	5/1/1990	DH-22
265	AEH-9005-420	90-1057	4/29/1990	DH-23
276	AEH-9005-421	90-1066	5/1/1990	DH-24
1096	AEH-9005-423	90-1058	4/29/1990	DH-27
297	AEH-9005-424	90-1067	5/1/1990	DH-28
304	AEH-9005-425	90-1068	5/1/1990	DH-29
228	AEH-9005-426	90-1039	4/27/1990	DH-2
782	AEH-9005-427	90-1040	4/28/1990	EH-57A
742	AEH-9005-428	90-1041	4/29/1990	EH-52

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715	AEH-9005-440	90-1045	4/28/1990	EH-50
727	AEH-9005-441	90-1046	4/29/1990	EH-51
742	AEH-9005-442	90-1047	4/29/1990	EH-52
756	AEH-9005-443	90-1048	4/28/1990	EH-53
770	AEH-9005-444	90-1049	4/27/1990	EH-54
782	AEH-9005-445	90-1050	4/28/1990	EH-57A
794	AEH-9005-446	90-1051	4/28/1990	EH-58
819	AEH-9005-448	90-1059	4/29/1990	EH-60
843	AEH-9005-450	90-1052	4/27/1990	EH-62
596	AEH-9005-453	90-1053	4/28/1990	EH-102
140	AEH-9011-707	90-2223	11/28/1990	DH-1
228	AEH-9011-708	90-2222	11/27/1990	DH-2
322	AEH-9011-709	90-2221	11/27/1990	DH-3
352	AEH-9011-710	90-2245	12/4/1990	DH-4
412	AEH-9011-711	90-2235	12/3/1990	DH-5
484	AEH-9011-712	90-2240	12/3/1990	DH-6
535	AEH-9011-713	90-2220	11/27/1990	DH-7
551	AEH-9011-714	90-2242	12/4/1990	DH-8
153	AEH-9011-716	90-2238	12/3/1990	DH-10
164	AEH-9011-717	90-2231	11/28/1990	DH-11
1057	AEH-9011-718	90-2257	12/6/1990	DH-13
202	AEH-9011-719	90-2244	12/4/1990	DH-17
1069	AEH-9011-720	90-2237	12/3/1990	DH-18
214	AEH-9011-721	90-2258	12/6/1990	DH-19
240	AEH-9011-722	90-2251	11/30/1990	DH-20
1083	AEH-9011-723	90-2259	12/6/1990	DH-21
255	AEH-9011-724	90-2260	12/5/1990	DH-22
265	AEH-9011-725	90-2249	12/4/1990	DH-23
276	AEH-9011-726	90-2261	12/5/1990	DH-24
1096	AEH-9011-727	90-2262	12/5/1990	DH-27
297	AEH-9011-728	90-2263	12/6/1990	DH-28
304	AEH-9011-729	90-2264	12/6/1990	DH-29
322	AEH-9011-730	90-2229	11/27/1990	DH-3
140	AEH-9011-731	90-2227	11/28/1990	DH-1
794	AEH-9011-732	90-2246	11/30/1990	EH-58
1069	AEH-9011-733	90-2239	12/3/1990	DH-18
727	AEH-9011-734	90-2241	12/4/1990	EH-51
277	AEH-9011-735	90-2265	12/5/1990	DH-24
215	AEH-9011-736	90-2266	12/6/1990	DH-19
715	AEH-9011-744	90-2225	11/28/1990	EH-50
727	AEH-9011-745	90-2243	12/4/1990	EH-51
742	AEH-9011-746	90-2234	12/3/1990	EH-52

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770	AEH-9011-748	90-2230	11/28/1990	EH-54
782	AEH-9011-749	90-2226	11/28/1990	EH-57A
794	AEH-9011-750	90-2255	11/30/1990	EH-58
819	AEH-9011-751	90-2248	12/4/1990	EH-60
833	AEH-9011-752	9012-078	12/6/1990	EH-61
843	AEH-9011-753	90-2250	11/30/1990	EH-62
596	AEH-9011-754	90-2252	11/30/1990	EH-102
806	AEH-9011-771	90-2254	11/30/1990	EH-59
715	AEH-9105-117	91-2677	5/6/1991	EH-50
728	AEH-9105-118	91-2684	5/7/1991	EH-51
742	AEH-9105-119	91-2685	5/7/1991	EH-52
757	AEH-9105-120	91-2660	5/3/1991	EH-53
771	AEH-9105-121	91-2661	5/3/1991	EH-54
806	AEH-9105-122	91-2676	5/6/1991	EH-59
783	AEH-9105-124	91-2662	5/3/1991	EH-57A
795	AEH-9105-125	91-2663	5/3/1991	EH-58
806	AEH-9105-126	91-2671	5/6/1991	EH-59
819	AEH-9105-127	91-2674	5/8/1991	EH-60
833	AEH-9105-128	9105-124-2	5/10/1991	EH-61
240	AEH-9105-129	91-2681	5/7/1991	DH-20
843	AEH-9105-132	91-2675	5/6/1991	EH-62
596	AEH-9105-133	91-2672	5/6/1991	EH-102
140	AEH-9105-134	91-2664	5/3/1991	DH-1
228	AEH-9105-135	91-2665	5/3/1991	DH-2
323	AEH-9105-136	91-2666	5/3/1991	DH-3
228	AEH-9105-137	91-2667	5/3/1991	DH-2
352	AEH-9105-139	91-2689	5/7/1991	DH-4
412	AEH-9105-140	91-2690	5/7/1991	DH-5
484	AEH-9105-141	91-2693	5/8/1991	DH-6
535	AEH-9105-142	91-2668	5/3/1991	DH-7
551	AEH-9105-143	91-2678	5/8/1991	DH-8
819	AEH-9105-144	91-2673	5/8/1991	EH-60
153	AEH-9105-147	91-2692	5/8/1991	DH-10
164	AEH-9105-148	91-2669	5/3/1991	DH-11
1057	AEH-9105-149	91-2817	5/9/1991	DH-13
202	AEH-9105-150	91-2679	5/8/1991	DH-17
1069	AEH-9105-151	91-2683	5/7/1991	DH-18
1096	AEH-9105-152	91-2818	5/9/1991	DH-27
215	AEH-9105-154	91-2688	5/8/1991	DH-19
240	AEH-9105-155	91-2682	5/7/1991	DH-20
1083	AEH-9105-156	91-2826	5/10/1991	DH-21
255	AEH-9105-157	91-2680	5/8/1991	DH-22

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1083	AEH-9105-159	91-2827	5/10/1991	DH-21
277	AEH-9105-162	91-3053	5/8/1991	DH-24
1096	AEH-9105-163	91-2815	5/9/1991	DH-27
297	AEH-9105-164	91-2816	5/9/1991	DH-28
305	AEH-9105-165	91-2828	5/10/1991	DH-29
728	AEH-9111-300	91-3861	11/18/1991	EH-51
564	AEH-9111-301	91-3862	11/18/1991	DH-9
484	AEH-9111-302	91-3869	11/19/1991	DH-6
215	AEH-9111-304	91-3878	11/20/1991	DH-19
202	AEH-9111-305	91-3879	11/20/1991	DH-17
1083	AEH-9111-308	91-3880	11/21/1991	DH-21
323	AEH-9111-309	91-3611	11/12/1991	DH-3
277	AEH-9111-310	91-3881	11/20/1991	DH-24
195	AEH-9111-312	9111-312	11/20/1991	DH-16
535	AEH-9111-315	91-3612	11/12/1991	DH-7
1070	AEH-9111-316	91-3854	11/15/1991	DH-18
783	AEH-9111-317	91-3617	11/13/1991	EH-57A
757	AEH-9111-318	91-3618	11/13/1991	EH-53
240	AEH-9111-319	91-3855	11/15/1991	DH-20
551	AEH-9111-320	91-3863	11/18/1991	DH-8
715	AEH-9111-321	91-3619	11/13/1991	EH-50
140	AEH-9111-322	91-3613	11/12/1991	DH-1
1097	AEH-9111-323	91-3874	11/19/1991	DH-27
265	AEH-9111-324	91-3875	11/19/1991	DH-23
843	AEH-9111-325	91-3620	11/13/1991	EH-62
771	AEH-9111-328	91-3621	11/13/1991	EH-54
819	AEH-9111-329	91-3882	11/20/1991	EH-60
596	AEH-9111-332	91-3856	11/15/1991	EH-102
795	AEH-9111-333	91-3857	11/15/1991	EH-58
154	AEH-9111-334	91-3864	11/18/1991	DH-10
255	AEH-9111-335	91-3876	11/19/1991	DH-22
353	AEH-9111-338	91-3870	11/19/1991	DH-4
1057	AEH-9111-339	91-3883	11/21/1991	DH-13
297	AEH-9111-340	91-3877	11/19/1991	DH-28
228	AEH-9111-341	91-3614	11/12/1991	DH-2
806	AEH-9111-344	91-3858	11/15/1991	EH-59
165	AEH-9111-345	91-3622	11/13/1991	DH-11
742	AEH-9111-346	91-3865	11/18/1991	EH-52
305	AEH-9111-348	91-3884	11/22/1991	DH-29
1049	AEH-9111-349	91-3885	11/21/1991	DH-12
412	AEH-9111-350	91-3871	11/19/1991	DH-5
757	AEH-9111-355	91-3623	11/13/1991	EH-53

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1070	AEH-9111-360	91-3860	11/15/1991	DH-18
728	AEH-9111-363	91-3868	11/18/1991	EH-51
353	AEH-9111-364	91-3872	11/19/1991	DH-4
202	AEH-9111-367	91-3887	11/20/1991	DH-17
833	AEH-9111-368	9111-241-5	11/21/1991	EH-61
1084	AEH-9111-370	91-3889	11/21/1991	DH-21
305	AEH-9111-371	91-3890	11/22/1991	DH-29
79	AEH-9111-372	91-3891	11/22/1991	APSD-4
67	AEH-9111-373	91-3892	11/22/1991	APSD-3
53	AEH-9111-374	91-3893	11/22/1991	APSD-2
1	AEH-9111-376	91-3895	11/22/1991	APSD-1
298	AEH-9204-100	92-4360	4/28/1992	DH-28
255	AEH-9204-101	92-4356	4/28/1992	DH-22
715	AEH-9204-102	92-4295	4/22/1992	EH-50
353	AEH-9204-105	92-4297	4/21/1992	DH-4
757	AEH-9204-106	92-4285	4/15/1992	EH-53
1097	AEH-9204-107	92-4359	4/28/1992	DH-27
551	AEH-9204-108	92-4368	4/27/1992	DH-8
241	AEH-9204-109	92-4299	4/22/1992	DH-20
565	AEH-9204-110	AEH-9204-110	4/27/1992	DH-9
154	AEH-9204-113	92-4364	4/27/1992	DH-10
843	AEH-9204-119	92-4298	4/23/1992	EH-62
229	AEH-9204-120	92-4290	4/14/1992	DH-2
195	AEH-9204-128	AEH-9204-128	4/29/1992	DH-16
1057	AEH-9204-129	92-4355	4/29/1992	DH-13
305	AEH-9204-130	92-4400	5/4/1992	DH-29
165	AEH-9204-132	92-4292	4/15/1992	DH-11
807	AEH-9204-134	92-4293	4/15/1992	EH-59
795	AEH-9204-137	92-4294	4/14/1992	EH-58
743	AEH-9204-139	92-4357	4/28/1992	EH-52
535	AEH-9204-142	92-4277	4/15/1992	DH-7
202	AEH-9204-148	92-4348	4/29/1992	DH-17
843	AEH-9204-149	92-4311	4/23/1992	EH-62
353	AEH-9204-150	92-4300	4/21/1992	DH-4
1049	AEH-9204-151	AEH-9204-151	4/29/1992	DH-12
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277	AEH-9204-153	92-4361	4/29/1992	DH-24
1084	AEH-9204-154	92-4395	5/4/1992	DH-21
820	AEH-9204-155	92-4350	4/29/1992	EH-60
154	AEH-9204-156	92-4366	4/27/1992	DH-10
412	AEH-9204-157	92-4363	4/27/1992	DH-5
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795	AEH-9204-160	92-4279	4/15/1992	EH-58
771	AEH-9204-161	92-4280	4/15/1992	EH-54
215	AEH-9204-163	92-4354	4/28/1992	DH-19
323	AEH-9204-165	9204-227-2	4/20/1992	DH-3
323	AEH-9204-165	92-4308	4/23/1992	DH-3
728	AEH-9204-167	92-4352	4/28/1992	EH-51
277	AEH-9204-169	92-4365	4/29/1992	DH-24
596	AEH-9204-170	92-4303	4/22/1992	EH-102
79	AEH-9204-171	92-4402	5/4/1992	APSD-4
834	AEH-9204-172	9205-008-5	4/29/1992	EH-61
1070	AEH-9204-173	92-4305	4/22/1992	DH-18
783	AEH-9204-175	92-4283	4/15/1992	EH-57A
484	AEH-9204-177	92-4367	4/27/1992	DH-6
305	AEH-9204-179	92-4396	5/4/1992	DH-29
1	AEH-9204-180	92-4401	5/4/1992	APSD-1
53	AEH-9204-184	92-4398	5/4/1992	APSD-2
67	AEH-9204-185	92-4397	5/4/1992	APSD-3
89	AHCL-9403-108	94-502008	3/28/1994	APSD-7
109	AHCL-9403-109	94-502004	3/28/1994	APSD-8
176	AHCL-9403-111	94-502003	3/28/1994	DH-14
354	AHCL-9403-114	94-502006	3/28/1994	DH-4
413	AHCL-9403-115	94-502005	3/28/1994	DH-5
89	AHCL-9403-119	94-502001	3/28/1994	APSD-7
111	AHCL-9404-150	94-591001	4/11/1994	APSD-8
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89	AHCL-9404-155	94-591006	4/11/1994	APSD-7
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241	AHCL-9404-169	94-592007	4/12/1994	DH-20
306	AHCL-9404-170	94-592008	4/12/1994	DH-29
40	AHCL-9404-171	94-592009	4/12/1994	APSD-13
48	AHCL-9404-173	94-592011	4/12/1994	APSD-14
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178	AHCL-9405-102	94-873003	5/31/1994	DH-14
355	AHCL-9405-103	94-873004	5/31/1994	DH-4
414	AHCL-9405-104	94-873005	5/31/1994	DH-5
91	AHCL-9405-110	94-873011	5/31/1994	APSD-7
89	AHCL-9405-200	94-747001	5/6/1994	APSD-7
111	AHCL-9405-201	94-747002	5/6/1994	APSD-8
177	AHCL-9405-202	94-747003	5/6/1994	DH-14
354	AHCL-9405-203	94-747004	5/6/1994	DH-4
413	AHCL-9405-204	94-747005	5/6/1994	DH-5
90	AHCL-9405-210	94-747011	5/6/1994	APSD-7
90	AHCL-9405-215	94-798001	5/17/1994	APSD-7
111	AHCL-9405-216	94-798002	5/17/1994	APSD-8
177	AHCL-9405-217	94-798003	5/17/1994	DH-14
355	AHCL-9405-218	94-798004	5/17/1994	DH-4
414	AHCL-9405-219	94-798005	5/17/1994	DH-5
90	AHCL-9405-225	94-798011	5/17/1994	APSD-7
90	AHCL-9405-229	94-816001	5/19/1994	APSD-7
111	AHCL-9405-230	94-816002	5/19/1994	APSD-8
177	AHCL-9405-231	94-816003	5/19/1994	DH-14
355	AHCL-9405-232	94-816004	5/19/1994	DH-4
414	AHCL-9405-233	94-816005	5/19/1994	DH-5
91	AHCL-9405-239	94-816011	5/19/1994	APSD-7
91	AHCL-9405-240	94-831001	5/24/1994	APSD-7
111	AHCL-9405-241	94-831002	5/24/1994	APSD-8
177	AHCL-9405-242	94-831003	5/24/1994	DH-14
355	AHCL-9405-243	94-831004	5/24/1994	DH-4
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91	AHCL-9405-255	94-851001	5/26/1994	APSD-7
112	AHCL-9405-256	94-851002	5/26/1994	APSD-8
177	AHCL-9405-257	94-851003	5/26/1994	DH-14
355	AHCL-9405-258	94-851004	5/26/1994	DH-4
414	AHCL-9405-259	94-851005	5/26/1994	DH-5
355	AHCL-9405-265	94-851011	5/26/1994	DH-4
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112	AHCL-9406-101	94-893002	6/2/1994	APSD-8
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356	AHCL-9406-103	94-893004	6/2/1994	DH-4
414	AHCL-9406-104	94-893005	6/2/1994	DH-5
92	AHCL-9406-110	94-893011	6/2/1994	APSD-7
92	AHCL-9406-200	94-917001	6/6/1994	APSD-7

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356	AHCL-9406-203	94-917004	6/6/1994	DH-4
415	AHCL-9406-204	94-917005	6/6/1994	DH-5
92	AHCL-9406-210	94-917011	6/6/1994	APSD-7
92	AHCL-9406-300	94-959001	6/13/1994	APSD-7
112	AHCL-9406-301	94-959002	6/13/1994	APSD-8
178	AHCL-9406-302	94-959003	6/13/1994	DH-14
356	AHCL-9406-303	94-959004	6/13/1994	DH-4
415	AHCL-9406-304	94-959005	6/13/1994	DH-5
92	AHCL-9406-310	94-959011	6/13/1994	APSD-7
93	AHCL-9407-100	94-1209001	7/12/1994	APSD-7
112	AHCL-9407-101	94-1209002	7/12/1994	APSD-8
178	AHCL-9407-102	94-1209003	7/12/1994	DH-14
356	AHCL-9407-103	94-1209004	7/12/1994	DH-4
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93	AHCL-9407-110	94-1209011	7/12/1994	APSD-7
22	AHCL-9407-111	94-1209012	7/14/1994	APSD-11
31	AHCL-9407-114	94-1209015	7/14/1994	APSD-12
242	AHCL-9407-115	94-1209016	7/14/1994	DH-20
80	AHCL-9407-116	94-1209017	7/14/1994	APSD-4
13	AHCL-9407-117	94-1209018	7/14/1994	APSD-10
126	AHCL-9407-118	94-1209019	7/14/1994	APSD-9
2	AHCL-9407-119	94-1209020	7/14/1994	APSD-1
56	AHCL-9407-120	94-1209021	7/14/1994	APSD-2
69	AHCL-9407-121	94-1209022	7/14/1994	APSD-3
307	AHCL-9407-122	94-1209023	7/14/1994	DH-29
40	AHCL-9407-123	94-1209024	7/14/1994	APSD-13
48	AHCL-9407-124	94-1209025	7/14/1994	APSD-14
48	AHCL-9407-125	94-1209026	7/14/1994	APSD-14
113	AHCL-9408-100	94-1418001	8/10/1994	APSD-8
93	AHCL-9408-103	94-1418004	8/10/1994	APSD-7
93	AHCL-9408-104	94-1418005	8/10/1994	APSD-7
13	AHCL-9408-300	94-1504015	8/22/1994	APSD-10
22	AHCL-9408-301	94-1504001	8/22/1994	APSD-11
31	AHCL-9408-302	94-1504007	8/22/1994	APSD-12
40	AHCL-9408-303	94-1504008	8/22/1994	APSD-13
48	AHCL-9408-304	94-1504011	8/22/1994	APSD-14
2	AHCL-9408-305	94-1504012	8/22/1994	APSD-1
56	AHCL-9408-306	94-1504004	8/22/1994	APSD-2
69	AHCL-9408-307	94-1504010	8/22/1994	APSD-3
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93	AHCL-9408-309	94-1504025	8/19/1994	APSD-7

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178	AHCL-9408-312	94-1504028	8/19/1994	DH-14
242	AHCL-9408-313	94-1504003	8/22/1994	DH-20
307	AHCL-9408-314	94-1504013	8/22/1994	DH-29
356	AHCL-9408-315	94-1504023	8/19/1994	DH-4
415	AHCL-9408-316	94-1504029	8/19/1994	DH-5
93	AHCL-9408-325	94-1504024	8/19/1994	APSD-7
307	AHCL-9408-328	94-1504014	8/22/1994	DH-29
94	AHCL-9408-409	94-1536009	8/26/1994	APSD-7
113	AHCL-9408-410	94-1536008	8/26/1994	APSD-8
94	AHCL-9408-425	94-1536006	8/26/1994	APSD-7
94	AHCL-9409-100	94-1585001	9/2/1994	APSD-7
113	AHCL-9409-101	94-1585002	9/2/1994	APSD-8
94	AHCL-9409-108	94-1585009	9/2/1994	APSD-7
94	AHCL-9409-200	94-1608001	9/8/1994	APSD-7
113	AHCL-9409-201	94-1608002	9/8/1994	APSD-8
94	AHCL-9409-208	94-1608009	9/8/1994	APSD-7
95	AHCL-9409-300	94-1683001	9/16/1994	APSD-7
113	AHCL-9409-301	94-1683002	9/16/1994	APSD-8
95	AHCL-9409-307	94-1683008	9/16/1994	APSD-7
13	AHCL-9409-400	94-1778024	9/26/1994	APSD-10
23	AHCL-9409-401	94-1778020	9/26/1994	APSD-11
31	AHCL-9409-402	94-1778021	9/26/1994	APSD-12
41	AHCL-9409-403	94-1778005	9/27/1994	APSD-13
2	AHCL-9409-405	94-1778028	9/26/1994	APSD-1
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70	AHCL-9409-407	94-1778003	9/27/1994	APSD-3
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95	AHCL-9409-409	94-1778007	9/26/1994	APSD-7
114	AHCL-9409-410	94-1778006	9/27/1994	APSD-8
128	AHCL-9409-411	94-1778023	9/26/1994	APSD-9
179	AHCL-9409-412	94-1778015	9/26/1994	DH-14
242	AHCL-9409-413	94-1778025	9/26/1994	DH-20
307	AHCL-9409-414	94-1778026	9/26/1994	DH-29
356	AHCL-9409-415	94-1778017	9/26/1994	DH-4
415	AHCL-9409-416	94-1778019	9/26/1994	DH-5
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70	AHCL-9409-428	94-1778004	9/27/1994	APSD-3
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95	AHCL-9410-109	94-1820010	10/5/1994	APSD-7
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23	AHCL-9410-301	94-1932007	10/20/1994	APSD-11
32	AHCL-9410-302	94-1932008	10/20/1994	APSD-12
41	AHCL-9410-303	94-1932023	10/21/1994	APSD-13
2	AHCL-9410-305	94-1932014	10/20/1994	APSD-1
56	AHCL-9410-306	94-1932015	10/20/1994	APSD-2
70	AHCL-9410-307	94-1932016	10/20/1994	APSD-3
80	AHCL-9410-308	94-1932012	10/20/1994	APSD-4
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415	AHCL-9410-315	94-1932006	10/20/1994	DH-5
357	AHCL-9410-323	94-1932003	10/20/1994	DH-4
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96	AHCL-9410-400	94-1979001	10/28/1994	APSD-7
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96	AHCL-9411-100	94-2018001	11/3/1994	APSD-7
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14	AHCL-9503-100	95-616001	3/29/1995	APSD-10
23	AHCL-9503-101	95-616002	3/29/1995	APSD-11
32	AHCL-9503-102	95-616003	3/29/1995	APSD-12
41	AHCL-9503-103	95-651001	4/1/1995	APSD-13
3	AHCL-9503-104	95-616004	3/29/1995	APSD-1
57	AHCL-9503-105	95-616005	3/30/1995	APSD-2
70	AHCL-9503-106	95-616006	3/30/1995	APSD-3
81	AHCL-9503-107	95-616007	3/29/1995	APSD-4
96	AHCL-9503-108	95-616008	3/29/1995	APSD-7
115	AHCL-9503-109	95-616009	3/29/1995	APSD-8
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115	AHCL-9504-117	95-826015	4/25/1995	APSD-8
179	AHCL-9504-118	95-826016	4/25/1995	DH-14
357	AHCL-9504-119	95-826017	4/25/1995	DH-4
416	AHCL-9504-122	95-826021	4/25/1995	DH-5
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416	AHCL-9504-124	95-826023	4/25/1995	DH-5
128	AHCL-9504-125	95-826024	4/25/1995	APSD-9
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32	AHCL-9504-127	95-826026	4/25/1995	APSD-12
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24	AHCL-9505-101	95-1057001	5/22/1995	APSD-11
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57	AHCL-9505-107	95-1057016	5/23/1995	APSD-2
71	AHCL-9505-108	95-1057019	5/23/1995	APSD-3
81	AHCL-9505-109	95-1057011	5/23/1995	APSD-4
97	AHCL-9505-110	95-1057005	5/22/1995	APSD-7
115	AHCL-9505-111	95-1057006	5/22/1995	APSD-8
129	AHCL-9505-112	95-1057018	5/23/1995	APSD-9
179	AHCL-9505-113	95-1057007	5/22/1995	DH-14
243	AHCL-9505-114	95-1057017	5/23/1995	DH-20
308	AHCL-9505-115	95-1057014	5/23/1995	DH-29
358	AHCL-9505-116	95-1057008	5/22/1995	DH-4
416	AHCL-9505-117	95-1057003	5/22/1995	DH-5
97	AHCL-9505-124	95-1057004	5/22/1995	APSD-7
14	AHCL-9506-100	95-1280001	6/19/1995	APSD-10
24	AHCL-9506-101	95-1280002	6/19/1995	APSD-11
33	AHCL-9506-102	95-1280003	6/19/1995	APSD-12
42	AHCL-9506-103	95-1280014	6/20/1995	APSD-13
3	AHCL-9506-104	95-1280015	6/20/1995	APSD-1
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71	AHCL-9506-106	95-1280017	6/20/1995	APSD-3
81	AHCL-9506-107	95-1280018	6/20/1995	APSD-4
97	AHCL-9506-108	95-1280019	6/20/1995	APSD-7
115	AHCL-9506-109	95-1280020	6/20/1995	APSD-8
129	AHCL-9506-110	95-1280004	6/19/1995	APSD-9
179	AHCL-9506-111	95-1280021	6/20/1995	DH-14
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417	AHCL-9506-115	95-1280025	6/20/1995	DH-5
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14	AHCL-9507-100	95-1523001	7/18/1995	APSD-10
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33	AHCL-9507-102	95-1523003	7/18/1995	APSD-12
42	AHCL-9507-103	95-1523004	7/18/1995	APSD-13
4	AHCL-9507-104	95-1523005	7/18/1995	APSD-1
58	AHCL-9507-105	95-1523006	7/18/1995	APSD-2
71	AHCL-9507-106	95-1523007	7/18/1995	APSD-3
81	AHCL-9507-107	95-1523008	7/18/1995	APSD-4
98	AHCL-9507-108	95-1523009	7/18/1995	APSD-7
116	AHCL-9507-109	95-1523010	7/18/1995	APSD-8
129	AHCL-9507-110	95-1523011	7/18/1995	APSD-9
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243	AHCL-9507-112	95-1523013	7/18/1995	DH-20
309	AHCL-9507-113	95-1523014	7/18/1995	DH-29
358	AHCL-9507-114	95-1523015	7/18/1995	DH-4
417	AHCL-9507-115	95-1523016	7/18/1995	DH-5
98	AHCL-9507-124	95-1523025	7/18/1995	APSD-7
15	AHCL-9508-100	95-1778001	8/16/1995	APSD-10
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33	AHCL-9508-102	95-1778003	8/16/1995	APSD-12
42	AHCL-9508-103	95-1778004	8/16/1995	APSD-13
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98	AHCL-9508-108	95-1778009	8/16/1995	APSD-7
116	AHCL-9508-109	95-1778010	8/16/1995	APSD-8
129	AHCL-9508-110	95-1778011	8/16/1995	APSD-9
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309	AHCL-9508-113	95-1778014	8/16/1995	DH-29
358	AHCL-9508-114	95-1778015	8/16/1995	DH-4
417	AHCL-9508-115	95-1778016	8/16/1995	DH-5
98	AHCL-9508-124	95-1778018	8/16/1995	APSD-7
15	AHCL-9509-100	95-2070003	9/15/1995	APSD-10
24	AHCL-9509-101	95-2070006	9/15/1995	APSD-11
33	AHCL-9509-102	95-2070005	9/15/1995	APSD-12
42	AHCL-9509-103	95-2070021	9/16/1995	APSD-13
4	AHCL-9509-104	95-2070008	9/15/1995	APSD-1

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82	AHCL-9509-107	95-2070023	9/16/1995	APSD-4
98	AHCL-9509-108	95-2070024	9/15/1995	APSD-7
116	AHCL-9509-109	95-2070027	9/15/1995	APSD-8
129	AHCL-9509-110	95-2070028	9/15/1995	APSD-9
180	AHCL-9509-111	95-2070025	9/15/1995	DH-14
244	AHCL-9509-112	95-2070018	9/16/1995	DH-20
309	AHCL-9509-113	95-2070019	9/16/1995	DH-29
358	AHCL-9509-114	95-2070026	9/15/1995	DH-4
417	AHCL-9509-115	95-2070022	9/16/1995	DH-5
99	AHCL-9509-124	95-2070009	9/15/1995	APSD-7
244	AHCL-9509-126	95-2070020	9/16/1995	DH-20
15	AHCL-9510-100	95-2401011	10/23/1995	APSD-10
24	AHCL-9510-101	95-2401007	10/23/1995	APSD-11
33	AHCL-9510-102	95-2401002	10/23/1995	APSD-12
42	AHCL-9510-103	95-2401010	10/23/1995	APSD-13
4	AHCL-9510-104	95-2401003	10/23/1995	APSD-1
58	AHCL-9510-105	95-2401006	10/23/1995	APSD-2
72	AHCL-9510-106	95-2401016	10/24/1995	APSD-3
82	AHCL-9510-107	95-2401014	10/23/1995	APSD-4
99	AHCL-9510-108	95-2401017	10/24/1995	APSD-7
116	AHCL-9510-109	95-2401018	10/24/1995	APSD-8
130	AHCL-9510-110	95-2401004	10/23/1995	APSD-9
180	AHCL-9510-111	95-2401009	10/23/1995	DH-14
244	AHCL-9510-112	95-2401008	10/23/1995	DH-20
309	AHCL-9510-113	95-2401012	10/23/1995	DH-29
359	AHCL-9510-114	95-2401005	10/23/1995	DH-4
417	AHCL-9510-115	95-2401019	10/24/1995	DH-5
99	AHCL-9510-126	95-2401028	10/24/1995	APSD-7
244	AHCL-9510-127	95-2401013	10/23/1995	DH-20
15	AHCL-9511-100	95-2532023	11/8/1995	APSD-10
25	AHCL-9511-101	95-2532024	11/8/1995	APSD-11
33	AHCL-9511-102	95-2532001	11/8/1995	APSD-12
43	AHCL-9511-103	95-2532002	11/8/1995	APSD-13
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72	AHCL-9511-106	95-2532005	11/8/1995	APSD-3
82	AHCL-9511-107	95-2532006	11/8/1995	APSD-4
99	AHCL-9511-109	95-2532007	11/8/1995	APSD-7
116	AHCL-9511-110	95-2532008	11/8/1995	APSD-8
130	AHCL-9511-111	95-2532009	11/8/1995	APSD-9
180	AHCL-9511-112	95-2532010	11/8/1995	DH-14

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359	AHCL-9511-115	95-2532013	11/8/1995	DH-4
417	AHCL-9511-116	95-2532014	11/8/1995	DH-5
101	AHCL-9511-127	95-2532025	11/8/1995	APSD-7
17	EHC-0005-101	L000705002	5/9/2000	APSD-10
27	EHC-0005-102	L000705003	5/9/2000	APSD-11
35	EHC-0005-103	L000705004	5/9/2000	APSD-12
45	EHC-0005-104	L000705005	5/8/2000	APSD-13
6	EHC-0005-105	L000705006	5/8/2000	APSD-1
60	EHC-0005-106	L000705007	5/9/2000	APSD-2
74	EHC-0005-107	L000705008	5/8/2000	APSD-3
84	EHC-0005-108	L000705009	5/8/2000	APSD-4
106	EHC-0005-109	L000705010	5/9/2000	APSD-7
122	EHC-0005-110	L000705011	5/9/2000	APSD-8
132	EHC-0005-111	L000705012	5/9/2000	APSD-9
156	EHC-0005-112	L000705013	5/8/2000	DH-10A
168	EHC-0005-113	L000705014	5/8/2000	DH-11
1060	EHC-0005-115	L000703001	5/3/2000	DH-13
184	EHC-0005-116	L000705015	5/9/2000	DH-14
206	EHC-0005-117	L000703002	5/3/2000	DH-17
1074	EHC-0005-119	L000703003	5/2/2000	DH-18
218	EHC-0005-120	L000705016	5/8/2000	DH-19
144	EHC-0005-121	L000703004	5/1/2000	DH-1
247	EHC-0005-122	L000705017	5/8/2000	DH-20
1087	EHC-0005-123	L000703005	5/3/2000	DH-21
259	EHC-0005-124	L000703006	5/3/2000	DH-22
268	EHC-0005-125	L000705018	5/8/2000	DH-23
281	EHC-0005-126	L000703007	5/1/2000	DH-24
1100	EHC-0005-127	L000705019	5/8/2000	DH-27
301	EHC-0005-128	L000703008	5/3/2000	DH-28
311	EHC-0005-129	L000705020	5/8/2000	DH-29
232	EHC-0005-130	L000703009	5/1/2000	DH-2
327	EHC-0005-131	L000703010	5/2/2000	DH-3
366	EHC-0005-132	L000705021	5/9/2000	DH-4
419	EHC-0005-133	L000705022	5/9/2000	DH-5
488	EHC-0005-134	L000705023	5/8/2000	DH-6
538	EHC-0005-135	L000703011	5/1/2000	DH-7
555	EHC-0005-136	L000703012	5/2/2000	DH-8
599	EHC-0005-140	L000705026	5/8/2000	EH-102
718	EHC-0005-141	L000703013	5/1/2000	EH-50
731	EHC-0005-142	L000705027	5/8/2000	EH-51
745	EHC-0005-143	L000705028	5/8/2000	EH-52

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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760	EHC-0005-144	L000704001	5/2/2000	EH-53
774	EHC-0005-145	L000705029	5/8/2000	EH-54
786	EHC-0005-146	L000704002	5/2/2000	EH-57A
798	EHC-0005-147	L000705030	5/8/2000	EH-58
809	EHC-0005-148	L000705031	5/8/2000	EH-59
824	EHC-0005-149	L000704003	5/3/2000	EH-60
836	EHC-0005-150	00-53528-6	5/3/2000	EH-61
847	EHC-0005-151	L000704004	5/2/2000	EH-62
281	EHC-0005-162	L000704005	5/1/2000	DH-24
327	EHC-0005-164	L000704007	5/2/2000	DH-3
259	EHC-0005-166	L000704009	5/3/2000	DH-22
268	EHC-0005-169	L000705034	5/8/2000	DH-23
420	EHC-0005-171	L000705036	5/9/2000	DH-5
17	EHC-0011-101	L001897001	11/10/2000	APSD-10
27	EHC-0011-102	L001897002	11/10/2000	APSD-11
36	EHC-0011-103	L001897003	11/10/2000	APSD-12
45	EHC-0011-104	L001897004	11/13/2000	APSD-13
7	EHC-0011-105	L001897005	11/10/2000	APSD-1
60	EHC-0011-106	L001897006	11/10/2000	APSD-2
74	EHC-0011-107	L001897007	11/10/2000	APSD-3
84	EHC-0011-108	L001897008	11/10/2000	APSD-4
106	EHC-0011-109	L001897009	11/10/2000	APSD-7
122	EHC-0011-110	L001897010	11/10/2000	APSD-8
132	EHC-0011-111	L001897011	11/10/2000	APSD-9
156	EHC-0011-112	L001897012	11/13/2000	DH-10A
168	EHC-0011-113	L001897013	11/10/2000	DH-11
1060	EHC-0011-115	L001873017	11/8/2000	DH-13
185	EHC-0011-116	L001897014	11/10/2000	DH-14
206	EHC-0011-118	L001873018	11/7/2000	DH-17
1074	EHC-0011-120	L001873019	11/7/2000	DH-18
218	EHC-0011-121	L001897015	11/13/2000	DH-19
144	EHC-0011-122	L001873020	11/6/2000	DH-1
232	EHC-0011-123	L001873021	11/6/2000	DH-2
1087	EHC-0011-124	L001873022	11/8/2000	DH-21
259	EHC-0011-125	L001873023	11/8/2000	DH-22
269	EHC-0011-126	L001897016	11/13/2000	DH-23
284	EHC-0011-127	L001873001	11/8/2000	DH-24
1100	EHC-0011-128	L001897017	11/13/2000	DH-27
301	EHC-0011-129	L001873002	11/8/2000	DH-28
312	EHC-0011-130	L001897018	11/13/2000	DH-29
247	EHC-0011-131	L001897019	11/10/2000	DH-20
327	EHC-0011-132	L001873003	11/7/2000	DH-3
366	EHC-0011-133	L001897020	11/10/2000	DH-4

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420	EHC-0011-134	L001897021	11/10/2000	DH-5
488	EHC-0011-135	L001897022	11/13/2000	DH-6
538	EHC-0011-136	L001873004	11/6/2000	DH-7
555	EHC-0011-137	L001873005	11/7/2000	DH-8
567	EHC-0011-138	L001897024	11/13/2000	DH-9
599	EHC-0011-141	L001897023	11/9/2000	EH-102
719	EHC-0011-142	L001873006	11/6/2000	EH-50
731	EHC-0011-143	L001897025	11/9/2000	EH-51
746	EHC-0011-144	L001897026	11/9/2000	EH-52
760	EHC-0011-145	L001873007	11/6/2000	EH-53
774	EHC-0011-146	L001897027	11/9/2000	EH-54
786	EHC-0011-147	L001873008	11/6/2000	EH-57A
798	EHC-0011-148	L001897028	11/9/2000	EH-58
810	EHC-0011-149	L001897029	11/9/2000	EH-59
825	EHC-0011-150	L001873009	11/8/2000	EH-60
836	EHC-0011-151	00-90952-6	11/8/2000	EH-61
847	EHC-0011-152	L001873010	11/7/2000	EH-62
538	EHC-0011-168	L001873011	11/6/2000	DH-7
327	EHC-0011-170	L001873013	11/7/2000	DH-3
826	EHC-0011-172	L001873015	11/8/2000	EH-60
600	EHC-0011-175	L001897030	11/9/2000	EH-102
36	EHC-0011-177	L001897032	11/10/2000	APSD-12
218	EHC-0011-179	L001897034	11/13/2000	DH-19
17	EHC-0105-101	L010655021	5/8/2001	APSD-10
27	EHC-0105-102	L010655022	5/8/2001	APSD-11
36	EHC-0105-103	L010655023	5/8/2001	APSD-12
45	EHC-0105-104	L010655024	5/8/2001	APSD-13
7	EHC-0105-105	L010655025	5/8/2001	APSD-1
61	EHC-0105-106	L010655026	5/8/2001	APSD-2
74	EHC-0105-107	L010655058	5/7/2001	APSD-3
84	EHC-0105-108	L010655054	5/7/2001	APSD-4
106	EHC-0105-109	L010655027	5/8/2001	APSD-7
122	EHC-0105-110	L010655010	5/8/2001	APSD-8
132	EHC-0105-111	L010655012	5/8/2001	APSD-9
156	EHC-0105-113	L010655057	5/7/2001	DH-10A
169	EHC-0105-114	L010655034	5/7/2001	DH-11
1061	EHC-0105-116	L010691017	5/11/2001	DH-13
185	EHC-0105-117	L010655032	5/7/2001	DH-14
197	EHC-0105-118	L010691018	5/10/2001	DH-16
1074	EHC-0105-120	L010691019	5/10/2001	DH-18
219	EHC-0105-121	L010655013	5/8/2001	DH-19R
145	EHC-0105-122	L010655015	5/8/2001	DH-1
247	EHC-0105-123	L010655011	5/8/2001	DH-20

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1087	EHC-0105-124	L010691020	5/11/2001	DH-21
259	EHC-0105-125	L010691021	5/10/2001	DH-22
269	EHC-0105-126	L010655009	5/8/2001	DH-23
284	EHC-0105-127	L010691022	5/10/2001	DH-24
1100	EHC-0105-129	L010691023	5/11/2001	DH-27
301	EHC-0105-130	L010691024	5/11/2001	DH-28
312	EHC-0105-131	L010655053	5/7/2001	DH-29
233	EHC-0105-132	L010691025	5/9/2001	DH-2
1107	EHC-0105-133	L010608012	5/2/2001	DH-30
1113	EHC-0105-134	L010608014	5/2/2001	DH-31
1122	EHC-0105-136	L010608015	5/2/2001	DH-33
1128	EHC-0105-137	L010608016	5/2/2001	DH-34
1136	EHC-0105-138	L010608013	5/2/2001	DH-35
335	EHC-0105-139	L010608025	5/2/2001	DH-36
341	EHC-0105-140	L010608026	5/2/2001	DH-37
1142	EHC-0105-141	L010608027	5/2/2001	DH-38
346	EHC-0105-142	L010655031	5/4/2001	DH-39
327	EHC-0105-143	L010691026	5/9/2001	DH-3
372	EHC-0105-144	L010655055	5/4/2001	DH-40
375	EHC-0105-145	L010608028	5/2/2001	DH-41
378	EHC-0105-146	L010655029	5/4/2001	DH-42
382	EHC-0105-147	L010608029	5/2/2001	DH-43
385	EHC-0105-148	L010655028	5/4/2001	DH-44
388	EHC-0105-149	L010608030	5/1/2001	DH-45
391	EHC-0105-150	L010608031	5/1/2001	DH-46
396	EHC-0105-151	L010608032	5/1/2001	DH-47
404	EHC-0105-153	L010608033	5/1/2001	DH-49
366	EHC-0105-154	L010655003	5/7/2001	DH-4
428	EHC-0105-155	L010608017	5/1/2001	DH-50
435	EHC-0105-156	L010608018	5/1/2001	DH-51
440	EHC-0105-157	L010608019	5/1/2001	DH-52
447	EHC-0105-158	L010608020	5/1/2001	DH-53
453	EHC-0105-159	L010608021	5/1/2001	DH-54
420	EHC-0105-160	L010655018	5/7/2001	DH-5
488	EHC-0105-161	L010655019	5/7/2001	DH-6
539	EHC-0105-162	L010691027	5/9/2001	DH-7
555	EHC-0105-163	L010691028	5/10/2001	DH-8
567	EHC-0105-164	L010655014	5/8/2001	DH-9
600	EHC-0105-167	L010655035	5/4/2001	EH-102
719	EHC-0105-168	L010691008	5/9/2001	EH-50
732	EHC-0105-169	L010655001	5/7/2001	EH-51
746	EHC-0105-170	L010655005	5/4/2001	EH-52
774	EHC-0105-172	L010655004	5/4/2001	EH-54

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786	EHC-0105-173	L010691009	5/9/2001	EH-57A
798	EHC-0105-174	L010655006	5/7/2001	EH-58
810	EHC-0105-175	L010655056	5/4/2001	EH-59
826	EHC-0105-176	L010691010	5/10/2001	EH-60
837	EHC-0105-177	60190487	5/10/2001	EH-61
847	EHC-0105-178	L010691011	5/9/2001	EH-62
881	EHC-0105-181	L010699001	5/14/2001	MW-1
893	EHC-0105-182	L010699004	5/14/2001	MW-2
899	EHC-0105-183	L010699016	5/14/2001	MW-3
907	EHC-0105-184	L010699005	5/14/2001	MW-4
913	EHC-0105-185	L010699011	5/14/2001	MW-5
919	EHC-0105-186	L010699002	5/14/2001	MW-6
926	EHC-0105-187	L010699008	5/14/2001	MW-7
945	EHC-0105-195	L010699010	5/14/2001	SPARGE 3
955	EHC-0105-196	L010699006	5/14/2001	STW-1
964	EHC-0105-197	L010699003	5/14/2001	STW-2
976	EHC-0105-198	L010699013	5/14/2001	STW-3
988	EHC-0105-199	L010699012	5/14/2001	STW-4
999	EHC-0105-200	L010699009	5/14/2001	STW-5
1008	EHC-0105-201	L010699014	5/14/2001	STW-6
335	EHC-0105-204	L010608022	5/2/2001	DH-36
341	EHC-0105-206	L010608024	5/2/2001	DH-37
378	EHC-0105-214	L010655036	5/4/2001	DH-42
169	EHC-0105-216	L010655033	5/7/2001	DH-11
247	EHC-0105-219	L010655020	5/8/2001	DH-20
327	EHC-0105-222	L010691013	5/9/2001	DH-3
555	EHC-0105-226	L010691002	5/10/2001	DH-8
964	EHC-0105-232	L010699015	5/14/2001	STW-2
219	EHC-0105-234	L010699018	5/15/2001	DH-19R
456	EHC-0107-100	L011005001	7/10/2001	DH-55
460	EHC-0107-101	L011005002	7/10/2001	DH-56
463	EHC-0107-102	L011005003	7/11/2001	DH-57
468	EHC-0107-103	L011005004	7/11/2001	DH-58
473	EHC-0107-104	L011005005	7/11/2001	DH-59
492	EHC-0107-105	L011005006	7/11/2001	DH-60
497	EHC-0107-107	L011005007	7/11/2001	DH-62
502	EHC-0107-108	L011005008	7/10/2001	DH-63
506	EHC-0107-109	L011005009	7/11/2001	DH-64
514	EHC-0107-110	L011005010	7/10/2001	DH-65
853	EHC-0107-111	L011005011	7/10/2001	EH-63
860	EHC-0107-112	L011005012	7/10/2001	EH-64
865	EHC-0107-113	L011005013	7/10/2001	EH-65
458	EHC-0107-114	L011005014	7/10/2001	DH-55

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1013	EHC-0108-100	L011184001	8/10/2001	STW-7
1024	EHC-0108-101	L011184002	8/10/2001	STW-8
1038	EHC-0108-102	L011184003	8/10/2001	STW-9
506	EHC-0108-200	L011254001	8/27/2001	DH-64
18	EHC-0111-100	L011563001	11/14/2001	APSD-10
27	EHC-0111-101	L011563002	11/14/2001	APSD-11
36	EHC-0111-102	L011563003	11/14/2001	APSD-12
45	EHC-0111-103	L011563004	11/14/2001	APSD-13
7	EHC-0111-104	L011563005	11/14/2001	APSD-1
61	EHC-0111-105	L011563006	11/14/2001	APSD-2
74	EHC-0111-106	L011563007	11/14/2001	APSD-3
85	EHC-0111-107	L011563008	11/14/2001	APSD-4
106	EHC-0111-108	L011563009	11/14/2001	APSD-7
122	EHC-0111-109	L011563010	11/14/2001	APSD-8
132	EHC-0111-110	L011563011	11/14/2001	APSD-9
157	EHC-0111-111	L011563012	11/13/2001	DH-10A
169	EHC-0111-112	L011563013	11/13/2001	DH-11
1052	EHC-0111-113	EHC-0111-113	11/9/2001	DH-12
1061	EHC-0111-114	L011563014	11/9/2001	DH-13
185	EHC-0111-115	L011563015	11/14/2001	DH-14
197	EHC-0111-118	L011563016	11/9/2001	DH-16
1074	EHC-0111-119	L011573001	11/15/2001	DH-18
219	EHC-0111-120	L011573002	11/15/2001	DH-19R
145	EHC-0111-121	L011535001	11/6/2001	DH-1
247	EHC-0111-122	L011563017	11/14/2001	DH-20
1087	EHC-0111-123	L011564002	11/9/2001	DH-21
259	EHC-0111-124	L011564001	11/11/2001	DH-22
269	EHC-0111-125	L011573003	11/15/2001	DH-23
286	EHC-0111-126	L011563018	11/9/2001	DH-24
1100	EHC-0111-127	L011564003	11/11/2001	DH-27
301	EHC-0111-128	L011573004	11/15/2001	DH-28
312	EHC-0111-129	L011564004	11/14/2001	DH-29
233	EHC-0111-130	L011573005	11/15/2001	DH-2
1107	EHC-0111-131	L011535002	11/8/2001	DH-30
1113	EHC-0111-132	L011564005	11/11/2001	DH-31
1122	EHC-0111-134	L011535003	11/8/2001	DH-33
1128	EHC-0111-135	L011564006	11/9/2001	DH-34
1136	EHC-0111-136	L011535004	11/8/2001	DH-35
335	EHC-0111-137	L011564007	11/9/2001	DH-36
341	EHC-0111-138	L011535005	11/8/2001	DH-37
1142	EHC-0111-139	L011564008	11/11/2001	DH-38
346	EHC-0111-140	L011535006	11/7/2001	DH-39

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372	EHC-0111-142	L011535008	11/7/2001	DH-40
375	EHC-0111-143	L011535009	11/8/2001	DH-41
378	EHC-0111-144	L011535010	11/8/2001	DH-42
382	EHC-0111-145	L011535011	11/8/2001	DH-43
385	EHC-0111-146	L011535012	11/7/2001	DH-44
388	EHC-0111-147	L011535013	11/7/2001	DH-45
392	EHC-0111-148	L011535014	11/7/2001	DH-46
396	EHC-0111-149	L011535015	11/7/2001	DH-47
400	EHC-0111-150	L011535016	11/6/2001	DH-48
404	EHC-0111-151	L011535017	11/8/2001	DH-49
366	EHC-0111-152	L011564009	11/14/2001	DH-4
429	EHC-0111-153	L011535018	11/8/2001	DH-50
436	EHC-0111-154	L011539001	11/8/2001	DH-51
440	EHC-0111-155	L011539002	11/6/2001	DH-52
449	EHC-0111-156	L011539003	11/6/2001	DH-53
453	EHC-0111-157	L011539004	11/6/2001	DH-54
420	EHC-0111-158	L011564010	11/14/2001	DH-5
488	EHC-0111-159	L011564011	11/13/2001	DH-6
539	EHC-0111-160	L011564012	11/13/2001	DH-7
555	EHC-0111-161	L011539005	11/8/2001	DH-8
573	EHC-0111-163	L011539006	11/6/2001	EH-100
585	EHC-0111-164	L011564013	11/13/2001	EH-101
600	EHC-0111-165	L011564014	11/13/2001	EH-102
719	EHC-0111-166	L011539007	11/6/2001	EH-50
732	EHC-0111-167	L011564015	11/13/2001	EH-51
746	EHC-0111-168	L011564016	11/13/2001	EH-52
760	EHC-0111-169	L011539008	11/6/2001	EH-53
774	EHC-0111-170	L011564017	11/13/2001	EH-54
786	EHC-0111-171	L011564018	11/13/2001	EH-57A
798	EHC-0111-172	L011565001	11/13/2001	EH-58
810	EHC-0111-173	L011565002	11/13/2001	EH-59
826	EHC-0111-174	L011565003	11/9/2001	EH-60
837	EHC-0111-175	L011565004	11/9/2001	EH-61
847	EHC-0111-176	L011539009	11/6/2001	EH-62
881	EHC-0111-178	L011539010	11/7/2001	MW-1
893	EHC-0111-179	L011538001	11/7/2001	MW-2
899	EHC-0111-180	L011538002	11/7/2001	MW-3
907	EHC-0111-181	L011538003	11/7/2001	MW-4
913	EHC-0111-182	L011573006	11/15/2001	MW-5
919	EHC-0111-183	L011538004	11/7/2001	MW-6
926	EHC-0111-184	L011538005	11/7/2001	MW-7
848	EHC-0111-192	L011538006	11/6/2001	EH-62

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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388	EHC-0111-195	L011538009	11/7/2001	DH-45
375	EHC-0111-198	L011538012	11/8/2001	DH-41
197	EHC-0111-204	L011565007	11/9/2001	DH-16
259	EHC-0111-206	L011565009	11/11/2001	DH-22
585	EHC-0111-208	L011565011	11/13/2001	EH-101
366	EHC-0111-210	L011565013	11/14/2001	DH-4
1074	EHC-0111-213	L011573007	11/15/2001	DH-18
865	EHC-0111-220	L011627001	12/6/2001	EH-65
860	EHC-0111-221	L011627002	12/6/2001	EH-64
853	EHC-0111-222	L011627003	12/6/2001	EH-63
573	EHC-0111-223	L011627004	12/6/2001	EH-100
573	EHC-0111-224	L011627005	12/6/2001	EH-100
502	EHC-0111-225	L011627006	12/6/2001	DH-63
506	EHC-0111-227	L011627008	12/6/2001	DH-64
468	EHC-0111-228	L011627009	12/6/2001	DH-58
190	EHC-0111-230	L011627011	12/7/2001	DH-15
460	EHC-0111-231	L011627012	12/7/2001	DH-56
514	EHC-0111-232	L011627013	12/7/2001	DH-65
458	EHC-0111-233	L011627014	12/7/2001	DH-55
458	EHC-0111-234	L011627015	12/7/2001	DH-55
497	EHC-0111-236	L011627016	12/7/2001	DH-62
494	EHC-0111-239	L011627018	12/7/2001	DH-60
473	EHC-0111-240	L011627019	12/7/2001	DH-59
573	EHC-0202-100	L020096011	2/13/2002	EH-100
573	EHC-0202-200B	L020126001	2/26/2002	EH-100
573	EHC-0202-200T	L020126002	2/26/2002	EH-100
18	EHC-0205-102	L020412017	5/31/2002	APSD-10
27	EHC-0205-103	L020412014	5/31/2002	APSD-11
36	EHC-0205-104	L020412015	5/31/2002	APSD-12
45	EHC-0205-105	L020412020	5/31/2002	APSD-13
7	EHC-0205-106	L020412019	5/31/2002	APSD-1
61	EHC-0205-107	L020412018	5/31/2002	APSD-2
74	EHC-0205-108	L020396001	5/24/2002	APSD-3
85	EHC-0205-109	L020396002	5/24/2002	APSD-4
106	EHC-0205-110	L020412012	5/31/2002	APSD-7
122	EHC-0205-111	L020412013	5/31/2002	APSD-8
132	EHC-0205-112	L020412016	5/31/2002	APSD-9
157	EHC-0205-116	L020396004	5/29/2002	DH-10A
169	EHC-0205-117	L020412009	5/31/2002	DH-11
1052	EHC-0205-118	EHC0205118	5/31/2002	DH-12
1061	EHC-0205-119	L020412033	6/1/2002	DH-13
185	EHC-0205-120	L020412010	5/31/2002	DH-14
190	EHC-0205-121	L020396005	5/30/2002	DH-15

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198	EHC-0205-122	EHC0205122	5/31/2002	DH-16
206	EHC-0205-123	L020396006	5/30/2002	DH-17
1074	EHC-0205-124	L020396007	5/29/2002	DH-18
219	EHC-0205-125	L020396008	5/30/2002	DH-19R
145	EHC-0205-126	L020396009	5/29/2002	DH-1
248	EHC-0205-127	L020396003	5/24/2002	DH-20
1089	EHC-0205-128	L020396010	5/30/2002	DH-21
261	EHC-0205-129	L020396011	5/30/2002	DH-22
269	EHC-0205-130	L020396012	5/30/2002	DH-23
288	EHC-0205-131	L020412029	6/1/2002	DH-24
1100	EHC-0205-132	L020412023	6/1/2002	DH-27
301	EHC-0205-133	L020397007	5/30/2002	DH-28
312	EHC-0205-134	L020412032	6/1/2002	DH-29
233	EHC-0205-135	L020412001	5/31/2002	DH-2
1107	EHC-0205-136	L020397008	5/30/2002	DH-30
1113	EHC-0205-137	L020412027	6/1/2002	DH-31
1119	EHC-0205-138	EHC0208138	5/30/2002	DH-32
1122	EHC-0205-139	EHC0205139	5/30/2002	DH-33
1128	EHC-0205-140	L020412026	6/1/2002	DH-34
1136	EHC-0205-141	L020397009	5/30/2002	DH-35
335	EHC-0205-142	L020412028	6/1/2002	DH-36
341	EHC-0205-143	L020397010	5/30/2002	DH-37
1142	EHC-0205-144	L020412025	6/1/2002	DH-38
346	EHC-0205-145	L020397011	5/29/2002	DH-39
328	EHC-0205-146	L020397012	5/29/2002	DH-3
372	EHC-0205-147	L020397013	5/29/2002	DH-40
375	EHC-0205-148	L020397014	5/29/2002	DH-41
378	EHC-0205-149	L020397015	5/29/2002	DH-42
383	EHC-0205-150	L020398001	5/30/2002	DH-43
385	EHC-0205-151	L020397016	5/29/2002	DH-44
389	EHC-0205-152	L020412006	5/31/2002	DH-45
392	EHC-0205-153	L020412007	5/31/2002	DH-46
396	EHC-0205-154	L020412008	5/31/2002	DH-47
400	EHC-0205-155	EHC0205155	5/31/2002	DH-48
404	EHC-0205-156	EHC0205156	5/30/2002	DH-49
366	EHC-0205-157	L020412011	5/31/2002	DH-4
431	EHC-0205-158	L020398002	5/30/2002	DH-50
436	EHC-0205-159	L020398003	5/30/2002	DH-51
440	EHC-0205-160	L020397001	5/29/2002	DH-52
449	EHC-0205-161	L020397002	5/29/2002	DH-53
453	EHC-0205-162	L020398004	5/30/2002	DH-54
458	EHC-0205-163	L020412002	5/31/2002	DH-55
460	EHC-0205-164	L020412005	5/31/2002	DH-56

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464	EHC-0205-165	EHC0205165	5/30/2002	DH-57
468	EHC-0205-166	L020412034	6/1/2002	DH-58
473	EHC-0205-167	L020398005	5/30/2002	DH-59
420	EHC-0205-168	L020412021	5/31/2002	DH-5
494	EHC-0205-169	L020398006	5/30/2002	DH-60
496	EHC-0205-170	EHC0205170	5/30/2002	DH-61
498	EHC-0205-171	L020398007	5/30/2002	DH-62
502	EHC-0205-172	L020398008	5/30/2002	DH-63
506	EHC-0205-173	L020398009	5/30/2002	DH-64
514	EHC-0205-174	L020412003	5/31/2002	DH-65
488	EHC-0205-175	L020398010	5/30/2002	DH-6
539	EHC-0205-176	L020397003	5/29/2002	DH-7
555	EHC-0205-177	L020397004	5/29/2002	DH-8
568	EHC-0205-178	EHC0205178	5/31/2002	DH-9
575	EHC-0205-181	L020396016	6/1/2002	EH-100
585	EHC-0205-182	L020419002	6/5/2002	EH-101
600	EHC-0205-183	L020396014	6/1/2002	EH-102
719	EHC-0205-184	L020396017	6/1/2002	EH-50
732	EHC-0205-185	L020419001	6/5/2002	EH-51
746	EHC-0205-186	L020396015	6/1/2002	EH-52
761	EHC-0205-187	L020370002	5/17/2002	EH-53
774	EHC-0205-188	L020412035	6/1/2002	EH-54
786	EHC-0205-189	L020370001	5/17/2002	EH-57A
799	EHC-0205-190	L020412036	6/1/2002	EH-58
810	EHC-0205-191	L020396013	6/1/2002	EH-59
826	EHC-0205-192	L020412030	6/1/2002	EH-60
837	EHC-0205-193	L020412031	6/1/2002	EH-61
848	EHC-0205-194	L020370003	5/17/2002	EH-62
855	EHC-0205-195	L020370005	5/17/2002	EH-63
860	EHC-0205-196	L020370006	5/17/2002	EH-64
867	EHC-0205-197	L020370007	5/17/2002	EH-65
881	EHC-0205-207	L020370010	5/20/2002	MW-1
893	EHC-0205-208	L020370011	5/20/2002	MW-2
899	EHC-0205-209	L020370008	5/20/2002	MW-3
907	EHC-0205-210	L020370009	5/20/2002	MW-4
913	EHC-0205-211	L020370014	5/20/2002	MW-5
919	EHC-0205-212	L020370013	5/20/2002	MW-6
926	EHC-0205-213	EHC0205213	5/20/2002	MW-7
848	EHC-0205-228B	L020370004	5/17/2002	EH-62
893	EHC-0205-228C	L020370012	5/20/2002	MW-2
328	EHC-0205-229	L020397005	5/29/2002	DH-3
454	EHC-0205-231	L020398011	5/30/2002	DH-54
514	EHC-0205-233	L020412004	5/31/2002	DH-65

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1101	EHC-0205-235	L020412024	6/1/2002	DH-27
506	EHC-0211-100	L020925001	11/4/2002	DH-64
637	EHC-0211-101	L020925002	11/5/2002	EH-109
36	EHC-0211-102	L020948005	11/13/2002	APSD-12
45	EHC-0211-103	L020948012	11/13/2002	APSD-13
7	EHC-0211-105	L020948011	11/13/2002	APSD-1
61	EHC-0211-107	L020948010	11/13/2002	APSD-2
75	EHC-0211-108	L020948009	11/13/2002	APSD-3
85	EHC-0211-109	L020948008	11/13/2002	APSD-4
107	EHC-0211-110	L020948001	11/13/2002	APSD-7
122	EHC-0211-111	L020948002	11/13/2002	APSD-8
133	EHC-0211-112	L020948007	11/13/2002	APSD-9
157	EHC-0211-113	L020951002	11/16/2002	DH-10A
169	EHC-0211-114	L020949004	11/14/2002	DH-11
1061	EHC-0211-116	L020956004	11/16/2002	DH-13
185	EHC-0211-117	L020949002	11/14/2002	DH-14
190	EHC-0211-118	L020951003	11/16/2002	DH-15
206	EHC-0211-120	L020956005	11/16/2002	DH-17
1075	EHC-0211-121	L020956002	11/16/2002	DH-18
219	EHC-0211-122	L020951013	11/16/2002	DH-19R
145	EHC-0211-123	L020949008	11/14/2002	DH-1
248	EHC-0211-124	L020948016	11/13/2002	DH-20
1089	EHC-0211-125	L020950017	11/15/2002	DH-21
261	EHC-0211-126	L020949016	11/14/2002	DH-22
269	EHC-0211-127	L020950020	11/15/2002	DH-23
289	EHC-0211-128	L020959007	11/18/2002	DH-24
1101	EHC-0211-130	L020959002	11/18/2002	DH-27
301	EHC-0211-131	L020950016	11/15/2002	DH-28
312	EHC-0211-132	L020948018	11/13/2002	DH-29
233	EHC-0211-133	L020950008	11/15/2002	DH-2
1108	EHC-0211-134	L020950012	11/15/2002	DH-30
1114	EHC-0211-135	L020959005	11/18/2002	DH-31
1122	EHC-0211-137	L020950014	11/15/2002	DH-33
1128	EHC-0211-138	L020959004	11/18/2002	DH-34
1136	EHC-0211-139	L020950018	11/15/2002	DH-35
335	EHC-0211-140	L020959006	11/18/2002	DH-36
341	EHC-0211-141	L020950015	11/15/2002	DH-37
1142	EHC-0211-142	L020959003	11/18/2002	DH-38
346	EHC-0211-143	L020949010	11/14/2002	DH-39
328	EHC-0211-144	L020949007	11/14/2002	DH-3
372	EHC-0211-145	L020949011	11/14/2002	DH-40
375	EHC-0211-146	L020949018	11/14/2002	DH-41
378	EHC-0211-147	L020949017	11/14/2002	DH-42

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386	EHC-0211-149	L020949009	11/14/2002	DH-44
389	EHC-0211-150	L020948013	11/13/2002	DH-45
392	EHC-0211-151	L020948014	11/13/2002	DH-46
396	EHC-0211-152	L020948015	11/13/2002	DH-47
404	EHC-0211-154	L020943011	11/13/2002	DH-49
368	EHC-0211-155	L020949001	11/14/2002	DH-4
431	EHC-0211-156	L020943008	11/13/2002	DH-50
436	EHC-0211-157	L020943012	11/13/2002	DH-51
442	EHC-0211-158	L020956007	11/16/2002	DH-52
449	EHC-0211-159	L020956006	11/16/2002	DH-53
454	EHC-0211-160	L020951007	11/16/2002	DH-54
458	EHC-0211-161	L020950009	11/15/2002	DH-55
462	EHC-0211-162	L020950011	11/15/2002	DH-56
464	EHC-0211-163	L020951015	11/16/2002	DH-57
468	EHC-0211-164	L020956001	11/16/2002	DH-58
473	EHC-0211-165	L020951014	11/16/2002	DH-59
420	EHC-0211-166	L020949006	11/14/2002	DH-5
494	EHC-0211-167	L020949012	11/14/2002	DH-60
498	EHC-0211-169	L020949013	11/14/2002	DH-62
855	EHC-0211-170	L020959001	11/18/2002	EH-63
18	EHC-0211-171	L020948006	11/13/2002	APSD-10
516	EHC-0211-172	L020950010	11/15/2002	DH-65
488	EHC-0211-173	L020951004	11/16/2002	DH-6
539	EHC-0211-174	L020949005	11/14/2002	DH-7
556	EHC-0211-175	L020949014	11/14/2002	DH-8
576	EHC-0211-177	L020940003	11/12/2002	EH-100
585	EHC-0211-178	L020957001	11/17/2002	EH-101
600	EHC-0211-179	L020956013	11/17/2002	EH-102
720	EHC-0211-180	L020951010	11/16/2002	EH-50
732	EHC-0211-181	L020957002	11/17/2002	EH-51
746	EHC-0211-182	L020956015	11/17/2002	EH-52
761	EHC-0211-183	L020957007	11/17/2002	EH-53
774	EHC-0211-184	L020957009	11/17/2002	EH-54
786	EHC-0211-185	L020957004	11/17/2002	EH-57A
799	EHC-0211-187	L020956011	11/17/2002	EH-58
810	EHC-0211-188	L020956012	11/17/2002	EH-59
827	EHC-0211-189	L020959009	11/18/2002	EH-60
837	EHC-0211-190	L020951009	11/16/2002	EH-61
848	EHC-0211-191	L020957008	11/17/2002	EH-62
502	EHC-0211-192	L020951006	11/16/2002	DH-63
860	EHC-0211-193	L020957003	11/17/2002	EH-64
867	EHC-0211-194	L020956009	11/17/2002	EH-65

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893	EHC-0211-197	L020950005	11/15/2002	MW-2
899	EHC-0211-198	L020950006	11/15/2002	MW-3
907	EHC-0211-199	L020950003	11/15/2002	MW-4
913	EHC-0211-200	L020950002	11/15/2002	MW-5
921	EHC-0211-201	L020950007	11/15/2002	MW-6
926	EHC-0211-202	L020950001	11/15/2002	MW-7
947	EHC-0211-211	L020943010	11/13/2002	SPARGE 3
958	EHC-0211-212	L020943009	11/13/2002	STW-1
971	EHC-0211-213	L020943006	11/13/2002	STW-2
982	EHC-0211-214	L020943004	11/13/2002	STW-3
993	EHC-0211-215	L020943001	11/13/2002	STW-4
1003	EHC-0211-216	L020943002	11/13/2002	STW-5
1011	EHC-0211-217	L020943003	11/13/2002	STW-6
1021	EHC-0211-218	L020943007	11/13/2002	STW-7
1034	EHC-0211-219	0211-219	11/13/2002	STW-8
1042	EHC-0211-220	L020943005	11/13/2002	STW-9
27	EHC-0211-221	L020948004	11/13/2002	APSD-11
621	EHC-0211-226	L020940001	11/11/2002	EH-106
651	EHC-0211-227	L020940002	11/11/2002	EH-111
659	EHC-0211-228	L020957011	11/17/2002	EH-112
675	EHC-0211-230	L020957005	11/17/2002	EH-114
681	EHC-0211-231	L020951012	11/16/2002	EH-115
628	EHC-0211-232	L020957012	11/17/2002	EH-107
643	EHC-0211-233	L020956010	11/17/2002	EH-110
608	EHC-0211-234	L020951008	11/16/2002	EH-103
613	EHC-0211-235	L020951011	11/16/2002	EH-104
517	EHC-0211-236	L020950019	11/15/2002	DH-66
522	EHC-0211-237	L020951005	11/16/2002	DH-67
123	EHC-0211-238	L020948003	11/13/2002	APSD-8
1003	EHC-0211-239A	L020943013	11/13/2002	STW-5
666	EHC-0211-239B	L020957006	11/17/2002	EH-113
185	EHC-0211-241	L020949003	11/14/2002	DH-14
1108	EHC-0211-243	L020950013	11/15/2002	DH-30
1075	EHC-0211-245	L020956003	11/16/2002	DH-18
775	EHC-0211-247	L020957010	11/17/2002	EH-54
289	EHC-0211-250	L020959008	11/18/2002	DH-24
215	EHC-9211-100	93-6820	11/20/1992	DH-19
783	EHC-9211-101	92-6769	11/11/1992	EH-57A
165	EHC-9211-102	92-6766	11/11/1992	DH-11
241	EHC-9211-104	92-6773	11/12/1992	DH-20
743	EHC-9211-111	92-6815	11/19/1992	EH-52
795	EHC-9211-113	92-6781	11/14/1992	EH-58

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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298	EHC-9211-117	92-6802	11/19/1992	DH-28
844	EHC-9211-118	92-6777	11/12/1992	EH-62
728	EHC-9211-119	92-6787	11/15/1992	EH-51
535	EHC-9211-120	92-6767	11/11/1992	DH-7
154	EHC-9211-121	92-6788	11/15/1992	DH-10
551	EHC-9211-122	92-6814	11/19/1992	DH-8
141	EHC-9211-123	92-6765	11/11/1992	DH-1
1084	EHC-9211-126	92-6824	11/22/1992	DH-21
716	EHC-9211-127	92-6783	11/14/1992	EH-50
203	EHC-9211-128	92-6801	11/20/1992	DH-17
807	EHC-9211-131	92-6780	11/14/1992	EH-59
353	EHC-9211-136	92-6791	11/15/1992	DH-4
277	EHC-9211-137	92-6804	11/20/1992	DH-24
743	EHC-9211-141	92-6818	11/19/1992	EH-52
229	EHC-9211-142	92-6771	11/11/1992	DH-2
202	EHC-9211-147	92-6803	11/20/1992	DH-17
353	EHC-9211-148	92-6790	11/15/1992	DH-4
1	EHC-9211-150	92-6823	11/21/1992	APSD-1
1049	EHC-9211-151	92-6807	11/21/1992	DH-12
1097	EHC-9211-152	92-6811	11/19/1992	DH-27
1057	EHC-9211-155	92-6808	11/21/1992	DH-13
1070	EHC-9211-156	92-6772	11/11/1992	DH-18
1	EHC-9211-157	92-6813	11/21/1992	APSD-1
807	EHC-9211-159	92-6779	11/14/1992	EH-59
771	EHC-9211-160	92-6782	11/14/1992	EH-54
305	EHC-9211-161	92-6796	11/22/1992	DH-29
834	EHC-9211-164	9211-235-4	11/21/1992	EH-61
565	EHC-9211-166	92-6822	11/19/1992	DH-9
323	EHC-9211-167	92-6775	11/12/1992	DH-3
757	EHC-9211-169	92-6785	11/13/1992	EH-53
165	EHC-9211-172	92-6770	11/11/1992	DH-11
820	EHC-9211-173	92-6806	11/21/1992	EH-60
412	EHC-9211-175	92-6792	11/15/1992	DH-5
266	EHC-9211-176	92-6819	11/19/1992	DH-23
306	EHC-9211-178	92-6797	11/22/1992	DH-29
484	EHC-9211-184	92-6789	11/15/1992	DH-6
55	EHC-9211-188	92-6793	11/22/1992	APSD-2
255	EHC-9211-189	92-6821	11/19/1992	DH-22
79	EHC-9211-190	92-6795	11/22/1992	APSD-4
67	EHC-9211-191	92-6794	11/22/1992	APSD-3
596	EHC-9211-196	92-6784	11/14/1992	EH-102
215	EHC-9305-106	93-7719	4/28/1993	DH-19

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1070	EHC-9305-117	93-7732	4/30/1993	DH-18
1070	EHC-9305-122	93-7734	4/30/1993	DH-18
241	EHC-9305-123	93-7735	4/30/1993	DH-20
536	EHC-9305-124	93-7736	4/30/1993	DH-7
165	EHC-9305-125	93-7737	4/30/1993	DH-11
229	EHC-9305-126	93-7738	4/30/1993	DH-2
716	EHC-9305-127	93-7739	4/30/1993	EH-50
783	EHC-9305-128	93-7740	4/30/1993	EH-57A
771	EHC-9305-129	93-7741	4/30/1993	EH-54
758	EHC-9305-131	93-7764	5/3/1993	EH-53
807	EHC-9305-133	93-7766	5/3/1993	EH-59
757	EHC-9305-134	93-7767	5/3/1993	EH-53
597	EHC-9305-135	93-7768	5/3/1993	EH-102
795	EHC-9305-136	93-7769	5/3/1993	EH-58
323	EHC-9305-137	93-7770	5/3/1993	DH-3
844	EHC-9305-138	93-7771	5/4/1993	EH-62
729	EHC-9305-139	93-7772	5/4/1993	EH-51
354	EHC-9305-140	93-7773	5/4/1993	DH-4
412	EHC-9305-142	93-7775	5/4/1993	DH-5
729	EHC-9305-143	93-7776	5/4/1993	EH-51
552	EHC-9305-144	93-7777	5/4/1993	DH-8
565	EHC-9305-145	93-7778	5/4/1993	DH-9
154	EHC-9305-146	93-7779	5/5/1993	DH-10
485	EHC-9305-147	93-7780	5/5/1993	DH-6
485	EHC-9305-149	93-7782	5/5/1993	DH-6
743	EHC-9305-150	93-7783	5/5/1993	EH-52
195	EHC-9305-151	EHC-9305-151	5/5/1993	DH-16
203	EHC-9305-152	93-7827	5/5/1993	DH-17
203	EHC-9305-153	9305-064-9	5/5/1993	DH-17
256	EHC-9305-154	93-7828	5/5/1993	DH-22
266	EHC-9305-155	93-7829	5/5/1993	DH-23
1097	EHC-9305-156	93-7830	5/5/1993	DH-27
298	EHC-9305-157	93-7831	5/5/1993	DH-28
278	EHC-9305-158	93-7832	5/5/1993	DH-24
1049	EHC-9305-159	93-7834	5/6/1993	DH-12
1058	EHC-9305-160	93-7835	5/6/1993	DH-13
820	EHC-9305-161	93-7836	5/6/1993	EH-60
1058	EHC-9305-162	93-7837	5/6/1993	DH-13
834	EHC-9305-164	9305-064-1	5/6/1993	EH-61
1084	EHC-9305-165	93-7838	5/6/1993	DH-21
1	EHC-9305-168	93-7841	5/7/1993	APSD-1
55	EHC-9305-170	93-7843	5/7/1993	APSD-2

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55	EHC-9305-172	93-7845	5/7/1993	APSD-2
79	EHC-9305-173	93-7846	5/7/1993	APSD-4
306	EHC-9305-174	93-7847	5/7/1993	DH-29
1	EHC-9311-100	93-9332	11/16/1993	APSD-1
55	EHC-9311-101	93-9333	11/16/1993	APSD-2
69	EHC-9311-102	93-9334	11/16/1993	APSD-3
79	EHC-9311-103	93-9335	11/16/1993	APSD-4
165	EHC-9311-108	93-9193	11/5/1993	DH-11
1049	EHC-9311-109	93-9270	11/12/1993	DH-12
1058	EHC-9311-110	93-9271	11/12/1993	DH-13
195	EHC-9311-111	9311-111	11/11/1993	DH-16
203	EHC-9311-112	93-9272	11/11/1993	DH-17
1071	EHC-9311-113	93-9194	11/5/1993	DH-18
216	EHC-9311-114	93-9225	11/11/1993	DH-19
141	EHC-9311-115	93-9148	11/3/1993	DH-1
241	EHC-9311-116	93-9195	11/5/1993	DH-20
1084	EHC-9311-117	93-9336	11/16/1993	DH-21
256	EHC-9311-118	93-9273	11/11/1993	DH-22
266	EHC-9311-119	93-9224	11/11/1993	DH-23
278	EHC-9311-120	93-9274	11/11/1993	DH-24
1097	EHC-9311-121	93-9226	11/11/1993	DH-27
298	EHC-9311-122	93-9275	11/12/1993	DH-28
306	EHC-9311-123	93-9337	11/16/1993	DH-29
229	EHC-9311-124	93-9152	11/3/1993	DH-2
324	EHC-9311-125	93-9196	11/8/1993	DH-3
354	EHC-9311-126	93-9217	11/10/1993	DH-4
413	EHC-9311-127	93-9219	11/10/1993	DH-5
485	EHC-9311-128	93-9221	11/10/1993	DH-6
536	EHC-9311-129	93-9155	11/4/1993	DH-7
552	EHC-9311-130	93-9220	11/10/1993	DH-8
565	EHC-9311-131	93-9222	11/10/1993	DH-9
597	EHC-9311-134	93-9198	11/8/1993	EH-102
716	EHC-9311-135	93-9147	11/4/1993	EH-50
729	EHC-9311-136	93-9230	11/9/1993	EH-51
743	EHC-9311-137	93-9228	11/9/1993	EH-52
758	EHC-9311-138	93-9199	11/5/1993	EH-53
771	EHC-9311-139	93-9157	11/4/1993	EH-54
783	EHC-9311-140	93-9151	11/3/1993	EH-57A
796	EHC-9311-141	93-9154	11/4/1993	EH-58
807	EHC-9311-142	93-9146	11/4/1993	EH-59
820	EHC-9311-143	93-9276	11/12/1993	EH-60
834	EHC-9311-144	9311-159-6	11/12/1993	EH-61

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229	EHC-9311-161	93-9150	11/3/1993	DH-2
716	EHC-9311-163	93-9149	11/4/1993	EH-50
166	EHC-9311-165	93-9202	11/5/1993	DH-11
844	EHC-9311-167	93-9204	11/8/1993	EH-62
413	EHC-9311-172	93-9218	11/10/1993	DH-5
256	EHC-9311-174	93-9233	11/11/1993	DH-22
729	EHC-9311-175	93-9231	11/9/1993	EH-51
820	EHC-9311-178	93-9278	11/12/1993	EH-60
306	EHC-9311-180	93-9338	11/16/1993	DH-29
89	EHC-9311-182	93-9340	11/17/1993	APSD-7
109	EHC-9311-183	93-9341	11/17/1993	APSD-8
126	EHC-9311-184	93-9342	11/17/1993	APSD-9
11	EHC-9311-185	93-9343	11/17/1993	APSD-10
22	EHC-9311-186	93-9344	11/17/1993	APSD-11
31	EHC-9311-187	93-9345	11/17/1993	APSD-12
40	EHC-9311-188	93-9346	11/17/1993	APSD-13
47	EHC-9311-189	93-9347	11/17/1993	APSD-14
40	EHC-9311-191	93-9349	11/17/1993	APSD-13
2	EHC-9405-100	94-1324	5/7/1994	APSD-1
55	EHC-9405-101	94-1325	5/7/1994	APSD-2
69	EHC-9405-102	94-1373	5/13/1994	APSD-3
80	EHC-9405-103	94-1374	5/13/1994	APSD-4
11	EHC-9405-106	94-1375	5/13/1994	APSD-10
22	EHC-9405-107	94-1376	5/13/1994	APSD-11
31	EHC-9405-108	94-1377	5/13/1994	APSD-12
40	EHC-9405-109	94-1378	5/13/1994	APSD-13
48	EHC-9405-110	94-1451	5/16/1994	APSD-14
90	EHC-9405-111	94-1114	5/6/1994	APSD-7
111	EHC-9405-112	94-1115	5/6/1994	APSD-8
126	EHC-9405-113	94-1379	5/13/1994	APSD-9
166	EHC-9405-114	94-1096	5/4/1994	DH-11
1049	EHC-9405-115	94-1382	5/12/1994	DH-12
1058	EHC-9405-116	94-1383	5/12/1994	DH-13
195	EHC-9405-117	EHC-9405-117	5/12/1994	DH-16
203	EHC-9405-118	94-1384	5/12/1994	DH-17
1071	EHC-9405-119	94-1331	5/9/1994	DH-18
216	EHC-9405-120	94-1353	5/11/1994	DH-19
142	EHC-9405-121	94-1097	5/4/1994	DH-1
242	EHC-9405-122	94-1332	5/9/1994	DH-20
256	EHC-9405-123	94-1452	5/16/1994	DH-22
266	EHC-9405-124	94-1351	5/11/1994	DH-23
278	EHC-9405-125	94-1385	5/12/1994	DH-24

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298	EHC-9405-127	94-1328	5/7/1994	DH-28
307	EHC-9405-128	94-1329	5/7/1994	DH-29
229	EHC-9405-129	94-1098	5/4/1994	DH-2
324	EHC-9405-130	94-1336	5/10/1994	DH-3
354	EHC-9405-131	94-1318	5/6/1994	DH-4
413	EHC-9405-132	94-1319	5/6/1994	DH-5
485	EHC-9405-133	94-1348	5/11/1994	DH-6
536	EHC-9405-134	94-1099	5/4/1994	DH-7
552	EHC-9405-135	94-1349	5/11/1994	DH-8
565	EHC-9405-136	94-1350	5/11/1994	DH-9
597	EHC-9405-138	94-1113	5/5/1994	EH-102
716	EHC-9405-139	94-1105	5/5/1994	EH-50
729	EHC-9405-140	94-1354	5/11/1994	EH-51
743	EHC-9405-141	94-1352	5/11/1994	EH-52
758	EHC-9405-142	94-1100	5/4/1994	EH-53
772	EHC-9405-143	94-1101	5/4/1994	EH-54
784	EHC-9405-144	94-1102	5/4/1994	EH-57A
796	EHC-9405-145	94-1339	5/10/1994	EH-58
807	EHC-9405-146	94-1106	5/5/1994	EH-59
820	EHC-9405-147	94-1386	5/12/1994	EH-60
834	EHC-9405-148	9405-095-9	5/12/1994	EH-61
844	EHC-9405-149	94-1340	5/10/1994	EH-62
141	EHC-9405-160	94-1103	5/4/1994	DH-1
90	EHC-9405-164	94-1112	5/6/1994	APSD-7
1084	EHC-9405-168	94-1327	5/7/1994	DH-21
306	EHC-9405-169	94-1326	5/7/1994	DH-29
1071	EHC-9405-171	94-1334	5/9/1994	DH-18
552	EHC-9405-177	94-1347	5/11/1994	DH-8
1058	EHC-9405-179	94-1387	5/12/1994	DH-13
22	EHC-9405-181	94-1381	5/13/1994	APSD-11
1097	EHC-9405-184	94-1454	5/16/1994	DH-27
3	EHC-9411-100	94-3358	11/15/1994	APSD-1
56	EHC-9411-101	94-3380	11/21/1994	APSD-2
70	EHC-9411-102	94-3381	11/21/1994	APSD-3
80	EHC-9411-103	94-3359	11/14/1994	APSD-4
13	EHC-9411-106	94-3362	11/14/1994	APSD-10
23	EHC-9411-107	94-3363	11/14/1994	APSD-11
32	EHC-9411-108	94-3364	11/14/1994	APSD-12
41	EHC-9411-109	94-3382	11/21/1994	APSD-13
96	EHC-9411-111	94-3383	11/17/1994	APSD-7
114	EHC-9411-112	94-3384	11/17/1994	APSD-8
128	EHC-9411-113	94-3365	11/16/1994	APSD-9

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1050	EHC-9411-115	94-3385	11/18/1994	DH-12
1058	EHC-9411-116	94-3386	11/18/1994	DH-13
196	EHC-9411-117	EHC-9411-117	11/17/1994	DH-16
204	EHC-9411-118	94-3387	11/18/1994	DH-17
1071	EHC-9411-119	94-3269	11/10/1994	DH-18
216	EHC-9411-120	94-3366	11/15/1994	DH-19
142	EHC-9411-121	94-3259	11/9/1994	DH-1
242	EHC-9411-122	94-3260	11/9/1994	DH-20
266	EHC-9411-123	94-3367	11/15/1994	DH-23
256	EHC-9411-124	94-3388	11/16/1994	DH-22
278	EHC-9411-125	94-3389	11/17/1994	DH-24
1098	EHC-9411-126	94-3390	11/16/1994	DH-27
298	EHC-9411-127	94-3391	11/18/1994	DH-28
308	EHC-9411-128	94-3392	11/21/1994	DH-29
230	EHC-9411-129	94-3261	11/9/1994	DH-2
324	EHC-9411-130	94-3270	11/10/1994	DH-3
357	EHC-9411-131	94-3278	11/11/1994	DH-4
416	EHC-9411-132	94-3279	11/11/1994	DH-5
485	EHC-9411-133	94-3280	11/11/1994	DH-6
536	EHC-9411-134	94-3271	11/10/1994	DH-7
552	EHC-9411-135	94-3281	11/11/1994	DH-8
565	EHC-9411-136	9411-136	11/11/1994	DH-9
597	EHC-9411-139	94-3272	11/10/1994	EH-102
716	EHC-9411-140	94-3262	11/9/1994	EH-50
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744	EHC-9411-142	94-3283	11/11/1994	EH-52
758	EHC-9411-143	94-3263	11/9/1994	EH-53
772	EHC-9411-144	94-3264	11/9/1994	EH-54
784	EHC-9411-145	94-3265	11/9/1994	EH-57A
796	EHC-9411-146	94-3273	11/10/1994	EH-58
808	EHC-9411-147	94-3274	11/10/1994	EH-59
821	EHC-9411-148	94-3393	11/18/1994	EH-60
834	EHC-9411-150	411143-6	11/18/1994	EH-61
844	EHC-9411-151	94-3275	11/10/1994	EH-62
142	EHC-9411-162	94-3266	11/9/1994	DH-1
166	EHC-9411-167	94-3276	11/10/1994	DH-11
552	EHC-9411-173	94-3285	11/11/1994	DH-8
13	EHC-9411-175	94-3368	11/14/1994	APSD-10
256	EHC-9411-179	94-3395	11/16/1994	DH-22
203	EHC-9411-182	94-3398	11/18/1994	DH-17
1085	EHC-9411-183	94-3399	11/17/1994	DH-21
821	EHC-9411-184	94-3400	11/18/1994	EH-60

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14	EHC-9505-102	95-4499	5/12/1995	APSD-10
23	EHC-9505-103	95-4500	5/12/1995	APSD-11
32	EHC-9505-104	95-4501	5/12/1995	APSD-12
41	EHC-9505-105	95-4502	5/17/1995	APSD-13
3	EHC-9505-107	95-4503	5/12/1995	APSD-1
57	EHC-9505-108	95-4504	5/17/1995	APSD-2
71	EHC-9505-109	95-4505	5/12/1995	APSD-3
81	EHC-9505-110	95-4506	5/12/1995	APSD-4
97	EHC-9505-111	95-4507	5/12/1995	APSD-7
115	EHC-9505-112	95-4508	5/12/1995	APSD-8
129	EHC-9505-113	95-4509	5/12/1995	APSD-9
166	EHC-9505-114	95-4450	5/5/1995	DH-11
1050	EHC-9505-115	95-4510	5/16/1995	DH-12
1059	EHC-9505-116	95-4511	5/16/1995	DH-13
196	EHC-9505-117	EHC-9505-117	5/16/1995	DH-16
204	EHC-9505-118	95-4512	5/16/1995	DH-17
1071	EHC-9505-119	95-4479	5/8/1995	DH-18
216	EHC-9505-120	95-4513	5/15/1995	DH-19
142	EHC-9505-121	95-4451	5/5/1995	DH-1
243	EHC-9505-122	95-4480	5/8/1995	DH-20
257	EHC-9505-123	95-4514	5/15/1995	DH-22
266	EHC-9505-124	95-4515	5/15/1995	DH-23
278	EHC-9505-125	95-4516	5/16/1995	DH-24
1098	EHC-9505-126	95-4517	5/15/1995	DH-27
299	EHC-9505-127	95-4518	5/15/1995	DH-28
308	EHC-9505-128	95-4519	5/17/1995	DH-29
230	EHC-9505-129	95-4452	5/5/1995	DH-2
324	EHC-9505-130	95-4481	5/9/1995	DH-3
358	EHC-9505-131	95-4482	5/10/1995	DH-4
416	EHC-9505-132	95-4483	5/10/1995	DH-5
485	EHC-9505-133	95-4484	5/10/1995	DH-6
536	EHC-9505-134	95-4453	5/5/1995	DH-7
553	EHC-9505-135	95-4485	5/10/1995	DH-8
566	EHC-9505-136	95-4486	5/10/1995	DH-9
597	EHC-9505-139	95-4456	5/5/1995	EH-102
717	EHC-9505-140	95-4457	5/5/1995	EH-50
730	EHC-9505-141	95-4487	5/9/1995	EH-51
744	EHC-9505-142	95-4488	5/10/1995	EH-52
758	EHC-9505-143	95-4458	5/5/1995	EH-53
772	EHC-9505-144	95-4459	5/5/1995	EH-54
784	EHC-9505-145	95-4460	5/5/1995	EH-57A
796	EHC-9505-146	95-4461	5/5/1995	EH-58

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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821	EHC-9505-148	95-4520	5/16/1995	EH-60
845	EHC-9505-150	95-4489	5/9/1995	EH-62
142	EHC-9505-161	95-4470	5/5/1995	DH-1
1071	EHC-9505-167	95-4492	5/8/1995	DH-18
324	EHC-9505-168	95-4493	5/9/1995	DH-3
154	EHC-9505-170	95-4495	5/10/1995	DH-10
553	EHC-9505-172	95-4497	5/10/1995	DH-8
115	EHC-9505-174	95-4522	5/12/1995	APSD-8
216	EHC-9505-176	95-4524	5/15/1995	DH-19
821	EHC-9505-178	95-4526	5/16/1995	EH-60
1085	EHC-9505-181	95-4528	5/17/1995	DH-21
57	EHC-9505-183	95-4530	5/17/1995	APSD-2
15	EHC-9511-102	95-6108	11/8/1995	APSD-10
25	EHC-9511-103	95-6121	11/8/1995	APSD-11
34	EHC-9511-104	95-6109	11/8/1995	APSD-12
43	EHC-9511-105	95-6110	11/8/1995	APSD-13
4	EHC-9511-107	95-6122	11/8/1995	APSD-1
58	EHC-9511-108	95-6111	11/8/1995	APSD-2
72	EHC-9511-109	95-6112	11/8/1995	APSD-3
82	EHC-9511-110	95-6123	11/8/1995	APSD-4
99	EHC-9511-111	95-6124	11/8/1995	APSD-7
117	EHC-9511-112	95-6113	11/8/1995	APSD-8
130	EHC-9511-113	95-6114	11/8/1995	APSD-9
155	EHC-9511-114	95-6115	11/8/1995	DH-10A
166	EHC-9511-115	95-6087	11/6/1995	DH-11
1050	EHC-9511-116	95-6141	11/14/1995	DH-12
1059	EHC-9511-117	95-6142	11/14/1995	DH-13
196	EHC-9511-118	9511-118	11/13/1995	DH-16
204	EHC-9511-119	95-6143	11/13/1995	DH-17
1072	EHC-9511-120	95-6088	11/7/1995	DH-18
216	EHC-9511-121	95-6116	11/9/1995	DH-19
142	EHC-9511-122	95-6089	11/6/1995	DH-1
245	EHC-9511-123	95-6117	11/8/1995	DH-20
1085	EHC-9511-124	95-6144	11/13/1995	DH-21
257	EHC-9511-125	95-6145	11/13/1995	DH-22
267	EHC-9511-126	95-6146	11/13/1995	DH-23
278	EHC-9511-127	95-6147	11/13/1995	DH-24
1098	EHC-9511-128	95-6118	11/9/1995	DH-27
299	EHC-9511-129	95-6148	11/13/1995	DH-28
309	EHC-9511-130	95-6119	11/8/1995	DH-29
230	EHC-9511-131	95-6090	11/6/1995	DH-2
324	EHC-9511-132	95-6091	11/8/1995	DH-3

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418	EHC-9511-134	95-6125	11/8/1995	DH-5
486	EHC-9511-135	95-6126	11/8/1995	DH-6
536	EHC-9511-136	95-6092	11/6/1995	DH-7
553	EHC-9511-137	95-6127	11/9/1995	DH-8
566	EHC-9511-138	95-6128	11/9/1995	DH-9
597	EHC-9511-141	95-6094	11/7/1995	EH-102
717	EHC-9511-142	95-6093	11/6/1995	EH-50
730	EHC-9511-143	95-6131	11/9/1995	EH-51
744	EHC-9511-144	95-6132	11/9/1995	EH-52
758	EHC-9511-145	95-6095	11/7/1995	EH-53
772	EHC-9511-146	95-6096	11/7/1995	EH-54
784	EHC-9511-147	95-6097	11/7/1995	EH-57A
796	EHC-9511-148	95-6098	11/7/1995	EH-58
808	EHC-9511-149	95-6099	11/7/1995	EH-59
821	EHC-9511-150	95-6149	11/14/1995	EH-60
845	EHC-9511-151	95-6100	11/8/1995	EH-62
835	EHC-9511-152	511049-6	11/8/1995	EH-61
230	EHC-9511-163	95-6101	11/6/1995	DH-2
759	EHC-9511-165	95-6103	11/7/1995	EH-53
325	EHC-9511-167	511023-3	11/8/1995	DH-3
486	EHC-9511-171	95-6134	11/8/1995	DH-6
553	EHC-9511-173	95-6136	11/9/1995	DH-8
279	EHC-9511-175	95-6151	11/13/1995	DH-24
821	EHC-9511-177	95-6153	11/14/1995	EH-60
245	EHC-9511-186	95-6137	11/8/1995	DH-20
155	EHC-9605-102	96-6770	5/9/1996	DH-10A
167	EHC-9605-103	96-6771	5/9/1996	DH-11
1050	EHC-9605-104	96-6772	5/14/1996	DH-12
1059	EHC-9605-105	96-6773	5/14/1996	DH-13
204	EHC-9605-106	EHC-9605-106	5/14/1996	DH-17
196	EHC-9605-107	96-6774	5/14/1996	DH-16
1072	EHC-9605-108	96-6775	5/9/1996	DH-18
217	EHC-9605-109	96-6782	5/14/1996	DH-19
143	EHC-9605-110	96-6706	5/7/1996	DH-1
1085	EHC-9605-111	96-6776	5/14/1996	DH-21
257	EHC-9605-112	96-6777	5/14/1996	DH-22
267	EHC-9605-113	96-6778	5/10/1996	DH-23
279	EHC-9605-114	96-6779	5/14/1996	DH-24
1098	EHC-9605-115	96-6780	5/10/1996	DH-27
299	EHC-9605-116	96-6781	5/10/1996	DH-28
230	EHC-9605-117	96-6707	5/7/1996	DH-2
325	EHC-9605-118	96-6708	5/8/1996	DH-3

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537	EHC-9605-120	96-6709	5/7/1996	DH-7
553	EHC-9605-121	96-6784	5/10/1996	DH-8
566	EHC-9605-122	96-6785	5/10/1996	DH-9
598	EHC-9605-125	96-6710	5/7/1996	EH-102
717	EHC-9605-126	96-6711	5/7/1996	EH-50
730	EHC-9605-127	96-6787	5/9/1996	EH-51
744	EHC-9605-128	96-6788	5/9/1996	EH-52
759	EHC-9605-129	96-6712	5/7/1996	EH-53
772	EHC-9605-130	96-6713	5/7/1996	EH-54
784	EHC-9605-131	96-6714	5/7/1996	EH-57A
796	EHC-9605-132	96-6715	5/7/1996	EH-58
808	EHC-9605-133	96-6716	5/7/1996	EH-59
822	EHC-9605-134	96-6789	5/15/1996	EH-60
835	EHC-9605-135	605045-4	5/15/1996	EH-61
845	EHC-9605-136	96-6717	5/8/1996	EH-62
143	EHC-9605-145	96-6718	5/7/1996	DH-1
325	EHC-9605-147	96-6720	5/8/1996	DH-3
1072	EHC-9605-151	96-6794	5/9/1996	DH-18
299	EHC-9605-153	96-6762	5/10/1996	DH-28
822	EHC-9605-156	96-6765	5/15/1996	EH-60
15	EHC-9605-200	96-6738	5/9/1996	APSD-10
25	EHC-9605-201	96-6739	5/8/1996	APSD-11
34	EHC-9605-202	96-6724	5/8/1996	APSD-12
43	EHC-9605-203	96-6731	5/8/1996	APSD-13
5	EHC-9605-204	96-6726	5/8/1996	APSD-1
59	EHC-9605-205	96-6727	5/9/1996	APSD-2
72	EHC-9605-206	96-6733	5/8/1996	APSD-3
82	EHC-9605-207	96-6732	5/8/1996	APSD-4
102	EHC-9605-208	96-6736	5/8/1996	APSD-7
119	EHC-9605-209	96-6734	5/8/1996	APSD-8
130	EHC-9605-210	96-6723	5/8/1996	APSD-9
245	EHC-9605-211	96-6737	5/8/1996	DH-20
310	EHC-9605-212	96-6725	5/8/1996	DH-29
361	EHC-9605-213	96-6728	5/8/1996	DH-4
418	EHC-9605-214	96-6729	5/8/1996	DH-5
102	EHC-9605-245	96-6735	5/8/1996	APSD-7
182	EHC-9605-300	96-911006	5/8/1996	DH-14
16	EHC-9606-100	96-1243006	6/24/1996	APSD-10
25	EHC-9606-101	96-1243012	6/24/1996	APSD-11
34	EHC-9606-102	96-1243007	6/24/1996	APSD-12
43	EHC-9606-103	96-1243001	6/24/1996	APSD-13
5	EHC-9606-104	96-1243008	6/24/1996	APSD-1

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72	EHC-9606-106	96-1243010	6/24/1996	APSD-3
83	EHC-9606-107	96-1243005	6/24/1996	APSD-4
103	EHC-9606-108	96-1243016	6/25/1996	APSD-7
120	EHC-9606-109	96-1243018	6/25/1996	APSD-8
130	EHC-9606-110	96-1243013	6/24/1996	APSD-9
182	EHC-9606-111	96-1243015	6/25/1996	DH-14
245	EHC-9606-112	96-1243002	6/24/1996	DH-20
310	EHC-9606-113	96-1243003	6/24/1996	DH-29
362	EHC-9606-114	96-1243014	6/25/1996	DH-4
418	EHC-9606-115	96-1243004	6/25/1996	DH-5
103	EHC-9606-124	96-1243017	6/25/1996	APSD-7
16	EHC-9609-100	96-1924014	9/19/1996	APSD-10
25	EHC-9609-101	96-1924016	9/19/1996	APSD-11
34	EHC-9609-102	96-1924015	9/19/1996	APSD-12
43	EHC-9609-103	96-1924010	9/19/1996	APSD-13
5	EHC-9609-104	96-1924018	9/19/1996	APSD-1
59	EHC-9609-105	96-1924019	9/19/1996	APSD-2
72	EHC-9609-106	96-1924020	9/19/1996	APSD-3
83	EHC-9609-107	96-1924013	9/19/1996	APSD-4
104	EHC-9609-108	96-1924021	9/19/1996	APSD-7
120	EHC-9609-109	96-1924022	9/19/1996	APSD-8
130	EHC-9609-110	96-1924017	9/19/1996	APSD-9
183	EHC-9609-111	96-1924025	9/19/1996	DH-14
245	EHC-9609-112	96-1924011	9/19/1996	DH-20
310	EHC-9609-113	96-1924012	9/19/1996	DH-29
363	EHC-9609-114	96-1924024	9/19/1996	DH-4
418	EHC-9609-115	96-1924026	9/19/1996	DH-5
104	EHC-9609-126	96-1924023	9/19/1996	APSD-7
155	EHC-9611-102	96-7783	11/11/1996	DH-10A
167	EHC-9611-103	96-7734	11/6/1996	DH-11
1050	EHC-9611-104	96-7784	11/12/1996	DH-12
1059	EHC-9611-105	96-7785	11/12/1996	DH-13
204	EHC-9611-106	96-7786	11/12/1996	DH-17
196	EHC-9611-107	EHC-9611-107	11/12/1996	DH-16
1072	EHC-9611-108	96-7774	11/8/1996	DH-18
217	EHC-9611-109	96-7780	11/11/1996	DH-19
143	EHC-9611-110	96-7735	11/6/1996	DH-1
1085	EHC-9611-111	96-7787	11/12/1996	DH-21
257	EHC-9611-112	96-7777	11/11/1996	DH-22
267	EHC-9611-113	96-7778	11/11/1996	DH-23
279	EHC-9611-114	96-7788	11/12/1996	DH-24
1098	EHC-9611-115	96-7776	11/11/1996	DH-27

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230	EHC-9611-117	96-7736	11/6/1996	DH-2
325	EHC-9611-118	96-7754	11/7/1996	DH-3
486	EHC-9611-119	96-7782	11/11/1996	DH-6
537	EHC-9611-120	96-7737	11/6/1996	DH-7
553	EHC-9611-121	96-7768	11/8/1996	DH-8
566	EHC-9611-122	96-7766	11/8/1996	DH-9
598	EHC-9611-125	96-7755	11/7/1996	EH-102
717	EHC-9611-126	96-7764	11/7/1996	EH-50
730	EHC-9611-127	96-7771	11/8/1996	EH-51
744	EHC-9611-128	96-7769	11/8/1996	EH-52
759	EHC-9611-129	96-7738	11/6/1996	EH-53
772	EHC-9611-130	96-7739	11/6/1996	EH-54
784	EHC-9611-131	96-7762	11/7/1996	EH-57A
797	EHC-9611-132	96-7740	11/6/1996	EH-58
808	EHC-9611-133	96-7756	11/7/1996	EH-59
822	EHC-9611-134	96-7789	11/12/1996	EH-60
835	EHC-9611-135	611035-6	11/12/1996	EH-61
845	EHC-9611-136	96-7765	11/7/1996	EH-62
1072	EHC-9611-146	96-7773	11/8/1996	DH-18
845	EHC-9611-148	96-7753	11/7/1996	EH-62
143	EHC-9611-150	96-7741	11/6/1996	DH-1
486	EHC-9611-153	96-7781	11/11/1996	DH-6
279	EHC-9611-155	96-7791	11/12/1996	DH-24
16	EHC-9611-200	96-7711	11/6/1996	APSD-10
25	EHC-9611-201	96-7712	11/6/1996	APSD-11
34	EHC-9611-202	96-7713	11/6/1996	APSD-12
43	EHC-9611-203	96-7714	11/5/1996	APSD-13
5	EHC-9611-204	96-7715	11/5/1996	APSD-1
59	EHC-9611-205	96-7716	11/5/1996	APSD-2
73	EHC-9611-206	96-7717	11/5/1996	APSD-3
83	EHC-9611-207	96-7718	11/5/1996	APSD-4
104	EHC-9611-208	96-7719	11/6/1996	APSD-7
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131	EHC-9611-210	96-7721	11/6/1996	APSD-9
245	EHC-9611-211	96-7722	11/5/1996	DH-20
310	EHC-9611-212	96-7723	11/5/1996	DH-29
363	EHC-9611-213	96-7724	11/5/1996	DH-4
418	EHC-9611-214	96-7725	11/5/1996	DH-5
5	EHC-9611-217	96-7726	11/5/1996	APSD-1
104	EHC-9611-220	96-7728	11/6/1996	APSD-7
183	EHC-9611-300	96-2338001	11/5/1996	DH-14
155	EHC-9705-102	97-899	5/6/1997	DH-10A

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1050	EHC-9705-104	97-934	5/7/1997	DH-12
1059	EHC-9705-105	97-935	5/7/1997	DH-13
196	EHC-9705-106	EHC-9705-106	5/7/1997	DH-16
1072	EHC-9705-107	97-901	5/6/1997	DH-18
217	EHC-9705-108	97-936	5/8/1997	DH-19
143	EHC-9705-109	97-902	5/2/1997	DH-1
1085	EHC-9705-110	97-937	5/8/1997	DH-21
257	EHC-9705-111	97-938	5/8/1997	DH-22
267	EHC-9705-112	97-939	5/7/1997	DH-23
279	EHC-9705-113	97-940	5/7/1997	DH-24
1099	EHC-9705-114	97-941	5/8/1997	DH-27
299	EHC-9705-115	97-969	5/8/1997	DH-28
231	EHC-9705-116	97-903	5/2/1997	DH-2
325	EHC-9705-117	97-904	5/5/1997	DH-3
486	EHC-9705-118	97-905	5/6/1997	DH-6
537	EHC-9705-119	97-906	5/2/1997	DH-7
554	EHC-9705-120	97-907	5/6/1997	DH-8
566	EHC-9705-121	97-970	5/7/1997	DH-9
598	EHC-9705-123	97-909	5/6/1997	EH-102
717	EHC-9705-124	97-910	5/6/1997	EH-50
730	EHC-9705-125	97-911	5/6/1997	EH-51
744	EHC-9705-126	97-912	5/6/1997	EH-52
759	EHC-9705-127	97-913	5/5/1997	EH-53
773	EHC-9705-128	97-914	5/5/1997	EH-54
785	EHC-9705-129	97-915	5/5/1997	EH-57A
797	EHC-9705-130	97-916	5/2/1997	EH-58
808	EHC-9705-131	97-917	5/2/1997	EH-59
822	EHC-9705-132	97-971	5/7/1997	EH-60
845	EHC-9705-133	97-918	5/5/1997	EH-62
204	EHC-9705-138	97-972	5/7/1997	DH-17
835	EHC-9705-139	705025-8	5/7/1997	EH-61
231	EHC-9705-141	97-923	5/2/1997	DH-2
846	EHC-9705-146	97-925	5/5/1997	EH-62
598	EHC-9705-147	97-926	5/6/1997	EH-102
835	EHC-9705-151	705025-2	5/7/1997	EH-61
822	EHC-9705-152	97-974	5/7/1997	EH-60
1086	EHC-9705-155	97-976	5/8/1997	DH-21
16	EHC-9705-200	97-942	5/7/1997	APSD-10
26	EHC-9705-201	97-943	5/7/1997	APSD-11
34	EHC-9705-202	97-944	5/7/1997	APSD-12
44	EHC-9705-203	97-945	5/7/1997	APSD-13
5	EHC-9705-204	97-946	5/7/1997	APSD-1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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73	EHC-9705-206	97-948	5/7/1997	APSD-3
83	EHC-9705-207	97-949	5/7/1997	APSD-4
104	EHC-9705-208	97-950	5/7/1997	APSD-7
121	EHC-9705-209	97-951	5/7/1997	APSD-8
131	EHC-9705-210	97-952	5/7/1997	APSD-9
246	EHC-9705-211	97-953	5/6/1997	DH-20
310	EHC-9705-212	97-954	5/6/1997	DH-29
363	EHC-9705-213	97-955	5/6/1997	DH-4
418	EHC-9705-214	97-956	5/6/1997	DH-5
310	EHC-9705-222	97-963	5/6/1997	DH-29
104	EHC-9705-223	97-964	5/7/1997	APSD-7
183	EHC-9705-300	97-965	5/6/1997	DH-14
155	EHC-9711-102	192-2740	11/6/1997	DH-10A
167	EHC-9711-103	187-2673	11/4/1997	DH-11
1051	EHC-9711-104	187-2682	11/5/1997	DH-12
1059	EHC-9711-105	192-2741	11/7/1997	DH-13
205	EHC-9711-106	192-2742	11/7/1997	DH-17
197	EHC-9711-107	192-2743	11/10/1997	DH-16
1073	EHC-9711-108	187-2674	11/4/1997	DH-18
267	EHC-9711-109	192-2744	11/10/1997	DH-23
143	EHC-9711-110	187-2664	11/3/1997	DH-1
1086	EHC-9711-111	192-2745	11/10/1997	DH-21
257	EHC-9711-112	192-2746	11/10/1997	DH-22
217	EHC-9711-113	192-2747	11/6/1997	DH-19
279	EHC-9711-114	192-2748	11/7/1997	DH-24
1099	EHC-9711-115	192-2749	11/11/1997	DH-27
300	EHC-9711-116	192-2750	11/11/1997	DH-28
231	EHC-9711-117	187-2665	11/3/1997	DH-2
325	EHC-9711-118	188-2683	11/5/1997	DH-3
487	EHC-9711-119	192-2751	11/6/1997	DH-6
537	EHC-9711-120	187-2666	11/3/1997	DH-7
554	EHC-9711-121	187-2675	11/4/1997	DH-8
566	EHC-9711-122	192-2752	11/6/1997	DH-9
598	EHC-9711-125	187-2676	11/4/1997	EH-102
717	EHC-9711-126	187-2677	11/4/1997	EH-50
730	EHC-9711-127	188-2684	11/5/1997	EH-51
745	EHC-9711-128	188-2685	11/5/1997	EH-52
759	EHC-9711-129	187-2667	11/3/1997	EH-53
773	EHC-9711-130	187-2678	11/4/1997	EH-54
785	EHC-9711-131	187-2668	11/3/1997	EH-57A
797	EHC-9711-132	187-2669	11/3/1997	EH-58
809	EHC-9711-133	187-2670	11/3/1997	EH-59

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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835	EHC-9711-135	711029-4	11/7/1997	EH-61
846	EHC-9711-136	188-2687	11/5/1997	EH-62
231	EHC-9711-146	187-2672	11/3/1997	DH-2
167	EHC-9711-148	187-2680	11/4/1997	DH-11
846	EHC-9711-150	188-2699	11/5/1997	EH-62
487	EHC-9711-152	192-2757	11/6/1997	DH-6
280	EHC-9711-154	193-2759	11/7/1997	DH-24
258	EHC-9711-156	193-2761	11/10/1997	DH-22
300	EHC-9711-160	9711-160	11/12/1997	DH-28
1099	EHC-9711-161	9711-161	11/12/1997	DH-27
16	EHC-9711-200	188-2688	11/5/1997	APSD-10
26	EHC-9711-201	188-2700	11/5/1997	APSD-11
35	EHC-9711-202	189-2708	11/5/1997	APSD-12
44	EHC-9711-203	189-2709	11/5/1997	APSD-13
6	EHC-9711-204	189-2710	11/5/1997	APSD-1
59	EHC-9711-205	189-2711	11/5/1997	APSD-2
73	EHC-9711-206	189-2712	11/5/1997	APSD-3
83	EHC-9711-207	189-2713	11/5/1997	APSD-4
105	EHC-9711-208	188-2701	11/5/1997	APSD-7
121	EHC-9711-209	188-2702	11/5/1997	APSD-8
131	EHC-9711-210	189-2703	11/5/1997	APSD-9
246	EHC-9711-211	189-2714	11/5/1997	DH-20
311	EHC-9711-212	189-2715	11/5/1997	DH-29
363	EHC-9711-213	189-2704	11/4/1997	DH-4
419	EHC-9711-214	189-2705	11/5/1997	DH-5
105	EHC-9711-219	189-2706	11/5/1997	APSD-7
184	EHC-9711-300	189-2707	11/5/1997	DH-14
155	EHC-9805-102	260-3749	5/7/1998	DH-10A
167	EHC-9805-104	260-3750	5/4/1998	DH-11
1051	EHC-9805-105	260-3751	5/7/1998	DH-12
1060	EHC-9805-106	262-3783	5/11/1998	DH-13
205	EHC-9805-107	262-3784	5/11/1998	DH-17
197	EHC-9805-108	EHC-9805-108	5/11/1998	DH-16
1073	EHC-9805-109	260-3752	5/5/1998	DH-18
217	EHC-9805-110	262-3785	5/11/1998	DH-19
144	EHC-9805-111	260-3753	5/4/1998	DH-1
1086	EHC-9805-112	262-3786	5/12/1998	DH-21
258	EHC-9805-113	262-3787	5/11/1998	DH-22
267	EHC-9805-114	260-3754	5/7/1998	DH-23
280	EHC-9805-115	262-3788	5/11/1998	DH-24
1099	EHC-9805-116	262-3792	5/11/1998	DH-27
300	EHC-9805-117	262-3789	5/11/1998	DH-28

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326	EHC-9805-119	260-3756	5/5/1998	DH-3
487	EHC-9805-120	260-3757	5/6/1998	DH-6
537	EHC-9805-121	260-3758	5/4/1998	DH-7
554	EHC-9805-122	260-3759	5/5/1998	DH-8
567	EHC-9805-123	260-3760	5/7/1998	DH-9
598	EHC-9805-126	260-3761	5/6/1998	EH-102
718	EHC-9805-127	260-3762	5/5/1998	EH-50
731	EHC-9805-128	260-3763	5/6/1998	EH-51
745	EHC-9805-129	260-3764	5/6/1998	EH-52
759	EHC-9805-130	261-3765	5/4/1998	EH-53
773	EHC-9805-131	261-3766	5/4/1998	EH-54
785	EHC-9805-132	261-3767	5/5/1998	EH-57A
797	EHC-9805-133	261-3768	5/4/1998	EH-58
809	EHC-9805-134	261-3769	5/4/1998	EH-59
823	EHC-9805-135	261-3770	5/6/1998	EH-60
836	EHC-9805-136	805027-5	5/6/1998	EH-61
846	EHC-9805-137	261-3771	5/6/1998	EH-62
231	EHC-9805-145	261-3772	5/4/1998	DH-2
1073	EHC-9805-147	261-3774	5/5/1998	DH-18
823	EHC-9805-150	261-3777	5/6/1998	EH-60
268	EHC-9805-151	261-3778	5/7/1998	DH-23
205	EHC-9805-154	262-3796	5/11/1998	DH-17
1086	EHC-9805-156	262-3798	5/12/1998	DH-21
16	EHC-9805-200	262-3800	5/13/1998	APSD-10
26	EHC-9805-201	263-3801	5/13/1998	APSD-11
35	EHC-9805-202	263-3802	5/13/1998	APSD-12
44	EHC-9805-203	263-3803	5/13/1998	APSD-13
6	EHC-9805-204	263-3804	5/13/1998	APSD-1
60	EHC-9805-205	263-3805	5/13/1998	APSD-2
73	EHC-9805-206	263-3806	5/13/1998	APSD-3
83	EHC-9805-207	263-3807	5/13/1998	APSD-4
105	EHC-9805-208	263-3808	5/13/1998	APSD-7
121	EHC-9805-209	263-3809	5/13/1998	APSD-8
131	EHC-9805-210	263-3810	5/13/1998	APSD-9
246	EHC-9805-211	263-3811	5/13/1998	DH-20
311	EHC-9805-212	263-3812	5/13/1998	DH-29
363	EHC-9805-213	263-3813	5/13/1998	DH-4
419	EHC-9805-214	263-3814	5/13/1998	DH-5
365	EHC-9805-218	264-3824	5/13/1998	DH-4
184	EHC-9805-300	263-3816	5/13/1998	DH-14
156	EHC-9811-102	312-4437	11/19/1998	DH-10A
168	EHC-9811-103	310-4397	11/17/1998	DH-11

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1060	EHC-9811-105	314-4463	11/19/1998	DH-13
205	EHC-9811-106	312-4439	11/20/1998	DH-17
1073	EHC-9811-108	310-4398	11/18/1998	DH-18
217	EHC-9811-109	314-4464	11/19/1998	DH-19
144	EHC-9811-110	310-4399	11/16/1998	DH-1
1086	EHC-9811-111	314-4465	11/20/1998	DH-21
258	EHC-9811-112	314-4466	11/20/1998	DH-22
268	EHC-9811-113	314-4467	11/19/1998	DH-23
280	EHC-9811-114	312-4440	11/20/1998	DH-24
1099	EHC-9811-115	314-4468	11/20/1998	DH-27
300	EHC-9811-116	311-4432	11/20/1998	DH-28
232	EHC-9811-117	310-4400	11/16/1998	DH-2
326	EHC-9811-118	310-4401	11/18/1998	DH-3
487	EHC-9811-119	312-4441	11/19/1998	DH-6
537	EHC-9811-120	310-4402	11/17/1998	DH-7
554	EHC-9811-121	310-4403	11/18/1998	DH-8
567	EHC-9811-122	312-4442	11/19/1998	DH-9
599	EHC-9811-125	310-4404	11/17/1998	EH-102
718	EHC-9811-126	310-4405	11/17/1998	EH-50
731	EHC-9811-127	311-4433	11/19/1998	EH-51
745	EHC-9811-128	312-4443	11/19/1998	EH-52
760	EHC-9811-129	310-4406	11/17/1998	EH-53
773	EHC-9811-130	310-4407	11/17/1998	EH-54
785	EHC-9811-131	310-4408	11/17/1998	EH-57A
797	EHC-9811-132	310-4409	11/17/1998	EH-58
809	EHC-9811-133	310-4410	11/17/1998	EH-59
823	EHC-9811-134	311-4434	11/19/1998	EH-60
836	EHC-9811-135	811076-4	11/19/1998	EH-61
846	EHC-9811-136	310-4411	11/18/1998	EH-62
232	EHC-9811-145	310-4413	11/16/1998	DH-2
797	EHC-9811-146	310-4414	11/17/1998	EH-58
326	EHC-9811-148	310-4416	11/18/1998	DH-3
1051	EHC-9811-151	312-4444	11/19/1998	DH-12
280	EHC-9811-153	312-4445	11/20/1998	DH-24
17	EHC-9811-200	311-4429	11/19/1998	APSD-10
26	EHC-9811-201	311-4430	11/19/1998	APSD-11
35	EHC-9811-202	311-4431	11/19/1998	APSD-12
44	EHC-9811-203	313-4452	11/20/1998	APSD-13
6	EHC-9811-204	313-4453	11/20/1998	APSD-1
60	EHC-9811-205	313-4454	11/20/1998	APSD-2
73	EHC-9811-206	313-4455	11/20/1998	APSD-3
84	EHC-9811-207	313-4456	11/20/1998	APSD-4

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121	EHC-9811-209	314-4459	11/19/1998	APSD-8
131	EHC-9811-210	313-4446	11/19/1998	APSD-9
246	EHC-9811-211	313-4457	11/20/1998	DH-20
311	EHC-9811-212	314-4460	11/20/1998	DH-29
365	EHC-9811-213	313-4447	11/19/1998	DH-4
419	EHC-9811-214	313-4448	11/19/1998	DH-5
105	EHC-9811-221	313-4449	11/19/1998	APSD-7
246	EHC-9811-222	314-4461	11/20/1998	DH-20
184	EHC-9811-300	313-4450	11/19/1998	DH-14
156	EHC-9905-102	347-4886	5/10/1999	DH-10A
168	EHC-9905-103	346-4869	5/7/1999	DH-11
1051	EHC-9905-104	347-4897	5/11/1999	DH-12
1060	EHC-9905-105	347-4898	5/11/1999	DH-13
205	EHC-9905-106	347-4899	5/11/1999	DH-17
1073	EHC-9905-108	347-4887	5/10/1999	DH-18
218	EHC-9905-109	347-4900	5/11/1999	DH-19
144	EHC-9905-110	346-4870	5/7/1999	DH-1
1086	EHC-9905-111	347-4901	5/11/1999	DH-21
258	EHC-9905-112	347-4902	5/11/1999	DH-22
268	EHC-9905-113	347-4888	5/10/1999	DH-23
280	EHC-9905-114	347-4903	5/11/1999	DH-24
1099	EHC-9905-115	347-4904	5/11/1999	DH-27
300	EHC-9905-116	347-4905	5/11/1999	DH-28
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326	EHC-9905-118	346-4880	5/8/1999	DH-3
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538	EHC-9905-120	346-4872	5/7/1999	DH-7
554	EHC-9905-121	347-4890	5/10/1999	DH-8
567	EHC-9905-122	347-4891	5/10/1999	DH-9
599	EHC-9905-125	346-4881	5/8/1999	EH-102
718	EHC-9905-126	346-4882	5/8/1999	EH-50
731	EHC-9905-127	347-4892	5/10/1999	EH-51
745	EHC-9905-128	347-4893	5/10/1999	EH-52
760	EHC-9905-129	346-4873	5/7/1999	EH-53
773	EHC-9905-130	346-4874	5/7/1999	EH-54
785	EHC-9905-131	346-4875	5/7/1999	EH-57A
798	EHC-9905-132	346-4876	5/7/1999	EH-58
809	EHC-9905-133	346-4877	5/7/1999	EH-59
823	EHC-9905-134	347-4894	5/10/1999	EH-60
836	EHC-9905-135	905024-3	5/10/1999	EH-61
846	EHC-9905-136	346-4885	5/8/1999	EH-62
168	EHC-9905-144	346-4878	5/7/1999	DH-11

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823	EHC-9905-148	347-4895	5/10/1999	EH-60
280	EHC-9905-150	348-4906	5/11/1999	DH-24
17	EHC-9905-200	348-4915	5/12/1999	APSD-10
26	EHC-9905-201	348-4916	5/12/1999	APSD-11
35	EHC-9905-202	348-4917	5/12/1999	APSD-12
44	EHC-9905-203	348-4918	5/12/1999	APSD-13
6	EHC-9905-204	348-4919	5/12/1999	APSD-1
60	EHC-9905-205	348-4920	5/12/1999	APSD-2
73	EHC-9905-206	348-4921	5/12/1999	APSD-3
84	EHC-9905-207	348-4922	5/12/1999	APSD-4
105	EHC-9905-208	348-4923	5/12/1999	APSD-7
121	EHC-9905-209	348-4924	5/12/1999	APSD-8
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246	EHC-9905-211	349-4926	5/12/1999	DH-20
311	EHC-9905-212	349-4927	5/12/1999	DH-29
365	EHC-9905-213	349-4928	5/12/1999	DH-4
419	EHC-9905-214	349-4929	5/12/1999	DH-5
365	EHC-9905-218	349-4933	5/12/1999	DH-4
184	EHC-9905-300	349-4935	5/12/1999	DH-14
17	EHC-9911-102	L992055001	11/17/1999	APSD-10
26	EHC-9911-103	L992055002	11/17/1999	APSD-11
35	EHC-9911-104	L992055003	11/17/1999	APSD-12
44	EHC-9911-105	L992055004	11/17/1999	APSD-13
6	EHC-9911-106	L992055005	11/17/1999	APSD-1
60	EHC-9911-107	L992055006	11/17/1999	APSD-2
74	EHC-9911-108	L992055007	11/17/1999	APSD-3
84	EHC-9911-109	L992055008	11/17/1999	APSD-4
106	EHC-9911-110	L992055009	11/17/1999	APSD-7
121	EHC-9911-111	L992055010	11/17/1999	APSD-8
132	EHC-9911-112	L992055011	11/17/1999	APSD-9
156	EHC-9911-113	L992007002	11/11/1999	DH-10A
168	EHC-9911-114	L992007003	11/9/1999	DH-11
1051	EHC-9911-115	L992007004	11/12/1999	DH-12
1060	EHC-9911-116	L992007005	11/12/1999	DH-13
184	EHC-9911-117	L992055012	11/17/1999	DH-14
205	EHC-9911-118	L992007006	11/12/1999	DH-17
197	EHC-9911-119	9911-119	11/12/1999	DH-16
1073	EHC-9911-120	L992007007	11/10/1999	DH-18
218	EHC-9911-121	L992055013	11/16/1999	DH-19
144	EHC-9911-122	L992007008	11/8/1999	DH-1
247	EHC-9911-123	L992055014	11/17/1999	DH-20
1087	EHC-9911-124	L992007009	11/9/1999	DH-21

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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258	EHC-9911-125	L992055015	11/16/1999	DH-22
268	EHC-9911-126	L992007010	11/11/1999	DH-23
281	EHC-9911-127	L992007011	11/12/1999	DH-24
1100	EHC-9911-128	L992007012	11/12/1999	DH-27
300	EHC-9911-129	L992055016	11/16/1999	DH-28
311	EHC-9911-130	L992055017	11/17/1999	DH-29
232	EHC-9911-131	L992007013	11/8/1999	DH-2
326	EHC-9911-132	L992007014	11/10/1999	DH-3
365	EHC-9911-133	L992056001	11/17/1999	DH-4
419	EHC-9911-134	L992056002	11/17/1999	DH-5
487	EHC-9911-135	L992007015	11/11/1999	DH-6
538	EHC-9911-136	L992008001	11/8/1999	DH-7
554	EHC-9911-137	L992008002	11/10/1999	DH-8
567	EHC-9911-138	L992008003	11/11/1999	DH-9
599	EHC-9911-141	L992008006	11/9/1999	EH-102
718	EHC-9911-142	L992008007	11/10/1999	EH-50
731	EHC-9911-143	L992008008	11/11/1999	EH-51
745	EHC-9911-144	L992008009	11/11/1999	EH-52
760	EHC-9911-145	L992008010	11/9/1999	EH-53
773	EHC-9911-146	L992008011	11/9/1999	EH-54
785	EHC-9911-147	L992008012	11/9/1999	EH-57A
798	EHC-9911-148	L992008013	11/8/1999	EH-58
809	EHC-9911-149	L992008014	11/9/1999	EH-59
823	EHC-9911-150	L992008015	11/11/1999	EH-60
836	EHC-9911-151	911050-3	11/11/1999	EH-61
847	EHC-9911-152	L992009001	11/10/1999	EH-62
538	EHC-9911-168	L992009004	11/8/1999	DH-7
599	EHC-9911-170	L992009006	11/9/1999	EH-102
847	EHC-9911-172	L992009008	11/10/1999	EH-62
824	EHC-9911-174	L992009010	11/11/1999	EH-60
281	EHC-9911-176	L992009012	11/12/1999	DH-24
258	EHC-9911-179	L992056011	11/16/1999	DH-22
365	EHC-9911-181	L992056013	11/17/1999	DH-4
507	EHDM-0212-100	L021012001	12/11/2002	DH-64
507	EHDM-0212-101	L021012002	12/11/2002	DH-64
507	EHDM-0212-102	L021012003	12/11/2002	DH-64
508	EHDM-0212-103	L021012004	12/11/2002	DH-64
637	EHDM-0212-200	L021012005	12/11/2002	EH-109
637	EHDM-0212-201	L021012006	12/11/2002	EH-109
637	EHDM-0212-202	L021012007	12/11/2002	EH-109
637	EHDM-0212-203	L021012008	12/11/2002	EH-109
637	EHDM-0212-204	L021012009	12/11/2002	EH-109
638	EHDM-0212-205	L021012010	12/11/2002	EH-109

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673	EHIM-0210-101	L020870001	10/15/2002	EH-114
522	EHIM-0210-200	L020846001	10/7/2002	DH-67
619	EHIM-0210-201	L020846002	10/7/2002	EH-106
681	EHIM-0210-300	L020894001	10/24/2002	EH-115
666	EHIM-0210-301	L020894002	10/24/2002	EH-113
506	EHMP-0211-100	L020926001	11/5/2002	DH-64
507	EHMP-0211-101	L020926002	11/5/2002	DH-64
507	EHMP-0211-102	L020926003	11/5/2002	DH-64
507	EHMP-0211-103	L020926004	11/5/2002	DH-64
636	EHMP-0211-200	L020926005	11/5/2002	EH-109
636	EHMP-0211-201	L020926006	11/5/2002	EH-109
636	EHMP-0211-202	L020926007	11/5/2002	EH-109
636	EHMP-0211-203	L020926008	11/5/2002	EH-109
636	EHMP-0211-204	L020926009	11/5/2002	EH-109
636	EHMP-0211-205	L020926010	11/5/2002	EH-109
619	EHMP-0211-300	L020941001	11/11/2002	EH-106
621	EHMP-0211-301	L020941002	11/11/2002	EH-106
621	EHMP-0211-302	L020941003	11/11/2002	EH-106
621	EHMP-0211-303	L020941004	11/11/2002	EH-106
621	EHMP-0211-304	L020941005	11/11/2002	EH-106
621	EHMP-0211-305	L020941006	11/11/2002	EH-106
649	EHMP-0211-400	L020941007	11/11/2002	EH-111
649	EHMP-0211-401	L020941008	11/11/2002	EH-111
649	EHMP-0211-402	L020941009	11/11/2002	EH-111
651	EHMP-0211-403	L020941010	11/11/2002	EH-111
575	EHMP-0211-500	L020941011	11/12/2002	EH-100
575	EHMP-0211-501	L020941012	11/12/2002	EH-100
575	EHMP-0211-502	L020941013	11/12/2002	EH-100
575	EHMP-0211-503	L020941014	11/12/2002	EH-100
575	EHMP-0211-504	L020941015	11/12/2002	EH-100
951	EHST-0005-100	L000720001	5/10/2000	STW-1
973	EHST-0005-101	L000720002	5/10/2000	STW-3
1005	EHST-0005-102	L000720003	5/10/2000	STW-6
995	EHST-0005-103	L000720004	5/10/2000	STW-5
984	EHST-0005-104	L000720005	5/10/2000	STW-4
962	EHST-0005-105	L000720006	5/10/2000	STW-2
951	EHST-0005-110	L000759001	5/18/2000	STW-1
997	EHST-0005-111	L000759002	5/18/2000	STW-5
984	EHST-0005-112	L000759003	5/18/2000	STW-4
962	EHST-0005-113	L000759004	5/18/2000	STW-2
973	EHST-0005-114	L000759005	5/18/2000	STW-3
1005	EHST-0005-115	L000759006	5/18/2000	STW-6
425	EHST-0005-117	L000759008	5/18/2000	DH-50

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425	EHST-0005-118	L000759009	5/18/2000	DH-50
425	EHST-0005-120	L000825001	5/30/2000	DH-50
985	EHST-0005-121	L000825002	5/30/2000	STW-4
997	EHST-0005-122	L000825003	5/30/2000	STW-5
1005	EHST-0005-123	L000825004	5/30/2000	STW-6
973	EHST-0005-124	L000825005	5/30/2000	STW-3
962	EHST-0005-125	L000825006	5/30/2000	STW-2
951	EHST-0005-126	L000825007	5/30/2000	STW-1
953	EHST-0005-127	L000825008	5/30/2000	STW-1
942	EHST-0005-129	L000825010	5/30/2000	SPARGE 3
425	EHST-0006-100	L000882001	6/6/2000	DH-50
997	EHST-0006-101	L000882002	6/6/2000	STW-5
985	EHST-0006-102	L000882003	6/6/2000	STW-4
962	EHST-0006-103	L000882004	6/6/2000	STW-2
1005	EHST-0006-104	L000882005	6/6/2000	STW-6
1006	EHST-0006-105	L000882006	6/6/2000	STW-6
973	EHST-0006-106	L000882007	6/6/2000	STW-3
953	EHST-0006-108	L000882009	6/6/2000	STW-1
425	EHST-0006-200	L000910001	6/13/2000	DH-50
997	EHST-0006-201	L000910002	6/13/2000	STW-5
1006	EHST-0006-202	L000910003	6/13/2000	STW-6
974	EHST-0006-203	L000910004	6/13/2000	STW-3
962	EHST-0006-204	L000910005	6/13/2000	STW-2
985	EHST-0006-205	L000910000	6/13/2000	STW-4
985	EHST-0006-206	L000910007	6/13/2000	STW-4
953	EHST-0006-207	L000910008	6/13/2000	STW-1
824	EHST-0006-300	L000964001	6/21/2000	EH-60
435	EHST-0006-301	L000964002	6/21/2000	DH-51
426	EHST-0006-302	L000964003	6/21/2000	DH-50
997	EHST-0006-303	L000964004	6/21/2000	STW-5
1006	EHST-0006-304	L000964005	6/21/2000	STW-6
974	EHST-0006-305	L000964006	6/21/2000	STW-3
962	EHST-0006-306	L000964007	6/21/2000	STW-2
985	EHST-0006-307	L000964008	6/21/2000	STW-4
985	EHST-0006-307	P000343	6/21/2000	STW-4
953	EHST-0006-308	L000964009	6/21/2000	STW-1
281	EHST-0006-310	L000964011	6/21/2000	DH-24
426	EHST-0006-400	L001003001	6/29/2000	DH-50
997	EHST-0006-401	L001003002	6/29/2000	STW-5
1006	EHST-0006-402	L001003003	6/29/2000	STW-6
974	EHST-0006-403	L001003004	6/29/2000	STW-3
963	EHST-0006-404	L001003005	6/29/2000	STW-2
986	EHST-0006-405	L001003006	6/29/2000	STW-4

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953	EHST-0006-407	L001003008	6/29/2000	STW-1
953	EHST-0006-408	L001003009	6/29/2000	STW-1
426	EHST-0007-100	L001116001	7/13/2000	DH-50
998	EHST-0007-101	L001116002	7/13/2000	STW-5
1006	EHST-0007-102	L001116003	7/13/2000	STW-6
974	EHST-0007-103	L001116004	7/13/2000	STW-3
963	EHST-0007-104	L001116005	7/13/2000	STW-2
986	EHST-0007-105	L001116006	7/13/2000	STW-4
986	EHST-0007-106	L001116007	7/13/2000	STW-4
954	EHST-0007-108	L001116009	7/13/2000	STW-1
426	EHST-0007-200	L001190001	7/24/2000	DH-50
998	EHST-0007-201	L001190002	7/24/2000	STW-5
986	EHST-0007-202	L001190003	7/24/2000	STW-4
963	EHST-0007-203	L001190004	7/24/2000	STW-2
974	EHST-0007-204	L001190005	7/24/2000	STW-3
974	EHST-0007-205	L001190006	7/24/2000	STW-3
1006	EHST-0007-206	L001190007	7/24/2000	STW-6
954	EHST-0007-208	L001190009	7/24/2000	STW-1
824	EHST-0008-100	L001239001	8/3/2000	EH-60
426	EHST-0008-101	L001239002	8/3/2000	DH-50
998	EHST-0008-102	L001239003	8/3/2000	STW-5
1007	EHST-0008-103	L001239004	8/3/2000	STW-6
975	EHST-0008-104	L001239005	8/3/2000	STW-3
963	EHST-0008-105	L001239006	8/3/2000	STW-2
986	EHST-0008-106	L001239007	8/3/2000	STW-4
954	EHST-0008-108	L001239009	8/3/2000	STW-1
942	EHST-0008-109	L001239010	8/3/2000	SPARGE 3
943	EHST-0008-110	L001239011	8/3/2000	SPARGE 3
281	EHST-0008-111	L001239012	8/3/2000	DH-24
824	EHST-0008-200	L001333001	8/16/2000	EH-60
426	EHST-0008-201	L001333002	8/16/2000	DH-50
998	EHST-0008-202	L001333003	8/16/2000	STW-5
1007	EHST-0008-203	L001333004	8/16/2000	STW-6
975	EHST-0008-204	L001333005	8/16/2000	STW-3
963	EHST-0008-205	L001333006	8/16/2000	STW-2
986	EHST-0008-206	L001333007	8/16/2000	STW-4
954	EHST-0008-208	L001333009	8/16/2000	STW-1
943	EHST-0008-209	L001333010	8/16/2000	SPARGE 3
282	EHST-0008-210	L001333011	8/16/2000	DH-24
282	EHST-0008-211	L001333012	8/16/2000	DH-24
824	EHST-0008-300	L001441001	8/31/2000	EH-60
427	EHST-0008-301	L001441002	8/31/2000	DH-50
987	EHST-0008-302	L001441003	8/31/2000	STW-4

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1007	EHST-0008-304	L001441005	8/31/2000	STW-6
975	EHST-0008-305	L001441006	8/31/2000	STW-3
963	EHST-0008-306	L001441007	8/31/2000	STW-2
954	EHST-0008-307	L001441008	8/31/2000	STW-1
943	EHST-0008-309	L001441010	8/31/2000	SPARGE 3
282	EHST-0008-310	L001441011	8/31/2000	DH-24
282	EHST-0008-311	L001441012	8/31/2000	DH-24
825	EHST-0009-100	L001513001	9/13/2000	EH-60
427	EHST-0009-101	L001513002	9/13/2000	DH-50
998	EHST-0009-102	L001513003	9/13/2000	STW-5
1007	EHST-0009-103	L001513004	9/13/2000	STW-6
975	EHST-0009-104	L001513005	9/13/2000	STW-3
964	EHST-0009-105	L001513006	9/13/2000	STW-2
964	EHST-0009-106	L001513007	9/13/2000	STW-2
987	EHST-0009-107	L001513008	9/13/2000	STW-4
954	EHST-0009-109	L001513010	9/13/2000	STW-1
943	EHST-0009-110	L001513011	9/13/2000	SPARGE 3
282	EHST-0009-111	L001513012	9/13/2000	DH-24
718	EHST-0009-200	L001585001	9/22/2000	EH-50
825	EHST-0009-201	L001585002	9/22/2000	EH-60
282	EHST-0009-202	L001585003	9/22/2000	DH-24
283	EHST-0009-203	L001585004	9/22/2000	DH-24
943	EHST-0009-205	L001585006	9/22/2000	SPARGE 3
825	EHST-0010-100	L001649001	10/3/2000	EH-60
427	EHST-0010-101	L001649002	10/3/2000	DH-50
987	EHST-0010-102	L001649003	10/3/2000	STW-4
964	EHST-0010-103	L001649004	10/3/2000	STW-2
975	EHST-0010-104	L001649005	10/3/2000	STW-3
1007	EHST-0010-105	L001649006	10/3/2000	STW-6
999	EHST-0010-106	L001649007	10/3/2000	STW-5
955	EHST-0010-107	L001649008	10/3/2000	STW-1
283	EHST-0010-108	L001649009	10/3/2000	DH-24
283	EHST-0010-109	L001649010	10/3/2000	DH-24
943	EHST-0010-111	L001649012	10/3/2000	SPARGE 3
719	EHST-0010-200	L001753001	10/17/2000	EH-50
825	EHST-0010-201	L001753002	10/17/2000	EH-60
944	EHST-0010-202	L001753003	10/17/2000	SPARGE 3
283	EHST-0010-204	L001753005	10/17/2000	DH-24
283	EHST-0010-205	L001753006	10/17/2000	DH-24
719	EHST-0011-100	L001861001	11/3/2000	EH-50
825	EHST-0011-101	L001861002	11/3/2000	EH-60
427	EHST-0011-102	L001861003	11/3/2000	DH-50

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955	EHST-0011-104	L001861005	11/3/2000	STW-1
944	EHST-0011-105	L001861006	11/3/2000	SPARGE 3
944	EHST-0011-106	L001861007	11/3/2000	SPARGE 3
283	EHST-0011-108	L001861009	11/3/2000	DH-24
826	EHST-0012-100	L002044001	12/20/2000	EH-60
955	EHST-0012-101	L002044002	12/20/2000	STW-1
427	EHST-0012-102	L002044003	12/20/2000	DH-50
987	EHST-0012-103	L002044004	12/20/2000	STW-4
999	EHST-0012-104	L002044005	12/20/2000	STW-5
964	EHST-0012-106	L002044007	12/20/2000	STW-2
1007	EHST-0012-107	L002044008	12/20/2000	STW-6
975	EHST-0012-108	L002044009	12/20/2000	STW-3
944	EHST-0012-109	L002044010	12/20/2000	SPARGE 3
944	EHST-0012-110	L002044011	12/20/2000	SPARGE 3
284	EHST-0012-111	L002044012	12/20/2000	DH-24
826	EHST-0102-101	L010183002	2/7/2001	EH-60
944	EHST-0102-102	L010183003	2/7/2001	SPARGE 3
284	EHST-0102-103	L010183004	2/7/2001	DH-24
428	EHST-0102-104	L010183005	2/7/2001	DH-50
428	EHST-0102-105	L010183006	2/7/2001	DH-50
987	EHST-0102-106	L010183007	2/7/2001	STW-4
999	EHST-0102-107	L010183008	2/7/2001	STW-5
955	EHST-0102-108	L010183009	2/7/2001	STW-1
206	EHST-0102-110	L010183011	2/7/2001	DH-17
1087	EHST-0102-111	L010183012	2/7/2001	DH-21
219	EHST-0102-112	L010183013	2/7/2001	DH-19R
428	EHST-0109-100	L011367001	9/26/2001	DH-50
988	EHST-0109-101	L011367002	9/26/2001	STW-4
999	EHST-0109-102	L011367003	9/26/2001	STW-5
1008	EHST-0109-103	L011367004	9/26/2001	STW-6
976	EHST-0109-104	L011367005	9/26/2001	STW-3
965	EHST-0109-105	L011367006	9/26/2001	STW-2
1038	EHST-0109-106	L011367007	9/26/2001	STW-9
1026	EHST-0109-107	L011367008	9/26/2001	STW-8
1013	EHST-0109-108	L011367009	9/26/2001	STW-7
955	EHST-0109-109	L011367010	9/26/2001	STW-1
945	EHST-0109-110	L011367011	9/26/2001	SPARGE 3
284	EHST-0109-111	L011367012	9/26/2001	DH-24
284	EHST-0109-112	L011367013	9/26/2001	DH-24
945	EHST-0110-100	FIELD ONLY	10/19/2001	SPARGE 3
965	EHST-0110-101	FIELD ONLY	10/19/2001	STW-2
976	EHST-0110-102	FIELD ONLY	10/19/2001	STW-3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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988	EHST-0110-103	FIELD ONLY	10/19/2001	STW-4
999	EHST-0110-104	FIELD ONLY	10/19/2001	STW-5
1008	EHST-0110-105	FIELD ONLY	10/19/2001	STW-6
1013	EHST-0110-106	FIELD ONLY	10/19/2001	STW-7
1026	EHST-0110-107	FIELD ONLY	10/19/2001	STW-8
1038	EHST-0110-108	FIELD ONLY	10/19/2001	STW-9
286	EHST-0110-109	FIELD ONLY	10/19/2001	DH-24
428	EHST-0110-110	FIELD ONLY	10/19/2001	DH-50
945	EHST-0111-100	FIELD ONLY	11/2/2001	SPARGE 3
956	EHST-0111-101	FIELD ONLY	11/2/2001	STW-1
965	EHST-0111-102	FIELD ONLY	11/2/2001	STW-2
976	EHST-0111-103	FIELD ONLY	11/2/2001	STW-3
988	EHST-0111-104	FIELD ONLY	11/2/2001	STW-4
1000	EHST-0111-105	FIELD ONLY	11/2/2001	STW-5
1008	EHST-0111-106	FIELD ONLY	11/2/2001	STW-6
1013	EHST-0111-107	FIELD ONLY	11/2/2001	STW-7
1026	EHST-0111-108	FIELD ONLY	11/2/2001	STW-8
1038	EHST-0111-109	FIELD ONLY	11/2/2001	STW-9
286	EHST-0111-110	FIELD ONLY	11/2/2001	DH-24
428	EHST-0111-111	FIELD ONLY	11/2/2001	DH-50
945	EHST-0111-200	L011587001	11/20/2001	SPARGE 3
286	EHST-0111-201	L011587002	11/20/2001	DH-24
429	EHST-0111-202	L011587003	11/20/2001	DH-50
988	EHST-0111-203	L011587004	11/20/2001	STW-4
1026	EHST-0111-204	L011587005	11/20/2001	STW-8
1000	EHST-0111-205	L011587006	11/20/2001	STW-5
1008	EHST-0111-206	L011587007	11/20/2001	STW-6
1014	EHST-0111-207	L011587008	11/20/2001	STW-7
976	EHST-0111-208	L011587009	11/20/2001	STW-3
965	EHST-0111-209	L011587010	11/20/2001	STW-2
956	EHST-0111-210	L011587011	11/20/2001	STW-1
1038	EHST-0111-211	L011587012	11/20/2001	STW-9
965	EHST-0111-300	L011606001	11/30/2001	STW-2
976	EHST-0111-301	L011606002	11/30/2001	STW-3
1014	EHST-0111-302	L011606003	11/30/2001	STW-7
1026	EHST-0111-303	L011606004	11/30/2001	STW-8
1038	EHST-0111-304	L011606005	11/30/2001	STW-9
965	EHST-0112-100	L011614001	12/4/2001	STW-2
977	EHST-0112-101	L011614002	12/4/2001	STW-3
1014	EHST-0112-102	L011614003	12/4/2001	STW-7
1026	EHST-0112-103	L011614004	12/4/2001	STW-8
1039	EHST-0112-104	L011614005	12/4/2001	STW-9
286	EHST-0112-200	L011626001	12/7/2001	DH-24

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429	EHST-0112-202	L011626003	12/7/2001	DH-50
988	EHST-0112-203	L011626004	12/7/2001	STW-4
1000	EHST-0112-204	L011626005	12/7/2001	STW-5
1008	EHST-0112-205	L011626006	12/7/2001	STW-6
966	EHST-0112-206	L011626007	12/7/2001	STW-2
1039	EHST-0112-207	L011626008	12/7/2001	STW-9
977	EHST-0112-208	L011626009	12/7/2001	STW-3
1027	EHST-0112-209	L011626010	12/7/2001	STW-8
1014	EHST-0112-210	L011626011	12/7/2001	STW-7
956	EHST-0112-211	L011626012	12/7/2001	STW-1
966	EHST-0112-250	FIELD ONLY	12/12/2001	STW-2
977	EHST-0112-251	FIELD ONLY	12/12/2001	STW-3
1014	EHST-0112-252	FIELD ONLY	12/12/2001	STW-7
1027	EHST-0112-253	FIELD ONLY	12/12/2001	STW-8
1039	EHST-0112-254	FIELD ONLY	12/12/2001	STW-9
429	EHST-0112-300	L011652001	12/14/2001	DH-50
989	EHST-0112-301	L011652002	12/14/2001	STW-4
1000	EHST-0112-302	L011652003	12/14/2001	STW-5
1009	EHST-0112-303	L011652004	12/14/2001	STW-6
966	EHST-0112-304	L011652005	12/14/2001	STW-2
1039	EHST-0112-305	L011652006	12/14/2001	STW-9
977	EHST-0112-306	L011652007	12/14/2001	STW-3
1027	EHST-0112-307	L011652008	12/14/2001	STW-8
1014	EHST-0112-308	L011652009	12/14/2001	STW-7
286	EHST-0112-400	L011661001	12/19/2001	DH-24
946	EHST-0112-401	L011661002	12/19/2001	SPARGE 3
429	EHST-0112-402	L011661003	12/19/2001	DH-50
989	EHST-0112-403	L011661004	12/19/2001	STW-4
1039	EHST-0112-404	L011661005	12/19/2001	STW-9
966	EHST-0112-405	L011661006	12/19/2001	STW-2
1000	EHST-0112-406	L011661007	12/19/2001	STW-5
1009	EHST-0112-407	L011661008	12/19/2001	STW-6
977	EHST-0112-408	L011661009	12/19/2001	STW-3
1027	EHST-0112-409	L011661010	12/19/2001	STW-8
1015	EHST-0112-410	L011661011	12/19/2001	STW-7
956	EHST-0112-411	L011661012	12/19/2001	STW-1
429	EHST-0112-500	L011677001	12/27/2001	DH-50
989	EHST-0112-501	L011677002	12/27/2001	STW-4
1000	EHST-0112-502	L011677003	12/27/2001	STW-5
1009	EHST-0112-503	L011677004	12/27/2001	STW-6
966	EHST-0112-504	L011677005	12/27/2001	STW-2
1039	EHST-0112-505	L011677006	12/27/2001	STW-9

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1027	EHST-0112-507	L011677008	12/27/2001	STW-8
1015	EHST-0112-508	L011677009	12/27/2001	STW-7
956	EHST-0201-100	L020025001	1/10/2002	STW-1
1015	EHST-0201-101	L020025002	1/10/2002	STW-7
1027	EHST-0201-102	L020025003	1/10/2002	STW-8
989	EHST-0201-103	L020025004	1/10/2002	STW-4
1001	EHST-0201-104	L020025005	1/10/2002	STW-5
966	EHST-0201-105	L020025006	1/10/2002	STW-2
1040	EHST-0201-106	L020025007	1/10/2002	STW-9
978	EHST-0201-107	L020025008	1/10/2002	STW-3
1009	EHST-0201-108	L020025009	1/10/2002	STW-6
946	EHST-0201-109	L020024001	1/10/2002	SPARGE 3
287	EHST-0201-110	L020024002	1/10/2002	DH-24
430	EHST-0201-111	L020024003	1/11/2002	DH-50
430	EHST-0201-200	L020027001	1/16/2002	DH-50
1028	EHST-0201-201	L020027002	1/16/2002	STW-8
1015	EHST-0201-202	L020027003	1/16/2002	STW-7
989	EHST-0201-203	L020027004	1/16/2002	STW-4
1001	EHST-0201-204	L020027005	1/16/2002	STW-5
1040	EHST-0201-205	L020027006	1/16/2002	STW-9
967	EHST-0201-206	L020027007	1/16/2002	STW-2
978	EHST-0201-207	L020027008	1/16/2002	STW-3
1009	EHST-0201-208	L020027009	1/16/2002	STW-6
1009	EHST-0201-209	L020027010	1/16/2002	STW-6
956	EHST-0201-300	L020042001	1/23/2002	STW-1
1015	EHST-0201-301	L020042002	1/23/2002	STW-7
1028	EHST-0201-302	L020042003	1/23/2002	STW-8
989	EHST-0201-303	L020042004	1/23/2002	STW-4
1001	EHST-0201-304	L020042005	1/23/2002	STW-5
1010	EHST-0201-305	L020042006	1/23/2002	STW-6
978	EHST-0201-306	L020042007	1/23/2002	STW-3
1040	EHST-0201-307	L020042008	1/23/2002	STW-9
967	EHST-0201-308	L020042009	1/23/2002	STW-2
430	EHST-0201-309	L020042010	1/23/2002	DH-50
946	EHST-0201-310	L020042011	1/23/2002	SPARGE 3
287	EHST-0201-311	L020042012	1/23/2002	DH-24
287	EHST-0201-312	L020042013	1/23/2002	DH-24
1017	EHST-0202-100	L020118001	2/22/2002	STW-7
1029	EHST-0202-101	L020118002	2/22/2002	STW-8
1001	EHST-0202-102	L020118003	2/22/2002	STW-5
1041	EHST-0202-103	L020118004	2/22/2002	STW-9
968	EHST-0202-104	L020118005	2/22/2002	STW-2

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979	EHST-0202-105	L020118006	2/22/2002	STW-3
957	EHST-0202-200	L020142001	2/27/2002	STW-1
1029	EHST-0202-201	L020142002	2/27/2002	STW-8
1017	EHST-0202-202	L020142003	2/27/2002	STW-7
430	EHST-0202-203	L020142004	2/27/2002	DH-50
990	EHST-0202-204	L020142005	2/27/2002	STW-4
1002	EHST-0202-205	L020142006	2/27/2002	STW-5
1010	EHST-0202-206	L020142007	2/27/2002	STW-6
979	EHST-0202-207	L020142008	2/27/2002	STW-3
1041	EHST-0202-208	L020142009	2/27/2002	STW-9
968	EHST-0202-209	L020142010	2/27/2002	STW-2
287	EHST-0202-400	L020075001	2/5/2002	DH-24
946	EHST-0202-401	L020075002	2/5/2002	SPARGE 3
430	EHST-0202-402	L020075003	2/5/2002	DH-50
990	EHST-0202-403	L020075004	2/5/2002	STW-4
1001	EHST-0202-404	L020075005	2/5/2002	STW-5
1010	EHST-0202-405	L020075006	2/5/2002	STW-6
978	EHST-0202-406	L020075007	2/5/2002	STW-3
1040	EHST-0202-407	L020075008	2/5/2002	STW-9
967	EHST-0202-408	L020075009	2/5/2002	STW-2
1015	EHST-0202-409	L020075010	2/5/2002	STW-7
1016	EHST-0202-410	L020075011	2/5/2002	STW-7
1028	EHST-0202-411	L020075012	2/5/2002	STW-8
957	EHST-0202-412	L020075013	2/5/2002	STW-1
1016	EHST-0202-500	L020096001	2/12/2002	STW-7
1028	EHST-0202-501	L020096002	2/12/2002	STW-8
967	EHST-0202-502	L020096003	2/12/2002	STW-2
1040	EHST-0202-503	L020096004	2/12/2002	STW-9
978	EHST-0202-504	L020096005	2/12/2002	STW-3
967	EHST-0202-600	L020096006	2/13/2002	STW-2
1040	EHST-0202-601	L020096007	2/13/2002	STW-9
978	EHST-0202-602	L020096008	2/13/2002	STW-3
1028	EHST-0202-603	L020096009	2/13/2002	STW-8
1016	EHST-0202-604	L020096010	2/13/2002	STW-7
1041	EHST-0202-700	L020101001	2/14/2002	STW-9
967	EHST-0202-701	L020101002	2/14/2002	STW-2
979	EHST-0202-702	L020101003	2/14/2002	STW-3
1028	EHST-0202-703	L020101004	2/14/2002	STW-8
1016	EHST-0202-704	L020101005	2/14/2002	STW-7
1041	EHST-0202-800	L020101006	2/15/2002	STW-9
968	EHST-0202-801	L020101007	2/15/2002	STW-2
979	EHST-0202-802	L020101008	2/15/2002	STW-3
1029	EHST-0202-803	L020101009	2/15/2002	STW-8

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287	EHST-0202-900	L020110001	2/19/2002	DH-24
946	EHST-0202-901	L020110002	2/19/2002	SPARGE 3
430	EHST-0202-902	L020110003	2/19/2002	DH-50
1041	EHST-0202-903	L020110004	2/19/2002	STW-9
968	EHST-0202-904	L020110005	2/19/2002	STW-2
979	EHST-0202-905	L020110006	2/19/2002	STW-3
1010	EHST-0202-906	L020110007	2/19/2002	STW-6
1001	EHST-0202-907	L020110008	2/19/2002	STW-5
990	EHST-0202-908	L020110009	2/19/2002	STW-4
1029	EHST-0202-909	L020110010	2/19/2002	STW-8
1029	EHST-0202-910	L020110011	2/19/2002	STW-8
1016	EHST-0202-911	L020110012	2/19/2002	STW-7
957	EHST-0202-912	L020110013	2/19/2002	STW-1
287	EHST-0204-100	L020278001	4/19/2002	DH-24
946	EHST-0204-101	L020278002	4/19/2002	SPARGE 3
1041	EHST-0204-102	L020278003	4/19/2002	STW-9
968	EHST-0204-103	L020278004	4/19/2002	STW-2
1002	EHST-0204-104	L020278005	4/19/2002	STW-5
990	EHST-0204-105	L020278006	4/19/2002	STW-4
1010	EHST-0204-106	L020278007	4/19/2002	STW-6
979	EHST-0204-107	L020278008	4/19/2002	STW-3
1029	EHST-0204-108	L020278009	4/19/2002	STW-8
1017	EHST-0204-109	L020278010	4/19/2002	STW-7
957	EHST-0204-110	L020278011	4/19/2002	STW-1
288	EHST-0205-100	L020364001	5/10/2002	DH-24
947	EHST-0205-101	L020364002	5/10/2002	SPARGE 3
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990	EHST-0205-103	L020364004	5/10/2002	STW-4
980	EHST-0205-103A	205103	5/10/2002	STW-3
1030	EHST-0205-104	L020364005	5/10/2002	STW-8
1017	EHST-0205-105	L020364006	5/10/2002	STW-7
968	EHST-0205-106	205106	5/10/2002	STW-2
1010	EHST-0205-107	205107	5/10/2002	STW-6
1042	EHST-0205-108	205108	5/10/2002	STW-9
957	EHST-0205-110	205110	5/10/2002	STW-1
431	EHST-0205-111	205111	5/10/2002	DH-50
288	EHST-0206-100	L020426001	6/6/2002	DH-24
990	EHST-0206-101	L020426002	6/6/2002	STW-4
969	EHST-0206-102	L020426003	6/6/2002	STW-2
1002	EHST-0206-103	L020426004	6/6/2002	STW-5
1042	EHST-0206-104	L020426005	6/6/2002	STW-9
1011	EHST-0206-105	L020426006	6/6/2002	STW-6

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1030	EHST-0206-107	L020426008	6/6/2002	STW-8
1017	EHST-0206-108	L020426009	6/6/2002	STW-7
957	EHST-0206-109	206109	6/6/2002	STW-1
947	EHST-0206-110	206110	6/6/2002	SPARGE 3
1030	EHST-0207-100	L020591001	7/17/2002	STW-8
1017	EHST-0207-101	L020591002	7/17/2002	STW-7
958	EHST-0207-102	207102	7/17/2002	STW-1
980	EHST-0207-103	L020591003	7/17/2002	STW-3
991	EHST-0207-104	L020591004	7/17/2002	STW-4
969	EHST-0207-105	L020591005	7/17/2002	STW-2
1018	EHST-0207-200	L020591006	7/19/2002	STW-7
1030	EHST-0207-201	L020591007	7/19/2002	STW-8
1018	EHST-0207-300	L020594001	7/24/2002	STW-7
1030	EHST-0207-301	L020594002	7/24/2002	STW-8
969	EHST-0207-302	L020594003	7/24/2002	STW-2
991	EHST-0207-303	L020594004	7/24/2002	STW-4
980	EHST-0207-304	L020594005	7/24/2002	STW-3
958	EHST-0207-305	207305	7/24/2002	STW-1
1030	EHST-0207-400	L020594006	7/25/2002	STW-8
1018	EHST-0207-401	L020594007	7/25/2002	STW-7
1018	EHST-0207-500	L020606001	7/31/2002	STW-7
1031	EHST-0207-501	L020606002	7/31/2002	STW-8
980	EHST-0207-502	L020606003	7/31/2002	STW-3
969	EHST-0207-503	L020606004	7/31/2002	STW-2
991	EHST-0207-504	L020606005	7/31/2002	STW-4
1018	EHST-0207-600	L020606006	8/1/2002	STW-7
1031	EHST-0207-601	L020606007	8/1/2002	STW-8
288	EHST-0208-100	L020638001	8/8/2002	DH-24
947	EHST-0208-101	L020638002	8/8/2002	SPARGE 3
958	EHST-0208-102	L020638003	8/8/2002	STW-1
1031	EHST-0208-103	L020638004	8/8/2002	STW-8
1018	EHST-0208-104	L020638005	8/8/2002	STW-7
1042	EHST-0208-105	L020638006	8/8/2002	STW-9
969	EHST-0208-106	L020638007	8/8/2002	STW-2
1002	EHST-0208-107	L020638008	8/8/2002	STW-5
1002	EHST-0208-107RR	L020685001	8/8/2002	STW-5
991	EHST-0208-108	L020642001	8/8/2002	STW-4
431	EHST-0208-109	L020642002	8/8/2002	DH-50
980	EHST-0208-110	L020642003	8/8/2002	STW-3
1011	EHST-0208-111	L020642004	8/8/2002	STW-6
1031	EHST-0208-200	L020642005	8/9/2002	STW-8
1019	EHST-0208-201	L020642006	8/9/2002	STW-7

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1019	EHST-0208-300	L020650001	8/14/2002	STW-7
1031	EHST-0208-301	L020650002	8/14/2002	STW-8
981	EHST-0208-302	L020650003	8/14/2002	STW-3
969	EHST-0208-303	L020650004	8/14/2002	STW-2
991	EHST-0208-304	L020650005	8/14/2002	STW-4
1019	EHST-0208-400	L020650006	8/15/2002	STW-7
1031	EHST-0208-401	L020650007	8/15/2002	STW-8
1019	EHST-0208-500	L020686001	8/22/2002	STW-7
1032	EHST-0208-501	L020686002	8/22/2002	STW-8
970	EHST-0208-502	L020686005	8/22/2002	STW-2
981	EHST-0208-503	L020686003	8/22/2002	STW-3
991	EHST-0208-504	L020686004	8/22/2002	STW-4
1019	EHST-0208-600	L020705001	8/28/2002	STW-7
1032	EHST-0208-601	L020705002	8/28/2002	STW-8
970	EHST-0208-602	L020705003	8/28/2002	STW-2
981	EHST-0208-603	L020705004	8/28/2002	STW-3
992	EHST-0208-604	L020705005	8/28/2002	STW-4
1019	EHST-0209-100	L020731001	9/4/2002	STW-7
1032	EHST-0209-101	L020731002	9/4/2002	STW-8
970	EHST-0209-102	L020731003	9/4/2002	STW-2
981	EHST-0209-103	L020731004	9/5/2002	STW-3
992	EHST-0209-104	L020731005	9/4/2002	STW-4
1020	EHST-0209-200	L020749001	9/6/2002	STW-7
1032	EHST-0209-201	L020749002	9/6/2002	STW-8
288	EHST-0209-300	L020775001	9/12/2002	DH-24
1020	EHST-0209-301	L020775002	9/12/2002	STW-7
1032	EHST-0209-302	L020775003	9/12/2002	STW-8
1020	EHST-0209-400	L020785001	9/19/2002	STW-7
1032	EHST-0209-401	L020785002	9/19/2002	STW-8
992	EHST-0209-402	L020785003	9/19/2002	STW-4
970	EHST-0209-403	L020785004	9/19/2002	STW-2
981	EHST-0209-404	L020785005	9/19/2002	STW-3
1020	EHST-0209-500	L020785006	9/20/2002	STW-7
1033	EHST-0209-501	L020785007	9/20/2002	STW-8
288	EHST-0209-600	L020829001	9/26/2002	DH-24
289	EHST-0209-600A	L020829009	9/26/2002	DH-24
947	EHST-0209-601	L020829002	9/26/2002	SPARGE 3
431	EHST-0209-602	L020829003	9/26/2002	DH-50
1011	EHST-0209-603	L020829004	9/26/2002	STW-6
982	EHST-0209-604	L020829005	9/26/2002	STW-3
1003	EHST-0209-605	L020829006	9/26/2002	STW-5
1042	EHST-0209-606	L020829007	9/26/2002	STW-9
970	EHST-0209-607	L020829008	9/26/2002	STW-2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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1003	EHST-0209-608	L020829010	9/26/2002	STW-5
1033	EHST-0209-609	L020829011	9/26/2002	STW-8
1020	EHST-0209-610	L020829012	9/26/2002	STW-7
958	EHST-0209-611	209611	9/26/2002	STW-1
992	EHST-0210-100	L020845001	10/4/2002	STW-4
970	EHST-0210-101	L020845002	10/4/2002	STW-2
1033	EHST-0210-102	L020845004	10/4/2002	STW-8
1020	EHST-0210-103	L020845005	10/4/2002	STW-7
982	EHST-0210-104	L020845003	10/4/2002	STW-3
1021	EHST-0210-200	L020845006	10/5/2002	STW-7
1033	EHST-0210-201	L020845007	10/5/2002	STW-8
992	EHST-0210-300	L020869001	10/17/2002	STW-4
971	EHST-0210-301	L020869002	10/17/2002	STW-2
981	EHST-0210-302	L020869003	9/17/2002	STW-3
1033	EHST-0210-303	L020869004	10/17/2002	STW-8
1021	EHST-0210-304	L020869005	10/17/2002	STW-7
992	EHST-0210-400	L020888001	10/23/2002	STW-4
971	EHST-0210-401	L020888002	10/23/2002	STW-2
982	EHST-0210-402	L020888003	10/23/2002	STW-3
1033	EHST-0210-403	L020888004	10/23/2002	STW-8
1021	EHST-0210-404	L020888005	10/23/2002	STW-7
993	EHST-0210-500	L020915001	10/31/2002	STW-4
971	EHST-0210-501	L020915002	10/31/2002	STW-2
982	EHST-0210-502	L020915003	10/31/2002	STW-3
1034	EHST-0210-503	L020915004	10/31/2002	STW-8
1021	EHST-0210-504	L020915005	10/31/2002	STW-7
289	EHST-0212-100	L021034-001	12/17/2002	DH-24
289	EHST-0212-100	L021034001	12/17/2002	DH-24
289	EHST-0212-100	L030016-001	1/14/2003	DH-24
947	EHST-0212-101	L021034002	12/17/2002	SPARGE 3
948	EHST-0212-101	L021034-002	12/17/2002	SPARGE 3
1022	EHST-0212-101	L030016-002	1/14/2003	STW-7
1021	EHST-0212-102	L021034003	12/17/2002	STW-7
1022	EHST-0212-102	L021034-003	12/17/2002	STW-7
1034	EHST-0212-102	L030016-003	1/14/2003	STW-8
1034	EHST-0212-103	EHST-0212-103	12/17/2002	STW-8
982	EHST-0212-104	EHST-0212-104	12/17/2002	STW-3
993	EHST-0212-105	EHST-0212-105	12/17/2002	STW-4
99	EPPC-9510-100	95-2299001	10/4/1995	APSD-7
116	EPPC-9510-101	95-2299002	10/4/1995	APSD-8
359	EPPC-9510-103	95-2299004	10/4/1995	DH-4
101	EPPC-9511-100	95-2578001	11/15/1995	APSD-7
117	EPPC-9511-101	95-2578002	11/15/1995	APSD-8

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359	EPPC-9511-103	95-2578004	11/15/1995	DH-4
180	EPPC-9511-107	95-2578007	11/15/1995	DH-14
181	EPPC-9511-108	95-2578008	11/15/1995	DH-14
101	EPPC-9512-100	95-2775001	12/12/1995	APSD-7
117	EPPC-9512-101	95-2775002	12/12/1995	APSD-8
181	EPPC-9512-103	95-2775004	12/12/1995	DH-14
359	EPPC-9512-104	95-2775005	12/12/1995	DH-4
361	EPPC-9512-108	95-2775008	12/12/1995	DH-4
101	EPPC-9601-100	96-152001	1/18/1996	APSD-7
117	EPPC-9601-101	96-152002	1/18/1996	APSD-8
181	EPPC-9601-103	96-152004	1/18/1996	DH-14
361	EPPC-9601-104	96-152005	1/18/1996	DH-4
101	EPPC-9602-100	96-322001	2/15/1996	APSD-7
117	EPPC-9602-101	96-322002	2/15/1996	APSD-8
181	EPPC-9602-103	96-322004	2/15/1996	DH-14
361	EPPC-9602-104	96-322005	2/15/1996	DH-4
117	EPPC-9602-108	96-322008	2/15/1996	APSD-8
101	EPPC-9603-100	96-548001	3/18/1996	APSD-7
119	EPPC-9603-101	96-548002	3/18/1996	APSD-8
181	EPPC-9603-103	96-548004	3/18/1996	DH-14
361	EPPC-9603-104	96-548005	3/18/1996	DH-4
102	EPPC-9603-108	96-548008	3/18/1996	APSD-7
102	EPPC-9604-100	96-751001	4/17/1996	APSD-7
119	EPPC-9604-101	96-751002	4/17/1996	APSD-8
181	EPPC-9604-103	96-751003	4/17/1996	DH-14
361	EPPC-9604-104	96-751007	4/17/1996	DH-4
102	EPPC-9605-100	96-957001	5/15/1996	APSD-7
119	EPPC-9605-101	96-957002	5/15/1996	APSD-8
182	EPPC-9605-103	96-957004	5/15/1996	DH-14
362	EPPC-9605-104	96-957005	5/15/1996	DH-4
102	EPPC-9605-108	96-957008	5/15/1996	APSD-7
103	EPPC-9606-100	96-1136001	6/12/1996	APSD-7
119	EPPC-9606-101	96-1136002	6/12/1996	APSD-8
182	EPPC-9606-103	96-1136004	6/12/1996	DH-14
362	EPPC-9606-104	96-1136005	6/12/1996	DH-4
119	EPPC-9606-108	96-1136008	6/12/1996	APSD-8
103	EPPC-9607-100	96-1375001	7/16/1996	APSD-7
120	EPPC-9607-101	96-1375002	7/16/1996	APSD-8
182	EPPC-9607-103	96-1375004	7/16/1996	DH-14
362	EPPC-9607-104	96-1375005	7/16/1996	DH-4
182	EPPC-9607-108	96-1375008	7/16/1996	DH-14
103	EPPC-9608-100	96-1623001	8/15/1996	APSD-7
120	EPPC-9608-101	96-1623002	8/15/1996	APSD-8

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362	EPPC-9608-104	96-1623005	8/15/1996	DH-4
183	EPPC-9608-107	96-1623008	8/15/1996	DH-14
103	EPPC-9609-100	96-1853001	9/12/1996	APSD-7
120	EPPC-9609-101	96-1853002	9/12/1996	APSD-8
183	EPPC-9609-103	96-1853004	9/12/1996	DH-14
362	EPPC-9609-104	96-1853005	9/12/1996	DH-4
363	EPPC-9609-110	96-1853008	9/12/1996	DH-4
1107	IMMW-0004-100	L000631001	4/26/2000	DH-30
1113	IMMW-0004-101	L000631008	4/26/2000	DH-31
1119	IMMW-0004-102	IMMW-0004-102	4/26/2000	DH-32
1121	IMMW-0004-103	L000631015	4/26/2000	DH-33
1126	IMMW-0004-104	L000631016	4/26/2000	DH-34
1134	IMMW-0004-105	L000631017	4/26/2000	DH-35
333	IMMW-0004-106	L000631018	4/26/2000	DH-36
339	IMMW-0004-107	L000631019	4/26/2000	DH-37
1140	IMMW-0004-108	L000631020	4/26/2000	DH-38
344	IMMW-0004-109	L000631021	4/26/2000	DH-39
370	IMMW-0004-110	L000631022	4/26/2000	DH-40
374	IMMW-0004-111	L000631002	4/26/2000	DH-41
377	IMMW-0004-112	L000631003	4/26/2000	DH-42
382	IMMW-0004-113	L000631004	4/26/2000	DH-43
385	IMMW-0004-114	L000631005	4/26/2000	DH-44
388	IMMW-0004-115	L000631006	4/25/2000	DH-45
391	IMMW-0004-116	L000631007	4/25/2000	DH-46
394	IMMW-0004-117	L000631028	4/26/2000	DH-47
400	IMMW-0004-118	L000631023	4/25/2000	DH-48
402	IMMW-0004-119	L000631024	4/25/2000	DH-49
425	IMMW-0004-120	L000630001	4/25/2000	DH-50
435	IMMW-0004-121	L000630002	4/25/2000	DH-51
440	IMMW-0004-122	L000631025	4/25/2000	DH-52
447	IMMW-0004-123	L000631026	4/25/2000	DH-53
453	IMMW-0004-124	L000630003	4/25/2000	DH-54
388	IMMW-0004-126	L000631009	4/25/2000	DH-45
382	IMMW-0004-128	L000631011	4/26/2000	DH-43
1107	IMMW-0011-100	L001922001	11/16/2000	DH-30
1113	IMMW-0011-101	L001922002	11/16/2000	DH-31
1121	IMMW-0011-103	L001922003	11/16/2000	DH-33
1128	IMMW-0011-104	L001922004	11/16/2000	DH-34
1134	IMMW-0011-105	L001922005	11/16/2000	DH-35
335	IMMW-0011-106	L001922006	11/15/2000	DH-36
339	IMMW-0011-107	L001922007	11/16/2000	DH-37
1142	IMMW-0011-108	L001922008	11/16/2000	DH-38

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344	IMMW-0011-109	L001922009	11/15/2000	DH-39
372	IMMW-0011-110	L001922010	11/15/2000	DH-40
374	IMMW-0011-111	L001922011	11/15/2000	DH-41
378	IMMW-0011-112	L001922012	11/15/2000	DH-42
382	IMMW-0011-113	L001922013	11/15/2000	DH-43
385	IMMW-0011-114	L001922014	11/15/2000	DH-44
388	IMMW-0011-115	L001922015	11/15/2000	DH-45
391	IMMW-0011-116	L001922016	11/15/2000	DH-46
396	IMMW-0011-117	L001922017	11/15/2000	DH-47
404	IMMW-0011-119	L001922018	11/15/2000	DH-49
427	IMMW-0011-120	L001922019	11/15/2000	DH-50
435	IMMW-0011-121	L001922020	11/15/2000	DH-51
440	IMMW-0011-122	L001922021	11/15/2000	DH-52
447	IMMW-0011-123	L001922022	11/15/2000	DH-53
453	IMMW-0011-124	L001922023	11/15/2000	DH-54
881	IMMW-0011-125	L001922024	11/17/2000	MW-1
893	IMMW-0011-126	L001922025	11/16/2000	MW-2
899	IMMW-0011-127	L001922026	11/16/2000	MW-3
905	IMMW-0011-128	L001922027	11/16/2000	MW-4
913	IMMW-0011-129	L001922028	11/17/2000	MW-5
919	IMMW-0011-130	L001922029	11/16/2000	MW-6
926	IMMW-0011-131	L001922030	11/17/2000	MW-7
404	IMMW-0011-132	L001922031	11/15/2000	DH-49
341	IMMW-0011-136	L001922035	11/16/2000	DH-37
1107	IMMW-9912-100	L992165001	12/17/1999	DH-30
1113	IMMW-9912-101	L992165002	12/17/1999	DH-31
1119	IMMW-9912-102	L992165003	12/16/1999	DH-32
1121	IMMW-9912-103	L992165004	12/17/1999	DH-33
1126	IMMW-9912-104	L992165005	12/17/1999	DH-34
1134	IMMW-9912-105	L992165006	12/17/1999	DH-35
333	IMMW-9912-106	L992165007	12/16/1999	DH-36
339	IMMW-9912-107	L992165008	12/17/1999	DH-37
1140	IMMW-9912-108	L992165009	12/16/1999	DH-38
344	IMMW-9912-109	L992165010	12/16/1999	DH-39
370	IMMW-9912-110	L992165011	12/16/1999	DH-40
374	IMMW-9912-111	L992165012	12/16/1999	DH-41
377	IMMW-9912-112	L992165013	12/16/1999	DH-42
382	IMMW-9912-113	L992165014	12/16/1999	DH-43
385	IMMW-9912-114	L992165015	12/16/1999	DH-44
387	IMMW-9912-115	L992165016	12/15/1999	DH-45
391	IMMW-9912-116	L992165017	12/15/1999	DH-46
394	IMMW-9912-117	L992165018	12/16/1999	DH-47
400	IMMW-9912-118	IMMW-9912-118	12/15/1999	DH-48

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402	IMMW-9912-119	L992165019	12/15/1999	DH-49
423	IMMW-9912-120	L992165020	12/15/1999	DH-50
435	IMMW-9912-121	L992165021	12/15/1999	DH-51
440	IMMW-9912-122	L992165022	12/15/1999	DH-52
447	IMMW-9912-123	L992165023	12/15/1999	DH-53
453	IMMW-9912-124	L992165024	12/16/1999	DH-54
435	IMMW-9912-125	L992165025	12/15/1999	DH-51
377	IMMW-9912-129	L992165029	12/16/1999	DH-42
1134	IMMW-9912-131	L992165031	12/17/1999	DH-35

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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Sample Matrix	STATION	APSD-1	APSD-1	APSD-1	APSD-1	APSD-1	APSD-1
Water	SAMPLE DATE	11/22/1991	5/4/1992	11/21/1992	11/21/1992	5/7/1993	11/16/1993
	SAMPLE TIME	14:00	13:30	13:15	16:15	08:40	12:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	91-3895	92-4401	92-6813	92-6823	93-7841	93-9332
	SAMPLE NUMBER	AEH-9111-376	AEH-9204-180	EHC-9211-157	EHC-9211-150	EHC-9305-168	EHC-9311-100
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'
	REMARKS			Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)				87	84	158	
Chloride (Cl)	33 J	24 J		17	15	16	28
Magnesium (Mg) (Dis)				20	19	43	
Potassium (K) (Dis)				6.3	6.3	11	
Sodium (Na) (Dis)				83	80	96 J	
Sulfate (SO4)	305	359 J		136	133	293	515
Total Hardness As CaCO3						571	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	3.5	2.4	2.3	2.6	1.4 J	2.4
Arsenic III (dis)	3.8	2.5	4.6	2.6 J	0.7	2.7 J
Arsenic V (dis)	0.6	0.2	0.1 J	0.09 UJ	0.5 J	0.8 J
Cadmium (Cd) (DIS)	0.001	0.005	0.001	0.001	0.01	0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005 J	<0.005	<0.005 J
Zinc (Zn) (DIS)	0.02	0.03	0.01	0.02	0.4	0.01 UJ

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.8	1.7	1.5	1.5	1.8	1.1
pH	7.2	7.3	7.4	7.5		
Depth To Water Level (ft)	5.22	5.42	5.12	5.12	4.82	5.62
pH (Fld)	7.08	6.9	7	7	6.6	7.2
SC (umhos/cm at 25 C) (Fld)	1236	1182	897	896	1198	1324
SC (umhos/cm at 25 C)	1250	1160	930	900	1200 J	1310 J
TDS (Measured at 180 C)	940 J	813 J	610	610	882	963
Water Temperature (C) (Fld)	17.2	10.5	10.3	10.3	5.9	9.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

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Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-1	APSD-1	APSD-1	APSD-1	APSD-1	APSD-1
Water	SAMPLE DATE	4/12/1994	5/7/1994	7/14/1994	8/22/1994	9/26/1994	10/20/1994
	SAMPLE TIME	10:40	12:15	12:25	12:10	09:45	17:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-592003	94-1324	94-1209020	94-1504012	94-1778028	94-1932014
	SAMPLE NUMBER	AHCL-9404-165	EHC-9405-100	AHCL-9407-119	AHCL-9408-305	AHCL-9409-405	AHCL-9410-305
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	9.1
Sulfate (SO4)	47 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.6	1.8	1.9	1.8	2.1	2
Arsenic III (dis)		1.4 J				
Arsenic V (dis)		0.2 J				
Cadmium (Cd) (DIS)	0.002 U	<0.002	0.001	0.004 J	0.001	0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	0.02 U	0.01 U	0.009 U	0.06 U	0.02 U	0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.4	2.2	1.6	2.3	3.9	3.2
Depth To Water Level (ft)	5.62	5.52	6.04	5.92	6.02	5.62
Eh (millivolts)					-63	-86
pH (Fld)	7.7	7.2	7.3	7.3	7.2	7.2
SC (umhos/cm at 25 C) (Fld)	642	580	846	1158	958	760
SC (umhos/cm at 25 C)		560				
TDS (Measured at 180 C)	433	1466	580	703	628	506 J
Water Temperature (C) (Fld)	7.6	10.4	12.2	15.9	15.5	14.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-1	APSD-1	APSD-1	APSD-1	APSD-1	APSD-1
Water	SAMPLE DATE	11/15/1994	3/29/1995	4/25/1995	5/12/1995	5/23/1995	6/20/1995
	SAMPLE TIME	11:30	17:30	16:45	14:30	12:45	10:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-3358	95-616004	95-826002	95-4503	95-1057010	95-1280015
	SAMPLE NUMBER	EHC-9411-100	AHCL-9503-104	AHCL-9504-102	EHC-9505-107	AHCL-9505-105	AHCL-9506-104
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	8.9			8.7		
Sulfate (SO4)	102			50		

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	2.2	1.5	1.5	1.4	1.02	1.7
Arsenic III (dis)	1.9			1.2 J		
Arsenic V (dis)	0.3			0.4 J		
Cadmium (Cd) (DIS)	0.001	<0.001	<0.001	0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	0.004	0.007	<0.004	0.005
Iron (Fe) (DIS)					6.2	
Lead (Pb) (DIS)	<0.005 JU	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	0.01 U	<0.008	<0.006	0.01 J	<0.006	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.7	3.1	5.1	2.4	0.8	1.7
pH	6.9			7.7		
Depth To Water Level (ft)	5.32	8.72	5.42	5.1	4.92	4.82
Eh (millivolts)		-71	-134		-54	-17
pH (Fld)	7.09	7.1	7.3	7.4	7	6.8
SC (umhos/cm at 25 C) (Fld)	658	441 J	582	608	614	673
SC (umhos/cm at 25 C)	648			560 J		
TDS (Measured at 180 C)	432	375	340	356 J	344 J	404
Water Temperature (C) (Fld)	10.9	4.9	6	5.9	7.6	9.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-1	APSD-1	APSD-1	APSD-1	APSD-1	APSD-1
Water	SAMPLE DATE	7/18/1995	8/16/1995	9/15/1995	10/23/1995	11/8/1995	11/8/1995
	SAMPLE TIME	11:30	11:50	14:00	16:30	15:30	15:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-1523005	95-1778005	95-2070008	95-2401003	95-2532003	95-6122
	SAMPLE NUMBER	AHCL-9507-104	AHCL-9508-104	AHCL-9509-104	AHCL-9510-104	AHCL-9511-104	EHC-9511-107
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)							12 J
Sulfate (SO4)							332 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.8	1.8	2.1	2.02	2.2	1.9 J
Arsenic III (dis)						2.08 J
Arsenic V (dis)						0.2 J
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	0.001	0.06	0.001
Copper (Cu) (DIS)	<0.008	<0.004	0.005	0.004	<0.008	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 UJ
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	0.08	0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.4	1	1.3	1.3	0.8	0.8
pH						7.05
Depth To Water Level (ft)	5.12	5.52	5.22	5.42	5.32	5.32
Eh (millivolts)	-105	-84	116	118	77	
pH (Fld)	6.9	7.06	7.05	6.7	6.7	6.7
SC (umhos/cm at 25 C) (Fld)	684	735	789	762	758	758
SC (umhos/cm at 25 C)						849 J
TDS (Measured at 180 C)	408	480	450	592	562	593 J
Water Temperature (C) (Fld)	12.6	14.6	14.8	13.5	12.4	12.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-1	APSD-1	APSD-1	APSD-1	APSD-1	APSD-1
Water	SAMPLE DATE	5/8/1996	6/24/1996	9/19/1996	11/5/1996	11/5/1996	5/7/1997
	SAMPLE TIME	12:25	15:00	10:45	14:20	14:35	10:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-6726	96-1243008	96-1924018	96-7715	96-7726	97-946
	SAMPLE NUMBER	EHC-9605-204	EHC-9606-104	EHC-9609-104	EHC-9611-204	EHC-9611-217	EHC-9705-204
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	14			13	14	50
Sulfate (SO4)	101			195	236	1491

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.6	1.5	1.9	1.9	1.9	0.3
Arsenic III (dis)	1.4 J			1.6	1.6	0.2
Arsenic V (dis)	0.2 J			0.1 J	0.05 J	0.03
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	0.01
Copper (Cu) (DIS)	<0.004	<0.008	<0.004	<0.004	<0.004	0.006
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	<0.02	<0.02	0.02 U	<0.008	<0.008	1.3

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.4	1.3	1.3	1.08	1.06	1.4
pH	7.1			7.1	6.9	6.5
Depth To Water Level (ft)	5.62	5.1	5.42	5.22	5.22	5.02
Eh (millivolts)	143	6	178	214	214	204
pH (Fld)	7.1	7.3	6.9	7.2	7.2	6.5
SC (umhos/cm at 25 C) (Fld)	731	638	755	815	814	2560
SC (umhos/cm at 25 C)	660			870	872	2770
Total Suspended Solids						59
TDS (Measured at 180 C)	469	414	601	619	622	2609
Water Temperature (C) (Fld)	5.8	10.7	14.1	12.3	12.3	8.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-1	APSD-1	APSD-1	APSD-1	APSD-1	APSD-1
Water	SAMPLE DATE	11/5/1997	5/13/1998	11/20/1998	5/12/1999	11/17/1999	5/8/2000
	SAMPLE TIME	13:50	11:50	10:20	14:10	13:25	17:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	189-2710	263-3804	313-4453	348-4919	L992055005	L000705006
	SAMPLE NUMBER	EHC-9711-204	EHC-9805-204	EHC-9811-204	EHC-9905-204	EHC-9911-106	EHC-0005-105
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		266	273	283 J	262	132
Calcium (Ca) (DIS)		64	113	79	97	342
Carbonate As CO3				<1 UJ	<1	<1
Chloride (Cl)	14	8	14	6.9	13	163
Magnesium (Mg) (DIS)		13	23	17	23	59
Potassium (K) (DIS)		7	6.7	6.9	9.2	17
Sodium (Na) (DIS)		37 J	68	51	48	670
Sulfate (SO4)	116	66	327	155	247 J	2087
Total Alkalinity As CaCO3		218	224	232 J	215	108

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.6 J	1.2	1.5	1	1.1	0.7 J
Arsenic III (dis)	1.5 J	1.2	1.5	0.9	1.2	0.5
Arsenic V (dis)	0.1	0.09	0.04 J	0.09	0.05 J	0.1
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001 J
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004 J	0.005
Iron (Fe) (DIS)		5.3	10.3	9.2	12	52
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		2.5	4.5	3.8	5	17
Zinc (Zn) (DIS)	<0.02 J	<0.02 J	0.03	<0.02	<0.02	<0.02 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.6	1.6	1.8	1.05	1.2	3.3
pH	7	7.1	7.3	7.3	7.2	6.5
Depth To Water Level (ft)	5.52	5.02	4.82	4.62	4.62	4.62
Eh (millivolts)			181	189	134	200
pH (Fld)	7.6	6.8	6.9	7.05	7.3	6.9
SC (umhos/cm at 25 C) (Fld)	740	558	1035	722	861	4176
SC (umhos/cm at 25 C)	785	603	1029	752	883	4210
Total Suspended Solids	32 J				31 J	
TDS (Measured at 180 C)	530 J	506	723	530	603	3428
Water Temperature (C) (Fld)	13.5	10	10.8	7.3	11.9	7.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-1	APSD-1	APSD-1	APSD-1	APSD-1	APSD-1
Water	SAMPLE DATE	11/10/2000	5/8/2001	11/14/2001	5/31/2002	11/13/2002	5/30/2003
	SAMPLE TIME	14:50	12:10	15:30	16:30	15:00	15:25
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001897005	L010655025	L011563005	L020412019	L020948011	L030242013
	SAMPLE NUMBER	EHC-0011-105	EHC-0105-105	EHC-0111-104	EHC-0205-106	EHC-0211-105	AEH-0306-112
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	268	137	327	336	270	337
Calcium (Ca) (DIS)	85	251	86	84	96	76
Carbonate As CO3	<1		<1	<1	<1	<2
Chloride (Cl)	51	297	28	16	14	9.6
Magnesium (Mg) (DIS)	13	28	13	14	16	15
Potassium (K) (DIS)	10	29	16	9.1	9.5	7
Sodium (Na) (DIS)	246	990	145	83	73	61
Sulfate (SO4)	544	3015	297	134	198	84
Total Alkalinity As CaCO3	220	112	268	275	221	276

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.01	<0.05	<0.05	<0.05	<0.05	
Arsenic (As) (DIS)	1	0.8	1.1	0.9	1.1	0.8
Arsenic III (dis)	1.3	0.1	1.1 J	0.5	0.5	0.6
Arsenic V (dis)	0.05	0.7	<0.005	0.4	0.7	0.1
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	0.009	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	12	35	12	10	11	9.1
Lead (Pb) (DIS)	<0.005	<0.005	0.008	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	4.1	11	3.8	3.5	3.9	3.3
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			-113	-9.6		
Oxygen (O) (DIS) (Fld)	0.7	2.4	0.5	0.3	6.02	0.3
pH	7.5	6.8	7.2	7	7.1	7.4
Silicon+Silica (Si+SiO2)	35	28	35	30	35	
Depth To Water Level (ft)	4.82	4.32	5.07	5.72	5.72	4.62
Eh (millivolts)	119	193	133			
pH (Fld)	6.9	7.2	7.1	7.2	6.8	6.8
SC (umhos/cm at 25 C) (Fld)	1645	4350	1089	965	685	621
SC (umhos/cm at 25 C)	1722	5470	1129	839	869	744
Total Suspended Solids		46	36	36	30	27
TDS (Measured at 180 C)	1196	4362	798	571	592	478
Salinity (G/KG) (Fld)					0.2	0.2
Turbidity (NTU) (Fld)					7	8
Water Temperature (C) (Fld)	11.9	6.9	13.7	7.3	11.5	7.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-1	APSD-1	APSD-1	APSD-1	APSD-1	APSD-1
Water	SAMPLE DATE	10/25/2003	5/21/2004	10/25/2004	5/12/2005	11/9/2005	5/4/2006
	SAMPLE TIME	11:45	09:35	13:45	13:20	09:30	13:35
	LAB	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel
	LAB NUMBER	L030599-004	H04050141-002	H04100175-002	C05050485-010	H05110092-002	H06050060-002
	SAMPLE NUMBER	AEH-0310-342	AEH-0405-141	AEH-0411-101	AEH-0505-136	AEH-0511-144	AEH-0605-148
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'	MP Elev 2.02'
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	238	370	320	352	280	340
Calcium (Ca) (DIS)	77	80	60	90	66	72
Carbonate As CO3	<2					
Chloride (Cl)	10	61	9 UJ	106	12 UJ	10
Magnesium (Mg) (DIS)	16	22	13	30	15	16
Potassium (K) (DIS)	9.3	8	8	8	7	8
Sodium (Na) (DIS)	63	42	36	54	31	42
Sulfate (SO4)	101	33	26	96	50	56
Total Alkalinity As CaCO3	238	310	270	289	230	280

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.5	0.572	0.989	0.597	1.012	0.708
Arsenic III (dis)	0.54	0.0077	0.39 J	0.6	0.7	0.7
Arsenic V (dis)	0.91	0.23 J	0.43 J	0.05	0.02	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	8.9	5.37	5.3	4.15	5.29	6.53
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.3	2.88	2.31	2.94	2.58	3.12
Zinc (Zn) (DIS)	<0.02	0.08	<0.02	0.1	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.5	0.12	0.15	0.05	1.17	2.14
pH	7.8	7.4	7.1	7.38	7.1	7.1
Depth To Water Level (ft)	5.77	5.12	4.99	4.83	4.96	4.36
pH (Fld)	7.01	6.47	6.98	7.24	7.07	6.68
SC (umhos/cm at 25 C) (Fld)	717	1000	595	1171	575	599
SC (umhos/cm at 25 C)	703	871	492	1030	579	663
Total Suspended Solids	28	34	42	15	20	17
TDS (Measured at 180 C)	486	469	327	626	343	389
TDS - Calculated				591		
Salinity (G/KG) (Fld)	0.3	0.4				
Turbidity (NTU) (Fld)	9	1100				
Water Temperature (C) (Fld)	14.3	8.5	13.2	6.6	12.8	7.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-1	APSD-1	APSD-1	APSD-1	APSD-1	APSD-1
Water	SAMPLE DATE	11/15/2006	5/17/2007	9/12/2007	12/5/2007	2/14/2008	5/7/2008
	SAMPLE TIME	14:35	12:50	10:40	10:10	11:40	15:45
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110138-003	H07050209-001	H07090115-004	H07120050-002	H08020113-006	H08050154-001
	SAMPLE NUMBER	AEH-0611-196	AEH-0705-168	AEH-0709-144	AEH-0711-196	AEH-0802-128	AEH-0805-178
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 2.02'					
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	690	980	1000		600	890
Bicarbonate (HCO3) (dis)				620		
Calcium (Ca) (DIS)	169	178	168	109	100	146
Chloride (Cl)	126	160	157	50	50	120
Magnesium (Mg) (DIS)	40	44	41	24	23	35
Potassium (K) (DIS)	12	9	15	9	8	10
Sodium (Na) (DIS)	88	151	180	93	75	114
Sulfate (SO4)	71 J	31	30	2	15	13
Total Alkalinity As CaCO3	560	810	850	510	490	730

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)				<0.005		<0.005
Selenium-VI (dis)				<0.005		<0.005
Aluminum (Al) (DIS)						<0.1
Aluminum (Al) (TOT)						<0.1
Antimony (Sb) (DIS)						<0.005
Antimony (Sb) (TOT)						<0.005
Arsenic (As) (DIS)	0.323	0.299	0.549	0.342	0.257	0.227
Arsenic (As) (TOT)		0.256	0.55	0.364	0.278	0.216
Arsenic III (DIS)	0.3 J-	0.232	0.407	<0.005 A	0.192	0.216
Arsenic V (DIS)	0.03 J-	0.0163	0.0355	0.689 A	<0.005	0.0134
Barium (Ba) (DIS)						0.3
Barium (Ba) (TOT)						0.3
Beryllium (Be) (DIS)						<0.001
Beryllium (Be) (TOT)						<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)		0.002	0.003	0.005	0.004	0.001
Chromium (Cr) (DIS)						<0.001
Chromium (Cr) (TOT)						<0.001
Cobalt (Co) (DIS)						<0.01
Cobalt (Co) (TOT)						<0.01
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)		<0.004	<0.004	<0.004	0.005	<0.004
Iron (Fe) (DIS)	10.88	20.74	19.66	8.67	9.2	22.04
Iron (Fe) (TOT)		21.4	17.2	7.9	10	23.1
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)		<0.005	<0.005	0.01	0.016	<0.005
Manganese (Mn) (DIS)	5.54	4.27	3.88	2.89	3.18	4.14
Manganese (Mn) (TOT)		4.66	3.58	2.94	3.12	4.13

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-1	APSD-1	APSD-1	APSD-1	APSD-1	APSD-1
Water	SAMPLE DATE	11/15/2006	5/17/2007	9/12/2007	12/5/2007	2/14/2008	5/7/2008
	SAMPLE TIME	14:35	12:50	10:40	10:10	11:40	15:45
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110138-003	H07050209-001	H07090115-004	H07120050-002	H08020113-006	H08050154-001
	SAMPLE NUMBER	AEH-0611-196	AEH-0705-168	AEH-0709-144	AEH-0711-196	AEH-0802-128	AEH-0805-178
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 2.02'					
	REMARKS						

**Metals (mg/L): ppm unless noted**

Mercury (Hg) (DIS)							<0.006
Mercury (Hg) (TOT)							<0.006 J-
Nickel (Ni) (DIS)							<0.01
Nickel (Ni) (TOT)							<0.01
Selenium (Se) (DIS)				0.007	0.006		0.011
Selenium (Se) (Tot)				<0.005	<0.005		0.009
Silver (Ag) (DIS)							<0.005
Silver (Ag) (TOT)							<0.005
Thallium (Tl) (DIS)							<0.002
Thallium (Tl) (TOT)							<0.002
Vanadium (V) (DIS)							<0.01
Vanadium (V) (TOT)							<0.01
Zinc (Zn) (DIS)	<0.02	<0.01	<0.01	<0.02	<0.01		0.01
Zinc (Zn) (TOT)		0.04	0.03	0.11	0.07		0.05

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	-93.2						
Oxygen (O) (DIS) (Fld)	1.35	0.08	0.62	2.06	0.23		1.19
pH	7.1	7.3	6.8	7.2	7.1		6.9
Depth To Water Level (ft)	6.45	7.71	7.75	7.84	8.45		8.54
pH (Fld)	6.78	6.81	6.61	6.77	6.71		6.46
SC (umhos/cm at 25 C) (Fld)	1514	2044	1981	985	1260		1704
SC (umhos/cm at 25 C)	1370	1680	1780	1000	1040		1510
Total Suspended Solids	52 J	60	65	37	38		68
TDS (Measured at 180 C)	902	1130	1120	632	614		954
Water Temperature (C) (Fld)	11.12	8.91	19.7	10.8	7.7		10.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-1	APSD-1	APSD-10	APSD-10	APSD-10
Water	SAMPLE DATE	11/10/2008	5/15/2009	11/17/1993	4/12/1994	5/13/1994
	SAMPLE TIME	09:55	08:55	11:30	09:30	11:20
	LAB	ELI	ELI	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H08110106-001	H09050242-001	93-9343	94-592001	94-1375
	SAMPLE NUMBER	AEH-0811-195	AEH-0905-222	EHC-9311-185	AHCL-9404-163	EHC-9405-106
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	600	630			
Calcium (Ca) (DIS)	98	122			
Chloride (Cl)	37	48	5		7.4
Magnesium (Mg) (DIS)	21	28			
Potassium (K) (DIS)	9	9			
Sodium (Na) (DIS)	60	76			
Sulfate (SO4)	4	41	358		712 J
Total Alkalinity As CaCO3	490	510			

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005				
Selenium-VI (DIS)	<0.005				
Aluminum (Al) (DIS)	<0.1	<0.1			
Antimony (Sb) (DIS)	<0.005	<0.003			
Arsenic (As) (DIS)	0.463	0.312	0.8	0.9	1.07
Arsenic III (DIS)	0.404		0.5		0.4
Arsenic V (DIS)	0.0105 J-		0.3 J		0.5 J
Barium (Ba) (DIS)	0.2	0.2			
Beryllium (Be) (DIS)	<0.001	<0.001			
Cadmium (Cd) (DIS)	<0.001	<0.001	0.09	0.08 U	0.09
Chromium (Cr) (DIS)	<0.001	<0.001			
Cobalt (Co) (DIS)	<0.01	0.0047			
Copper (Cu) (DIS)	<0.004	<0.001	<0.004	<0.004	<0.004
Gold (Au) (DIS)		0.02			
Iron (Fe) (DIS)	9.26	15.7			
Lead (Pb) (DIS)	<0.005	<0.005	0.06	0.03	0.03 J
Manganese (Mn) (DIS)	3.4	4			
Mercury (Hg) (DIS)	<0.006	<0.0001			
Nickel (Ni) (DIS)	<0.01	<0.01			
Selenium (Se) (DIS)	0.006	0.013			
Silver (Ag) (DIS)	<0.005	<0.005 J			
Tellurium (Te) (DIS)		<0.1			
Thallium (Tl) (DIS)	<0.002	<0.001			
Vanadium (V) (DIS)	<0.01	<0.01			
Zinc (Zn) (DIS)	<0.02	<0.01	1.5 J	4.6	5.2

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.31	0.25	2.9	1.4	1.6
pH	7.1	7.2			
Depth To Water Level (ft)	8.74	8.65	7.4	6.6	7.5
pH (Fld)	6.72	6.85	7.2	7.4	7.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-1	APSD-1	APSD-10	APSD-10	APSD-10
Water	SAMPLE DATE	11/10/2008	5/15/2009	11/17/1993	4/12/1994	5/13/1994
	SAMPLE TIME	09:55	08:55	11:30	09:30	11:20
	LAB	Hydrometrics	Hydrometrics	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H08110106-001	H09050242-001	93-9343	94-592001	94-1375
	SAMPLE NUMBER	AEH-0811-195	AEH-0905-222	EHC-9311-185	AHCL-9404-163	EHC-9405-106
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	1025	1240	888	1419	1590
SC (umhos/cm at 25 C)	984	1170	894 J		1498 J
Total Suspended Solids	23	48			
TDS (Measured at 180 C)	564	706	641	1142	1227
Water Temperature (C) (Fid)	14.6	10.4	7.8	4.8	8.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-10	APSD-10	APSD-10	APSD-10	APSD-10	APSD-10
Water	SAMPLE DATE	7/14/1994	8/22/1994	9/26/1994	10/20/1994	11/14/1994	11/14/1994
	SAMPLE TIME	11:10	11:45	14:10	14:30	14:30	15:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1209018	94-1504015	94-1778024	94-1932010	94-3368	94-3362
	SAMPLE NUMBER	AHCL-9407-117	AHCL-9408-300	AHCL-9409-400	AHCL-9410-300	EHC-9411-175	EHC-9411-106
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)					4	4.2
	Sulfate (SO4)					403	386
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	1.8	0.8	0.5	1.3	0.9	0.9
	Arsenic III (dis)					1	0.9
	Arsenic V (dis)					0.3 J	0.3
	Cadmium (Cd) (DIS)	0.1	0.03 J	<0.001	0.006	0.003	0.002
	Copper (Cu) (DIS)	<0.004	<0.004	0.004	<0.004	<0.004	0.005
	Lead (Pb) (DIS)	0.05	0.02	0.01	0.02	0.006 J	0.005 UJ
	Zinc (Zn) (DIS)	6.2	1.3	0.4	2.4	1.5	1.4
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	0.8	2.6	3.2	3.3	3.4	3.4
	pH					7	7.3
	Depth To Water Level (ft)	6.7	6.7	7.05	6.9	6.7	6.7
	Eh (millivolts)			-22	56		
	pH (Fld)	6.6	7.2	7.2		7.2	7.2
	SC (umhos/cm at 25 C) (Fld)	1687	1235	463	1333	1169	1188
	SC (umhos/cm at 25 C)					1026	1000
	TDS (Measured at 180 C)	1452	898	375	1156	768	771
	Water Temperature (C) (Fld)	13.7	16.8	17.4	13.9	10.5	10.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-10	APSD-10	APSD-10	APSD-10	APSD-10	APSD-10
Water	SAMPLE DATE	3/29/1995	4/25/1995	5/12/1995	5/23/1995	6/19/1995	7/18/1995
	SAMPLE TIME	16:00	16:00	10:35	09:45	17:40	11:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-616001	95-826025	95-4499	95-1057013	95-1280001	95-1523001
	SAMPLE NUMBER	AHCL-9503-100	AHCL-9504-126	EHC-9505-102	AHCL-9505-100	AHCL-9506-100	AHCL-9507-100
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	5.7
Sulfate (SO4)	1107

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.5	0.6	1.4	1.04	1.9	1.01
Arsenic III (dis)			0.9 J			
Arsenic V (dis)			0.7 J			
Cadmium (Cd) (DIS)	0.02	0.04	0.1	0.3	0.7	0.05
Copper (Cu) (DIS)	<0.004	<0.004	0.008	<0.004	0.05	<0.008
Iron (Fe) (DIS)				3.07		
Lead (Pb) (DIS)	0.02	0.04 J	0.05	0.07	0.1	0.06
Zinc (Zn) (DIS)	2.9	2.2	5	7.7	19.6	1.9

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.6	1.8	3.2	2.4	1.9	1.4
pH			7.8			
Depth To Water Level (ft)	6.8	6.6	6.5	6.05	5.8	7.8
Eh (millivolts)	-8	-35		107	12	-41
pH (Fld)	7.2	7.2	7.3	6.4	6.2	7.2
SC (umhos/cm at 25 C) (Fld)	1046 J	1452	1919	2100	2970	515
SC (umhos/cm at 25 C)			1960 J			
TDS (Measured at 180 C)	1132	592 JA	1643 J	1434	2692	377
Water Temperature (C) (Fld)	2.7	4.5	5.6	7.2	9.9	12.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-10	APSD-10	APSD-10	APSD-10	APSD-10	APSD-10
Water	SAMPLE DATE	8/16/1995	9/15/1995	10/23/1995	11/8/1995	11/8/1995	5/9/1996
	SAMPLE TIME	11:00	13:20	15:15	13:40	13:40	11:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-1778001	95-2070003	95-2401011	95-2532023	95-6108	96-6738
	SAMPLE NUMBER	AHCL-9508-100	AHCL-9509-100	AHCL-9510-100	AHCL-9511-100	EHC-9511-102	EHC-9605-200
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)						<1 J	3.9
Sulfate (SO4)						804 J	49

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.4	1.3	0.4 J	0.8	0.6	0.3
Arsenic III (dis)					0.7 J	0.2 J
Arsenic V (dis)					0.1 J	0.1 J
Cadmium (Cd) (DIS)	0.09	0.1	0.01	0.005	0.002	0.01
Copper (Cu) (DIS)	<0.004	0.009	0.004	<0.008	<0.004	<0.004
Lead (Pb) (DIS)	0.07	0.07	0.02	0.01	0.01	0.01
Zinc (Zn) (DIS)	4.5	5.5	0.3	2.2	1.5	0.8

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.3	2.5	1.4	0.8	0.8	1.6
pH					7	7
Depth To Water Level (ft)	6.9	6.3	6.5	6.5	6.5	6.9
Eh (millivolts)	-56	126	144	123		238
pH (Fld)	7.02	7	6.5	6.6	6.6	7.1
SC (umhos/cm at 25 C) (Fld)	1490	1426	343	1004	1004	387
SC (umhos/cm at 25 C)					1149 J	355
TDS (Measured at 180 C)	1321	1382	311	905	980 J	268
Water Temperature (C) (Fld)	15.4	16.1	12.4	11.3	11.3	4.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-10	APSD-10	APSD-10	APSD-10	APSD-10	APSD-10
Water	SAMPLE DATE	6/24/1996	9/19/1996	11/6/1996	5/7/1997	11/5/1997	5/13/1998
	SAMPLE TIME	11:00	13:20	08:45	14:15	13:10	11:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-1243006	96-1924014	96-7711	97-942	188-2688	262-3800
	SAMPLE NUMBER	EHC-9606-100	EHC-9609-100	EHC-9611-200	EHC-9705-200	EHC-9711-200	EHC-9805-200
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)							170
Calcium (Ca) (DIS)							220
Chloride (Cl)				3.2	4	2	6
Magnesium (Mg) (DIS)							19
Potassium (K) (DIS)							13
Sodium (Na) (DIS)							56
Sulfate (SO4)				164 J	49	105	573
Total Alkalinity As CaCO3							139

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.1	0.5	0.4	0.3	0.8 J	1.9
Arsenic III (dis)			0.3	0.2	0.7 J	1.6
Arsenic V (dis)			0.05	0.03	0.06	0.3
Cadmium (Cd) (DIS)	0.08	0.005	0.003	0.009	0.002	0.02
Copper (Cu) (DIS)	<0.008	<0.004	0.006	<0.004	<0.004	0.006
Iron (Fe) (DIS)						2.6
Lead (Pb) (DIS)	0.04	0.02	0.01	0.01	0.007	<0.005
Manganese (Mn) (DIS)						3.3
Zinc (Zn) (DIS)	3.5	0.2	0.1	0.3	0.2 J	2.9

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.9	1.5	1.9	1.3	1.9	2
pH			6.9	7.1	7.1	7
Depth To Water Level (ft)	6.6	6.6	6.5	6.9	7.05	6.9
Eh (millivolts)	286	137	221	139		
pH (Fld)	7	7.2	7.9	7.09	7.3	6.7
SC (umhos/cm at 25 C) (Fld)	1362	352	550	360	468	1110
SC (umhos/cm at 25 C)			627	376	557	1267
Total Suspended Solids				6	13 J	
TDS (Measured at 180 C)	1060	348	497	288	488	1008
Water Temperature (C) (Fld)	9.9	15.1	10.5	6.9	12	9.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-10	APSD-10	APSD-10	APSD-10	APSD-10	APSD-10
Water	SAMPLE DATE	11/19/1998	5/12/1999	11/17/1999	5/9/2000	11/10/2000	5/8/2001
	SAMPLE TIME	17:10	13:00	13:00	11:10	13:25	11:25
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	311-4429	348-4915	L992055001	L000705002	L001897001	L010655021
	SAMPLE NUMBER	EHC-9811-200	EHC-9905-200	EHC-9911-102	EHC-0005-101	EHC-0011-101	EHC-0105-101
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	242 J	144 J	224	187	317	174
Calcium (Ca) (DIS)	50	341	51	45	57	365
Carbonate As CO3		<1 UJ	<1	<1	<1	
Chloride (Cl)	5.1	8.1	3.2	4.4	6.6 J	12
Magnesium (Mg) (DIS)	10	37	11	8.8	11	40
Potassium (K) (DIS)	<5	17	<5	<5	<5	18
Sodium (Na) (DIS)	15	67	16	16	20	86
Sulfate (SO4)	13	1388	11 J	20	17	1175
Total Alkalinity As CaCO3	198 J	118 J	184	153	260	143

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)					<0.01	<0.05
Arsenic (As) (DIS)	0.4 J	2.7	0.6	0.5	0.7	4.8
Arsenic III (dis)	0.4 J	2.5	0.4	0.4	0.8	3.5
Arsenic V (dis)	0.1	0.4	0.03 J	0.04 U	0.03	1.4
Cadmium (Cd) (DIS)	0.001	0.02	0.001	0.002	<0.001	0.02
Copper (Cu) (DIS)	<0.004	0.004	<0.004 J	<0.004	<0.004	0.01
Iron (Fe) (DIS)	4.6	9.1	5.6	4.1	5.5	10
Lead (Pb) (DIS)	0.005	0.006	0.005	0.008	<0.005	<0.005
Manganese (Mn) (DIS)	2.8	6.5	3.1	2.5	3.3	7.3
Zinc (Zn) (DIS)	0.1	5.3	0.03	0.05	0.03	7.4

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.7	1.4	1.02	5.5	1	1.2
pH	7.8	7.3	6.7	7.2	7.5	8.4
Silicon+Silica (Si+SiO2)					36	24
Depth To Water Level (ft)	6.8	6.6	6.7	7.3	7	6.06
Eh (millivolts)	367	225	198	292	152	169
pH (Fld)	6.9	7.02	7.3	7.1	6.9	6.8
SC (umhos/cm at 25 C) (Fld)	478	1593	362	337	508	1690
SC (umhos/cm at 25 C)	410	1986	377	349	475	2110
Total Suspended Solids			15 J			24
TDS (Measured at 180 C)	261	1773	232	230	305	1928
Water Temperature (C) (Fld)	9.5	7.2	11.8	6.7	11.8	6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-10	APSD-10	APSD-10	APSD-10	APSD-10	APSD-10
Water	SAMPLE DATE	11/14/2001	5/31/2002	11/13/2002	5/30/2003	10/25/2003	5/26/2004
	SAMPLE TIME	12:20	16:00	13:20	15:10	10:50	12:35
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI
	LAB NUMBER	L011563001	L020412017	L020948006	L030242012	L030599-001	H04050191-011
	SAMPLE NUMBER	EHC-0111-100	EHC-0205-102	EHC-0211-171	AEH-0306-111	AEH-0310-339	AEH-0405-189
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	242	198	224	146	186	140
Calcium (Ca) (DIS)	56	82	68	201	71	311
Carbonate As CO3	<1	<1	<1	<2	<2	
Chloride (Cl)	4.5	6	4.2	4.9	3.9	8 UJ
Magnesium (Mg) (DIS)	9.8	9.5	12	20	12	23
Potassium (K) (DIS)	<5	5.5	<5	8.5	5.1	14
Sodium (Na) (DIS)	18	27	21	40	25	42
Sulfate (SO4)	8.7	101	37	479	72	830
Total Alkalinity As CaCO3	198	162	184	120	186	120

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05	<0.05			
Arsenic (As) (DIS)	0.5	0.7	0.5	0.7	0.76	1.574
Arsenic III (dis)	0.5 J	0.5	0.4	0.6	0.44	1.5
Arsenic V (dis)	<0.005	0.2	0.2	0.2	0.33	0.16 J
Cadmium (Cd) (DIS)	<0.001	0.002	0.001	<0.001	<0.001	0.042
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	5.2	3.1	4.3	6	4.2	6.88
Lead (Pb) (DIS)	<0.005	<0.005	0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.9	2.2	3.8	4.7	3.3	4.97
Zinc (Zn) (DIS)	0.03	0.4	<0.02	0.4	<0.02	3.74

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	-75.4	-55				
Oxygen (O) (DIS) (Fld)	0.7	0.3	2.01	0.2	1.69	0.25
pH	7	6.5	6.7	7.3	7.9	7.3
Silicon+Silica (Si+SiO2)	39	26	31			
Depth To Water Level (ft)	7.3	8.08	7.6	5.9	7.54	6.69
Eh (millivolts)	170					
pH (Fld)	6.8	6.6	6.2	7.1	6.83	7.08
SC (umhos/cm at 25 C) (Fld)	421	537	330	1170	388	1709
SC (umhos/cm at 25 C)	392	520	436	1176	502	1600
Total Suspended Solids	15	13	16	15	52	20
TDS (Measured at 180 C)	270	311	290	896	333	1450
Salinity (G/KG) (Fld)			0.1	0.5	0.1	
Turbidity (NTU) (Fld)			9	9	18	
Water Temperature (C) (Fld)	12.8	5	10.5	7.2	13.7	8.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-10	APSD-10	APSD-10	APSD-10	APSD-10	APSD-10
Water	SAMPLE DATE	10/25/2004	5/13/2005	11/9/2005	5/4/2006	11/15/2006	11/15/2006
	SAMPLE TIME	15:45	09:55	15:00	11:40	10:25	10:35
	LAB	ELI	ELI-Casper	ELI-Hel	ELI-Hel	ELI	ELI
	LAB NUMBER	H04100175-006	C05050527-001	H05110081-015	H06050056-009	H06110135-006	H06110135-007
	SAMPLE NUMBER	AEH-0411-105	AEH-0505-142	AEH-0511-139	AEH-0605-146	AEH-0611-188	AEH-0611-189
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	210	107	190	94	230	230
Calcium (Ca) (DIS)	100	355	90	408	101	97
Chloride (Cl)	4 UJ	4	7 UJ	6	5	5
Magnesium (Mg) (DIS)	14	24	13	25	11	11
Potassium (K) (DIS)	6	15	6	19	6	6
Sodium (Na) (DIS)	27	37	19	44	18	18
Sulfate (SO4)	169	946	63	1260	113 J	88 J
Total Alkalinity As CaCO3	170	88	160	77	190	190

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.363	1.23	0.628	0.939	0.352	0.329
Arsenic III (dis)	1.3 J	1.2	0.46	0.8	0.3 J-	0.3 J-
Arsenic V (dis)	0.021 J	0.06	0.023	<0.005	0.05 J-	0.05 J-
Cadmium (Cd) (DIS)	<0.001	0.08	0.001	0.365	0.001	0.002
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.097	<0.004	<0.004
Iron (Fe) (DIS)	4.6	7.1	4.62	5.42	3.58	3.53
Lead (Pb) (DIS)	<0.005	0.009	0.008	0.053	0.01	0.013
Manganese (Mn) (DIS)	3.04	5.03	2.93	3.72	3.09	3.19
Zinc (Zn) (DIS)	0.03	4.6	0.18	12.02	0.3	0.29

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					-71	
Oxygen (O) (DIS) (Fld)	0.14	0.11	1.05	1.85	0.18	
pH	7.2	7.03	7.1	6.8	7	7
Depth To Water Level (ft)	6.99	6.02	6.7	5.85	6.19	
pH (Fld)	6.86	6.13	6.8	6.51	6.91	
SC (umhos/cm at 25 C) (Fld)	638	1884	517	1962	587	
SC (umhos/cm at 25 C)	608	1750	455	1980	585	547
Total Suspended Solids	15	<10	16	15	21 J	64 J
TDS (Measured at 180 C)	480	1530	293	1980	417	380
TDS - Calculated		1450				
Water Temperature (C) (Fld)	13	6.1	11.71	7.28	10.73	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-10	APSD-10	APSD-10	APSD-10	APSD-10
Water	SAMPLE DATE	5/16/2007	12/11/2007	5/9/2008	11/10/2008	5/13/2009
	SAMPLE TIME	15:00	13:30	12:25	14:05	14:55
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07050193-003	H07120112-006	H08050176-007	H08110106-013	H09050210-015
	SAMPLE NUMBER	AEH-0705-163	AEH-0711-230	AEH-0805-199	AEH-0811-207	AEH-0905-202
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	150		150	250	120
Bicarbonate (HCO3) (dis)		230			
Calcium (Ca) (DIS)	41	146	316	150	348
Chloride (Cl)	5	4	5	4	4
Magnesium (Mg) (DIS)	6	14	20	23	23
Potassium (K) (DIS)	3	8	13	7	15
Sodium (Na) (DIS)	13	25	31	22	36
Sulfate (SO4)	55	347	790	350	1000
Total Alkalinity As CaCO3	120	190	120	200	96

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)		<0.005	<0.005	<0.005	
Selenium-VI (dis)		<0.005	<0.005	<0.005	
Aluminum (Al) (DIS)			<0.1	<0.1	<0.1
Antimony (Sb) (DIS)			0.029	0.011	0.036
Arsenic (As) (DIS)	0.784	1.406	1.342	0.564	1.3
Arsenic III (DIS)	0.107	0.0283	0.508	0.601	
Arsenic V (DIS)	0.943	1.4	0.952	0.0306	
Barium (Ba) (DIS)			0.1	0.1	0.1
Beryllium (Be) (DIS)			<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	0.005	0.003	0.01	0.001	0.087
Chromium (Cr) (DIS)			<0.001	<0.001	0.001
Cobalt (Co) (DIS)			0.02	<0.01	0.0405 J
Copper (Cu) (DIS)	0.007	<0.004	<0.004	0.006	0.005 UJ
Gold (Au) (DIS)					0.02
Iron (Fe) (DIS)	0.1	3.81	6.55	3.97	5.04
Lead (Pb) (DIS)	<0.005	0.014	<0.005	<0.005	0.006
Manganese (Mn) (DIS)	0.22	2.66	4.31	5.74	4.64
Mercury (Hg) (DIS)			<0.006	<0.006	<0.0001
Nickel (Ni) (DIS)			0.02	<0.01	0.06
Selenium (Se) (DIS)		<0.005	<0.005	<0.005	0.018
Silver (Ag) (DIS)			<0.005	<0.005	<0.005
Tellurium (Te) (DIS)					<0.1
Thallium (Tl) (DIS)			<0.002	<0.002	0.007
Vanadium (V) (DIS)			<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	0.15	0.79	1.49	0.19	5.12

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.35	0.29	0.31	0.22	0.26
pH	7.7	6.9	7.2	7.1	7.3
Depth To Water Level (ft)	6.63	6.26	6.56	7.06	6.08

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-10	APSD-10	APSD-10	APSD-10	APSD-10
Water	SAMPLE DATE	5/16/2007	12/11/2007	5/9/2008	11/10/2008	5/13/2009
	SAMPLE TIME	15:00	13:30	12:25	14:05	14:55
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H07050193-003	H07120112-006	H08050176-007	H08110106-013	H09050210-015
	SAMPLE NUMBER	AEH-0705-163	AEH-0711-230	AEH-0805-199	AEH-0811-207	AEH-0905-202
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fld-Lab: ppm unless noted**

pH (Fld)	7.33	6.87	7.34	6.7	6.94
SC (umhos/cm at 25 C) (Fld)	357	870	1449	983	1837
SC (umhos/cm at 25 C)	360	906	1500	1010	1790
Total Suspended Solids	<10	14	14	13	14
TDS (Measured at 180 C)	240	688	1340	734	1610
Water Temperature (C) (Fld)	13.71	8.9	5.8	11	6.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-11	APSD-11	APSD-11	APSD-11	APSD-11	APSD-11
Water	SAMPLE DATE	11/17/1993	4/12/1994	5/13/1994	5/13/1994	7/14/1994	8/22/1994
	SAMPLE TIME	12:45	08:15	08:40	10:15	08:30	09:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-9344	94-591012	94-1376	94-1381	94-1209012	94-1504001
	SAMPLE NUMBER	EHC-9311-186	AHCL-9404-161	EHC-9405-107	EHC-9405-181	AHCL-9407-111	AHCL-9408-301
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	3.1		3.3	3.6
Sulfate (SO4)	32 J		25 J	27 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.02 U	0.01 U	0.02 U	0.02	0.02	0.03 U
Arsenic III (dis)	0.02 U		0.006 U	0.008 U		
Arsenic V (dis)	0.02 J		0.03 UJ	0.01 UJ		
Cadmium (Cd) (DIS)	0.002	0.003 U	0.001	0.002	0.001	0.01 J
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005 JU	<0.005 UJ	<0.005	<0.005
Zinc (Zn) (DIS)	0.02 UJ	0.02 U	0.02	0.02	0.02 U	0.06 U

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.1	2.2	1.8	1.8	1.4	2.8
Depth To Water Level (ft)	8.5	8.3	8.4	8.4	7.8	8.8
pH (Fld)	7.5	7.9	7.2	7.2	5.7	7.1
SC (umhos/cm at 25 C) (Fld)	264	319	266	262	287	377
SC (umhos/cm at 25 C)	250 J		243 J	247 J		
TDS (Measured at 180 C)	163	202	163	166	160	172
Water Temperature (C) (Fld)	9	2.3	6.4	6.4	14.8	13.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-11	APSD-11	APSD-11	APSD-11	APSD-11	APSD-11
Water	SAMPLE DATE	9/26/1994	10/20/1994	11/14/1994	3/29/1995	4/25/1995	5/12/1995
	SAMPLE TIME	12:00	13:00	10:45	14:05	15:30	10:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1778020	94-1932007	94-3363	95-616002	95-826022	95-4500
	SAMPLE NUMBER	AHCL-9409-401	AHCL-9410-301	EHC-9411-107	AHCL-9503-101	AHCL-9504-123	EHC-9505-103
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)				3.5			3.3
Sulfate (SO4)				32			23

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.02 U	0.02 U	0.02	0.01	0.008	0.009
Arsenic III (dis)			0.02 U			<0.004
Arsenic V (dis)			0.02 U			0.02 UJ
Cadmium (Cd) (DIS)	0.003	<0.001	0.001	<0.001	<0.001	0.001
Copper (Cu) (DIS)	0.005	<0.004	<0.004	<0.004	<0.004	0.006
Lead (Pb) (DIS)	<0.005	<0.005	<0.005 UJ	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	0.02 U	0.02	0.01 U	<0.008	0.01	0.02 J

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.5	3.5	1.8	2	4.7	6.1
pH			7.3			7.3
Depth To Water Level (ft)	8.9	8.6	8.6	8.6	8.3	8
Eh (millivolts)	-545	2		-21	-133	
pH (Fld)	7.04	7.2	7.3	7.5	7.3	7.03
SC (umhos/cm at 25 C) (Fld)	306	335	310	212 J	327	255
SC (umhos/cm at 25 C)			306			244 J
TDS (Measured at 180 C)	224	212 J	202	201	212	161 J
Water Temperature (C) (Fld)	18.4	14.7	11.2	2.3	3.7	5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-11	APSD-11	APSD-11	APSD-11	APSD-11	APSD-11
Water	SAMPLE DATE	5/22/1995	6/19/1995	7/18/1995	8/16/1995	9/15/1995	10/23/1995
	SAMPLE TIME	18:30	16:50	10:30	10:25	12:45	17:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-1057001	95-1280002	95-1523002	95-1778002	95-2070006	95-2401007
	SAMPLE NUMBER	AHCL-9505-101	AHCL-9506-101	AHCL-9507-101	AHCL-9508-101	AHCL-9509-101	AHCL-9510-101
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.01	0.01 J	0.05	0.07	0.03	0.03 J
Cadmium (Cd) (DIS)	0.002	0.003	<0.001	<0.001	<0.001	0.001
Copper (Cu) (DIS)	<0.004	0.004	<0.008	<0.004	0.005	<0.004
Iron (Fe) (DIS)	4.9					
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	0.005	<0.005
Zinc (Zn) (DIS)	0.05	0.08	0.03	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.5	1.2	1.6	1.2	1.7	1.4
Depth To Water Level (ft)	8.8	7.6	8.2	8.6	8.2	8.5
Eh (millivolts)	3	-34	-116	-102	120	115
pH (Fld)	7	6.6	7.06	7.2	6.9	6.6
SC (umhos/cm at 25 C) (Fld)	321	303	433	443	343	287
TDS (Measured at 180 C)	152	192	204	293	214	213
Water Temperature (C) (Fld)	6.7	9.3	11.7	15.3	17	12.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-11	APSD-11	APSD-11	APSD-11	APSD-11	APSD-11
Water	SAMPLE DATE	11/8/1995	11/8/1995	5/8/1996	6/24/1996	9/19/1996	11/6/1996
	SAMPLE TIME	13:15	13:15	11:10	11:55	14:20	09:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-2532024	95-6121	96-6739	96-1243012	96-1924016	96-7712
	SAMPLE NUMBER	AHCL-9511-101	EHC-9511-103	EHC-9605-201	EHC-9606-101	EHC-9609-101	EHC-9611-201
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	2.1 J	3.9	3.5
Sulfate (SO4)	38 J	33	40 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.02	0.02	0.01	0.04	0.03 J	0.02
Arsenic III (dis)		0.009	0.005 J			0.01
Arsenic V (dis)		0.01 J	0.009 J			0.008 U
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.008	<0.004	<0.004	<0.008	<0.004	<0.004
Lead (Pb) (DIS)	<0.005	<0.005 UJ	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	<0.02	<0.006	<0.02	0.03	0.03 U	0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.6	0.6	1.6	1.3	1.7	1.5
pH		6.9	6.9			6.9
Depth To Water Level (ft)	8.8	8.8	8.5	8.1	8.4	8.3
Eh (millivolts)	93		248	201	132	168
pH (Fld)	6.7	6.7	7.5	7	7.3	7.9
SC (umhos/cm at 25 C) (Fld)	310	310	341	352	345	349
SC (umhos/cm at 25 C)		316 J	260			344
TDS (Measured at 180 C)	194	240 J	204	224	247	241
Water Temperature (C) (Fld)	12.1	12.1	3.1	9.8	17	11.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-11	APSD-11	APSD-11	APSD-11	APSD-11	APSD-11
Water	SAMPLE DATE	5/7/1997	11/5/1997	5/13/1998	11/19/1998	5/12/1999	11/17/1999
	SAMPLE TIME	12:00	11:40	10:40	15:45	12:15	11:35
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	97-943	188-2700	263-3801	311-4430	348-4916	L992055002
	SAMPLE NUMBER	EHC-9705-201	EHC-9711-201	EHC-9805-201	EHC-9811-201	EHC-9905-201	EHC-9911-103
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)			178	249 J	232 J	248
Calcium (Ca) (DIS)			58	69	147	82
Carbonate As CO3					<1 UJ	<1
Chloride (Cl)	4	6	4	6.7	20	6.7
Magnesium (Mg) (DIS)			11	12	32	14
Potassium (K) (DIS)			<5	<5	7.3	<5
Sodium (Na) (DIS)			21 J	17	57	20
Sulfate (SO4)	44	129	74	55	556	112 J
Total Alkalinity As CaCO3			146	204 J	190 J	203

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.02	0.1 J	0.06	0.1 J	0.1	0.1
Arsenic III (dis)	0.01	0.1	0.05	0.07 J	0.07	0.1
Arsenic V (dis)	<0.005	0.02	0.02	0.05	0.04	0.03 J
Cadmium (Cd) (DIS)	<0.001	0.002	0.002	0.004	0.02	0.004
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004 J
Iron (Fe) (DIS)			8.6	9.2	11.3	11
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)			2.2	2.7	4.3	3.3
Zinc (Zn) (DIS)	<0.02	0.08 J	0.1 J	0.1	0.5	0.1

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	2	3.2	2	2.3	2.7	1.4
pH	6.9	7	7	7.6	7.4	7.1
Depth To Water Level (ft)	8.2	8.7	8.1	8.1	7.9	8.06
Eh (millivolts)	147			131	216	143
pH (Fid)	7.2	7.4	6.8	7	7.2	7.2
SC (umhos/cm at 25 C) (Fid)	325	659	450	553	1094	689
SC (umhos/cm at 25 C)	351	616	474	512	1189	615
Total Suspended Solids	17	<1 J				30 J
TDS (Measured at 180 C)	249	436	342	329	901	414
Water Temperature (C) (Fid)	6.4	13.2	8.1	12.4	5.5	13.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-11	APSD-11	APSD-11	APSD-11	APSD-11	APSD-11
Water	SAMPLE DATE	5/9/2000	11/10/2000	5/8/2001	11/14/2001	5/31/2002	11/13/2002
	SAMPLE TIME	10:30	12:50	13:45	11:35	15:15	12:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000705003	L001897002	L010655022	L011563002	L020412014	L020948004
	SAMPLE NUMBER	EHC-0005-102	EHC-0011-102	EHC-0105-102	EHC-0111-101	EHC-0205-103	EHC-0211-221
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	254	317	317	232	163	206
Calcium (Ca) (DIS)	61	87	127	67	43	56
Carbonate As CO3	<1	<1		<1	<1	<1
Chloride (Cl)	7.7	7.7 J		14	7	4.7
Magnesium (Mg) (DIS)	11	14	24	11	8.2	9.8
Potassium (K) (DIS)	<5	<5	6.5	<5	<5	<5
Sodium (Na) (DIS)	20	27	37	19	22	16
Sulfate (SO4)	114	116	320	63	51	32
Total Alkalinity As CaCO3	208	260	260	190	134	169

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		<0.01	<0.05	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	0.06	0.2	0.08	0.2	0.07	0.1
Arsenic III (dis)	0.06 U	0.2	0.03	0.1 J	0.02	0.03
Arsenic V (dis)	0.02 U	0.02	0.05	0.08	0.05	0.1
Cadmium (Cd) (DIS)	<0.001	<0.001	0.07	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	8.7	11	7.5	11	8.6	9.9
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.3	3.4	4.2	2.5	1.7	2
Zinc (Zn) (DIS)	0.03	0.09	1.1	0.03	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				-115	-14.4	
Oxygen (O) (DIS) (Fld)	7.1	0.6	1.2	0.4	0.4	2.9
pH	7.3	7.5	8.4	7	6.6	7
Silicon+Silica (Si+SiO2)		31	23	29	20	28
Depth To Water Level (ft)	8.1	8.2	7.4	8.6	9	8.9
Eh (millivolts)	216	109	196	131		
pH (Fld)	7.09	6.9	7.2	6.9	7	6.3
SC (umhos/cm at 25 C) (Fld)	561	861	974	876	477	380
SC (umhos/cm at 25 C)	607	751	1086	492	379	410
Total Suspended Solids			21	34	38	36
TDS (Measured at 180 C)	396	511	782	349	251	278
Salinity (G/KG) (Fld)						0.1
Turbidity (NTU) (Fld)						8
Water Temperature (C) (Fld)	7.3	13.2	7.9	14.3	3.5	13.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-11	APSD-11	APSD-11	APSD-11	APSD-11	APSD-11
Water	SAMPLE DATE	5/30/2003	10/25/2003	5/13/2004	10/22/2004	5/9/2005	11/3/2005
	SAMPLE TIME	14:45	00:00	09:47	00:00	13:24	11:06
	LAB	ASARCO	TSC-SLC	ASARCO	ASARCO	ELI-Casper	ASARCO
	LAB NUMBER	0306-220	AEH-0310-449	AEH-0405-232	z	AEH-0505-APSD11	AEH-0511-241
	SAMPLE NUMBER	AEH-0306-220	AEH-0310-449	AEH-0405-232	AEH-0411-257	AEH-0505-APSD11	AEH-0511-241
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		SWL Only Req	SWL Only Req	SWL Only Req	SWL Only Req	SWL Only
	REMARKS		No Sample	No Sample	No Sample	No Sample	No Sample
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Depth To Water Level (ft)	7.5	8.9	8.18	8.36	7.78	8.13

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-11	APSD-11	APSD-11	APSD-11	APSD-11	APSD-11
Water	SAMPLE DATE	4/25/2006	11/20/2006	11/1/2007	5/15/2008	11/6/2008	5/12/2009
	SAMPLE TIME	13:06	00:00	10:34	14:20	10:12	12:45
	LAB	Hydro	Hydrometrics	Hydrometrics	ELI	ELI	ELI
	LAB NUMBER	AEH-0605-APSD11	AEH-0611-APSD11	AEH-0711-APSD11	H08050269-003	H08110088-002	H09050193-006
	SAMPLE NUMBER	AEH-0605-APSD11	AEH-0611-APSD11	AEH-0711-APSD11	AEH-0805-261	AEH-0811-181	AEH-0905-180
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only	SWL Only	SWL Only Req			
	REMARKS	No Sample	No Sample	No Sample			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	160	130	150
Calcium (Ca) (DIS)	56	69	55
Chloride (Cl)	6	5	5
Magnesium (Mg) (DIS)	11	15	10
Potassium (K) (DIS)	3	3	3
Sodium (Na) (DIS)	18	13	16
Sulfate (SO4)	43	140	92
Total Alkalinity As CaCO3	130	100	120

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005	
Selenium-VI (DIS)	<0.005	<0.005	
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.005	<0.005	<0.003
Arsenic (As) (DIS)	0.023	0.01	0.027
Arsenic III (DIS)	0.0149	0.014 J	
Arsenic V (DIS)	<0.005	<0.005 J	
Barium (Ba) (DIS)	0.1	0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01	0.0013
Copper (Cu) (DIS)	<0.004	<0.004	<0.001
Gold (Au) (DIS)			<0.01
Iron (Fe) (DIS)	8.28	8.09	5.25
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	1.97	2.05	1.58
Mercury (Hg) (DIS)	<0.006	<0.006	<0.0001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	<0.005	<0.005	0.002 UJ
Silver (Ag) (DIS)	<0.005	<0.005	<0.005 R
Tellurium (Te) (DIS)			<0.1
Thallium (Tl) (DIS)	<0.002	<0.002	0.001
Vanadium (V) (DIS)	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	0.02	0.03	0.11 UJ

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)				0.15	0.69	0.15
pH				6.8	7.3	7.3
Depth To Water Level (ft)	7.44	8.42	7.81	8.12	8.8	7.7
pH (Fld)				6.57	6.78	6.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-11	APSD-11	APSD-11
Water	SAMPLE DATE	5/15/2008	11/6/2008	5/12/2009
	SAMPLE TIME	14:20	10:12	12:45
	LAB	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H08050269-003	H08110088-002	H09050193-006
	SAMPLE NUMBER	AEH-0805-261	AEH-0811-181	AEH-0905-180
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI
	DESCRIPTION			
	REMARKS			

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	373	537	457
SC (umhos/cm at 25 C)	352	492	440
Total Suspended Solids	16	65	20
TDS (Measured at 180 C)	227	361	294
Water Temperature (C) (Fid)	5.6	11.67	4.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-12	APSD-12	APSD-12	APSD-12	APSD-12	APSD-12
Water	SAMPLE DATE	11/17/1993	4/12/1994	5/13/1994	7/14/1994	8/22/1994	9/26/1994
	SAMPLE TIME	12:20	10:15	09:50	09:00	10:10	12:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-9345	94-592002	94-1377	94-1209015	94-1504007	94-1778021
	SAMPLE NUMBER	EHC-9311-187	AHCL-9404-164	EHC-9405-108	AHCL-9407-114	AHCL-9408-302	AHCL-9409-402
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	6.7	4.7
Sulfate (SO4)	70	81 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.1	0.07 U	0.1	0.1	0.1	0.1
Arsenic III (dis)	0.1		0.04			
Arsenic V (dis)	0.02 J		0.05 J			
Cadmium (Cd) (DIS)	0.004	0.006 U	0.005	0.002	0.01 J	0.003
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.006
Lead (Pb) (DIS)	<0.005	<0.005	<0.005 UJ	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	0.03 J	0.4	0.05	0.04 U	0.05 U	0.01 U

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.6	2	2.3	1.4	2.2	3
Depth To Water Level (ft)	5.8	5.7	5.9	6	6.08	6.3
Eh (millivolts)						-74
pH (Fld)	7.4	7.8	7.4	6.7	7.3	7.2
SC (umhos/cm at 25 C) (Fld)	721	602	426	400	659	447
SC (umhos/cm at 25 C)	715 J		401 J			
TDS (Measured at 180 C)	497	397	268	266	311	304
Water Temperature (C) (Fld)	7.8	6.8	8.3	10.2	10.7	15.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-12	APSD-12	APSD-12	APSD-12	APSD-12	APSD-12
Water	SAMPLE DATE	10/20/1994	11/14/1994	3/29/1995	4/25/1995	5/12/1995	5/23/1995
	SAMPLE TIME	13:30	13:45	14:30	16:25	13:40	12:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1932008	94-3364	95-616003	95-826026	95-4501	95-1057009
	SAMPLE NUMBER	AHCL-9410-302	EHC-9411-108	AHCL-9503-102	AHCL-9504-127	EHC-9505-104	AHCL-9505-102
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

### Common Ions (mg/L): ppm unless noted

Chloride (Cl)	4.2	4.1
Sulfate (SO4)	59	103

### Metals (mg/L): ppm unless noted

Arsenic (As) (DIS)	0.2	0.2	0.1	0.1	0.1	0.1
Arsenic III (dis)		0.1			0.04 J	
Arsenic V (dis)		0.07			0.04 J	
Cadmium (Cd) (DIS)	0.001	<0.001	0.01	0.003	0.005	0.003
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	0.007	<0.004
Iron (Fe) (DIS)						7
Lead (Pb) (DIS)	<0.005	<0.005 UJ	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	0.02	0.01 U	0.3	0.02	0.02 J	0.009

### Physical/Fid-Lab: ppm unless noted

Oxygen (O) (DIS) (Fld)	3.4	3.03		10.09	8.4	2.2
pH		7.2			7.3	
Depth To Water Level (ft)	5.9	5.7	5.9	5.7	5.5	5.3
Eh (millivolts)	21		-55	-115		-10
pH (Fld)	7.3	7.1	7.5	7.4	7.6	6.8
SC (umhos/cm at 25 C) (Fld)	478	448	553 J	542	423	575
SC (umhos/cm at 25 C)		448			420 J	
TDS (Measured at 180 C)	307 J	298	452	330	266 J	309 J
Water Temperature (C) (Fld)	13.5	11.1	5.1	5.8	5.4	7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-12	APSD-12	APSD-12	APSD-12	APSD-12	APSD-12
Water	SAMPLE DATE	6/19/1995	7/18/1995	8/16/1995	9/15/1995	10/23/1995	11/8/1995
	SAMPLE TIME	18:00	11:20	11:15	13:45	17:15	14:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-1280003	95-1523003	95-1778003	95-2070005	95-2401002	95-2532001
	SAMPLE NUMBER	AHCL-9506-102	AHCL-9507-102	AHCL-9508-102	AHCL-9509-102	AHCL-9510-102	AHCL-9511-102
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.1	0.03	0.1	0.1	0.1 J	0.1
Cadmium (Cd) (DIS)	<0.001	0.001	<0.001	<0.001	0.002	<0.001
Copper (Cu) (DIS)	0.004	<0.008	<0.004	0.005	0.006	<0.008
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.6	4.7	5.2	1.5	4.4	1.9
Depth To Water Level (ft)	5.1	5.6	8	5.5	5.8	5.6
Eh (millivolts)	-83	-128	-113	122	120	95
pH (Fld)	6.7	6.9	7.2	7.08	6.6	6.8
SC (umhos/cm at 25 C) (Fld)	631	842	815	596	521	543
TDS (Measured at 180 C)	410	526	590	352	394	372
Water Temperature (C) (Fld)	7.4	10.8	11.9	12.8	11.7	11.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-12	APSD-12	APSD-12	APSD-12	APSD-12	APSD-12
Water	SAMPLE DATE	11/8/1995	5/8/1996	6/24/1996	9/19/1996	11/6/1996	5/7/1997
	SAMPLE TIME	14:30	12:10	12:30	12:30	08:25	11:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-6109	96-6724	96-1243007	96-1924015	96-7713	97-944
	SAMPLE NUMBER	EHC-9511-104	EHC-9605-202	EHC-9606-102	EHC-9609-102	EHC-9611-202	EHC-9705-202
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	417 J	6.7			5.4	4
Sulfate (SO4)	505 J	192			127 J	207

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.2	0.2	0.2	0.2	0.2	0.1
Arsenic III (dis)	0.1	0.04 J			0.1	0.09
Arsenic V (dis)	0.04 J	0.08 J			0.03 U	0.01
Cadmium (Cd) (DIS)	<0.001	0.004	0.003	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.008	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	0.006	0.05	<0.02	0.02 U	0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.9	7	3.7	4.08	3.5	3.04
pH	7	6.8			6.9	6.9
Depth To Water Level (ft)	5.6	5.8	5.5	5.7	5.5	5.5
Eh (millivolts)		178	168	117	251	201
pH (Fld)	6.8	7.2	7.3	7.1	8.2	7.03
SC (umhos/cm at 25 C) (Fld)	543	659	567	532	619	590
SC (umhos/cm at 25 C)	594 J	590			595	620
Total Suspended Solids						22
TDS (Measured at 180 C)	428 J	407	373	396	428	471
Water Temperature (C) (Fld)	11.4	6.3	9.9	12.5	10.9	8.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-12	APSD-12	APSD-12	APSD-12	APSD-12	APSD-12
Water	SAMPLE DATE	11/5/1997	5/13/1998	11/19/1998	5/12/1999	11/17/1999	5/9/2000
	SAMPLE TIME	13:30	11:35	16:15	13:50	13:15	11:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	189-2708	263-3802	311-4431	348-4917	L992055003	L000705004
	SAMPLE NUMBER	EHC-9711-202	EHC-9805-202	EHC-9811-202	EHC-9905-202	EHC-9911-104	EHC-0005-103
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		139	239 J	161 J	244	226
Calcium (Ca) (DIS)		51	56	50	59	49
Carbonate As CO3				<1 UJ	<1	<1
Chloride (Cl)	3	5	4.4	4	4	4.5
Magnesium (Mg) (DIS)		8	10	8.9	12	9.1
Potassium (K) (DIS)		5	<5	<5	6	<5
Sodium (Na) (DIS)		19 J	24	23 J	24	21
Sulfate (SO4)	119	91	59	76	47 J	28
Total Alkalinity As CACO3		114	196 J	132 J	200	185

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.1 J	0.1	0.07 J	0.08	0.07	0.07
Arsenic III (dis)	0.08	0.1	0.06 J	0.08	0.07	0.08 U
Arsenic V (dis)	0.02	0.02	0.01	0.02	0.01 J	0.02 U
Cadmium (Cd) (DIS)	<0.001	0.02	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004 J	0.008
Iron (Fe) (DIS)		6.8	8.3	7.5	7.7	5.7
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		1.6	1.8	1.7	1.9	1.6
Zinc (Zn) (DIS)	<0.02 J	0.05 J	<0.02	<0.02	<0.02	0.04

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	4.5	4.2	5.3	3.9	3.9	7.6
pH	6.9	7.2	7.6	7.9	7.6	7.1
Depth To Water Level (ft)	5.9	6.4	5.1	5.03	5	5
Eh (millivolts)			112	188	147	256
pH (Fid)	7.5	6.8	6.9	7.3	7.5	7.2
SC (umhos/cm at 25 C) (Fid)	621	417	560	473	475	440
SC (umhos/cm at 25 C)	613	437	508	447	473	417
Total Suspended Solids	15 J				18 J	
TDS (Measured at 180 C)	431 J	312	331	324	297	276
Water Temperature (C) (Fid)	9.7	9.2	8.8	7.7	10.9	7.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-12	APSD-12	APSD-12	APSD-12	APSD-12	APSD-12
Water	SAMPLE DATE	11/10/2000	11/10/2000	5/8/2001	11/14/2001	5/31/2002	11/13/2002
	SAMPLE TIME	13:45	13:50	13:30	12:05	15:30	13:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001897003	L001897032	L010655023	L011563003	L020412015	L020948005
	SAMPLE NUMBER	EHC-0011-103	EHC-0011-177	EHC-0105-103	EHC-0111-102	EHC-0205-104	EHC-0211-102
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	266	271	243	239	178	232
Calcium (Ca) (DIS)	62	60	59	71	60	60
Carbonate As CO3	<1	<1		<1	<1	<1
Chloride (Cl)	4.2 J	6 J	10	7.6	6.9	5.5
Magnesium (Mg) (DIS)	11	10	11	13	11	11
Potassium (K) (DIS)	5.3	5.6	5.1	6.5	5.1	5.5
Sodium (Na) (DIS)	27	26	36	30	30	32
Sulfate (SO4)	56	63	45	91	109	53
Total Alkalinity As CaCO3	218	222	205	196	146	190

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	0.08	0.08	0.1	0.07	0.08	0.07
Arsenic III (dis)	0.09	0.08	0.05	0.04 J	0.03	0.02
Arsenic V (dis)	<0.02	<0.02	0.09	0.03	0.04	0.05
Cadmium (Cd) (DIS)	<0.001	<0.001	0.005	<0.001	0.04	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	5.7	5.8	7.8	8.2	7.7	7.7
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	0.01	<0.005
Manganese (Mn) (DIS)	1.7	1.7	2.2	2	1.6	1.7
Zinc (Zn) (DIS)	<0.02	<0.02	0.2	<0.02	0.08	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				-87.8	-4.8	
Oxygen (O) (DIS) (Fld)	2.8	2.8	1.9	1.3	0.3	6.02
pH	8.1	7.7	8.5	7.1	6.6	6.9
Silicon+Silica (Si+SiO2)	28	28	28	31	23	25
Depth To Water Level (ft)	5.05		4.6	15.05 A	6.09	6.05
Eh (millivolts)	149	142	191	158		
pH (Fld)	6.9	6.9	7.4	7.06	6.6	6.3
SC (umhos/cm at 25 C) (Fld)	569	571	510	601	595	421
SC (umhos/cm at 25 C)	536	531	533	560	489	490
Total Suspended Solids			19	19	17	20
TDS (Measured at 180 C)	358	364	340	396	359	319
Salinity (G/KG) (Fld)						0.1
Turbidity (NTU) (Fld)						6
Water Temperature (C) (Fld)	11.4	11.4	7.8	10.9	6.9	9.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-12	APSD-12	APSD-12	APSD-12	APSD-12	APSD-12
Water	SAMPLE DATE	5/30/2003	10/25/2003	5/13/2004	10/22/2004	5/9/2005	11/3/2005
	SAMPLE TIME	14:50	00:00	09:50	00:00	13:26	11:11
	LAB	ASARCO	TSC-SLC	ASARCO	ASARCO	ELI-Casper	ASARCO
	LAB NUMBER	0306-221	AEH-0310-450	AEH-0405-233	z	AEH-0505-APSD12	AEH-0511-242
	SAMPLE NUMBER	AEH-0306-221	AEH-0310-450	AEH-0405-233	AEH-0411-242	AEH-0505-APSD12	AEH-0511-242
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		SWL Only Req	SWL Only Req	SWL Only Req	SWL Only Req	SWL Only
	REMARKS		No Sample	No Sample	No Sample	No Sample	No Sample
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Depth To Water Level (ft)	4.9	6.15	5.48	5.43	5.19	5.32

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-12	APSD-12	APSD-12	APSD-12	APSD-12	APSD-12
Water	SAMPLE DATE	4/25/2006	11/20/2006	11/1/2007	5/15/2008	11/6/2008	5/12/2009
	SAMPLE TIME	13:09	00:00	10:34	13:30	10:34	15:55
	LAB	Hydro	Hydrometrics	Hydrometrics	ELI	ELI	ELI
	LAB NUMBER	AEH-0605-APSD12	AEH-0611-APSD12	AEH-0711-APSD12	H08050269-001	H08110088-003	H09050193-012
	SAMPLE NUMBER	AEH-0605-APSD12	AEH-0611-APSD12	AEH-0711-APSD12	AEH-0805-259	AEH-0811-182	AEH-0905-186
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only	SWL Only	SWL Only Req			
	REMARKS	No Sample	No Sample	No Sample			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	170	250	170
Calcium (Ca) (DIS)	87	86	70
Chloride (Cl)	7	3	5
Magnesium (Mg) (DIS)	12	12	11
Potassium (K) (DIS)	5	6	5
Sodium (Na) (DIS)	19	24	18
Sulfate (SO4)	92	100	130
Total Alkalinity As CaCO3	140	200	140

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005	
Selenium-VI (DIS)	<0.005	<0.005	
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.005	<0.005	<0.003
Arsenic (As) (DIS)	0.085	0.07	0.074
Arsenic III (DIS)	0.0573	0.0672	
Arsenic V (DIS)	0.005	<0.005	
Barium (Ba) (DIS)	0.1	0.1	0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01	0.0014
Copper (Cu) (DIS)	<0.004	<0.004	0.001 UJ
Gold (Au) (DIS)			<0.01
Iron (Fe) (DIS)	9.24	8.56	7.34
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	1.96	1.73	1.6
Mercury (Hg) (DIS)	<0.006	<0.006	0.0002
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	<0.005	<0.005	0.003 UJ
Silver (Ag) (DIS)	<0.005	<0.005	<0.005 R
Tellurium (Te) (DIS)			<0.1
Thallium (Tl) (DIS)	<0.002	<0.002	<0.001
Vanadium (V) (DIS)	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	<0.02	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)				0.21	0.33	0.25
pH				6.8	7.4	7.3
Depth To Water Level (ft)	4.78	5.44	4.98	5.41	6.14	5.1
pH (Fld)				6.65	6.82	7.02

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-12	APSD-12	APSD-12
Water	SAMPLE DATE	5/15/2008	11/6/2008	5/12/2009
	SAMPLE TIME	13:30	10:34	15:55
	LAB	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H08050269-001	H08110088-003	H09050193-012
	SAMPLE NUMBER	AEH-0805-259	AEH-0811-182	AEH-0905-186
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI
	DESCRIPTION			
	REMARKS			

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	515	589	547
SC (umhos/cm at 25 C)	478	568	532
Total Suspended Solids	24 J+	22	22
TDS (Measured at 180 C)	175 R	386	363
Water Temperature (C) (Fid)	10.7	11.3	6.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-13	APSD-13	APSD-13	APSD-13	APSD-13	APSD-13
Water	SAMPLE DATE	11/17/1993	11/17/1993	4/12/1994	5/13/1994	7/14/1994	8/22/1994
	SAMPLE TIME	08:00	09:15	15:15	14:20	15:30	14:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-9349	93-9346	94-592009	94-1378	94-1209024	94-1504008
	SAMPLE NUMBER	EHC-9311-191	EHC-9311-188	AHCL-9404-171	EHC-9405-109	AHCL-9407-123	AHCL-9408-303
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

### Common Ions (mg/L): ppm unless noted

Chloride (Cl)	101 J	99 J		32		
Sulfate (SO4)	872 J	723 J		236 J		

### Metals (mg/L): ppm unless noted

Arsenic (As) (DIS)	3.2	3.4	6	5	11.2	5.5
Arsenic III (dis)	0.03	0.03		0.008 U		
Arsenic V (dis)	3.5 J	3.7 J		5.2 J		
Cadmium (Cd) (DIS)	24	24.5	11.2	6.5	6.9	6.8 J
Copper (Cu) (DIS)	0.04	0.04	0.08	0.04	0.06	0.05
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005 UJ	<0.005	<0.005
Zinc (Zn) (DIS)	34 J	35 J	14.5	8.3	8.6	6.6

### Physical/Fld-Lab: ppm unless noted

Oxygen (O) (DIS) (Fld)	2.8	2.8	2	2.2	2	2.4
Depth To Water Level (ft)	11.9	11.9	12	11.9	11.6	11.8
pH (Fld)	6.4	6.5	5.4	6.5	6.7	6.8
SC (umhos/cm at 25 C) (Fld)	1917	1909	1067	900	852	1047
SC (umhos/cm at 25 C)	1825 J	1826 J		825 J		
TDS (Measured at 180 C)	1339	1351	794	581	607	580
Water Temperature (C) (Fld)	10	10	10.9	10.1	11.7	11.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-13	APSD-13	APSD-13	APSD-13	APSD-13	APSD-13
Water	SAMPLE DATE	9/27/1994	10/21/1994	11/21/1994	4/1/1995	4/25/1995	5/17/1995
	SAMPLE TIME	12:20	11:45	12:10	09:30	18:40	13:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1778005	94-1932023	94-3382	95-651001	95-826001	95-4502
	SAMPLE NUMBER	AHCL-9409-403	AHCL-9410-303	EHC-9411-109	AHCL-9503-103	AHCL-9504-100	EHC-9505-105
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)				27			46
Sulfate (SO4)				165			258

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	5.7	7.3	6.2	10.7	10.4	8.3
Arsenic III (dis)			0.02			0.02
Arsenic V (dis)			6.1 J			9.5 J
Cadmium (Cd) (DIS)	6.4	6.5	5	7.7	7.1	6.7
Copper (Cu) (DIS)	0.06	0.03	0.06	0.2	0.2	0.2
Lead (Pb) (DIS)	<0.005	<0.005	<0.005 J	0.007	0.02 J	0.02
Zinc (Zn) (DIS)	6.2	7.7	5.9	14.8	10.9	9.9

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.9	5.1	1.6	9.1	7.2	1.8
pH			6.7			7.1
Depth To Water Level (ft)	12.2	12.2	12.3	15	14.9	14.3
Eh (millivolts)	176	208		278	102	
pH (Fld)	6.9	6.7	6.6	6.3	6.5	6.6
SC (umhos/cm at 25 C) (Fld)	8.7 A	998	740	1070	1081	847
SC (umhos/cm at 25 C)			695			865 J
TDS (Measured at 180 C)	567	660	357	730	647	576 J
Water Temperature (C) (Fld)	14.7	10.4	10.7	9.6	9.4	10.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-13	APSD-13	APSD-13	APSD-13	APSD-13	APSD-13
Water	SAMPLE DATE	5/23/1995	6/20/1995	7/18/1995	8/16/1995	9/16/1995	10/23/1995
	SAMPLE TIME	16:10	12:30	15:10	15:20	11:00	12:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-1057012	95-1280014	95-1523004	95-1778004	95-2070021	95-2401010
	SAMPLE NUMBER	AHCL-9505-103	AHCL-9506-103	AHCL-9507-103	AHCL-9508-103	AHCL-9509-103	AHCL-9510-103
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	6.6	7.5	6.3	6	7.1	7.3
Cadmium (Cd) (DIS)	6.3	9.5	11.6	18.1	17	13.5
Copper (Cu) (DIS)	0.1	0.2	0.2	0.2	0.3	0.3
Iron (Fe) (DIS)	<0.02					
Lead (Pb) (DIS)	0.01	0.008	0.01	0.01	0.01	0.01
Zinc (Zn) (DIS)	6.6	13.3	14.7	23	24.3	23.8

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.6	0.8	1.6	5.08	9	4.3
Depth To Water Level (ft)	14.2	13.5	14.2	14.5	14.04	14.3
Eh (millivolts)	51	72	1	-13	0.0	197
pH (Fld)	6.8	6.4	6.6	6.7	6.2	5.7
SC (umhos/cm at 25 C) (Fld)	1043	1415	1395	1670	1480	1384
TDS (Measured at 180 C)	398 J	656	934	1220	1089	1172
Water Temperature (C) (Fld)	10.9	10.3	11.8	11.8	12.1	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-13	APSD-13	APSD-13	APSD-13	APSD-13	APSD-13
Water	SAMPLE DATE	11/8/1995	11/8/1995	5/8/1996	6/24/1996	9/19/1996	11/5/1996
	SAMPLE TIME	16:10	16:10	15:15	07:15	08:30	09:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-2532002	95-6110	96-6731	96-1243001	96-1924010	96-7714
	SAMPLE NUMBER	AHCL-9511-103	EHC-9511-105	EHC-9605-203	EHC-9606-103	EHC-9609-103	EHC-9611-203
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	77 J	60	57
Sulfate (SO4)	549 J	321	307

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	6.1	5.8 J	6.05	8	6.4	7.9
Arsenic III (dis)		0.004	<0.005 UJ			<0.004
Arsenic V (dis)		6.9 J	6.9 J			7.5 J
Cadmium (Cd) (DIS)	12.2	9.9	7.4	11	8.8	10
Copper (Cu) (DIS)	0.2	0.2	0.1	0.2	0.1	0.2
Lead (Pb) (DIS)	<0.005	<0.005 UJ	<0.005	<0.005	0.004	<0.005
Zinc (Zn) (DIS)	16.01	14.5	10.05	16	11.4	14.3

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.1	2.1	4.6	1.5	4.5	3.8
pH		6.1	6.5			5.8
Depth To Water Level (ft)	14.4	14.4	15.3	14.5	14.9	15.06
Eh (millivolts)	41		161	531	455	219
pH (Fld)	6.3	6.3	6.6	5.9	5.9	6.3
SC (umhos/cm at 25 C) (Fld)	1089	1089	1061	1396	1245	1325
SC (umhos/cm at 25 C)		1270 J	970			1179
TDS (Measured at 180 C)	742	960 J	685	926	727	690
Water Temperature (C) (Fld)	12.1	12.1	8.6	9.5	11.3	10.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-13	APSD-13	APSD-13	APSD-13	APSD-13	APSD-13
Water	SAMPLE DATE	5/7/1997	11/5/1997	5/13/1998	11/20/1998	5/12/1999	11/17/1999
	SAMPLE TIME	12:30	15:30	14:50	12:35	17:00	16:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	97-945	189-2709	263-3803	313-4452	348-4918	L992055004
	SAMPLE NUMBER	EHC-9705-203	EHC-9711-203	EHC-9805-203	EHC-9811-203	EHC-9905-203	EHC-9911-105
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)			68	54	39 J	62
	Calcium (Ca) (DIS)			47	71	49	76
	Carbonate As CO3					<1 UJ	<1
	Chloride (Cl)	69	104	44	71	41	83
	Magnesium (Mg) (DIS)			12	18	14	20
	Potassium (K) (DIS)			13	16	14	16
	Sodium (Na) (DIS)			85 J	108	88	91
	Sulfate (SO4)	469	562	296	394	355	407 J
	Total Alkalinity As CaCO3			56	44	32 J	51
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	9.1	6.7 J	7.6	5.8	8.1	6.1
	Arsenic III (dis)	<0.005	<0.005	0.005	<0.005 J	0.02 U	<0.005
	Arsenic V (dis)	7.4	5.5	7.8	6.04	7.5	5.4
	Cadmium (Cd) (DIS)	10.4	11.4	4.6	6.6	5.6	8.2
	Copper (Cu) (DIS)	0.3	0.4	0.1	0.09	0.1	0.1 J
	Iron (Fe) (DIS)			0.06 J	<0.02	0.05 UJ	0.1
	Lead (Pb) (DIS)	0.01	0.006	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)			3.7	5.5	4.02	6.2
	Zinc (Zn) (DIS)	17.9	20.6 J	7.9	8.5	8.6	11
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	3.5	4.7	1.5	2.09	3.7	1.1
	pH	6.1	6.9	6.4	6.3	6.2	6.4
	Depth To Water Level (ft)	15.4	14.06	14.9	15.4	15.3	15.5
	Eh (millivolts)	286			179	257	245
	pH (Fld)	6.4	6.6	5.8	6.1	6.2	6.4
	SC (umhos/cm at 25 C) (Fld)	1214	1449	799	1090	876	1223
	SC (umhos/cm at 25 C)	1249	1540	928	1179	960	1220
	Total Suspended Solids	21	9 J				5.4 J
	TDS (Measured at 180 C)	763	1199 J	628	822	719	876
	Water Temperature (C) (Fld)	10	11.3	10.7	10.2	8.9	10.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-13	APSD-13	APSD-13	APSD-13	APSD-13	APSD-13
Water	SAMPLE DATE	5/8/2000	11/13/2000	5/8/2001	11/14/2001	5/31/2002	11/13/2002
	SAMPLE TIME	14:35	15:00	10:30	16:40	17:00	15:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000705005	L001897004	L010655024	L011563004	L020412020	L020948012
	SAMPLE NUMBER	EHC-0005-104	EHC-0011-104	EHC-0105-104	EHC-0111-103	EHC-0205-105	EHC-0211-103
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	67	92	71	71	63	50
Calcium (Ca) (DIS)	59	66	53	73	53	67
Carbonate As CO3	<1	<1		<1	<1	<1
Chloride (Cl)	52	47	71	97	75	73
Magnesium (Mg) (DIS)	16	17	14	20	15	19
Potassium (K) (DIS)	11	10	13	15	11	12
Sodium (Na) (DIS)	67	58	72	92	78	97
Sulfate (SO4)	351	243	283	291	269	379
Total Alkalinity As CACO3	55	75	58	58	52	41

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		0.3	0.5	0.5	0.4	0.4
Arsenic (As) (DIS)	6.1	4.2	6.3	5.9	6.3	6.9
Arsenic III (dis)	0.04 UJ	0.07	2.7	2.5	1.7	2.3
Arsenic V (dis)	6	4.3	3.6	2.5	4.6	4.7
Cadmium (Cd) (DIS)	5.1	5.6	5	7	4.3	4.9
Copper (Cu) (DIS)	0.1	0.06	0.08	0.1	0.06	0.1
Iron (Fe) (DIS)	0.09 U	0.4 U	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	0.007 J	<0.005	0.04	<0.005	<0.005
Manganese (Mn) (DIS)	4.6	6	3.8	5.6	4	4.5
Zinc (Zn) (DIS)	8.1	6.1	7.5	8.9	7	8.1

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				-35.2	60.6	
Oxygen (O) (DIS) (Fld)	7	4.05	1.7	0.6	0.3	4.5
pH	6.3	7.1	6.7	6.5	6.5	6.3
Silicon+Silica (Si+SiO2)		33	28	33	28	30
Depth To Water Level (ft)	15.9	15.8	15.3	15.7	16.4	16.3
Eh (millivolts)	361	322	401	210		
pH (Fld)	6.1	6.1	5.8	6.04	5.8	5.7
SC (umhos/cm at 25 C) (Fld)	935	1008	810	1142	1000	1220
SC (umhos/cm at 25 C)	940	880	846	1079	883	1109
Total Suspended Solids			<1	3.4	1.6 J	2.7
TDS (Measured at 180 C)	656	609	586	762	616	777
Salinity (G/KG) (Fld)						0.5
Turbidity (NTU) (Fld)						7
Water Temperature (C) (Fld)	9.3	9.2	9.1	13.4	8.5	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-13	APSD-13	APSD-13	APSD-13	APSD-13	APSD-13
Water	SAMPLE DATE	5/30/2003	10/25/2003	5/21/2004	10/22/2004	10/28/2004	5/12/2005
	SAMPLE TIME	16:30	12:00	11:35	00:00	12:40	15:15
	LAB	TSC-SLC	TSC-SLC	ELI	ASARCO	ELI	ELI-Casper
	LAB NUMBER	L030242016	L030599-005	H04050141-009	z	H04100202-010	C05050485-013
	SAMPLE NUMBER	AEH-0306-115	AEH-0310-343	AEH-0405-148	AEH-0411-245	AEH-0411-151	AEH-0505-139
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION				SWL Only Req		
	REMARKS				No Sample		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	77	71	110		110	128
Calcium (Ca) (DIS)	65	54	42		62	40
Carbonate As CO3	<2	<2				
Chloride (Cl)	56	33	19		30	11
Magnesium (Mg) (DIS)	19	16	11		17	11
Potassium (K) (DIS)	11	11	10		10	7
Sodium (Na) (DIS)	80	73	57		60	39
Sulfate (SO4)	312	248	190		206	109
Total Alkalinity As CaCO3	63	71	92		93	105

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	5.4	6.2	7.43		5.54	5.17
Arsenic III (dis)	5.5	4.7	<0.03		<0.03	0.06
Arsenic V (dis)	<0.005	0.93	6.8		4.7	5.8
Cadmium (Cd) (DIS)	4.8	3	2.661		3.906	1.96
Copper (Cu) (DIS)	0.07	0.057	0.032		0.042	0.018
Iron (Fe) (DIS)	<0.02	<0.03	<0.02		<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005		<0.005	<0.005
Manganese (Mn) (DIS)	4.6	3.9	2.91		3.65	3.03
Zinc (Zn) (DIS)	8.6	5.7	4.95		4.33	2.84

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.0	0.22	0.13		0.23	0.57
pH	7	7.5	6.8		6.8	7.07
Depth To Water Level (ft)	14.9	16.25	15.83	15.33	15.33	15.36
pH (Fld)	6.1	6	5.64		6.28	6.99
SC (umhos/cm at 25 C) (Fld)	1010	836	769		796	515
SC (umhos/cm at 25 C)	988	785	638		703	495
Total Suspended Solids	1.4	<1	<10		<10	<10
TDS (Measured at 180 C)	646	563	362		529	328
TDS - Calculated						308
Salinity (G/KG) (Fld)	0.4	0.3	0.3			
Turbidity (NTU) (Fld)	1	2	0.0			
Water Temperature (C) (Fld)	8.5	12.7	9.5		12.3	8.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-13	APSD-13	APSD-13	APSD-13	APSD-14
Water	SAMPLE DATE	11/11/2005	5/8/2006	11/15/2006	11/1/2007	11/17/1993
	SAMPLE TIME	13:45	11:50	14:55	00:00	10:15
	LAB	ELI-Hel	ELI-Hel	ELI	Hydrometrics	TSC-SLC
	LAB NUMBER	H05110105-013	H06050082-010	H06110138-004	AEH-0711-APSD13	93-9347
	SAMPLE NUMBER	AEH-0511-168	AEH-0605-179	AEH-0611-197	AEH-0711-APSD13	EHC-9311-189
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION				Abandoned	
	REMARKS				No Sample	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	96	80	61	
Calcium (Ca) (DIS)	47	29	40	
Chloride (Cl)	25	11	27	69 J
Magnesium (Mg) (DIS)	14	9	11	
Potassium (K) (DIS)	10	8	12	
Sodium (Na) (DIS)	77	51	114	
Sulfate (SO4)	239	148	304	665 J
Total Alkalinity As CaCO3	79	66	50	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	6.519	8.59	8.97	9.2
Arsenic III (dis)	0.01	9.5	<0.07	0.1 J
Arsenic V (dis)	5	<0.2	7.8 J-	10
Cadmium (Cd) (DIS)	2.723	1.57	3.124	2.9
Copper (Cu) (DIS)	0.025	0.018	0.033	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	0.02
Manganese (Mn) (DIS)	3.04	1.97	2.96	
Zinc (Zn) (DIS)	4.43	3.43	5.66	6.7 J

**Other: ppm unless noted**

No Analysis				0.0
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**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential			-30.3	
Oxygen (O) (DIS) (Fld)	0.46	0.67	0.29	3.4
pH	6.5	6.5	6.2	
Depth To Water Level (ft)	15.17	14.72	14.03	5.4
pH (Fld)	6.16	6	6.5	6.8
SC (umhos/cm at 25 C) (Fld)	905	536	1028	1464
SC (umhos/cm at 25 C)	797	489	882	1490 J
Total Suspended Solids	<10	<10	24 J	
TDS (Measured at 180 C)	520	337	646	1054
Water Temperature (C) (Fld)	12.96	8.95	12.45	10.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-14	APSD-14	APSD-14	APSD-14	APSD-14	APSD-14
Water	SAMPLE DATE	4/12/1994	4/12/1994	5/16/1994	7/14/1994	7/14/1994	8/22/1994
	SAMPLE TIME	16:00	16:15	12:00	16:05	16:15	15:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-592011	94-592012	94-1451	94-1209025	94-1209026	94-1504011
	SAMPLE NUMBER	AHCL-9404-173	AHCL-9404-174	EHC-9405-110	AHCL-9407-124	AHCL-9407-125	AHCL-9408-304
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	39
Sulfate (SO4)	310

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	5.4	5.3	5.5	4.3	4.2	3.8
Arsenic III (dis)			0.007			
Arsenic V (dis)			3.9 J			
Cadmium (Cd) (DIS)	2.4	2.2	2.4	2	1.9	1.6 J
Copper (Cu) (DIS)	<0.004	<0.004	0.005	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	0.01	0.008	0.008	0.007	0.006	<0.005
Zinc (Zn) (DIS)	6.5	6.6	7.1	5.8	5.8	3.3

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.8	1.8	2.3	1.5	1.5	2.7
Depth To Water Level (ft)	5.1	5.1	5.1	4.9	4.9	5.2
pH (Fld)	4	4	6.7	6.7	6.7	6.9
SC (umhos/cm at 25 C) (Fld)	866	866	880	780	780	804
SC (umhos/cm at 25 C)			969 J			
TDS (Measured at 180 C)	620	637	669	541	544	468
Water Temperature (C) (Fld)	10.2	10.2	10.3	13.7	13.7	14.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-15	APSD-15	APSD-15	APSD-15	APSD-15	APSD-15
Water	SAMPLE DATE	5/22/2007	9/12/2007	12/4/2007	2/13/2008	5/7/2008	11/10/2008
	SAMPLE TIME	11:30	11:15	14:43	14:20	17:30	13:15
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07050262-002	H07090115-005	H07120019-007	H08020101-011	H08050154-004	H08110106-009
	SAMPLE NUMBER	AEH-0705-207	AEH-0709-145	AEH-0711-193	AEH-0802-122	AEH-0805-181	AEH-0811-203
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	New Site					
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	240	250		220	210	230
Bicarbonate (HCO3) (dis)			230			
Calcium (Ca) (DIS)	46	57	47	47	60	52
Chloride (Cl)	7	11	7	6	6	8
Magnesium (Mg) (DIS)	10	14	13	12	17	12
Potassium (K) (DIS)	5	7	5	6	6	5
Sodium (Na) (DIS)	20	24	21	25	21	18
Sulfate (SO4)	37	81	48	28	61	49
Total Alkalinity As CaCO3	190	200	190	180	180	190

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)			<0.005		<0.005	<0.005
Selenium-VI (DIS)			<0.005		<0.005	<0.005
Aluminum (Al) (DIS)					<0.1	<0.1
Aluminum (Al) (TOT)					8.9	
Antimony (Sb) (DIS)					<0.005	<0.005
Antimony (Sb) (TOT)					0.008	
Arsenic (As) (DIS)	0.602	1.601	0.487	2.562	0.946	1.07
Arsenic (As) (TOT)	1.08	5.51	16.74	3.65	3.69	
Arsenic III (DIS)	0.66	1.2	0.372	2.51	0.35	0.616
Arsenic V (DIS)	<0.025	0.282	0.253	0.16 J	0.688	0.622
Barium (Ba) (DIS)					<0.1	<0.1
Barium (Ba) (TOT)					0.2	
Beryllium (Be) (DIS)					<0.001	<0.001
Beryllium (Be) (TOT)					<0.001	
Cadmium (Cd) (DIS)	<0.001	0.003	0.005	0.004	0.014	0.01
Cadmium (Cd) (TOT)	0.009	0.025	0.053	0.014	0.031	
Chromium (Cr) (DIS)					<0.001	<0.001
Chromium (Cr) (TOT)					0.008	
Cobalt (Co) (DIS)					0.01	<0.01
Cobalt (Co) (TOT)					0.02	
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)	0.086	0.144	0.104	0.039 J	0.054	
Iron (Fe) (DIS)	3.79	6.1	1.83	6.9	3.57	6.79
Iron (Fe) (TOT)	30.6	47	58.8	17.8	19.7	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	0.319	0.61	0.455	0.188	0.24	
Manganese (Mn) (DIS)	3.53	5.02	2.2	4	3.24	3.53
Manganese (Mn) (TOT)	3.9	5.69	3.42	4.03	3.06	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-15	APSD-15	APSD-15	APSD-15	APSD-15	APSD-15
Water	SAMPLE DATE	5/22/2007	9/12/2007	12/4/2007	2/13/2008	5/7/2008	11/10/2008
	SAMPLE TIME	11:30	11:15	14:43	14:20	17:30	13:15
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07050262-002	H07090115-005	H07120019-007	H08020101-011	H08050154-004	H08110106-009
	SAMPLE NUMBER	AEH-0705-207	AEH-0709-145	AEH-0711-193	AEH-0802-122	AEH-0805-181	AEH-0811-203
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	New Site					
	REMARKS						

**Metals (mg/L): ppm unless noted**

Mercury (Hg) (DIS)						<0.006	<0.006
Mercury (Hg) (TOT)						<0.006 J-	
Nickel (Ni) (DIS)						<0.01	<0.01
Nickel (Ni) (TOT)						0.01	
Selenium (Se) (DIS)				<0.005	<0.005	<0.005	<0.005
Selenium (Se) (TOT)	<0.005			<0.005	<0.005	0.008	
Silver (Ag) (DIS)						<0.005	<0.005
Silver (Ag) (TOT)						<0.005	
Thallium (Tl) (DIS)						<0.002	<0.002
Thallium (Tl) (TOT)						<0.002	
Vanadium (V) (DIS)						<0.01	<0.01
Vanadium (V) (TOT)						0.02	
Zinc (Zn) (DIS)	0.01	0.22	0.23	0.25	0.53	0.35	
Zinc (Zn) (TOT)	0.25	0.85	1.25	0.51	0.82		

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.48	1.64	0.3	0.42	0.37	1.64
pH	7.8	7	7	7.4	7	7.2
Depth To Water Level (ft)	9.34	10.82	9.22	10	9.62	8.47
pH (Fld)	7.21	6.57	6.85	6.62	6.5	6.58
SC (umhos/cm at 25 C) (Fld)	494	538	471	449	481	490
SC (umhos/cm at 25 C)	452	511	443	413	473	468
Total Suspended Solids	942	1370	500	472	283	167
TDS (Measured at 180 C)	302	332	268	266	319	288
Water Temperature (C) (Fld)	9.74	11.5	10.75	10.3	10.8	10.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-15	APSD-16	APSD-16	APSD-16	APSD-16
Water	SAMPLE DATE	5/14/2009	5/22/2007	9/12/2007	12/5/2007	2/13/2008
	SAMPLE TIME	12:20	10:20	11:40	09:30	13:50
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H09050233-010	H07050262-001	H07090115-006	H07120050-001	H08020101-010
	SAMPLE NUMBER	AEH-0905-214	AEH-0705-206	AEH-0709-146	AEH-0711-195	AEH-0802-121
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION		New Site			
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	210	270	270		240
Bicarbonate (HCO3) (dis)				250	
Calcium (Ca) (DIS)	48	56	56	54	48
Chloride (Cl)	5	6	10	8	6
Magnesium (Mg) (DIS)	13	12	12	12	11
Potassium (K) (DIS)	6	7	5	4	3
Sodium (Na) (DIS)	20	34	27	25	20
Sulfate (SO4)	42	7	71	32	31
Total Alkalinity As CaCO3	180	220	220	210	200

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)				<0.005	
Selenium-VI (dis)				<0.005	
Aluminum (Al) (DIS)	<0.1				
Antimony (Sb) (DIS)	<0.003				
Arsenic (As) (DIS)	1.12	2.018	2.368	1.082	1.22
Arsenic (As) (TOT)		2.5	6.99	2.406	37.8
Arsenic III (DIS)		1.79	1.9	0.843	1.02
Arsenic V (DIS)		<0.0499	0.245	0.161	0.267
Barium (Ba) (DIS)	<0.1				
Beryllium (Be) (DIS)	<0.001				
Cadmium (Cd) (DIS)	0.01	0.054	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)		0.169	0.02	0.006	0.077
Chromium (Cr) (DIS)	<0.001				
Cobalt (Co) (DIS)	0.0109				
Copper (Cu) (DIS)	<0.001	0.286	<0.004	<0.004	<0.004
Copper (Cu) (TOT)		0.957	0.09	0.011	0.178
Gold (Au) (DIS)	0.02				
Iron (Fe) (DIS)	5.27	3.01	7.07	3.56	5.46
Iron (Fe) (TOT)		63.2	21.5	7.92	105
Lead (Pb) (DIS)	<0.005	0.83	<0.005	<0.005	<0.005
Lead (Pb) (TOT)		2.78	0.38	0.044	0.713
Manganese (Mn) (DIS)	3.13	3.06	4.16	3.34	3.05
Manganese (Mn) (TOT)		4.78	4.12	3.4	4.01
Mercury (Hg) (DIS)	<0.0001				
Nickel (Ni) (DIS)	<0.01				
Selenium (Se) (DIS)	0.001			<0.005	<0.005
Selenium (Se) (TOT)		0.012		<0.005	0.009
Silver (Ag) (DIS)	<0.005 J				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-15	APSD-16	APSD-16	APSD-16	APSD-16
Water	SAMPLE DATE	5/14/2009	5/22/2007	9/12/2007	12/5/2007	2/13/2008
	SAMPLE TIME	12:20	10:20	11:40	09:30	13:50
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H09050233-010	H07050262-001	H07090115-006	H07120050-001	H08020101-010
	SAMPLE NUMBER	AEH-0905-214	AEH-0705-206	AEH-0709-146	AEH-0711-195	AEH-0802-121
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION		New Site			
	REMARKS					

**Metals (mg/L): ppm unless noted**

Tellurium (Te) (DIS)	<0.1				
Thallium (Tl) (DIS)	<0.001				
Vanadium (V) (DIS)	<0.01				
Zinc (Zn) (DIS)	0.45 UJ	0.42	0.15	0.22	0.23
Zinc (Zn) (TOT)		1.3	0.52	0.28	2.56

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.3	0.37	0.11	0.45	0.31
pH	7.4	7.6	7.1	7.1	7.4
Depth To Water Level (ft)	9.5	9.06	6.38	8.11	9.15
pH (Fld)	6.73	7.25	6.73	6.79	6.47
SC (umhos/cm at 25 C) (Fld)	448	449	525	502	452
SC (umhos/cm at 25 C)	454	426	495	454	415
Total Suspended Solids	141	908	260	54	192 J
TDS (Measured at 180 C)	274	272	313	313	262
Water Temperature (C) (Fld)	10.3	7.72	11.4	10.37	9.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-16	APSD-16	APSD-16	APSD-2	APSD-2
Water	SAMPLE DATE	5/15/2008	11/10/2008	5/14/2009	11/22/1991	5/4/1992
	SAMPLE TIME	09:55	11:35	11:55	11:15	15:00
	LAB	ELI	ELI	ELI	TSC-SLC	TSC-SLC
	LAB NUMBER	H08050268-002	H08110106-005	H09050233-009	91-3893	92-4398
	SAMPLE NUMBER	AEH-0805-251	AEH-0811-199	AEH-0905-213	AEH-9111-374	AEH-9204-184
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION				MP Elev 4.77'	MP Elev 4.77'
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	210	250	250		
Calcium (Ca) (DIS)	61	51	50		
Chloride (Cl)	7	8	5	65 J	224 J
Magnesium (Mg) (DIS)	15	11	12		
Potassium (K) (DIS)	5	4	4		
Sodium (Na) (DIS)	19	18	18		
Sulfate (SO4)	46	27	21	174	855 J
Total Alkalinity As CaCO3	170	210	200		

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005			
Selenium-VI (DIS)	<0.005	<0.005			
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1		
Aluminum (Al) (TOT)	11.4				
Antimony (Sb) (DIS)	0.008	<0.005	0.007		
Antimony (Sb) (TOT)	0.041				
Arsenic (As) (DIS)	0.594	1.18	0.489	1.2	3.7
Arsenic (As) (TOT)	10.6				
Arsenic III (DIS)	0.299	0.62		0.9	3.6
Arsenic V (DIS)	0.229	0.358		0.2	0.2
Barium (Ba) (DIS)	<0.1	<0.1	<0.1		
Barium (Ba) (TOT)	0.2				
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001		
Beryllium (Be) (TOT)	<0.001				
Cadmium (Cd) (DIS)	0.008	<0.001	0.004	0.003	0.005
Cadmium (Cd) (TOT)	0.08				
Chromium (Cr) (DIS)	<0.001	<0.001	0.001		
Chromium (Cr) (TOT)	0.01				
Cobalt (Co) (DIS)	<0.01	<0.01	0.0065		
Cobalt (Co) (TOT)	0.02				
Copper (Cu) (DIS)	<0.004	<0.004	0.001 UJ	<0.004	0.02
Copper (Cu) (TOT)	0.377				
Gold (Au) (DIS)			0.01		
Iron (Fe) (DIS)	1.83	6.75	3.92		
Iron (Fe) (TOT)	39.8				
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	0.005	<0.005
Lead (Pb) (TOT)	1.12				
Manganese (Mn) (DIS)	1.8	3.59	2.76		
Manganese (Mn) (TOT)	2.15				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-16	APSD-16	APSD-16	APSD-2	APSD-2
Water	SAMPLE DATE	5/15/2008	11/10/2008	5/14/2009	11/22/1991	5/4/1992
	SAMPLE TIME	09:55	11:35	11:55	11:15	15:00
	LAB	ELI	ELI	ELI	TSC-SLC	TSC-SLC
	LAB NUMBER	H08050268-002	H08110106-005	H09050233-009	91-3893	92-4398
	SAMPLE NUMBER	AEH-0805-251	AEH-0811-199	AEH-0905-213	AEH-9111-374	AEH-9204-184
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION				MP Elev 4.77'	MP Elev 4.77'
	REMARKS					

**Metals (mg/L): ppm unless noted**

Mercury (Hg) (DIS)	<0.006	<0.006	<0.0001		
Mercury (Hg) (TOT)	<0.006				
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01		
Nickel (Ni) (TOT)	0.03				
Selenium (Se) (DIS)	<0.005	<0.005	0.006		
Selenium (Se) (TOT)	0.009				
Silver (Ag) (DIS)	<0.005	<0.005	<0.005 J		
Silver (Ag) (TOT)	0.012				
Tellurium (Te) (DIS)			<0.1		
Thallium (Tl) (DIS)	<0.002	<0.002	<0.001		
Thallium (Tl) (TOT)	0.003				
Vanadium (V) (DIS)	<0.01	<0.01	<0.01		
Vanadium (V) (TOT)	0.04				
Zinc (Zn) (DIS)	0.4	0.19	0.34 UJ	0.04	0.03
Zinc (Zn) (TOT)	1.5				

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.3	0.25	0.3	1.8	1.3
pH	6.7	7.3	7.4	7.5	6.7
Depth To Water Level (ft)	8.08	8.47	7.56	12.97	12.8
pH (Fld)	6.52	6.67	6.81	6.8	6.9
SC (umhos/cm at 25 C) (Fld)	458	482	436	1217	2990
SC (umhos/cm at 25 C)	432	454	435	1170	2890
Total Suspended Solids	724 J+	108	304		
TDS (Measured at 180 C)	81 R	285	248	817 J	2222 J
Water Temperature (C) (Fld)	11.3	10.6	10.3	12.5	11.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2
Water	SAMPLE DATE	11/22/1992	5/7/1993	5/7/1993	11/16/1993	4/12/1994	5/7/1994
	SAMPLE TIME	13:15	10:00	12:05	13:00	11:20	13:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	92-6793	93-7843	93-7845	93-9333	94-592004	94-1325
	SAMPLE NUMBER	EHC-9211-188	EHC-9305-170	EHC-9305-172	EHC-9311-101	AHCL-9404-166	EHC-9405-101
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'
	REMARKS			Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)	247 J	308	299			
Chloride (Cl)	227	320	317	246 J		299
Magnesium (Mg) (Dis)	108	143	139			
Potassium (K) (Dis)	7.6	17	17			
Sodium (Na) (Dis)	284	461 J	448 J			
Sulfate (SO4)	697	1005	1060	1014		1261 J
Total Hardness As CaCO3		1358	1319			

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	4	10.3	10.7	10.6	13.1	19.9
Arsenic III (dis)	4.3	8.6	8.4	11.4 J		10.4 J
Arsenic V (dis)	0.3 J	1.7 J	2.4	1.1 J		2.9 J
Cadmium (Cd) (DIS)	0.001	0.001	0.002	0.002	0.002 U	<0.005
Copper (Cu) (DIS)	0.006	<0.004	<0.004	0.004	0.006	0.01
Lead (Pb) (DIS)	<0.005 UJ	0.005	0.005	<0.005	<0.005	<0.005 J
Zinc (Zn) (DIS)	0.01	0.1	0.1	0.02 UJ	0.04 U	0.03

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.7	1.8	1.8	1.3	1	2
pH	6.9					
Depth To Water Level (ft)	12.47	9.37	9.37	12.85	12.57	13.07
pH (Fld)	6.9	6.7	6.7	6.9	6	6.9
SC (umhos/cm at 25 C) (Fld)	2695	4125	4080	3580	4580	3980
SC (umhos/cm at 25 C)	2900	3300 J	3280 J	3210 J		3690
TDS (Measured at 180 C)	2090	2790	2769	2497	3706	2964
Water Temperature (C) (Fld)	9.6	7.3	7.3	9.4	10.1	10.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2
Water	SAMPLE DATE	7/14/1994	8/22/1994	9/27/1994	10/20/1994	11/21/1994	11/21/1994
	SAMPLE TIME	13:05	12:35	10:30	18:15	10:15	10:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1209021	94-1504004	94-1778001	94-1932015	94-3401	94-3380
	SAMPLE NUMBER	AHCL-9407-120	AHCL-9408-306	AHCL-9409-406	AHCL-9410-306	EHC-9411-185	EHC-9411-101
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)						168	173
Sulfate (SO4)						527	606

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	15.6	11	8.2	6.7	6	5.6
Arsenic III (dis)					5.06	4.8
Arsenic V (dis)					1.2 J	1.7 J
Cadmium (Cd) (DIS)	0.008	0.004 J	0.003	0.001	<0.005	0.002
Copper (Cu) (DIS)	0.01	<0.004	<0.004	<0.004	0.005	0.006
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 J
Zinc (Zn) (DIS)	0.05 U	0.07 U	0.03 U	0.02	0.03	0.008

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.8	2.8	7.7	3.4	1.6	1.6
pH					6.6	6.6
Depth To Water Level (ft)	12.57	12.67	12.84	12.78	12.97	12.97
Eh (millivolts)			-98	-109		
pH (Fld)	6.8	7.1	7.2	7.06	6.9	6.9
SC (umhos/cm at 25 C) (Fld)	4030	4560	4000	2750	2570	2600
SC (umhos/cm at 25 C)					2300	2330
TDS (Measured at 180 C)	3252	3044	2588	2485	1714	1622
Water Temperature (C) (Fld)	11.3	12.8	11.9	11.7	9.1	9.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2
Water	SAMPLE DATE	3/30/1995	4/25/1995	5/17/1995	5/17/1995	5/23/1995	6/20/1995
	SAMPLE TIME	10:30	17:00	09:55	10:10	13:10	10:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-616005	95-826003	95-4504	95-4530	95-1057016	95-1280016
	SAMPLE NUMBER	AHCL-9503-105	AHCL-9504-103	EHC-9505-108	EHC-9505-183	AHCL-9505-107	AHCL-9506-105
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	341	341
Sulfate (SO4)	1458	1530

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	6.01	8	12.8	13.05	12.03 J	1.3
Arsenic III (dis)			13.6 J	13.1		
Arsenic V (dis)			3.4 J	2.9		
Cadmium (Cd) (DIS)	<0.001	<0.001	0.007	0.005	<0.001	<0.002
Copper (Cu) (DIS)	<0.004	<0.004	0.008	0.01	0.004	0.006
Iron (Fe) (DIS)					117.5	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	<0.008	0.008	0.03	0.04 J	0.05	0.04

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.2	4.05	5.4	5.4	7	5.8
pH			7.5	7.4		
Depth To Water Level (ft)	12.79	12.67	12.27	12.27	11.97	11.67
Eh (millivolts)	-114	-157			-95	-135
pH (Fld)	7	6.9	7	7	4.7	6.5
SC (umhos/cm at 25 C) (Fld)	3610	3753	4630	4660	4680	4840
SC (umhos/cm at 25 C)			4060 J	4140 J		
TDS (Measured at 180 C)	2068	3180	3424 J	3316 J	2567	3391
Water Temperature (C) (Fld)	7.4	8.4	8.5	8.5	8.8	9.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2
Water	SAMPLE DATE	7/18/1995	8/16/1995	9/15/1995	10/23/1995	11/8/1995	11/8/1995
	SAMPLE TIME	11:45	12:10	14:20	16:00	15:45	15:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-1523006	95-1778006	95-2070007	95-2401006	95-2532004	95-6111
	SAMPLE NUMBER	AHCL-9507-105	AHCL-9508-105	AHCL-9509-105	AHCL-9510-105	AHCL-9511-105	EHC-9511-108
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)							359 J
Sulfate (SO4)							1371 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	24	18.9	23.1	22.1	13.8	10.9 J
Arsenic III (dis)						11.6
Arsenic V (dis)						3 J
Cadmium (Cd) (DIS)	0.01	<0.001	<0.001	0.002	<0.001	<0.001
Copper (Cu) (DIS)	<0.008	<0.004	0.02	0.01	0.02	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	0.007	0.008	0.02 J
Zinc (Zn) (DIS)	0.03	0.04	<0.02	<0.02	<0.02	0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.3	2.3	5.6	0.6	0.6	0.6
pH						6.8
Depth To Water Level (ft)	12.47	12.57	11.97	12.27	16.37 A	16.37
Eh (millivolts)	-137	-128	123	115	2	
pH (Fld)	6.5	6.6	6.8	6.5	6.6	6.6
SC (umhos/cm at 25 C) (Fld)	5200	4811	4596	3820	3572	3572
SC (umhos/cm at 25 C)						4770 J
TDS (Measured at 180 C)	4122	4724	3323	4490	3490	4071 J
Water Temperature (C) (Fld)	12.5	14.5	13	11.7	11.3	11.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2
Water	SAMPLE DATE	5/9/1996	6/24/1996	9/19/1996	11/5/1996	5/7/1997	11/5/1997
	SAMPLE TIME	12:40	14:00	11:00	14:00	10:30	14:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-6727	96-1243009	96-1924019	96-7716	97-947	189-2711
	SAMPLE NUMBER	EHC-9605-205	EHC-9606-105	EHC-9609-105	EHC-9611-205	EHC-9705-205	EHC-9711-205
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	553			292	463	396
Sulfate (SO4)	1929			1676	2288	2286

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	34.5	55	42	28.4	74.7	70.6 J
Arsenic III (dis)	39.1 J			24.6	48.8	43.7 J
Arsenic V (dis)	3.6 J			3.7 J	3.7	4.8 J
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.008	<0.008	0.004	0.004	0.02	0.009
Lead (Pb) (DIS)	<0.005	0.007 U	0.01	<0.005	<0.005	0.005
Zinc (Zn) (DIS)	<0.02	<0.02	0.06 U	0.01	<0.02	0.03 J

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.4	1.7	1.6	3.6	0.8	1.03
pH	6.8			6.6	6.6	6.7
Depth To Water Level (ft)	12.77	12.37	12.47	12.47	12.67	12.17
Eh (millivolts)	39	116	124	215	164	
pH (Fld)	6.8	6.9	6.7	6.9	6.5	7.04
SC (umhos/cm at 25 C) (Fld)	5108	5160	3420 J	3730	5820	5630
SC (umhos/cm at 25 C)	4700			4780	6030	5860
Total Suspended Solids					227	176 J
TDS (Measured at 180 C)	4735	5547	4980 J	3515	4959	5191 J
Water Temperature (C) (Fld)	6.8	9.8	12.5	10.8	10.5	12.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2
Water	SAMPLE DATE	5/13/1998	11/20/1998	5/12/1999	11/17/1999	5/9/2000	11/10/2000
	SAMPLE TIME	12:00	10:45	14:25	13:45	12:00	15:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	263-3805	313-4454	348-4920	L992055006	L000705007	L001897006
	SAMPLE NUMBER	EHC-9805-205	EHC-9811-205	EHC-9905-205	EHC-9911-107	EHC-0005-106	EHC-0011-106
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	1122	1000	1240 J	1209	1435	1318
Calcium (Ca) (DIS)	457	317	484	506	513	561
Carbonate As CO3			<1 UJ	<1	<1	<1
Chloride (Cl)	394	228	277	256	252	318
Magnesium (Mg) (DIS)	191	117	206	196	226	226
Potassium (K) (DIS)	29	18	29	37	25	32
Sodium (Na) (DIS)	609	389	546	508	462	529
Sulfate (SO4)	2119	1629	2553	2187	2424	2483
Total Alkalinity As CaCO3	920	820	1016 J	991	1176	1080

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)						0.06
Arsenic (As) (DIS)	72.5	50.6	58.4	82	76	89
Arsenic III (dis)	70.5	52.4	53.9	78	58	98
Arsenic V (dis)	3.3	2 J	3.5	2.8	7.2	5.4
Cadmium (Cd) (DIS)	<0.001	0.001	0.004	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.008	0.004	0.01	0.01 J	<0.01	<0.005
Iron (Fe) (DIS)	184.1	121.4	191.1	202	187	188
Lead (Pb) (DIS)	<0.005	0.007	0.006	<0.005	<0.005	0.01
Manganese (Mn) (DIS)	15.7	12.05	14.3	18	15	17
Zinc (Zn) (DIS)	0.08 J	0.05	0.04	0.04	0.05	0.06

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.5	4.02	1.6	6	7.9	2.3
pH	6.8	7.3	6.7	7	6.9	6.9
Silicon+Silica (Si+SiO2)						46
Depth To Water Level (ft)	12.27	12.27	11.87	11.67	12.37	11.37
Eh (millivolts)		195	177	111	210	95
pH (Fld)	6.7	6.9	6.8	7.1	6.9	6.4
SC (umhos/cm at 25 C) (Fld)	4660	4010	3550	5390	5674	5510
SC (umhos/cm at 25 C)	5800	4290	5580	5420	5410	5850
Total Suspended Solids				258		
TDS (Measured at 180 C)	4971	3673	5228	5051	4948	5343
Water Temperature (C) (Fld)	10	9.6	8.9	10.8	7.5	10.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2
Water	SAMPLE DATE	5/8/2001	11/14/2001	5/31/2002	11/13/2002	5/30/2003	10/25/2003
	SAMPLE TIME	11:40	15:15	16:15	14:30	15:40	11:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010655026	L011563006	L020412018	L020948010	L030242014	L030599-003
	SAMPLE NUMBER	EHC-0105-106	EHC-0111-105	EHC-0205-107	EHC-0211-107	AEH-0306-113	AEH-0310-341
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	1288	1298	1059	1159	1027	893
Calcium (Ca) (DIS)	593	625	593	665	545	656
Carbonate As CO3		<1	<1	<1	<2	<2
Chloride (Cl)	578	415	517	444	503	484
Magnesium (Mg) (DIS)	254	223	196	193	195	218
Potassium (K) (DIS)	30	43	29	45	37	40
Sodium (Na) (DIS)	459	514	479	405	353	412
Sulfate (SO4)	2512	1935	2098	1681	1729	2005
Total Alkalinity As CaCO3	1056	1064	868	950	842	893

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05	<0.05	<0.05		
Arsenic (As) (DIS)	5.8	76	54	84	57	64
Arsenic III (dis)	5.3	27	12	12	9.6	47
Arsenic V (dis)	<0.005	46	51	73	58	5.9
Cadmium (Cd) (DIS)	0.003	<0.001	0.003	<0.005	0.002	<0.001
Copper (Cu) (DIS)	0.03	0.03	<0.004	<0.02	0.007	0.022
Iron (Fe) (DIS)	102	212	188	224	194	212
Lead (Pb) (DIS)	<0.005	0.1	<0.005	<0.01	0.005	<0.005
Manganese (Mn) (DIS)	14	17	15	21	17	17
Zinc (Zn) (DIS)	0.2	0.05	0.03	0.02	0.03	0.032

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential		-117.6	9			
Oxygen (O) (DIS) (Fld)	4.2	0.4	1.9	7.3	0.09	0.15
pH	7.1	7.2	7.3	6.9	7.4	7.2
Silicon+Silica (Si+SiO2)	37	47	39	41		
Depth To Water Level (ft)	10.97	11.67	12.37	13.27	11.07	12.56
Eh (millivolts)	163	128				
pH (Fld)	6.9	6.4	6.7	6.2	6.5	6.69
SC (umhos/cm at 25 C) (Fld)	4720	3830	6040	5060	6140	5460
SC (umhos/cm at 25 C)	5840	5120	5250	5170	5210	5510
Total Suspended Solids	373	255	306	313	297	389
TDS (Measured at 180 C)	5269	5093	4602	4333	4622	4464
Salinity (G/KG) (Fld)				2.6	3.1	2.8
Turbidity (NTU) (Fld)				11	45	116
Water Temperature (C) (Fld)	8	12.6	7.3	11.1	8.3	13.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2
Water	SAMPLE DATE	5/21/2004	10/25/2004	10/25/2004	5/12/2005	11/9/2005	5/4/2006
	SAMPLE TIME	09:55	14:10	14:50	13:40	15:30	13:50
	LAB	ELI	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel
	LAB NUMBER	H04050141-003	H04100175-003	H04100175-007	C05050485-011	H05110081-017	H06050060-003
	SAMPLE NUMBER	AEH-0405-142	AEH-0411-102	AEH-0411-106	AEH-0505-137	AEH-0511-141	AEH-0605-149
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 4.77'	MP Elev 4.77'		MP Elev 4.77'	MP Elev 4.77'	MP Elev 4.77'
	REMARKS			Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	1300	1000	1100	773	950	1200
Calcium (Ca) (DIS)	595	477	516	531	572	556
Chloride (Cl)	340	200 J	100 J	164	141	195
Magnesium (Mg) (DIS)	183	157	170	164	154	184
Potassium (K) (DIS)	37	32	34	29	44	36
Sodium (Na) (DIS)	295	270	296	248	223	317
Sulfate (SO4)	2200	1350	1480	1730	1750	1880
Total Alkalinity As CaCO3	1100	850	930	634	780	980

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	52	46.7	56.1	50.3	70.8	58.25
Arsenic III (dis)	0.83	27 J	40 J	43.9	47	42.2
Arsenic V (dis)	0.65 J	4.9 J	1.8 J	2.3	12	22
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.002	<0.001	0.001
Copper (Cu) (DIS)	0.005	<0.004	<0.004	<0.004	0.014	0.005
Iron (Fe) (DIS)	179.1	142.9	157.4	158	173.6	185.1
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	15.48	12.48	13.58	14.5	18.64	14.58
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.12	0.57		3.26	1.91	5.62
pH	6.8	6.8	6.8	6.7	6.8	6.8
Depth To Water Level (ft)	11.49	11.17		10.39	11.35	10.16
pH (Fld)	6.24	6.64		6.69	6.46	6.49
SC (umhos/cm at 25 C) (Fld)	5050	4410		4869	4390	4170
SC (umhos/cm at 25 C)	4950	3210	3540	4130	3980	3900
Total Suspended Solids	380	146	165	153	171	246
TDS (Measured at 180 C)	4020	3210	3670	3480	3590	4200
TDS - Calculated				3280		
Salinity (G/KG) (Fld)	2.5					
Turbidity (NTU) (Fld)	10					
Water Temperature (C) (Fld)	8.6	12.8		7.5	13.01	9.29

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2
Water	SAMPLE DATE	11/6/2006	3/29/2007	6/19/2007	7/30/2007	9/13/2007	12/12/2007
	SAMPLE TIME	00:00	15:15	11:45	15:15	13:55	13:05
	LAB	Hydrometrics	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	AEH-061 1-APSD2	H07030246-005	H07060203-001	H07070302-007	H07090135-010	H07120134-009
	SAMPLE NUMBER	AEH-061 1-APSD2	AEH-0703-137	AEH-0705-248	AEH-0707-155	AEH-0709-162	AEH-0711-243
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	No SWL-Mud				Hi Temp-Tube	
	REMARKS	No Sample					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	1200	1400	1300	1300	
Bicarbonate (HCO3) (dis)					1300
Calcium (Ca) (DIS)	574	550	571	628	597
Chloride (Cl)	145	125	140	112	110
Magnesium (Mg) (DIS)	176	168	169	179	157
Potassium (K) (DIS)	36	34	34	43	41
Sodium (Na) (DIS)	267	271	239	267	226
Sulfate (SO4)	1770	1820	1680	1550	1800
Total Alkalinity As CaCO3	990	1200	1100	1100	1000

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005			<0.005 A
Selenium-VI (DIS)		<0.005			<0.005 A
Aluminum (Al) (DIS)		<0.1			
Aluminum (Al) (TOT)		<0.1			
Antimony (Sb) (DIS)		<0.005			
Antimony (Sb) (TOT)		<0.005			
Arsenic (As) (DIS)	57.1	52.12	53.3	78.1	75
Arsenic (As) (TOT)		57.3		63.7	76.7
Arsenic III (DIS)	33.7	60.7		42.6	82.2 R
Arsenic V (DIS)	45.4	6.2		21.6	52.4 R
Barium (Ba) (DIS)		<0.1			
Barium (Ba) (TOT)		<0.1			
Beryllium (Be) (DIS)		<0.001			
Beryllium (Be) (TOT)		<0.001			
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)		0.002		0.011	0.325
Chromium (Cr) (DIS)		<0.001			
Chromium (Cr) (TOT)		0.001			
Cobalt (Co) (DIS)		0.02			
Cobalt (Co) (TOT)		0.02			
Copper (Cu) (DIS)	<0.004	0.008	<0.004 J	0.005	<0.004
Copper (Cu) (TOT)		<0.004		0.013	0.292
Iron (Fe) (DIS)	176.6	160.8	153.4	199	170.4
Iron (Fe) (TOT)		169		179	217
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)		0.02		0.056	1.5
Manganese (Mn) (DIS)	16.68	15.8	14.06	18.34	19.99
Manganese (Mn) (TOT)		16.4		14	16.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2
Water	SAMPLE DATE	11/6/2006	3/29/2007	6/19/2007	7/30/2007	9/13/2007	12/12/2007
	SAMPLE TIME	00:00	15:15	11:45	15:15	13:55	13:05
	LAB	Hydrometrics	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	AEH-061 1-APSD2	H07030246-005	H07060203-001	H07070302-007	H07090135-010	H07120134-009
	SAMPLE NUMBER	AEH-061 1-APSD2	AEH-0703-137	AEH-0705-248	AEH-0707-155	AEH-0709-162	AEH-0711-243
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	No SWL-Mud				Hi Temp-Tube	
	REMARKS	No Sample					

**Metals (mg/L): ppm unless noted**

Mercury (Hg) (DIS)				<0.006			
Mercury (Hg) (TOT)				<0.006			
Nickel (Ni) (DIS)				<0.01			
Nickel (Ni) (TOT)				<0.01			
Selenium (Se) (DIS)		0.014		0.021	0.015	0.023	0.016
Selenium (Se) (TOT)				<0.005			0.022
Silver (Ag) (DIS)				<0.005			
Silver (Ag) (TOT)				<0.005			
Thallium (Tl) (DIS)				<0.002			
Thallium (Tl) (TOT)				0.003			
Tin (Sn) (DIS)				<0.1			
Tin (Sn) (TOT)				<0.1			
Vanadium (V) (DIS)				<0.01			
Vanadium (V) (TOT)				<0.01			
Zinc (Zn) (DIS)		0.02		<0.01	<0.01	0.06	<0.02
Zinc (Zn) (TOT)				0.13		0.18	12.7

**Nutrients: ppm unless noted**

Total Organic Carbon				71			
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**Other: ppm unless noted**

No Analysis	0.0
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**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	-133					
Oxygen (O) (DIS) (Fld)	1.42	0.5	1.33	0.42	0.24	
pH	6.9	6.8	6.9	6.8	6.8	
Depth To Water Level (ft)	12.65	12.55	12.11	12.49	12.32	
pH (Fld)	6.65	6.64	6.72	6.71	6.68	
SC (umhos/cm at 25 C) (Fld)	4884	4704	4599	4547	3434	
SC (umhos/cm at 25 C)	3840	3950	4360	6450	4260	
Total Suspended Solids	308	113	216	501	172	
TDS (Measured at 180 C)	3700	3850	3900	3550	3730	
Water Temperature (C) (Fld)	11.99	16.8	19.48	21.4	11.8	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2
Water	SAMPLE DATE	2/4/2008	2/21/2008	2/21/2008	5/16/2008	7/23/2008	11/17/2008
	SAMPLE TIME	11:00	10:30	10:45	12:45	14:40	11:40
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08020017-004	H08020150-001	H08020150-002	H08050289-007	H08070463-012	H08110187-008
	SAMPLE NUMBER	AEH-0801-156	AEH-0802-131	AEH-0802-132	AEH-0805-271	AEH-0807-190	AEH-0811-258
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	1500	1400	1300	1300	1300	1500
Calcium (Ca) (DIS)	585	583	566	570	568	604
Chloride (Cl)	145	150	137	120	150	160
Magnesium (Mg) (DIS)	166	166	163	162	172	181
Potassium (K) (DIS)	37	40	39	38	36	42
Sodium (Na) (DIS)	242	245	236	228	260	276
Sulfate (SO4)	1770	1720	1710	1800	1900	1900
Total Alkalinity As CaCO3	1200	1100	1100	1000	1100	1200

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)				0.0055 J		<0.005 J
Selenium-VI (DIS)				0.007 J		<0.005 J
Aluminum (Al) (DIS)				<0.1		<0.1
Aluminum (Al) (TOT)				11.4		
Antimony (Sb) (DIS)				<0.005		<0.005
Antimony (Sb) (TOT)				0.041		
Arsenic (As) (DIS)	62.9	64.3	62.7	62	60.6	61.4
Arsenic (As) (TOT)		66.4	69.8	80.3		
Arsenic III (DIS)		90.6	89	51.5 J		46.6
Arsenic V (DIS)		4.08 J	1.59 J	5 J		7.96
Barium (Ba) (DIS)				<0.1		<0.1
Barium (Ba) (TOT)				0.2		
Beryllium (Be) (DIS)				<0.001		<0.001
Beryllium (Be) (TOT)				<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)		0.003	0.002	0.232		
Chromium (Cr) (DIS)				<0.001		0.002
Chromium (Cr) (TOT)				0.015		
Cobalt (Co) (DIS)				0.01		0.01
Cobalt (Co) (TOT)				0.03		
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	0.007	0.004
Copper (Cu) (TOT)		0.007	0.005	0.264		
Iron (Fe) (DIS)	170.4	163.9	160.4	174.2	146.7	163
Iron (Fe) (TOT)		168	176	206		
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)		0.02 J	0.014 J	1.66		
Manganese (Mn) (DIS)	15.88	16.25	16.1	16.85	15.4	16.5
Manganese (Mn) (TOT)		16.7	17	19.2		
Mercury (Hg) (DIS)				<0.006		<0.006

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2	APSD-2
Water	SAMPLE DATE	2/4/2008	2/21/2008	2/21/2008	5/16/2008	7/23/2008	11/17/2008
	SAMPLE TIME	11:00	10:30	10:45	12:45	14:40	11:40
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08020017-004	H08020150-001	H08020150-002	H08050289-007	H08070463-012	H08110187-008
	SAMPLE NUMBER	AEH-0801-156	AEH-0802-131	AEH-0802-132	AEH-0805-271	AEH-0807-190	AEH-0811-258
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			

**Metals (mg/L): ppm unless noted**

Mercury (Hg) (TOT)					<0.006		
Nickel (Ni) (DIS)					<0.01		0.01
Nickel (Ni) (TOT)					0.03		
Selenium (Se) (DIS)	0.027	0.019	0.02	0.02 J	0.025	0.033	
Selenium (Se) (TOT)		0.02	0.019	0.021			
Silver (Ag) (DIS)					<0.005		<0.005 J-
Silver (Ag) (TOT)					0.008		
Thallium (Tl) (DIS)					<0.002		<0.002
Thallium (Tl) (TOT)					0.122		
Vanadium (V) (DIS)					<0.01		<0.01
Vanadium (V) (TOT)					0.04		
Zinc (Zn) (DIS)	0.01	<0.01	<0.01	0.01	<0.01	<0.02	
Zinc (Zn) (TOT)		0.1 J	0.07 J	5.08			

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.72	0.98	0.98	0.4	0.22	0.24	
pH	7	6.7	6.8	6.8	6.8	6.8	
Depth To Water Level (ft)	13.06	13.05		13.08	12.78	13.34	
pH (Fld)	6.52	6.49	6.49	6.7	6.68	6.6	
SC (umhos/cm at 25 C) (Fld)	4957	4944	4944	4664	5028	4613	
SC (umhos/cm at 25 C)	5590	5280	5400	3530	5450	4610	
Total Suspended Solids	376	148	140	616	222	580	
TDS (Measured at 180 C)	3540	3920	3940	1840 R	4150	3990	
Water Temperature (C) (Fld)	7.7	9.9	9.9	21	16.5	12.7	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-2	APSD-2	APSD-3	APSD-3	APSD-3
Water	SAMPLE DATE	2/10/2009	5/20/2009	11/22/1991	5/4/1992	11/22/1992
	SAMPLE TIME	10:15	08:55	10:45	16:00	12:40
	LAB	ELI	ELI	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H09020089-005	H09050289-002	91-3892	92-4397	92-6794
	SAMPLE NUMBER	AEH-0902-181	AEH-0905-270	AEH-9111-373	AEH-9204-185	EHC-9211-191
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION			MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	1600	1300			
Calcium (Ca) (DIS)	598	550			108 J
Chloride (Cl)	120	140	151 J	78 J	82
Magnesium (Mg) (DIS)	192	178			35
Potassium (K) (DIS)	39	37			25
Sodium (Na) (DIS)	288	264			156
Sulfate (SO4)	1800	1700	923	488 J	478
Total Alkalinity As CaCO3	1300	1100			

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		<0.1			
Antimony (Sb) (DIS)		<0.003			
Arsenic (As) (DIS)	64.8	56.6	136	53	86
Arsenic III (dis)			167	50.3	69
Arsenic V (dis)			10.8	3.4	2.7 J
Barium (Ba) (DIS)		<0.1			
Beryllium (Be) (DIS)		<0.001			
Cadmium (Cd) (DIS)	<0.001	<0.001	0.5	1.7	0.6
Chromium (Cr) (DIS)		<0.001			
Cobalt (Co) (DIS)		0.0123			
Copper (Cu) (DIS)	<0.004	0.005	<0.004	0.02	0.005
Gold (Au) (DIS)		0.11			
Iron (Fe) (DIS)	182	165			
Lead (Pb) (DIS)	<0.005	<0.005	0.006	<0.005	0.005 J
Manganese (Mn) (DIS)	15.9	16.4			
Mercury (Hg) (DIS)		0.0002			
Nickel (Ni) (DIS)		0.02			
Selenium (Se) (DIS)	0.027	0.062			
Silver (Ag) (DIS)		<0.005			
Tellurium (Te) (DIS)		<0.1			
Thallium (Tl) (DIS)		<0.001			
Vanadium (V) (DIS)		<0.01			
Zinc (Zn) (DIS)	<0.02	0.02	26.2	16.2	13.7

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.76	0.96	1.8	1.4	1.6
pH	6.8	6.9	3.8	6.3	6.2
Depth To Water Level (ft)	13.26	13.12	9.42	10.82	10.32
pH (Fld)	6.55	6.75	6.3	6.2	6.4
SC (umhos/cm at 25 C) (Fld)	4565	4662	2305	1465	1562
SC (umhos/cm at 25 C)	4410	4230	2330	1420	1700

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-2	APSD-2	APSD-3	APSD-3	APSD-3
Water	SAMPLE DATE	2/10/2009	5/20/2009	11/22/1991	5/4/1992	11/22/1992
	SAMPLE TIME	10:15	08:55	10:45	16:00	12:40
	LAB	ELI	ELI	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H09020089-005	H09050289-002	91-3892	92-4397	92-6794
	SAMPLE NUMBER	AEH-0902-181	AEH-0905-270	AEH-9111-373	AEH-9204-185	EHC-9211-191
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION			MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

Total Suspended Solids	364	286			
TDS (Measured at 180 C)	3880	3820	1840 J	1038 J	1240
Water Temperature (C) (Fid)	9.4	13.1	14.5	10.3	12.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-3	APSD-3	APSD-3	APSD-3	APSD-3	APSD-3
Water	SAMPLE DATE	5/7/1993	11/16/1993	4/12/1994	5/13/1994	7/14/1994	8/22/1994
	SAMPLE TIME	10:40	13:30	11:50	13:30	13:55	13:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-7844	93-9334	94-592005	94-1373	94-1209022	94-1504010
	SAMPLE NUMBER	EHC-9305-171	EHC-9311-102	AHCL-9404-167	EHC-9405-102	AHCL-9407-121	AHCL-9408-307
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)	106					
Chloride (Cl)	50	51		51		
Magnesium (Mg) (Dis)	31					
Potassium (K) (Dis)	16					
Sodium (Na) (Dis)	112 J					
Sulfate (SO4)	428	515		489 J		
Total Hardness As CaCO3	392					

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	37	43	9.8	8.01	8.7	9.9
Arsenic III (dis)	34	41.6 J		4.6		
Arsenic V (dis)	4 J	3.2 J		2.2 J		
Cadmium (Cd) (DIS)	0.8	1.1	5	3.1	2.8	2.5 J
Copper (Cu) (DIS)	<0.004	<0.004	0.005	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005 JU	<0.005	<0.005
Zinc (Zn) (DIS)	12.3	10.4 J	30.4	20.5	14.7	9.2

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.3	2.2	1.8	2.6	1.8	1.9
Depth To Water Level (ft)	10.12	10.72	10.62	10.42	10.22	10.52
pH (Fld)	6.5	7.02	6.3	6.7	6.6	6.8
SC (umhos/cm at 25 C) (Fld)	1270	1359	1390	1340	1199	1275
SC (umhos/cm at 25 C)	1220 J	1370 J		1324 J		
TDS (Measured at 180 C)	919	1026	992	962	850	759
Water Temperature (C) (Fld)	6.1	10.8	8.8	10.6	12.2	13.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-3	APSD-3	APSD-3	APSD-3	APSD-3	APSD-3
Water	SAMPLE DATE	9/27/1994	9/27/1994	10/20/1994	11/21/1994	3/30/1995	4/26/1995
	SAMPLE TIME	11:30	13:00	18:45	11:35	13:45	07:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1778003	94-1778004	94-1932016	94-3381	95-616006	95-826004
	SAMPLE NUMBER	AHCL-9409-407	AHCL-9409-428	AHCL-9410-307	EHC-9411-102	AHCL-9503-106	AHCL-9504-104
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'
	REMARKS		Field Duplicate				

### Common Ions (mg/L): ppm unless noted

Chloride (Cl)	39
Sulfate (SO4)	339

### Metals (mg/L): ppm unless noted

Arsenic (As) (DIS)	12	13	15	20	13.8	7.4
Arsenic III (dis)				15.7		
Arsenic V (dis)				3.5 J		
Cadmium (Cd) (DIS)	2.7	2.7	2	2.1	1.6	2.7
Copper (Cu) (DIS)	0.006 U	<0.004	<0.004	0.006	<0.004	0.008
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	10	11	8.7	11.3	9.5	10.8

### Physical/Fld-Lab: ppm unless noted

Oxygen (O) (DIS) (Fld)	4.1	4.1	3.8	1.5	2.2	3.8
pH				6.5		
Depth To Water Level (ft)	10.62	10.62	11.02	10.62	10.52	10.32
Eh (millivolts)	24	24	28		-58	44
pH (Fld)	6.9	6.9	6.8	6.6	6.7	6.8
SC (umhos/cm at 25 C) (Fld)	1208	1208	1115	1050	848	1487
SC (umhos/cm at 25 C)				1062		
TDS (Measured at 180 C)	855	881	803	738	583	1047
Water Temperature (C) (Fld)	14.3	14.3	11.6	8.6	7.3	6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-3	APSD-3	APSD-3	APSD-3	APSD-3	APSD-3
Water	SAMPLE DATE	5/12/1995	5/23/1995	6/20/1995	7/18/1995	8/16/1995	9/15/1995
	SAMPLE TIME	12:35	11:45	11:00	12:45	11:35	14:35
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-4505	95-1057019	95-1280017	95-1523007	95-1778007	95-2070004
	SAMPLE NUMBER	EHC-9505-109	AHCL-9505-108	AHCL-9506-106	AHCL-9507-106	AHCL-9508-106	AHCL-9509-106
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	39
Sulfate (SO4)	542

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	6.6	7.2	8.2	6.04	10.1	10.9
Arsenic III (dis)	1.3 J					
Arsenic V (dis)	5.8 J					
Cadmium (Cd) (DIS)	4.06	3.2	5.08	3.7	3.5	3.5
Copper (Cu) (DIS)	0.03	0.008	0.02	0.01	<0.004	0.01
Iron (Fe) (DIS)		2.3				
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	14.7	10.1	14.8	13.1	13.7	13

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	6.04	2.04	1.6	1.3	2.5	2
pH	7.2					
Depth To Water Level (ft)	10.02	9.82	9.32	10.32	10.22	9.92
Eh (millivolts)		1	-33	-36	-48	139
pH (Fld)	6.9	6.4	6.5	6.6	6.8	6.6
SC (umhos/cm at 25 C) (Fld)	1410	1127	1517	2050	1277	1236
SC (umhos/cm at 25 C)	1410 J					
TDS (Measured at 180 C)	1048 J	611	1056	1318	971	946
Water Temperature (C) (Fld)	7.8	8.6	8.9	13.7	12.6	13.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-3	APSD-3	APSD-3	APSD-3	APSD-3	APSD-3
Water	SAMPLE DATE	10/24/1995	11/8/1995	11/8/1995	5/8/1996	6/24/1996	9/19/1996
	SAMPLE TIME	08:20	14:45	14:45	13:00	13:00	11:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-2401016	95-2532005	95-6112	96-6733	96-1243010	96-1924020
	SAMPLE NUMBER	AHCL-9510-106	AHCL-9511-106	EHC-9511-109	EHC-9605-206	EHC-9606-106	EHC-9609-106
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	29 J	23
Sulfate (SO4)	577 J	244

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	17.5	20.4	20.06 J	14.09	6.4	17
Arsenic III (dis)			20.9 J	12 J		
Arsenic V (dis)			3.2 J	3.2 J		
Cadmium (Cd) (DIS)	1.9	2.3	2.2	1.2	2.6	1.9
Copper (Cu) (DIS)	0.007	<0.008	<0.004	<0.004	0.008	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005 J	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	10.3	11.2	10.07	7.2	9.1	8.7

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.2	0.8	0.8	1.9	3.2	1.6
pH			6.9	6.7		
Depth To Water Level (ft)	10.22	10.32	10.32	10.76	10.22	10.78
Eh (millivolts)	264	92		58	188	93
pH (Fld)	6.2	6.5	6.5	7	7	6.8
SC (umhos/cm at 25 C) (Fld)	913	942	942	888	1404	1002
SC (umhos/cm at 25 C)			1109 J	780		
TDS (Measured at 180 C)	806	802	800 J	545	1085	888
Water Temperature (C) (Fld)	9.8	12.3	12.3	6.2	12.4	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-3	APSD-3	APSD-3	APSD-3	APSD-3	APSD-3
Water	SAMPLE DATE	11/5/1996	5/7/1997	11/5/1997	5/13/1998	11/20/1998	5/12/1999
	SAMPLE TIME	00:00	10:15	14:30	12:25	11:30	14:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-7717	97-948	189-2712	263-3806	313-4455	348-4921
	SAMPLE NUMBER	EHC-9611-206	EHC-9705-206	EHC-9711-206	EHC-9805-206	EHC-9811-206	EHC-9905-206
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)				221	171	51 J
Calcium (Ca) (DIS)				98	96	86
Carbonate As CO3						<1 UJ
Chloride (Cl)	28	23	31	28	29	19
Magnesium (Mg) (DIS)				17	19	16
Potassium (K) (DIS)				9	10	8.5
Sodium (Na) (DIS)				66 J	65	57
Sulfate (SO4)	280	219	346	260	316	249
Total Alkalinity As CaCO3				181	140	42 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	29.4	16.1	20.05 J	8.3	9.4	4.4
Arsenic III (dis)	22.4	8.9	17.3 J	4.9	9.6	3.5
Arsenic V (dis)	6.4 J	6.1	2.4 J	2.004	1.4	1.2
Cadmium (Cd) (DIS)	1.2	0.8	1.2	1.5	1.6	1.4
Copper (Cu) (DIS)	<0.004	<0.004	0.004	0.007	<0.004	0.008
Iron (Fe) (DIS)				5.2	8.9	2.5
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)				3.08	3.8	1.9
Zinc (Zn) (DIS)	7.9	5.9	6.6 J	6.5	6.7	6.1

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	1.4	2.6	3.5	2.2	2.8	2.6
pH	6.3	6.6	6.6	7.9	6.8	7
Depth To Water Level (ft)	11.32	11.02	10.62	10.42	10.72	10.52
Eh (millivolts)	217	180			163	231
pH (Fid)	6.8	6.3	7.2	6.4	6.7	6.8
SC (umhos/cm at 25 C) (Fid)	858	715	984	830	940	795
SC (umhos/cm at 25 C)	917	756	1051	908	936	874
Total Suspended Solids		13	35 J			
TDS (Measured at 180 C)	651	547	770 J	624	655	624
Water Temperature (C) (Fid)	10.6	5.9	12.7	9.5	9.4	7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-3	APSD-3	APSD-3	APSD-3	APSD-3	APSD-3
Water	SAMPLE DATE	11/17/1999	5/8/2000	11/10/2000	5/7/2001	11/14/2001	5/24/2002
	SAMPLE TIME	14:05	17:30	15:40	16:30	15:00	13:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L992055007	L000705008	L001897007	L010655058	L011563007	L020396001
	SAMPLE NUMBER	EHC-9911-108	EHC-0005-107	EHC-0011-107	EHC-0105-107	EHC-0111-106	EHC-0205-108
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	171	192	195	190	234	209
Calcium (Ca) (DIS)	108	91	103	125	120	86
Carbonate As CO3	<1	<1	<1		<1	<1
Chloride (Cl)	20	20	59	93	91	45
Magnesium (Mg) (DIS)	21	16	21	27	33	19
Potassium (K) (DIS)	10	7.7	12	11	13	7.7
Sodium (Na) (DIS)	44	39	58	70	51	54
Sulfate (SO4)	292 J	277	282	328	240	184
Total Alkalinity As CaCO3	140	157	160	156	192	171

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			0.05	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	7.7	7.2	11	5.8	11	10
Arsenic III (dis)	6	6.2	9.5	4.1	12	1.7
Arsenic V (dis)	1.3	1	1.2	1.5	<0.005	9.3
Cadmium (Cd) (DIS)	1.5	1.4	1.3	1.4	1.7	0.8
Copper (Cu) (DIS)	0.006 J	<0.004	<0.004	0.02	0.01	0.005
Iron (Fe) (DIS)	8.4	6.4	8.2	6.4	9	10
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	0.02	<0.005
Manganese (Mn) (DIS)	3.8	3.2	3.6	3.7	4.3	3.7
Zinc (Zn) (DIS)	7.9	6.6	5.9	6.6	7.1	5.6

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					-49.8	41.8
Oxygen (O) (DIS) (Fld)	1.6	3.9	0.7	0.6	0.8	0.9
pH	7	7.1	7.4	7.1	6.8	6.5
Silicon+Silica (Si+SiO2)			33	28	35	27
Depth To Water Level (ft)	10.72	11.12	11.32	10.32	11.12	11.62
Eh (millivolts)	142	272	207	208	196	
pH (Fld)	7.2	6.9	6.6	6.8	6.7	6.6
SC (umhos/cm at 25 C) (Fld)	878	813	1030	1016	1000	376
SC (umhos/cm at 25 C)	904	821	1044	1163	1085	808
Total Suspended Solids	17 J			18	21	33
TDS (Measured at 180 C)	653	575	728	815	789	534
Water Temperature (C) (Fld)	10.2	7	12.5	7.8	15	8.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-3	APSD-3	APSD-3	APSD-3	APSD-3	APSD-3
Water	SAMPLE DATE	11/13/2002	5/30/2003	10/25/2003	5/21/2004	5/21/2004	10/25/2004
	SAMPLE TIME	14:15	16:00	11:10	10:05	10:10	15:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI	ELI
	LAB NUMBER	L020948009	L030242015	L030599-002	H04050141-004	H04050141-005	H04100175-004
	SAMPLE NUMBER	EHC-0211-108	AEH-0306-114	AEH-0310-340	AEH-0405-143	AEH-0405-144	AEH-0411-103
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'		MP Elev 3.72'
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	242	193	192	240	240	230
Calcium (Ca) (DIS)	102	97	94	83	82	82
Carbonate As CO3	<1	<2	<2			
Chloride (Cl)	40	27	31	22	24	30 UJ
Magnesium (Mg) (DIS)	19	18	18	15	15	16
Potassium (K) (DIS)	9.9	8.5	10	8	8	9
Sodium (Na) (DIS)	61	47	57	43	44	54
Sulfate (SO4)	229	225	200	200	200	173
Total Alkalinity As CaCO3	198	158	192	200	200	190

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05					
Arsenic (As) (DIS)	16	4.7	15	7.012	7.028	12.52
Arsenic III (dis)	12	3.5	14	4.3	4.5	9.7 J
Arsenic V (dis)	5	1.4	1.1	0.41 J	0.24 J	2 J
Cadmium (Cd) (DIS)	0.7	1.1	0.82	1.098	1.11	0.922
Copper (Cu) (DIS)	<0.004	0.01	0.009	0.009	0.01	0.006
Iron (Fe) (DIS)	16	5.2	12	5.73	5.52	8.83
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	4.5	1.9	3.9	2.67	2.62	2.94
Zinc (Zn) (DIS)	5.3	5.3	5.2	5.65	5.66	3.94

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	8.2	0.2	0.92	0.12		0.14
pH	7.1	7.6	7.8	7	7	6.9
Silicon+Silica (Si+SiO2)	31					
Depth To Water Level (ft)	11.72	10.22	11.44	10.91		10.91
pH (Fld)	6.1	6.7	6.7	6.08		6.72
SC (umhos/cm at 25 C) (Fld)	729	675	875	923		819
SC (umhos/cm at 25 C)	902	835	856	776	799	694
Total Suspended Solids	43	15	27	15	14	21
TDS (Measured at 180 C)	601	560	597	464	473	555
Salinity (G/KG) (Fld)	0.3	0.2	0.3	0.3		
Turbidity (NTU) (Fld)	6	1	2	0.0		
Water Temperature (C) (Fld)	12.7	8.4	14.6	8.9		14.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-3	APSD-3	APSD-3	APSD-3	APSD-3	APSD-3
Water	SAMPLE DATE	5/12/2005	11/9/2005	5/4/2006	11/6/2006	5/17/2007	5/17/2007
	SAMPLE TIME	14:55	15:15	14:10	00:00	09:05	09:10
	LAB	ELI-Casper	ELI-Hel	ELI-Hel	Hydrometrics	ELI	ELI
	LAB NUMBER	C05050485-012	H05110081-016	H06050060-004	AEH-0611-APSD3	H07050207-002	H07050207-003
	SAMPLE NUMBER	AEH-0505-138	AEH-0511-140	AEH-0605-150	AEH-0611-APSD3	AEH-0705-165	AEH-0705-166
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 3.72'	MP Elev 3.72'	MP Elev 3.72'	No SWL-Mud		
	REMARKS				No Sample		Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	197	200	190	210	200
Calcium (Ca) (DIS)	88	106	75	118	117
Chloride (Cl)	11	28	13	22	21
Magnesium (Mg) (DIS)	15	19	14	21	21
Potassium (K) (DIS)	6	9	7	10	10
Sodium (Na) (DIS)	36	45	34	49	49
Sulfate (SO4)	172	294	132	363	339
Total Alkalinity As CaCO3	162	160	150	170	170

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	5.08	9.14	4.74	3.634	3.682
Arsenic (As) (TOT)				3.96	3.82
Arsenic III (dis)	2.8	0.92	3.9	2.34	2.25
Arsenic V (dis)	1.6	5	1.3	1.62	1.65
Cadmium (Cd) (DIS)	1.08	1.63	0.988	1.698	1.685
Cadmium (Cd) (TOT)				1.72	1.58
Copper (Cu) (DIS)	0.015	0.01	0.013	0.008	0.008
Copper (Cu) (TOT)				0.01	0.009
Iron (Fe) (DIS)	5.05	6.04	2.3	3.95	4
Iron (Fe) (TOT)				5.06	4.78
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)				<0.005	<0.005
Manganese (Mn) (DIS)	2.26	3.85	1.94	2.96	2.98
Manganese (Mn) (TOT)				3.31	3.15
Zinc (Zn) (DIS)	4.89	4.1	4.21	5.44	5.49
Zinc (Zn) (TOT)				5.66	5.5

**Other: ppm unless noted**

No Analysis				0.0	
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	0.17	0.49	3.59	0.24	
pH	7.05	6.7	6.6	7	7
Depth To Water Level (ft)	10.44	10.76	10.06	10.54	
pH (Fid)	7.17	6.42	6.53	6.51	
SC (umhos/cm at 25 C) (Fid)	697	875	761	1024	
SC (umhos/cm at 25 C)	686	823	656	940	945
Total Suspended Solids	11	18	<10	12	11
TDS (Measured at 180 C)	468	543	445	724	722
TDS - Calculated	455				
Water Temperature (C) (Fid)	7.7	14.36	8.83	12.85	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-3	APSD-3	APSD-3	APSD-3	APSD-3	APSD-3
Water	SAMPLE DATE	9/12/2007	12/5/2007	2/14/2008	5/12/2008	11/11/2008	5/19/2009
	SAMPLE TIME	13:40	12:01	12:10	14:00	14:00	09:00
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07090115-008	H07120050-005	H08020113-007	H08050222-001	H08110126-014	H09050287-002
	SAMPLE NUMBER	AEH-0709-148	AEH-0711-199	AEH-0802-129	AEH-0805-213	AEH-0811-222	AEH-0905-255
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	200		220	210	220	210
Bicarbonate (HCO3) (dis)		210				
Calcium (Ca) (DIS)	121	121	124	130	152	149
Chloride (Cl)	19	19	25	23	23	29
Magnesium (Mg) (DIS)	22	21	22	23	26	26
Potassium (K) (DIS)	12	10	10	9	10	11
Sodium (Na) (DIS)	50	51	49	49	49	54
Sulfate (SO4)	307	343	324	360	400	430
Total Alkalinity As CaCO3	170	170	180	170	180	170

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)		0.0056		0.0056 J+	<0.005	
Selenium-VI (dis)		0.0095		<0.005	<0.005	
Aluminum (Al) (DIS)				<0.1	<0.1	<0.1
Aluminum (Al) (TOT)				<0.1		
Antimony (Sb) (DIS)				0.01	<0.005	0.007
Antimony (Sb) (TOT)				0.011		
Arsenic (As) (DIS)	4.78	5.335	6.265	6.12	9.62	8.04
Arsenic (As) (TOT)	5.22	5.767	6	6.48 J+		
Arsenic III (DIS)	2.86	3.84	5.25	4.59	9.3	
Arsenic V (DIS)	1.4	1.34	0.445	0.944	0.411	
Barium (Ba) (DIS)				<0.1	<0.1	<0.1
Barium (Ba) (TOT)				<0.1		
Beryllium (Be) (DIS)				<0.001	<0.001	<0.001
Beryllium (Be) (TOT)				<0.001		
Cadmium (Cd) (DIS)	1.709	1.698	1.502	1.387	1.05	1.23
Cadmium (Cd) (TOT)	1.76	1.921	1.48	1.51		
Chromium (Cr) (DIS)				<0.001	<0.001	0.002
Chromium (Cr) (TOT)				<0.001		
Cobalt (Co) (DIS)				0.04	0.05	0.0483
Cobalt (Co) (TOT)				0.04		
Copper (Cu) (DIS)	0.008	0.01 UJ	0.006	0.006	<0.004	0.007
Copper (Cu) (TOT)	0.014	0.018	0.007	0.011		
Gold (Au) (DIS)						0.03
Iron (Fe) (DIS)	5.85	6.95	8.55	8.43	17	13.9
Iron (Fe) (TOT)	6.48	6.93	8.02	8.07		
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	<0.005	0.008	<0.005	<0.005		
Manganese (Mn) (DIS)	3.25	3.24	3.55	4.1	4.74	4.62

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-3	APSD-3	APSD-3	APSD-3	APSD-3	APSD-3
Water	SAMPLE DATE	9/12/2007	12/5/2007	2/14/2008	5/12/2008	11/11/2008	5/19/2009
	SAMPLE TIME	13:40	12:01	12:10	14:00	14:00	09:00
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07090115-008	H07120050-005	H08020113-007	H08050222-001	H08110126-014	H09050287-002
	SAMPLE NUMBER	AEH-0709-148	AEH-0711-199	AEH-0802-129	AEH-0805-213	AEH-0811-222	AEH-0905-255
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Metals (mg/L): ppm unless noted**

Manganese (Mn) (TOT)	3.21	3.47	3.48	4.05		
Mercury (Hg) (DIS)				<0.006	<0.006	0.0001
Mercury (Hg) (TOT)				<0.006		
Nickel (Ni) (DIS)				0.07	0.06	0.07
Nickel (Ni) (TOT)				0.07		
Selenium (Se) (DIS)		0.017	0.01	0.008	0.007	0.024
Selenium (Se) (Tot)		0.019	0.011	0.009		
Silver (Ag) (DIS)				<0.005	<0.005	<0.005
Silver (Ag) (TOT)				<0.005		
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)				0.007	0.009	0.006
Thallium (Tl) (TOT)				0.007		
Vanadium (V) (DIS)				<0.01	<0.01	<0.01
Vanadium (V) (TOT)				<0.01		
Zinc (Zn) (DIS)	5.76	5.57	5.73	6.39	5.25	6.85
Zinc (Zn) (TOT)	5.6	6.14	5.64	6.43		

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.63	0.48	0.2	0.49	1.79	0.51
pH	6.7	6.9	7.1	6.5	7.1	6.9
Depth To Water Level (ft)	10.52	10.65	11.21	11.35	11.57	11.46
pH (Fld)	6.39	6.5	6.6	6.31	6.4	6.57
SC (umhos/cm at 25 C) (Fld)	1035	1010	1080	1050	1077	1207
SC (umhos/cm at 25 C)	954	951	1020	1020	1110	1180
Total Suspended Solids	18	31	22	25 J	46	44
TDS (Measured at 180 C)	703	727	749	767	778	842
Water Temperature (C) (Fld)	19.6	10.4	8.7	9.3	12.7	13.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-4	APSD-4	APSD-4	APSD-4	APSD-4	APSD-4
Water	SAMPLE DATE	11/22/1991	5/4/1992	11/22/1992	5/7/1993	11/16/1993	4/12/1994
	SAMPLE TIME	10:15	17:00	11:50	11:15	14:00	12:25
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	91-3891	92-4402	92-6795	93-7846	93-9335	94-592006
	SAMPLE NUMBER	AEH-9111-372	AEH-9204-171	EHC-9211-190	EHC-9305-173	EHC-9311-103	AHCL-9404-168
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)				53 J	38		
Chloride (Cl)	11 J	9.5 J		13	5.9	6.3 J	
Magnesium (Mg) (Dis)				18	13		
Potassium (K) (Dis)				5	<5		
Sodium (Na) (Dis)				28	21 J		
Sulfate (SO4)	110	74 J		95	67	68	
Total Hardness As CaCO3					148		

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.4	0.2	0.2 J	0.4 J	0.2	0.2 U
Arsenic III (dis)	0.3	0.1	0.1 U	0.3	0.1 J	
Arsenic V (dis)	0.2	0.09	0.1 J	0.2 J	0.1 J	
Cadmium (Cd) (DIS)	0.003	0.006	0.001	0.005	0.02	0.02 U
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005 UJ	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	0.1	0.07	0.06	0.06	0.08 J	0.08 U

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2	1.5	1.6	2.6	2.3	2
pH	7	7.2	7.7			
Depth To Water Level (ft)	9.8	9.6	6.4	9.1	9.7	9.4
pH (Fld)	7.09	6.4	6.8	6.4	7.4	7
SC (umhos/cm at 25 C) (Fld)	613	374	496	374	404	368
SC (umhos/cm at 25 C)	610	360	520	350 J	403 J	
TDS (Measured at 180 C)	447 J	252 J	340	237	271	247
Water Temperature (C) (Fld)	18.2	9.7	12.1	6.2	12	8.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-4	APSD-4	APSD-4	APSD-4	APSD-4	APSD-4
Water	SAMPLE DATE	5/13/1994	7/14/1994	8/22/1994	9/26/1994	10/20/1994	11/14/1994
	SAMPLE TIME	12:20	10:30	10:45	09:15	16:10	16:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1374	94-1209017	94-1504006	94-1778027	94-1932012	94-3359
	SAMPLE NUMBER	EHC-9405-103	AHCL-9407-116	AHCL-9408-308	AHCL-9409-408	AHCL-9410-308	EHC-9411-103
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	5.4						5.3
Sulfate (SO4)	89 J						48

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.4	0.3	0.3	0.3	0.3	0.4
Arsenic III (dis)	0.2					0.08
Arsenic V (dis)	0.1 J					0.3
Cadmium (Cd) (DIS)	0.002	0.004	0.005 J	0.006	0.001	0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.007	<0.004	<0.004
Lead (Pb) (DIS)	<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.005 JU
Zinc (Zn) (DIS)	0.07	0.04 U	0.04 U	0.05 U	0.04	0.04 U

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2	1.5	2.2	3.4	3.6	1.6
pH						7.4
Depth To Water Level (ft)	9.4	9.2	9.5	9.6	10.02	9.6
Eh (millivolts)				166	122	
pH (Fld)	7.4	7.2	7.05	7.1	7.04	7.2
SC (umhos/cm at 25 C) (Fld)	371	332	453	358	347	353
SC (umhos/cm at 25 C)	354 J					347
TDS (Measured at 180 C)	245	232	209	228	228 J	236
Water Temperature (C) (Fld)	8.1	13.1	12.8	16.8	15.3	13.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-4	APSD-4	APSD-4	APSD-4	APSD-4	APSD-4
Water	SAMPLE DATE	3/29/1995	4/25/1995	5/12/1995	5/23/1995	6/20/1995	7/18/1995
	SAMPLE TIME	16:15	19:00	11:35	11:00	11:20	13:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-616007	95-826005	95-4506	95-1057011	95-1280018	95-1523008
	SAMPLE NUMBER	AHCL-9503-107	AHCL-9504-105	EHC-9505-110	AHCL-9505-109	AHCL-9506-107	AHCL-9507-107
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	4.9
Sulfate (SO4)	77

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.1	0.09	0.1	0.2	1.3	0.6
Arsenic III (dis)			0.02 J			
Arsenic V (dis)			0.1 J			
Cadmium (Cd) (DIS)	0.001	0.002	0.001	0.001	0.001	<0.001
Copper (Cu) (DIS)	<0.004	0.005	0.01	<0.004	0.004	<0.008
Iron (Fe) (DIS)				0.02		
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	0.03	0.02	0.02 J	0.03	0.06	0.05

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.0	7.4	5.8	3.7	1.9	3.2
pH			7.6			
Depth To Water Level (ft)	9.6	9.3	7.1	8.9	8.3	9.3
Eh (millivolts)	4	86		123	16	-1
pH (Fld)	7.5	7.3	7.3	6.7	7.08	7.5
SC (umhos/cm at 25 C) (Fld)	222 J	367	355	428	430	395
SC (umhos/cm at 25 C)			355 J			
TDS (Measured at 180 C)	220	208	218 J	236 J	271	234
Water Temperature (C) (Fld)	4	4.8	6	9	12.1	12.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-4	APSD-4	APSD-4	APSD-4	APSD-4	APSD-4
Water	SAMPLE DATE	8/16/1995	9/16/1995	10/23/1995	11/8/1995	11/8/1995	5/8/1996
	SAMPLE TIME	12:35	08:30	14:00	17:40	17:40	15:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-1778008	95-2070023	95-2401014	95-2532006	95-6123	96-6732
	SAMPLE NUMBER	AHCL-9508-107	AHCL-9509-107	AHCL-9510-107	AHCL-9511-107	EHC-9511-110	EHC-9605-207
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)						3.3 J	4.2
Sulfate (SO4)						41 J	56

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.3	0.5	0.4 J	0.4	0.4	0.2
Arsenic III (dis)					0.06	0.03 J
Arsenic V (dis)					0.3 J	0.1 J
Cadmium (Cd) (DIS)	<0.001	<0.001	0.001	<0.001	0.001	<0.001
Copper (Cu) (DIS)	<0.004	0.005 U	0.006	<0.006	<0.004	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.005
Zinc (Zn) (DIS)	0.04	0.02	0.03	0.02	0.03	0.04

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.5	2.6	4.1	1.3	1.3	3.7
pH					7.2	7.1
Depth To Water Level (ft)	9.3	8.9	9.3	9.4	9.4	9.8
Eh (millivolts)	-88	92	146	55		143
pH (Fld)	7.4	6.8	6.5	7.2	7.2	7.5
SC (umhos/cm at 25 C) (Fld)	296	316	323	288	288	313
SC (umhos/cm at 25 C)					329 J	275
TDS (Measured at 180 C)	209	233	230	201	227 J	179
Water Temperature (C) (Fld)	14.7	15	15.3	13.6	13.6	5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-4	APSD-4	APSD-4	APSD-4	APSD-4	APSD-4
Water	SAMPLE DATE	6/24/1996	9/19/1996	11/5/1996	5/7/1997	11/5/1997	5/13/1998
	SAMPLE TIME	10:30	13:00	09:50	10:00	15:00	12:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-1243005	96-1924013	96-7718	97-949	189-2713	263-3807
	SAMPLE NUMBER	EHC-9606-107	EHC-9609-107	EHC-9611-207	EHC-9705-207	EHC-9711-207	EHC-9805-207
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)							95
Calcium (Ca) (DIS)							32
Chloride (Cl)				5.1	4	5	4
Magnesium (Mg) (DIS)							9
Potassium (K) (DIS)							<5
Sodium (Na) (DIS)							13 J
Sulfate (SO4)				45	54	63	68
Total Alkalinity As CaCO3							78

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.2	0.2	0.2	0.1	0.1 J	0.09
Arsenic III (dis)			0.06	0.04	0.05	0.06
Arsenic V (dis)			0.2 J	0.07	0.1 J	0.08
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.008	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)						0.08 J
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)						0.09 J
Zinc (Zn) (DIS)	0.03	0.04 U	0.04	0.03	0.04 J	0.03 J

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.1	2.6	5.3	3.4	3.8	5.9
pH			7.2	7.1	7	7.1
Depth To Water Level (ft)	9.3	9.8	10.3	10.05	9.7	9.5
Eh (millivolts)	260	127	221	341		
pH (Fld)	7.3	7	6.8	6.4	7.6	7.1
SC (umhos/cm at 25 C) (Fld)	274	343	353	318	339	288
SC (umhos/cm at 25 C)			350	315	371	313
Total Suspended Solids				<1	<1 JU	
TDS (Measured at 180 C)	202	244	230	215	241 J	223
Water Temperature (C) (Fld)	13	14.7	12	5.4	14.2	10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-4	APSD-4	APSD-4	APSD-4	APSD-4	APSD-4
Water	SAMPLE DATE	11/20/1998	5/12/1999	11/17/1999	5/8/2000	11/10/2000	5/7/2001
	SAMPLE TIME	12:00	15:10	14:30	17:10	16:00	16:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	313-4456	348-4922	L992055008	L000705009	L001897008	L010655054
	SAMPLE NUMBER	EHC-9811-207	EHC-9905-207	EHC-9911-109	EHC-0005-108	EHC-0011-108	EHC-0105-108
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	159	139 J	174	167	193	161
Calcium (Ca) (DIS)	43	38	46	42	45	61
Carbonate As CO3		<1 UJ	<1	<1	<1	
Chloride (Cl)	4.2	5	6.8	5.1	4.4 J	6.3
Magnesium (Mg) (DIS)	9.4	9.2	11	9.5	8.5	16
Potassium (K) (DIS)	<5	<5	5.4	<5	<5	5.4
Sodium (Na) (DIS)	14	13 J	17	13	19	25
Sulfate (SO4)	59	59	57 J	38	39	165
Total Alkalinity As CaCO3	130	114 J	143	137	158	132

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)					<0.01	<0.05
Arsenic (As) (DIS)	0.2	0.1	0.2	0.1 UJ	0.2	0.05 J
Arsenic III (dis)	0.07 J	0.03	0.06	0.09 UJ	0.1	0.07
Arsenic V (dis)	0.1 J	0.1	0.1 J	0.1	0.3	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001 J	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004 J	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.2	0.2 U	0.3	0.3	0.8	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.5	0.4	0.4	0.4	0.4	0.2
Zinc (Zn) (DIS)	0.05	0.03	0.03	0.04 J	0.03	0.04

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.6	3.3	4.2	5.9	2.5	1.3
pH	7.1	8.2	7.4	7.1	7.9	7.3
Silicon+Silica (Si+SiO2)					27	21
Depth To Water Level (ft)	9.7	9.6	9.8	10.1	10.4	9.3
Eh (millivolts)	193	225	149	241	206	243
pH (Fld)	6.9	7.4	7.4	7.04	7	7.2
SC (umhos/cm at 25 C) (Fld)	401	340	376	364	386	509
SC (umhos/cm at 25 C)	385	345	397	364	393	558
Total Suspended Solids			<1 J			<1
TDS (Measured at 180 C)	243	248	246	241	261	381
Water Temperature (C) (Fld)	12.5	7.3	13.2	7.1	12.8	7.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-4	APSD-4	APSD-4	APSD-4	APSD-4	APSD-4
Water	SAMPLE DATE	11/14/2001	5/24/2002	11/13/2002	5/30/2003	10/25/2003	5/13/2004
	SAMPLE TIME	14:40	14:15	14:00	15:12	00:00	10:04
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ASARCO	TSC-SLC	ASARCO
	LAB NUMBER	L011563008	L020396002	L020948008	0306-222	AEH-0310-452	AEH-0405-234
	SAMPLE NUMBER	EHC-0111-107	EHC-0205-109	EHC-0211-109	AEH-0306-222	AEH-0310-452	AEH-0405-234
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION					SWL Only Req	SWL Only Req
	REMARKS					No Sample	No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	182	146	203
Calcium (Ca) (DIS)	45	46	55
Carbonate As CO3	<1	<1	<1
Chloride (Cl)	7.1	5.5	5.1
Magnesium (Mg) (DIS)	9.3	9.7	9.9
Potassium (K) (DIS)	5.2	<5	<5
Sodium (Na) (DIS)	16	16	21
Sulfate (SO4)	22	58	41
Total Alkalinity As CACO3	149	120	166

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	0.2	0.1	0.3
Arsenic III (dis)	0.1 J	0.08	0.1
Arsenic V (dis)	0.07	0.02	0.2
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.2	0.1	0.9
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.3	0.4	0.7
Zinc (Zn) (DIS)	0.03	0.02	0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	-71	79.9			
Oxygen (O) (DIS) (Fld)	3	5.6	7.3		
pH	7	7.4	7		
Silicon+Silica (Si+SiO2)	30	20	26		
Depth To Water Level (ft)	70.2 A	10.7	10.8	9.3	10.49
Eh (millivolts)	175				
pH (Fld)	7.04	5.8	6.1		
SC (umhos/cm at 25 C) (Fld)	393	175	330		
SC (umhos/cm at 25 C)	365	377	410		
Total Suspended Solids	<1	1	<1		
TDS (Measured at 180 C)	237	245	274		
Salinity (G/KG) (Fld)			0.1		
Turbidity (NTU) (Fld)			1		
Water Temperature (C) (Fld)	15.9	6.2	13.4		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-4	APSD-4	APSD-4	APSD-4	APSD-4	APSD-4
Water	SAMPLE DATE	10/22/2004	5/9/2005	11/3/2005	4/25/2006	11/20/2006	9/12/2007
	SAMPLE TIME	00:00	13:36	11:22	13:33	00:00	13:10
	LAB	ASARCO	ELI-Casper	ASARCO	Hydro	Hydrometrics	ELI
	LAB NUMBER	z	AEH-0505-APSD4	AEH-0511-243	AEH-0605-APSD4	AEH-0611-APSD4	H07090115-007
	SAMPLE NUMBER	AEH-0411-243	AEH-0505-APSD4	AEH-0511-243	AEH-0605-APSD4	AEH-0611-APSD4	AEH-0709-147
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only Req	SWL Only Req	SWL Only	SWL Only	SWL Only	
	REMARKS	No Sample	No Sample	No Sample	No Sample	No Sample	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	150
Calcium (Ca) (DIS)	36
Chloride (Cl)	4
Magnesium (Mg) (DIS)	7
Potassium (K) (DIS)	5
Sodium (Na) (DIS)	11
Sulfate (SO4)	56
Total Alkalinity As CaCO3	120

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.172
Arsenic (As) (TOT)	0.163
Arsenic III (DIS)	0.0296
Arsenic V (DIS)	0.148
Cadmium (Cd) (DIS)	<0.001
Cadmium (Cd) (TOT)	<0.001
Copper (Cu) (DIS)	<0.004
Copper (Cu) (TOT)	<0.004
Iron (Fe) (DIS)	0.14 UJ
Iron (Fe) (TOT)	0.16
Lead (Pb) (DIS)	<0.005
Lead (Pb) (TOT)	<0.005
Manganese (Mn) (DIS)	0.28
Manganese (Mn) (TOT)	0.27
Zinc (Zn) (DIS)	0.04
Zinc (Zn) (TOT)	0.04

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)							0.41
pH							6.7
Depth To Water Level (ft)	9.93	9.48	9.8	9.09	9.54		10.61
pH (Fld)							6.32
SC (umhos/cm at 25 C) (Fld)							283
SC (umhos/cm at 25 C)							294
Total Suspended Solids							<10
TDS (Measured at 180 C)							185 UJ
Water Temperature (C) (Fld)							19.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-4	APSD-4	APSD-4	APSD-4	APSD-4	APSD-4
Water	SAMPLE DATE	12/5/2007	2/14/2008	2/14/2008	5/7/2008	11/6/2008	5/13/2009
	SAMPLE TIME	11:35	09:50	10:10	13:45	10:54	11:10
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07120050-004	H08020113-002	H08020113-003	H08050136-013	H08110088-004	H09050210-007
	SAMPLE NUMBER	AEH-0711-198	AEH-0802-124	AEH-0802-125	AEH-0805-177	AEH-0811-183	AEH-0905-194
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		180	180	150	200	140
Bicarbonate (HCO3) (dis)	170					
Calcium (Ca) (dis)	41	45	44	52	48	36
Chloride (Cl)	5	6	6	5	5	4
Magnesium (Mg) (dis)	8	8	8	11	9	7
Potassium (K) (dis)	4	4	4	4	4	3
Sodium (Na) (dis)	13	13	13	13	14	12
Sulfate (SO4)	34	30	32	45	15	30
Total Alkalinity As CaCO3	140	150	150	120	160	120

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)	<0.005			<0.005	<0.005	
Selenium-VI (dis)	<0.005			<0.005 J-	<0.005	
Aluminum (Al) (DIS)				<0.1	<0.1	<0.1
Aluminum (Al) (TOT)				0.1		
Antimony (Sb) (DIS)				0.007	0.006	<0.003
Antimony (Sb) (TOT)				0.008		
Arsenic (As) (DIS)	0.191	0.22	0.216	0.101	0.165	0.146
Arsenic (As) (Tot)	0.188	0.222	0.219	0.179		
Arsenic III (dis)	0.0486	0.0685	0.0662	0.0323	0.0531	
Arsenic V (dis)	0.139	0.199	0.196	0.104	0.115 J-	
Barium (Ba) (DIS)				<0.1	0.1	<0.1
Barium (Ba) (TOT)				0.1		
Beryllium (Be) (DIS)				<0.001	<0.001	<0.001
Beryllium (Be) (TOT)				<0.001		
Cadmium (Cd) (DIS)	<0.001	0.001	0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (Tot)	<0.001	0.002	0.002	<0.001		
Chromium (Cr) (DIS)				<0.001	<0.001	<0.001
Chromium (Cr) (TOT)				<0.001		
Cobalt (Co) (DIS)				<0.01	<0.01	0.0011 J
Cobalt (Co) (TOT)				<0.01		
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.005 UJ
Copper (Cu) (Tot)	<0.004	<0.004	<0.004	0.005		
Gold (Au) (DIS)						<0.01
Iron (Fe) (DIS)	0.34	0.75	0.73	0.43	0.21	0.62
Iron (Fe) (Tot)	0.31	0.82	0.8	0.96		
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (Tot)	<0.005	<0.005	<0.005	0.015		
Manganese (Mn) (DIS)	0.41	0.62	0.59	0.41	0.44	0.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-4	APSD-4	APSD-4	APSD-4	APSD-4	APSD-4
Water	SAMPLE DATE	12/5/2007	2/14/2008	2/14/2008	5/7/2008	11/6/2008	5/13/2009
	SAMPLE TIME	11:35	09:50	10:10	13:45	10:54	11:10
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07120050-004	H08020113-002	H08020113-003	H08050136-013	H08110088-004	H09050210-007
	SAMPLE NUMBER	AEH-0711-198	AEH-0802-124	AEH-0802-125	AEH-0805-177	AEH-0811-183	AEH-0905-194
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Metals (mg/L): ppm unless noted**

Manganese (Mn) (Tot)	0.39	0.57	0.58	0.6		
Mercury (Hg) (DIS)				<0.006	<0.006	<0.0001
Mercury (Hg) (TOT)				<0.006		
Nickel (Ni) (DIS)				<0.01	<0.01	<0.01
Nickel (Ni) (TOT)				<0.01		
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	0.002
Selenium (Se) (Tot)	<0.005	<0.005	<0.005	<0.005		
Silver (Ag) (DIS)				<0.005	<0.005	<0.005
Silver (Ag) (TOT)				<0.005		
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)				<0.002	<0.002	<0.001
Thallium (Tl) (TOT)				<0.002		
Vanadium (V) (DIS)				<0.01	<0.01	<0.01
Vanadium (V) (TOT)				<0.01		
Zinc (Zn) (DIS)	0.04	0.03	0.03	0.04	0.05	0.04 UJ
Zinc (Zn) (Tot)	0.05	0.03	0.03	0.05		

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.25	0.23	0.23	0.69	0.27	0.22
pH	7.2	7.1	7.2	7	7.3	7.3
Depth To Water Level (ft)	9.88	10.77		10.16	11.3	10.29
pH (Fld)	6.69	6.45	6.45	6.4	6.51	6.63
SC (umhos/cm at 25 C) (Fld)	356	375	375	350	340	301
SC (umhos/cm at 25 C)	338	373	371	342	338	306
Total Suspended Solids	<10	<10	<10	22	<10	<10
TDS (Measured at 180 C)	218	223	226	227	220	199
Water Temperature (C) (Fld)	12.9	9.8	9.8	8.5	13.83	6.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7
Water	SAMPLE DATE	11/17/1993	3/28/1994	3/28/1994	4/11/1994	4/11/1994	5/6/1994
	SAMPLE TIME	13:45	14:45	17:45	14:05	14:30	14:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-9340	94-502008	94-502001	94-591005	94-591006	94-747001
	SAMPLE NUMBER	EHC-9311-182	AHCL-9403-108	AHCL-9403-119	AHCL-9404-154	AHCL-9404-155	AHCL-9405-200
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate		Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	184 J
Sulfate (SO4)	619

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	40	13.7	13.6	15	15.7	13.3
Arsenic III (dis)	11.6					
Arsenic V (dis)	28.2					
Cadmium (Cd) (DIS)	0.05	0.04	0.04	0.04	0.05	0.04
Copper (Cu) (DIS)	0.004	0.007	0.007	0.007	0.007	0.004
Lead (Pb) (DIS)	0.01	0.006	0.006	<0.005	0.005	0.005 J
Zinc (Zn) (DIS)	0.1 J	0.03	0.03	0.03 U	0.04	0.05

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.4	2.4	2.4	1.8	1.8	1.6
Depth To Water Level (ft)	6.8	6.9	6.9	6.7	6.7	6.5
pH (Fld)	8.1	7.9	7.9	8.2	8.2	7.8
SC (umhos/cm at 25 C) (Fld)	1928	1146	1146	1278	1278	1052
SC (umhos/cm at 25 C)	1985 J					
TDS (Measured at 180 C)	1321	844	847	845	852	797
Water Temperature (C) (Fld)	5.5	5.9	5.9	9.2	9.2	9.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7
Water	SAMPLE DATE	5/6/1994	5/6/1994	5/6/1994	5/17/1994	5/17/1994	5/19/1994
	SAMPLE TIME	14:00	14:30	14:30	11:15	12:00	12:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1114	94-747011	94-1112	94-798001	94-798011	94-816001
	SAMPLE NUMBER	EHC-9405-111	AHCL-9405-210	EHC-9405-164	AHCL-9405-215	AHCL-9405-225	AHCL-9405-229
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate	Field Duplicate		Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	106		106			
	Sulfate (SO4)	136 J		364 J			
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	21.6	16	19.6	21.9	21.4	21.1
	Arsenic III (dis)	3.9 J		4.04 J			
	Arsenic V (dis)	10.9 J		10.8 J			
	Cadmium (Cd) (DIS)	0.04	0.04	0.04	0.05	0.04	0.05
	Copper (Cu) (DIS)	0.004	0.005	0.005	0.005 U	0.005	0.004
	Lead (Pb) (DIS)	<0.005	0.006	<0.005	0.005	0.005	<0.005
	Zinc (Zn) (DIS)	0.05	0.05	0.05	0.05	0.05	0.06
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	1.6	1.6	1.6	1.4	1.4	2
	Depth To Water Level (ft)	6.5	6.5	6.5	7	7	6.8
	pH (Fld)	7.7	7.8	7.7	7.9	7.9	7.9
	SC (umhos/cm at 25 C) (Fld)	1187	1052	1217	1171	1171	1104
	SC (umhos/cm at 25 C)	1215		1220			
	TDS (Measured at 180 C)	809	803	810	834	831	818
	Water Temperature (C) (Fld)	9.7	9.7	9.7	12.9	12.9	11.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7
Water	SAMPLE DATE	5/19/1994	5/24/1994	5/24/1994	5/26/1994	5/31/1994	5/31/1994
	SAMPLE TIME	12:30	12:00	15:00	13:00	12:00	12:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-816011	94-831001	94-831011	94-851001	94-873001	94-873011
	SAMPLE NUMBER	AHCL-9405-239	AHCL-9405-240	AHCL-9405-250	AHCL-9405-255	AHCL-9405-100	AHCL-9405-110
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate			Field Duplicate
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	21.4	21	22	21	18.8	18.5
	Cadmium (Cd) (DIS)	0.05	0.04	0.04	0.05	0.04	0.05
	Copper (Cu) (DIS)	0.004	<0.004	0.004	0.02 U	0.004	0.005
	Lead (Pb) (DIS)	0.005	<0.005	0.005	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	0.07	0.06	0.06	0.05 U	0.06 U	0.06
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	2	1.4	1.4	1.2	2.1	2.1
	Depth To Water Level (ft)	6.8	6.9	6.9	7	7.2	7.2
	pH (Fld)	7.9	8.04	8.04	7.8	7.8	7.8
	SC (umhos/cm at 25 C) (Fld)	1104	1028	1028	1136	1095	1095
	TDS (Measured at 180 C)	809	794	801	812	802	797
	Water Temperature (C) (Fld)	11.9	14.2	14.2	8.2	14.6	14.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7
Water	SAMPLE DATE	6/2/1994	6/2/1994	6/6/1994	6/6/1994	6/13/1994	6/13/1994
	SAMPLE TIME	12:00	12:15	11:50	12:10	12:00	12:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-893001	94-893011	94-917001	94-917011	94-959001	94-959011
	SAMPLE NUMBER	AHCL-9406-100	AHCL-9406-110	AHCL-9406-200	AHCL-9406-210	AHCL-9406-300	AHCL-9406-310
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		Field Duplicate
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	20	20.6	20.8	20.4	19.4	21
	Cadmium (Cd) (DIS)	0.05	0.05	0.04	0.04	0.04	0.04
	Copper (Cu) (DIS)	<0.004	<0.004	0.004	0.004	<0.004	<0.004
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	0.05	0.05	0.06	0.06	0.05	0.05
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	1.9	1.9	1.4	1.4	1.9	1.9
	Depth To Water Level (ft)	7.2	7.2	7.3	7.3	7.4	7.4
	pH (Fld)	7.4	7.4	7.9	7.9	7.5	7.5
	SC (umhos/cm at 25 C) (Fld)	1110	1110	1171	1171	1162	1162
	TDS (Measured at 180 C)	804	804	798	801	802	789
	Water Temperature (C) (Fld)	15	15	16.2	16.2	15	15

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7
Water	SAMPLE DATE	7/12/1994	7/12/1994	8/10/1994	8/10/1994	8/19/1994	8/19/1994
	SAMPLE TIME	12:00	12:00	10:40	11:00	13:10	15:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1209001	94-1209011	94-1418004	94-1418005	94-1504025	94-1504024
	SAMPLE NUMBER	AHCL-9407-100	AHCL-9407-110	AHCL-9408-103	AHCL-9408-104	AHCL-9408-309	AHCL-9408-325
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		Field Duplicate
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	32	28.4	42	43.7	44	48
	Cadmium (Cd) (DIS)	0.04	0.04	0.04	0.04	0.02	0.02
	Copper (Cu) (DIS)	0.004	0.004	<0.004	<0.004	<0.004	<0.004
	Lead (Pb) (DIS)	<0.005	<0.005	0.005 J	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	0.04 U	0.04	0.03	0.03	0.02 U	0.03
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	1.7	1.7	5.4	5.4	2.4	2.4
	Depth To Water Level (ft)	7.8	7.8	8.2	8.2	8.2	8.2
	pH (Fld)	7.8	7.8	7.8	7.8	8.01	8.01
	SC (umhos/cm at 25 C) (Fld)	1084	1084	1097	1097	1156	1156
	TDS (Measured at 180 C)	759	766	769	774	375 J	377 J
	Water Temperature (C) (Fld)	17.8	17.8	23.2	23.2	21	21

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7
Water	SAMPLE DATE	8/26/1994	8/26/1994	9/2/1994	9/2/1994	9/8/1994	9/8/1994
	SAMPLE TIME	14:30	15:00	12:00	13:20	11:30	11:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1536009	94-1536006	94-1585001	94-1585009	94-1608001	94-1608009
	SAMPLE NUMBER	AHCL-9408-409	AHCL-9408-425	AHCL-9409-100	AHCL-9409-108	AHCL-9409-200	AHCL-9409-208
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Sulfate (SO4)	241	279	222	219	212	220
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	46 J	32	49	44	42	49
	Arsenic III (dis)	52	52	53	52	43	43
	Arsenic V (dis)	6.1 J	4.5	2.9 J	4.2	6	5.1
	Cadmium (Cd) (DIS)	0.04 J	0.02	0.03	0.03	0.03	0.03
	Copper (Cu) (DIS)	<0.004	<0.004	0.005	<0.004	0.004	0.004
	Lead (Pb) (DIS)	0.005	<0.005	<0.005	<0.005	<0.005	0.006
	Zinc (Zn) (DIS)	0.05 UJ	0.03	0.04 U	0.05 U	0.04 U	0.05
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	3.1	3.1	3.9	3.9	3.8	3.8
	Depth To Water Level (ft)	8.3	8.3	8.2	8.2	8.2	8.2
	Eh (millivolts)	230	230	225	225	211	211
	pH (Fld)	8.6	8.6	8.06	8.06	8.06	8.06
	SC (umhos/cm at 25 C) (Fld)	1023	1023	1190	1190	1021	1021
	TDS (Measured at 180 C)	741	743	760	754	811	796
	Water Temperature (C) (Fld)	21	21	23	23	21.6	21.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7
Water	SAMPLE DATE	9/16/1994	9/16/1994	9/26/1994	10/5/1994	10/5/1994	10/13/1994
	SAMPLE TIME	11:45	13:00	14:00	13:30	14:00	12:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1683001	94-1683008	94-1778007	94-1820001	94-1820010	94-1887001
	SAMPLE NUMBER	AHCL-9409-300	AHCL-9409-307	AHCL-9409-409	AHCL-9410-100	AHCL-9410-109	AHCL-9410-200
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)			<0.1	59	58	52
Magnesium (Mg) (DIS)			<0.1	8.8	8.8	7.8
Potassium (K) (DIS)			4.9	18	18	14
Sodium (Na) (DIS)			<2	140	142	122
Sulfate (SO4)	209	217	192	188	188	184

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	42	41	38	41	38	38
Arsenic (As) (TOT)						36
Arsenic III (dis)	42	45	40	86 JA	39 J	42
Arsenic V (dis)	1.7 J	3.1	5.6	2.6 J	8.1 J	2.9
Cadmium (Cd) (DIS)	0.02	0.02	0.02	0.02 U	0.02 U	0.02
Cadmium (Cd) (TOT)						0.03
Copper (Cu) (DIS)	<0.004	<0.004	0.008 U	<0.004	<0.004	<0.004
Copper (Cu) (TOT)						0.01
Iron (Fe) (TOT)			0.5	0.2 UJ	0.04 UJ	0.2
Lead (Pb) (DIS)	0.008	0.008	0.006	<0.005	<0.005	<0.005
Lead (Pb) (TOT)						0.03
Zinc (Zn) (DIS)	0.03 U	0.04	0.02 U	0.02 U	0.02 U	0.01
Zinc (Zn) (TOT)			0.08			0.04

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.3	4.3	3.4	3.7	3.7	3.3
Depth To Water Level (ft)	8.2	8.2	8.2	8.08	8.08	9.9
Eh (millivolts)	146	146	54	134	134	85
pH (Fld)	8	8	8.3	8.2	8.2	7.09
SC (umhos/cm at 25 C) (Fld)	943	943	971	950	950	970
Total Suspended Solids			9			
TDS (Measured at 180 C)	695	700	664	634	642	594
Water Temperature (C) (Fld)	19.8	19.8	19.2	17.3	17.3	14.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7
Water	SAMPLE DATE	10/13/1994	10/28/1994	10/28/1994	11/3/1994	11/17/1994	3/29/1995
	SAMPLE TIME	13:00	11:00	13:00	16:50	10:30	12:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1887009	94-1979010	94-1979001	94-2018001	94-3383	95-616008
	SAMPLE NUMBER	AHCL-9410-208	AHCL-9410-409	AHCL-9410-400	AHCL-9411-100	EHC-9411-111	AHCL-9503-108
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate	Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)	53			57		210
Chloride (Cl)					86	
Magnesium (Mg) (DIS)	8			8.2		11
Potassium (K) (DIS)	14			14		28
Sodium (Na) (DIS)	124			108		164
Sulfate (SO4)	177	186	195	165	225	554

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	37	26	29	25	18.3	9.8
Arsenic III (dis)	42	25 J	26 J	22 J	12.8 J	9.8
Arsenic V (dis)	3.3	7.8 J	6.9 J	4.7	2.6 J	2.5
Cadmium (Cd) (DIS)	0.02	0.02	0.02	0.02	0.04	0.2
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.004	0.006	0.007
Iron (Fe) (TOT)	0.2	0.1 UJ	0.1 UJ	0.3		0.5
Lead (Pb) (DIS)	<0.005	<0.005	0.007	<0.005	0.02 J	0.005
Zinc (Zn) (DIS)	0.01	0.01 U	0.01 U	0.01	0.04	0.1

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.3	1.9	1.9	1.8	2.05	2.3
pH					7	
Depth To Water Level (ft)	9.9	7.8	7.8	7.8	7.9	7.8
Eh (millivolts)	85	145	145	76		145
pH (Fld)	7.09	8.5	8.5	8.2	7.6	7.8
SC (umhos/cm at 25 C) (Fld)	970	923	923	981	965	1192 J
SC (umhos/cm at 25 C)					980	
Total Suspended Solids						<1
TDS (Measured at 180 C)	589	658	629	636	652 J	1290
Water Temperature (C) (Fld)	14.4	13.4	13.4	9.6	7.1	4.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7
Water	SAMPLE DATE	3/29/1995	4/25/1995	5/12/1995	5/22/1995	5/22/1995	6/20/1995
	SAMPLE TIME	12:35	08:00	13:30	17:00	17:15	17:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-616022	95-826006	95-4507	95-1057005	95-1057004	95-1280019
	SAMPLE NUMBER	AHCL-9503-125	AHCL-9504-108	EHC-9505-111	AHCL-9505-110	AHCL-9505-124	AHCL-9506-108
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate				Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)	216	192		213	214	210
Chloride (Cl)			216			
Magnesium (Mg) (DIS)	11	10.3		10.9	11	9.3
Potassium (K) (DIS)	29	26		31.4	31.6	36
Sodium (Na) (DIS)	167	169		194	195	204
Sulfate (SO4)	556	699	602	727	739	702

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	10.04	10.4	11.3	7.9	7	11.6
Arsenic (As) (TOT)				8.1	8.2	
Arsenic III (dis)	10.07	10.5	10.4 J	8.3	8.1	9.9
Arsenic V (dis)	2.1	1.9	2.6 J	1	0.9	0.3
Cadmium (Cd) (DIS)	0.2	0.3	0.2	0.2	0.2	0.2
Cadmium (Cd) (TOT)				0.2	0.2	
Copper (Cu) (DIS)	0.007	<0.004	0.02	0.004	0.004	0.006
Copper (Cu) (TOT)				0.008	0.007	
Iron (Fe) (DIS)				0.5	0.5	
Iron (Fe) (TOT)	0.5	0.5		0.6 J	0.6 J	0.5
Lead (Pb) (DIS)	0.006	0.007 J	0.005	0.005	0.007	0.005
Lead (Pb) (TOT)				0.007	0.007	
Zinc (Zn) (DIS)	0.1	0.2	0.2	0.2	0.2	0.2
Zinc (Zn) (TOT)				0.2	0.2	

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.3	4.5	3.9	1.2	1.2	1.02
pH			6.4			
Depth To Water Level (ft)	7.8	7.5	6.5	6.6	6.6	6.8
Eh (millivolts)	145	-66		108	103	-23
pH (Fld)	7.8	7.2	7.7	6.7	6.7	6.8
SC (umhos/cm at 25 C) (Fld)	1192 J	2190	2120	2250	2240	2240
SC (umhos/cm at 25 C)			2110 J			
Total Suspended Solids	<1			2.8 J	1.4 J	<1
TDS (Measured at 180 C)	1298	1505	1514 J	1536	1569	1544
Water Temperature (C) (Fld)	4.3	5.4	9.3	10.1	10.2	15

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7
Water	SAMPLE DATE	6/20/1995	7/18/1995	7/18/1995	8/16/1995	8/16/1995	9/15/1995
	SAMPLE TIME	17:15	08:30	08:45	09:15	09:30	12:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-1280027	95-1523009	95-1523025	95-1778009	95-1778018	95-2070024
	SAMPLE NUMBER	AHCL-9506-126	AHCL-9507-108	AHCL-9507-124	AHCL-9508-108	AHCL-9508-124	AHCL-9509-108
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate		Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)	220
Magnesium (Mg) (DIS)	9.4
Potassium (K) (DIS)	36
Sodium (Na) (DIS)	178
Sulfate (SO4)	720

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	11.7	27.1	27.8	25.4	25.5	36.6
Arsenic III (dis)	10.2					
Arsenic V (dis)	0.3					
Cadmium (Cd) (DIS)	0.2	0.3	0.3	0.3	0.3	0.2
Copper (Cu) (DIS)	0.006	<0.008	<0.008	<0.004	<0.004	0.01
Iron (Fe) (TOT)	0.5					
Lead (Pb) (DIS)	0.005	0.006	0.007	0.01	0.01	0.01
Zinc (Zn) (DIS)	0.2	0.3	0.3	0.2	0.2	0.1

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1	1.2	1.2	1.1	1.1	1.3
Depth To Water Level (ft)	6.8	7.2	7.2	7.8	7.8	7.8
Eh (millivolts)	-25	-30	-35	-79	-77	146
pH (Fld)	6.8	6.7	6.7	7.4	7.3	7.5
SC (umhos/cm at 25 C) (Fld)	2230	2080	2080	2080	2100	1862
Total Suspended Solids	2.9					
TDS (Measured at 180 C)	1563	1517	1517	1563	1589	1434
Water Temperature (C) (Fld)	15.1	16.7	16.8	18.7	18.7	18.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7
Water	SAMPLE DATE	9/15/1995	10/4/1995	10/24/1995	10/24/1995	11/8/1995	11/8/1995
	SAMPLE TIME	12:25	13:50	10:15	10:30	11:45	11:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-2070009	95-2299001	95-2401017	95-2401028	95-2532007	95-6124
	SAMPLE NUMBER	AHCL-9509-124	EPPC-9510-100	AHCL-9510-108	AHCL-9510-126	AHCL-9511-109	EHC-9511-111
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)	136	
Chloride (Cl)		195 J
Magnesium (Mg) (DIS)	12	
Sulfate (SO4)	554	54 J
Total Hardness As CaCO3	386	

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)	<0.1				
Antimony (Sb) (TRC)	0.2				
Arsenic (As) (DIS)	37.8	33.9	6.9	6.4	10
Arsenic (As) (TOT)		33.1			
Arsenic III (dis)					9.9 J
Arsenic V (dis)					1.1 J
Beryllium (Be) (TRC)		0.001			
Cadmium (Cd) (DIS)	0.2	0.2	0.1	0.09	0.2
Cadmium (Cd) (TOT)		0.2			
Copper (Cu) (DIS)	0.01	<0.008	0.006	0.005	<0.008
Copper (Cu) (TOT)		<0.01			
Iron (Fe) (TRC)		0.4			
Lead (Pb) (DIS)	0.01	0.02	0.007	0.005	<0.005
Lead (Pb) (TOT)		0.02			
Manganese (Mn) (TRC)		1.8			
Mercury (Hg) (TOT)		<0.0002			
Selenium (Se) (TRC)		0.01			
Silver (Ag) (TRC)		<0.001			
Thallium (Tl) (TRC)		0.4			
Zinc (Zn) (DIS)	0.2	0.1	0.09	0.07	0.1
Zinc (Zn) (TOT)		0.1			

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N)	11
Nitrate + Nitrite as N	<0.05

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.3		1.7	1.7	0.7	0.7
pH						6.8
Depth To Water Level (ft)	7.8	7.9	7.8	7.8	7.8	7.8
Eh (millivolts)	143		218	218	167	
pH (Fld)	7.5	7.4	7.3	7.3	6.8	6.8
SC (umhos/cm at 25 C) (Fld)	1858		1650	1649	1788	1788

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7
Water	SAMPLE DATE	9/15/1995	10/4/1995	10/24/1995	10/24/1995	11/8/1995	11/8/1995
	SAMPLE TIME	12:25	13:50	10:15	10:30	11:45	11:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-2070009	95-2299001	95-2401017	95-2401028	95-2532007	95-6124
	SAMPLE NUMBER	AHCL-9509-124	EPPC-9510-100	AHCL-9510-108	AHCL-9510-126	AHCL-9511-109	EHC-9511-111
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate		

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C)							2040 J
TDS (Measured at 180 C)	1329			1474	1474	1410	1466 J
Water Temperature (C) (Fld)	18.8	9		11.3	11.3	11.1	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7
Water	SAMPLE DATE	11/8/1995	11/15/1995	12/12/1995	1/18/1996	2/15/1996	3/18/1996
	SAMPLE TIME	12:00	11:00	10:30	11:15	09:50	13:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-2532025	95-2578001	95-2775001	96-152001	96-322001	96-548001
	SAMPLE NUMBER	AHCL-9511-127	EPPC-9511-100	EPPC-9512-100	EPPC-9601-100	EPPC-9602-100	EPPC-9603-100
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)	154				
Magnesium (Mg) (DIS)	17				
Sulfate (SO4)	545	655	783	896	657
Total Hardness As CaCO3	456				

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)	0.1	<0.1	<0.1	0.2	<0.1
Antimony (Sb) (TRC)	0.2	0.2	0.2	0.7	0.4
Arsenic (As) (DIS)	10.6	10	13	10	5.9
Arsenic (As) (TOT)		10	12	9.4	5.7
Beryllium (Be) (TRC)		<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	0.2	0.1	0.1	0.2	0.2
Cadmium (Cd) (TOT)		0.1	0.1	0.2	0.2
Copper (Cu) (DIS)	<0.008	<0.008	<0.008	0.008	<0.008
Copper (Cu) (TOT)		<0.008	<0.008	0.009	0.01
Iron (Fe) (TRC)		0.5	1	1.5	2.4
Lead (Pb) (DIS)	<0.005	0.005	<0.005	0.007	<0.005
Lead (Pb) (TOT)		0.006	0.006	0.008	0.007
Manganese (Mn) (TRC)		2.1	3.6	4.8	3
Mercury (Hg) (TOT)		<0.0002	<0.0002	<0.0002	<0.0002
Selenium (Se) (TRC)		0.003	0.003	0.005	0.03
Silver (Ag) (TRC)		<0.002	0.002	<0.002	<0.002
Thallium (Tl) (TRC)		0.2	0.2	0.3	0.3
Zinc (Zn) (DIS)	0.1	0.09	0.1	0.2	0.2
Zinc (Zn) (TOT)		0.09	0.1	0.2	0.2

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N)	4.4	5.1	7.4	10	7.8
Nitrate + Nitrite as N	0.2	<0.05	<0.05	<0.05	<0.05

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.7				
Depth To Water Level (ft)	7.8	7.8	7.8	7.9	7.7
Eh (millivolts)	164				
pH (Fld)	6.8	7.2	7.9	7.4	7.2
SC (umhos/cm at 25 C) (Fld)	1788				
TDS (Measured at 180 C)	1445				
Water Temperature (C) (Fld)	11	9.2	6.2	3.9	4.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7
Water	SAMPLE DATE	3/18/1996	4/17/1996	5/8/1996	5/8/1996	5/15/1996	5/15/1996
	SAMPLE TIME	13:15	11:25	10:15	10:30	20:20	20:35
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-548008	96-751001	96-6736	96-6735	96-957001	96-957008
	SAMPLE NUMBER	EPPC-9603-108	EPPC-9604-100	EHC-9605-208	EHC-9605-245	EPPC-9605-100	EPPC-9605-108
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate		Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)			340	379		
Sulfate (SO4)	624	752	950	933	1061	1023

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)	<0.1	<0.1			<0.1	<0.1
Antimony (Sb) (TRC)	0.4	0.5			0.3	0.3
Arsenic (As) (DIS)	6.2	2.9	3.7	3.9	5.2	5.2
Arsenic (As) (TOT)	5.4	2.9			5	5.2
Arsenic III (dis)			3.6 J	3.2 J		
Arsenic V (dis)			0.7 J	1.1 J		
Beryllium (Be) (TRC)	<0.001	<0.001			<0.001	<0.001
Cadmium (Cd) (DIS)	0.2	0.2	0.3	0.3	0.3	0.4
Cadmium (Cd) (TOT)	0.2	0.2			0.3	0.3
Copper (Cu) (DIS)	<0.008	<0.008	0.004	0.004	<0.008	<0.008
Copper (Cu) (TOT)	0.01	0.01			<0.008	<0.008
Iron (Fe) (TRC)	2.3	1.7			2.6	2.8
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	0.006	0.006
Lead (Pb) (TOT)	0.007	0.007			0.008	0.008
Manganese (Mn) (TRC)	2.9	2.5			2.9	3.1
Mercury (Hg) (TOT)	<0.0002	0.0003			<0.0002	<0.0002
Selenium (Se) (TRC)	0.009	0.02			0.02	0.02
Silver (Ag) (TRC)	<0.002	<0.002			<0.002	<0.002
Thallium (Tl) (TRC)	0.3	0.4			0.4	0.4
Zinc (Zn) (DIS)	0.2	0.2	0.3	0.3	0.3	0.3
Zinc (Zn) (TOT)	0.2	0.2			0.3	0.3

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N)	7.8	9.8			19	20
Nitrate + Nitrite as N	<0.05	0.2			<0.05	<0.05

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)			1.3	1.2		
pH			7.2	7.2		
Depth To Water Level (ft)	7.7	7.3	7.7	7.7	7.2	7.2
Eh (millivolts)			248	238		
pH (Fld)	7.3	7.6	6.6	6.6	7.5	7.5
SC (umhos/cm at 25 C) (Fld)			2970	2968		
SC (umhos/cm at 25 C)			2800	2800		
TDS (Measured at 180 C)			2127	2099		
Water Temperature (C) (Fld)	4.6	8.3	8.5	8.5	9.7	9.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7
Water	SAMPLE DATE	6/12/1996	6/25/1996	6/25/1996	7/16/1996	8/15/1996	9/12/1996
	SAMPLE TIME	11:15	09:30	09:45	10:00	12:15	13:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-1136001	96-1243016	96-1243017	96-1375001	96-1623001	96-1853001
	SAMPLE NUMBER	EPPC-9606-100	EHC-9606-108	EHC-9606-124	EPPC-9607-100	EPPC-9608-100	EPPC-9609-100
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Sulfate (SO4)	969		987	1113	790
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**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)	<0.1		<0.1	<0.1	<0.1
Antimony (Sb) (TRC)	0.3		0.3	0.2	0.1
Arsenic (As) (DIS)	6.8	12	12	15	15
Arsenic (As) (TOT)	6.9			15	14
Beryllium (Be) (TRC)	<0.001		<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	0.3	0.3	0.3	0.3	0.2
Cadmium (Cd) (TOT)	0.3			0.3	0.2
Copper (Cu) (DIS)	<0.008	<0.008	<0.008	<0.008	<0.008
Copper (Cu) (TOT)	<0.008			<0.008	<0.008
Iron (Fe) (TRC)	1.4		2	1.2	1.4
Lead (Pb) (DIS)	0.01	0.01 U	0.01 U	0.01	0.01
Lead (Pb) (TOT)	0.02			0.02	0.02
Manganese (Mn) (TRC)	2.1		2.3	1.8	2.4
Mercury (Hg) (TOT)	<0.0002		<0.0002	0.0003	<0.0002
Selenium (Se) (TRC)	0.02		0.01	0.009	0.005
Silver (Ag) (TRC)	<0.002		<0.002	<0.002	<0.002
Thallium (Tl) (TRC)	0.7		0.4	0.4	0.4
Zinc (Zn) (DIS)	0.3	0.3	0.3	0.2	0.1
Zinc (Zn) (TOT)	0.2			0.2	0.08

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N)	18		18	16	18
Nitrate + Nitrite as N	<0.05		<0.05	<0.05	<0.05

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)		1.1	1.09		
Depth To Water Level (ft)	7.02	7.3	7.3	7.7	8.02
Eh (millivolts)		301	300		
pH (Fid)	7.4	7.3	7.3	7.2	7.4
SC (umhos/cm at 25 C) (Fid)		2500	2520		
TDS (Measured at 180 C)		2236	2224		
Water Temperature (C) (Fid)	10.7	24.7	24.8	19.6	20.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7
Water	SAMPLE DATE	9/19/1996	9/19/1996	11/6/1996	11/6/1996	5/7/1997	5/7/1997
	SAMPLE TIME	16:00	16:15	10:45	11:00	15:15	15:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-1924021	96-1924023	96-7719	96-7728	97-950	97-964
	SAMPLE NUMBER	EHC-9609-108	EHC-9609-126	EHC-9611-208	EHC-9611-220	EHC-9705-208	EHC-9705-223
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)			287	293	335	336
Sulfate (SO4)			1348 J	945 J	1209	1187

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	15.1	14.9	9.7	9.2	7.2	6.6
Arsenic III (dis)			8.5	9.09	6.5	6.8
Arsenic V (dis)			0.8 J	0.7 J	0.4	0.3
Cadmium (Cd) (DIS)	0.2	0.2	0.1	0.1	0.3	0.3
Copper (Cu) (DIS)	<0.004	<0.004	0.004	<0.004	0.005	0.005
Lead (Pb) (DIS)	0.02	0.02	0.006	0.006	0.006	0.006
Zinc (Zn) (DIS)	0.1	0.1	0.1	0.1	0.3	0.3

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.2	1.2	1.4	1.4	1.6	2.2
pH			6.6	6.5	7.3	7.4
Depth To Water Level (ft)	8	8	8	8	7.2	7.2
Eh (millivolts)	94	92	119	115	131	130
pH (Fld)	7.4	7.4	7.5	7.5	7.3	7.3
SC (umhos/cm at 25 C) (Fld)	2270	2280	2790	2790	3160	3130
SC (umhos/cm at 25 C)			3130	3130	3360	3360
Total Suspended Solids					22	19
TDS (Measured at 180 C)	2143	2130	2251	2295	2541	2505
Water Temperature (C) (Fld)	17.1	17.1	10.6	10.7	8.2	8.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7
Water	SAMPLE DATE	11/5/1997	11/5/1997	5/13/1998	11/19/1998	11/19/1998	5/12/1999
	SAMPLE TIME	11:10	11:15	10:10	14:20	14:35	11:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	188-2701	189-2706	263-3808	314-4458	313-4449	348-4923
	SAMPLE NUMBER	EHC-9711-208	EHC-9711-219	EHC-9805-208	EHC-9811-208	EHC-9811-221	EHC-9905-208
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)			100	85 J	128 J	62 J
Calcium (Ca) (DIS)			337	524	508	547
Carbonate As CO3						<1 UJ
Chloride (Cl)	433	431	257	230	223	208
Magnesium (Mg) (DIS)			11	12	12	9.2
Potassium (K) (DIS)			72	67	71	79
Sodium (Na) (DIS)			251	305	304	548
Sulfate (SO4)	1523	1485	1172	1683	1786	2841
Total Alkalinity As CaCO3			82	70 J	105 J	51 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	8.6 J	6.7 J	4.7	1.6	1.6	1.5
Arsenic III (dis)	5.7 J	6.2 J	4.7	0.5 J	0.4 J	0.9
Arsenic V (dis)	1.05 J	1.1 J	0.2	1.1	1.08 J	0.6
Cadmium (Cd) (DIS)	0.2	0.2	0.06	0.4	0.3	0.7
Copper (Cu) (DIS)	0.007	0.005	0.005	0.004	0.004	0.01
Iron (Fe) (DIS)			7.4	0.7	0.8	3.3
Lead (Pb) (DIS)	0.006	0.006	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)			3.7	3.9	4.07	2.8
Zinc (Zn) (DIS)	0.2 J	0.2 J	0.1 J	0.3	0.3	1.1

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.9	2.9	1.7	1.8	1.8	1.6
pH	7	7	7.4	6.6	7.3	6.8
Depth To Water Level (ft)	7.8	7.8	7.3	7.8		7.3
Eh (millivolts)				147	147	260
pH (Fld)	7.3	7.4	7	6.9	6.9	6.8
SC (umhos/cm at 25 C) (Fld)	3770	3760	2570	3990	3920	3770
SC (umhos/cm at 25 C)	3860	3840	2970	3700	3670	4910
Total Suspended Solids	<1 J	25 J				
TDS (Measured at 180 C)	3092	3068 J	2232	3044	3070	4073
Water Temperature (C) (Fld)	13	13	12.7	13	13	8.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7
Water	SAMPLE DATE	11/17/1999	5/9/2000	11/10/2000	5/8/2001	11/14/2001	5/31/2002
	SAMPLE TIME	11:00	09:55	11:35	14:10	11:10	14:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L992055009	L000705010	L001897009	L010655027	L011563009	L020412012
	SAMPLE NUMBER	EHC-9911-110	EHC-0005-109	EHC-0011-109	EHC-0105-109	EHC-0111-108	EHC-0205-110
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	127	122	93	142	87	79
Calcium (Ca) (DIS)	411	270	265	111	171	145
Carbonate As CO3	<1	<1	<1		<1	<1
Chloride (Cl)	276	332	322	654	301	218
Magnesium (Mg) (DIS)	11	10	12	5.9	17	16
Potassium (K) (DIS)	87	81	64	74	59	38
Sodium (Na) (DIS)	1129	1276	1292	1178	1187	827
Sulfate (SO4)	2934	3156	3215	3188	2593	2173
Total Alkalinity As CaCO3	104	100	76	116	71	65

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			0.04	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	2.4	2.9	2.2	4.4	6.7	2.1
Arsenic III (dis)	0.2	1.3	0.2	5.4	2.9	1
Arsenic V (dis)	2	1.6	1.7	<0.005	3.1	1.1
Cadmium (Cd) (DIS)	0.3	0.3	0.2	0.2	0.2	0.3
Copper (Cu) (DIS)	0.009 J	0.01	<0.004	0.03	0.009	0.02
Iron (Fe) (DIS)	0.5	1.9	0.7	2.3	27	4.1
Lead (Pb) (DIS)	<0.005	0.02	<0.005	<0.005	0.02	<0.005
Manganese (Mn) (DIS)	2	2.2	1.8	2.1	4.7	1.8
Zinc (Zn) (DIS)	0.8	0.9	0.4	0.5	0.5	4

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					-105.1	-4.1
Oxygen (O) (DIS) (Fld)	5.1	7.1	0.7	1.7	0.5	0.5
pH	7.6	7.3	7.6	7.5	6.7	6.7
Silicon+Silica (Si+SiO2)			17	11	22	14
Depth To Water Level (ft)	7.9	7.5	8	6.9	8.2	7.8
Eh (millivolts)	288	336	216	214	140	
pH (Fld)	7.3	7.2	7.06	7.5	6.9	7.1
SC (umhos/cm at 25 C) (Fld)	5850	6547	7050	5050	4580	4520
SC (umhos/cm at 25 C)	6420	6770	6780	6140	5660	4520
Total Suspended Solids	2.7 J			11	46	14
TDS (Measured at 180 C)	5166	3951	5327	4515	4351	3474
Water Temperature (C) (Fld)	11.9	8.3	13	8.5	14.9	9.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7
Water	SAMPLE DATE	11/13/2002	5/30/2003	10/25/2003	5/21/2004	10/25/2004	5/12/2005
	SAMPLE TIME	11:00	14:30	10:30	09:15	13:05	13:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper
	LAB NUMBER	L020948001	L030242011	L030598020	H04050141-001	H04100175-001	C05050485-008
	SAMPLE NUMBER	EHC-0211-110	AEH-0306-110	AEH-0310-338	AEH-0405-140	AEH-0411-100	AEH-0505-134
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

### Common Ions (mg/L): ppm unless noted

Bicarbonate (HCO3)	32	99	124	160	160	143
Calcium (Ca) (DIS)	100	74	80	63	55	51
Carbonate As CO3	<1	<2	<2			
Chloride (Cl)	198	103	97	69	50 UJ	35
Magnesium (Mg) (DIS)	9.2	7.9	9	7	6	7
Potassium (K) (DIS)	27	28	23	20	17	13
Sodium (Na) (DIS)	692	468	465	328	269	227
Sulfate (SO4)	1788	1084	802	720	507	445
Total Alkalinity As CaCO3	26	81	102	130	130	117

### Metals (mg/L): ppm unless noted

Aluminum (Al) (DIS)	<0.05					
Arsenic (As) (DIS)	5.6	3.7	7.1	3.95	5.66	3.12
Arsenic III (dis)	5.5	3.9	7.1	<0.001	4.7 J	3.2
Arsenic V (dis)	0.4	0.1	<0.005	4.6	1.1 J	0.1
Cadmium (Cd) (DIS)	0.02	0.01	<0.001	0.009	<0.001	0.061
Copper (Cu) (DIS)	0.005	0.007	0.007	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	6.2	2.8	4.2	4.41	3.59	3.56
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	1.2	0.7	1.1	0.96	0.81	0.88
Zinc (Zn) (DIS)	0.07	0.3	0.05	0.03	0.04	0.43

### Physical/Fld-Lab: ppm unless noted

Oxygen (O) (DIS) (Fld)	2.8	0.1	0.65	0.11	0.18	0.76
pH	6.3	7.7	7.6	7.7	7.4	7.55
Silicon+Silica (Si+SiO2)	9.3					
Depth To Water Level (ft)	7.9	6.3	8.15	7.5	7.93	6.88
pH (Fld)	6.06	7.2	7.58	6.82	7.09	7.62
SC (umhos/cm at 25 C) (Fld)	3390	2530	2450	1980	1482	1360
SC (umhos/cm at 25 C)	3480	2570	2460	1960	1330	1300
Total Suspended Solids	23	13	16	13	14	<10
TDS (Measured at 180 C)	2535	1769	1713	1300	1040	869
TDS - Calculated						862
Salinity (G/KG) (Fld)	1.6	1.2	1.1	1		
Turbidity (NTU) (Fld)	16	5	1	10		
Water Temperature (C) (Fld)	11.1	10.8	17.3	11	14.8	7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7	APSD-7
Water	SAMPLE DATE	5/12/2005	11/9/2005	5/4/2006	11/15/2006	5/17/2007	12/5/2007
	SAMPLE TIME	13:25	14:40	11:20	10:00	08:30	10:42
	LAB	ELI-Casper	ELI-Hel	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	C05050485-009	H05110081-014	H06050056-008	H06110135-005	H07050207-001	H07120050-003
	SAMPLE NUMBER	AEH-0505-135	AEH-0511-138	AEH-0605-145	AEH-0611-187	AEH-0705-164	AEH-0711-197
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	141	140	180	150	170	
Bicarbonate (HCO3) (dis)						160
Calcium (Ca) (DIS)	51	45	40	40	43	44
Chloride (Cl)	35	29	35	22	19	20
Magnesium (Mg) (DIS)	7	6	5	5	8	8
Potassium (K) (DIS)	13	15	11	10	10	6
Sodium (Na) (DIS)	229	170	205	184	165	135
Sulfate (SO4)	446	385	348	330	307	286
Total Alkalinity As CaCO3	116	120	150	120	140	130

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)						<0.005
Selenium-VI (dis)						<0.005
Arsenic (As) (DIS)	3.15	4.6	3.189	4.108	2.616	1.472
Arsenic III (dis)	2.9	1.4	3	5.3	2.9	0.98
Arsenic V (dis)	0.1	0.16	<0.01	0.3	0.349 J+	0.494
Cadmium (Cd) (DIS)	0.059	0.006	<0.001	0.002	<0.001	0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	3.64	2.64	4.27	2.82	2.11	2.46
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.89	0.77	0.89	0.62	0.58	0.64
Selenium (Se) (DIS)						0.006
Zinc (Zn) (DIS)	0.42	0.08	0.04	0.02	0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential				-169.4		
Oxygen (O) (DIS) (Fid)		0.31	1.46	0.16	0.07	0.37
pH	7.6	7.4	7.2	7.4	7.7	7.8
Depth To Water Level (ft)		7.62	6.87	7.41	7.26	7.64
pH (Fid)		7.28	7.23	7.47	7.69	7.29
SC (umhos/cm at 25 C) (Fid)		1128	1156	1094	1006	901
SC (umhos/cm at 25 C)	1260	1110	1260	1070	961	865
Total Suspended Solids	<10	11	13	14 J	<10	11
TDS (Measured at 180 C)	856	719	837	730	661	588
TDS - Calculated	865					
Water Temperature (C) (Fid)		13.89	9.96	10.78	12.83	7.87

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-7	APSD-7	APSD-7	APSD-8	APSD-8
Water	SAMPLE DATE	5/9/2008	11/10/2008	5/14/2009	11/17/1993	3/28/1994
	SAMPLE TIME	12:55	14:25	15:30	13:20	10:15
	LAB	ELI	ELI	ELI	TSC-SLC	TSC-SLC
	LAB NUMBER	H08050176-009	H08110106-014	H09050233-016	93-9341	94-502004
	SAMPLE NUMBER	AEH-0805-201	AEH-0811-208	AEH-0905-220	EHC-9311-183	AHCL-9403-109
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	150	180	180		
Calcium (Ca) (DIS)	43	37	36		
Chloride (Cl)	15	14	12	3	
Magnesium (Mg) (DIS)	8	7	7		
Potassium (K) (DIS)	9	8	7		
Sodium (Na) (DIS)	117	106	107		
Sulfate (SO4)	240	210	190	4.8 J	
Total Alkalinity As CaCO3	120	150	150		

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005			
Selenium-VI (DIS)	<0.005	<0.005			
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1		
Antimony (Sb) (DIS)	0.053	0.057	0.04		
Arsenic (As) (DIS)	1.398	2.38	1.91	0.3	0.2
Arsenic III (DIS)	1.02	1.98		0.2	
Arsenic V (DIS)	0.0182	0.253		0.09 J	
Barium (Ba) (DIS)	<0.1	<0.1	<0.1		
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001		
Cadmium (Cd) (DIS)	<0.001	0.002	<0.001	0.002	0.001
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001		
Cobalt (Co) (DIS)	<0.01	<0.01	0.0017 UJ		
Copper (Cu) (DIS)	<0.004	<0.004	0.001 UJ	<0.004	<0.004
Gold (Au) (DIS)			<0.01		
Iron (Fe) (DIS)	2.89	2.52	2.68		
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.79	0.46	0.53		
Mercury (Hg) (DIS)	<0.006	<0.006	0.0001		
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01		
Selenium (Se) (DIS)	<0.005	<0.005	0.003		
Silver (Ag) (DIS)	<0.005	<0.005	<0.005 J		
Tellurium (Te) (DIS)			<0.1		
Thallium (Tl) (DIS)	0.004	0.013	0.006		
Vanadium (V) (DIS)	<0.01	<0.01	<0.01		
Zinc (Zn) (DIS)	<0.01	0.04	0.02 UJ	0.02 UJ	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.24	0.23	0.16	2.1	3.5
pH	7.4	7.7	8		
Depth To Water Level (ft)	7.62	7.9	7.03	6.5	6.6
pH (Fld)	7.49	7.36	7.64	7.4	6.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-7	APSD-7	APSD-7	APSD-8	APSD-8
Water	SAMPLE DATE	5/9/2008	11/10/2008	5/14/2009	11/17/1993	3/28/1994
	SAMPLE TIME	12:55	14:25	15:30	13:20	10:15
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	TSC-SLC	TSC-SLC
	LAB NUMBER	H08050176-009	H08110106-014	H09050233-016	93-9341	94-502004
	SAMPLE NUMBER	AEH-0805-201	AEH-0811-208	AEH-0905-220	EHC-9311-183	AHCL-9403-109
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	828	794	746	248	314
SC (umhos/cm at 25 C)	821	770	750	235 J	
Total Suspended Solids	<10	<10	<10		
TDS (Measured at 180 C)	521	502	458	155	187
Water Temperature (C) (Fid)	8.3	13.3	9.7	9.8	6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8
Water	SAMPLE DATE	4/11/1994	5/6/1994	5/6/1994	5/17/1994	5/19/1994	5/24/1994
	SAMPLE TIME	09:30	13:15	13:15	10:45	11:15	11:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-591001	94-747002	94-1115	94-798002	94-816002	94-831002
	SAMPLE NUMBER	AHCL-9404-150	AHCL-9405-201	EHC-9405-112	AHCL-9405-216	AHCL-9405-230	AHCL-9405-241
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	4
Sulfate (SO4)	45

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.3 U	0.2	0.2	0.2	0.2 U	0.6
Arsenic III (dis)			0.1			
Arsenic V (dis)			0.06 U			
Cadmium (Cd) (DIS)	0.002 U	0.001	0.001 U	0.004 U	0.004	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	0.02 U	0.06	0.02 U	0.02 U	0.03	0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.2	1.5	1.5	1.8	2.1	1.8
Depth To Water Level (ft)	6.4	6.1	6.1	6.6	6.5	6.6
pH (Fld)	6.8	7.4	7.4	7.4	7	7.6
SC (umhos/cm at 25 C) (Fld)	333	270	306	313	291	306
SC (umhos/cm at 25 C)			276			
TDS (Measured at 180 C)	206	180	196	189	186	207
Water Temperature (C) (Fld)	7.6	7.5	7.5	6.4	6.7	8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8
Water	SAMPLE DATE	5/26/1994	5/31/1994	6/2/1994	6/6/1994	6/13/1994	7/12/1994
	SAMPLE TIME	12:10	11:30	11:20	11:15	11:15	11:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-851002	94-873002	94-893002	94-917002	94-959002	94-1209002
	SAMPLE NUMBER	AHCL-9405-256	AHCL-9405-101	AHCL-9406-101	AHCL-9406-201	AHCL-9406-301	AHCL-9407-101
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	14	0.6	0.3	2.1	0.3	0.2
Cadmium (Cd) (DIS)	<0.001	0.003 U	<0.001	<0.001	<0.001	0.001 U
Copper (Cu) (DIS)	0.01 U	<0.004	<0.004	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	0.02	0.02 U	0.01	0.02 U	0.01	0.02 U

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.8	1.6	1.8	1.5	2.2	1.1
Depth To Water Level (ft)	6.7	6.8	6.8	6.8	7.02	7.4
pH (Fld)	7.6	7.3	7.2	7.6	7	7
SC (umhos/cm at 25 C) (Fld)	1160	284	278	371	248	226
TDS (Measured at 180 C)	800	174	167	230	172	158
Water Temperature (C) (Fld)	9.7	8.2	8.5	9.8	10	11.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8
Water	SAMPLE DATE	8/10/1994	8/19/1994	8/26/1994	9/2/1994	9/8/1994	9/16/1994
	SAMPLE TIME	09:45	12:00	15:20	11:30	10:30	10:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1418001	94-1504027	94-1536008	94-1585002	94-1608002	94-1683002
	SAMPLE NUMBER	AHCL-9408-100	AHCL-9408-310	AHCL-9408-410	AHCL-9409-101	AHCL-9409-201	AHCL-9409-301
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Sulfate (SO4)			4.2	3.6	3.8	3.9
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.2 J	0.2	0.3 J	0.2	0.2	0.2
	Arsenic III (dis)			0.1	0.06	0.08	0.2
	Arsenic V (dis)			0.1 J	0.1 UJ	0.08 U	0.1 J
	Cadmium (Cd) (DIS)	0.002	<0.001	0.003 J	0.01	0.003	0.005 U
	Copper (Cu) (DIS)	0.007	<0.004	<0.004	<0.004	<0.004	<0.004
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	0.02	0.02 U	0.03 UJ	0.05 U	0.03 U	0.03 U
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	5.8	2.3	2.7	3.9	3.8	4.5
	Depth To Water Level (ft)	7.7	7.7	7.7	7.8	7.7	7.7
	Eh (millivolts)			23	13	14	-70
	pH (Fld)	7	7.3	7.8	7.6	7.3	7.3
	SC (umhos/cm at 25 C) (Fld)	290	291	277	309	294	321
	TDS (Measured at 180 C)	164	98 J	196	221	270	181
	Water Temperature (C) (Fld)	13.6	14.4	16.3	16.4	15.5	15

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8
Water	SAMPLE DATE	9/27/1994	10/5/1994	10/13/1994	10/28/1994	11/3/1994	11/17/1994
	SAMPLE TIME	13:15	12:30	11:45	12:00	16:00	09:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1778006	94-1820002	94-1887002	94-1979002	94-2018002	94-3384
	SAMPLE NUMBER	AHCL-9409-410	AHCL-9410-101	AHCL-9410-201	AHCL-9410-401	AHCL-9411-101	EHC-9411-112
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)	33	41	37		35	
Chloride (Cl)						5.7
Magnesium (Mg) (DIS)	7.6	8.7	8		7.5	
Potassium (K) (DIS)	<2	4.3	2.4		3.4	
Sodium (Na) (DIS)	14	15	14		14	
Sulfate (SO4)	7	10	13	14	21	20

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.3	0.2	0.3	0.3	0.4	0.4
Arsenic (As) (TOT)			0.3			
Arsenic III (dis)	0.3	0.2 J	0.2	0.3	0.4	0.3 J
Arsenic V (dis)	0.01	0.2 J	0.07	0.09 J	0.06	0.06
Cadmium (Cd) (DIS)	0.003	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)			<0.001			
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)			<0.004			
Iron (Fe) (TOT)	7.6	7.9	8	8.1	8.8	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005 J	<0.005	<0.005
Lead (Pb) (TOT)			0.006			
Zinc (Zn) (DIS)	0.02 U	0.02 U	0.01	0.02 U	0.02	0.02
Zinc (Zn) (TOT)	0.02 U		0.01			

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.7	2.9	2.8	2	2.1	1.8
pH						7
Depth To Water Level (ft)	7.7	7.6	7.4	4.5	7.4	7.4
Eh (millivolts)	-99	-36	33	55	-49	
pH (Fld)	7.6	7.4	6.7	7.1	7.3	6.7
SC (umhos/cm at 25 C) (Fld)	332	357	353	387	354	304
SC (umhos/cm at 25 C)						301
Total Suspended Solids	23					
TDS (Measured at 180 C)	204	195	185	214	231	162 J
Water Temperature (C) (Fld)	16.3	15	13.5	13.1	10.6	10.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8
Water	SAMPLE DATE	3/29/1995	4/25/1995	5/12/1995	5/12/1995	5/22/1995	6/20/1995
	SAMPLE TIME	13:15	09:00	09:20	09:35	18:00	17:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-616009	95-826015	95-4508	95-4522	95-1057006	95-1280020
	SAMPLE NUMBER	AHCL-9503-109	AHCL-9504-117	EHC-9505-112	EHC-9505-174	AHCL-9505-111	AHCL-9506-109
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)	36	27.6			30.4	25
Chloride (Cl)			3.9	4.2		
Magnesium (Mg) (DIS)	7.6	6.1			6.2	4.6
Potassium (K) (DIS)	3.6	2.2			2.6	2.2
Sodium (Na) (DIS)	16	15.2			16.9	12
Sulfate (SO4)	55	43	36	38	45	14

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.4	0.3	0.4	0.4	0.4	0.4
Arsenic (As) (TOT)					0.5	
Arsenic III (dis)	0.4	0.2	0.3 J	0.3 J	0.4	0.3
Arsenic V (dis)	0.08	0.05	0.2 J	0.1 J	0.07	0.05
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
Cadmium (Cd) (TOT)					<0.001	
Copper (Cu) (DIS)	<0.004	<0.004	0.006	0.004	<0.004	0.004
Copper (Cu) (TOT)					<0.004	
Iron (Fe) (DIS)					6.9	
Iron (Fe) (TOT)	9.2	7.8			8.3 J	6.4
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)					<0.005	
Zinc (Zn) (DIS)	<0.008	0.008	0.006 J	0.006 J	<0.006	<0.02
Zinc (Zn) (TOT)					<0.006	

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.5	4.2	7.2	7.2	1.04	1.1
pH			7.2	7.2		
Depth To Water Level (ft)	7.4	7.06	6.08	6.08	6.06	6.3
Eh (millivolts)	-48	-121			-16	-111
pH (Fld)	7.6	7.1	7.6	7.6	6.1	7.5
SC (umhos/cm at 25 C) (Fld)	224 J	313	270	270	398	269
SC (umhos/cm at 25 C)			261 J	261 J		
Total Suspended Solids	17				13 J	13
TDS (Measured at 180 C)	232	179	156 J	163 J	187	152
Water Temperature (C) (Fld)	5.9	6	6.5	6.5	8.8	10.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8
Water	SAMPLE DATE	7/18/1995	8/16/1995	9/15/1995	10/4/1995	10/24/1995	11/8/1995
	SAMPLE TIME	09:00	09:45	12:30	13:20	10:00	12:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-1523010	95-1778010	95-2070027	95-2299002	95-2401018	95-2532008
	SAMPLE NUMBER	AHCL-9507-109	AHCL-9508-109	AHCL-9509-109	EPPC-9510-101	AHCL-9510-109	AHCL-9511-110
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)	43
Magnesium (Mg) (DIS)	8.6
Sulfate (SO4)	52
Total Hardness As CaCO3	131

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)	<0.1					
Antimony (Sb) (TRC)	<0.02					
Arsenic (As) (DIS)	0.4	2.05	7.2	4.6	4.1	5.2
Arsenic (As) (TOT)	4.7					
Beryllium (Be) (TRC)	<0.001					
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	0.009	0.002	<0.001
Cadmium (Cd) (TOT)	0.009					
Copper (Cu) (DIS)	<0.008	<0.004	0.006	<0.008	0.005	<0.008
Copper (Cu) (TOT)	<0.008					
Iron (Fe) (TRC)	11					
Lead (Pb) (DIS)	<0.005	<0.005	0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	0.005					
Manganese (Mn) (TRC)	2.3					
Mercury (Hg) (TOT)	<0.0002					
Selenium (Se) (TRC)	<0.001					
Silver (Ag) (TRC)	<0.001					
Thallium (Tl) (TRC)	<0.003					
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (TOT)	<0.02					

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N)	2
Nitrate + Nitrite as N	<0.05

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.5	1.09	2.07		1.3	0.6
Depth To Water Level (ft)	6.8	7.3	7.2	7.3	7.3	7.3
Eh (millivolts)	-112	-158	113		189	86
pH (Fld)	7.3	7.02	7.3	7.6	6.6	6.7
SC (umhos/cm at 25 C) (Fld)	279	1332	507		1491	1628
TDS (Measured at 180 C)	151	871	306		1321	1263
Water Temperature (C) (Fld)	11.1	14.3	15.1	14	11.6	11.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8
Water	SAMPLE DATE	11/8/1995	11/15/1995	12/12/1995	1/18/1996	2/15/1996	2/15/1996
	SAMPLE TIME	12:40	10:20	10:00	10:45	09:15	09:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-6113	95-2578002	95-2775002	96-152002	96-322002	96-322008
	SAMPLE NUMBER	EHC-9511-112	EPPC-9511-101	EPPC-9512-101	EPPC-9601-101	EPPC-9602-101	EPPC-9602-108
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Calcium (Ca) (DIS)		127				
	Chloride (Cl)	178 J					
	Magnesium (Mg) (DIS)		18				
	Sulfate (SO4)	51 J	473	591	944	1015	981
	Total Hardness As CaCO3		392				
<b>Metals (mg/L): ppm unless noted</b>							
	Aluminum (Al) (TRC)		0.2	<0.1	<0.1	<0.1	0.2
	Antimony (Sb) (TRC)		<0.1	<0.05	<0.05	<0.05	<0.05
	Arsenic (As) (DIS)	4.9 J	4.6	4.2	4.8	5.9	5.7
	Arsenic (As) (TOT)		4.8	4.5	4.6	5.9	6.1
	Arsenic III (dis)	5.5 J					
	Arsenic V (dis)	0.7 J					
	Beryllium (Be) (TRC)		<0.001	<0.001	<0.001	<0.001	<0.001
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Cadmium (Cd) (TOT)		<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)	<0.004	<0.008	<0.008	0.01	<0.008	<0.008
	Copper (Cu) (TOT)		<0.008	<0.008	0.01	<0.008	<0.008
	Iron (Fe) (TRC)		19	12	18	16	14
	Lead (Pb) (DIS)	<0.005 JU	<0.005	<0.005	<0.005	<0.005	<0.005
	Lead (Pb) (TOT)		<0.005	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (TRC)		3.9	2.7	4.8	5	4.4
	Mercury (Hg) (TOT)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	Selenium (Se) (TRC)		<0.002	0.002	0.003	0.003	0.003
	Silver (Ag) (TRC)		<0.002	<0.002	<0.002	<0.002	<0.002
	Thallium (Tl) (TRC)		<0.003	<0.003	0.001	0.006	0.005
	Zinc (Zn) (DIS)	<0.006	<0.02	<0.02	<0.02	<0.02	<0.02
	Zinc (Zn) (TOT)		<0.02	<0.02	0.03	<0.02	<0.02
<b>Nutrients: ppm unless noted</b>							
	Total Ammonia (NH3+NH4 as N)		5.2	3.7	6.7	13	12
	Nitrate + Nitrite as N		<0.05	<0.05	<0.05	<0.05	<0.05
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	0.6					
	pH	6.2					
	Depth To Water Level (ft)	7.3	7.2	7.2	7.3	7.05	7.05
	pH (Fld)	6.7	7.4	7.7	6.9	7	7.01
	SC (umhos/cm at 25 C) (Fld)	1628					
	SC (umhos/cm at 25 C)	1821 J					

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8
Water	SAMPLE DATE	11/8/1995	11/15/1995	12/12/1995	1/18/1996	2/15/1996	2/15/1996
	SAMPLE TIME	12:40	10:20	10:00	10:45	09:15	09:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-6113	95-2578002	95-2775002	96-152002	96-322002	96-322008
	SAMPLE NUMBER	EHC-9511-112	EPPC-9511-101	EPPC-9512-101	EPPC-9601-101	EPPC-9602-101	EPPC-9602-108
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
<b>Physical/Fid-Lab: ppm unless noted</b>							
	TDS (Measured at 180 C)	1288 J					
	Water Temperature (C) (Fld)	11.3	9.3	6.4	4.6	4.6	4.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8
Water	SAMPLE DATE	3/18/1996	4/17/1996	5/8/1996	5/15/1996	6/12/1996	6/12/1996
	SAMPLE TIME	13:30	11:50	10:45	20:10	11:00	11:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-548002	96-751002	96-6734	96-957002	96-1136002	96-1136008
	SAMPLE NUMBER	EPPC-9603-101	EPPC-9604-101	EHC-9605-209	EPPC-9605-101	EPPC-9606-101	EPPC-9606-108
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)			162			
	Sulfate (SO4)	894	696	566	817	198	208
<b>Metals (mg/L): ppm unless noted</b>							
	Aluminum (Al) (TRC)	<0.1	<0.1		<0.1	<0.1	<0.1
	Antimony (Sb) (TRC)	0.1	0.08		<0.05	<0.05	<0.05
	Arsenic (As) (DIS)	4.1	3.1	3	3.5	2.5	2.6
	Arsenic (As) (TOT)	3.8	3.2		3.3	2.4	2.4
	Arsenic III (dis)			2.9 J			
	Arsenic V (dis)			0.4 J			
	Beryllium (Be) (TRC)	<0.001	<0.001		<0.001	<0.001	<0.001
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
	Cadmium (Cd) (TOT)	0.001	<0.001		<0.001	<0.001	<0.001
	Copper (Cu) (DIS)	<0.008	<0.008	<0.004	<0.008	<0.008	<0.008
	Copper (Cu) (TOT)	<0.008	<0.008		<0.008	<0.008	<0.008
	Iron (Fe) (TRC)	9.8	8.9		7.5	3	2.9
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Lead (Pb) (TOT)	<0.005	<0.005		<0.005	<0.005	<0.005
	Manganese (Mn) (TRC)	3.7	3.1		2.3	1.1	1.1
	Mercury (Hg) (TOT)	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
	Selenium (Se) (TRC)	0.004	0.01		0.006	0.005	0.004
	Silver (Ag) (TRC)	<0.002	<0.002		<0.002	<0.002	<0.002
	Thallium (Tl) (TRC)	0.002	<0.003		<0.003	<0.003	<0.003
	Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	Zinc (Zn) (TOT)	<0.02	<0.02		<0.02	<0.02	<0.02
<b>Nutrients: ppm unless noted</b>							
	Total Ammonia (NH3+NH4 as N)	12	17		17	12	10
	Nitrate + Nitrite as N	<0.05	0.09		<0.05	<0.05	<0.05
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)			1.7			
	pH			7.2			
	Depth To Water Level (ft)	7.2	6.8	7.2	6.7	6.5	6.5
	Eh (millivolts)			226			
	pH (Fld)	7.4	7.6	7.4	7.5	7.6	7.6
	SC (umhos/cm at 25 C) (Fld)			1713			
	SC (umhos/cm at 25 C)			1540			
	TDS (Measured at 180 C)			1059			
	Water Temperature (C) (Fld)	4.7	6.4	7.6	9.2	9.7	9.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8
Water	SAMPLE DATE	6/25/1996	7/16/1996	8/15/1996	9/12/1996	9/19/1996	11/6/1996
	SAMPLE TIME	11:00	10:50	12:00	14:40	15:30	10:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-1243018	96-1375002	96-1623002	96-1853002	96-1924022	96-7720
	SAMPLE NUMBER	EHC-9606-109	EPPC-9607-101	EPPC-9608-101	EPPC-9609-101	EHC-9609-109	EHC-9611-209
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)						54
Sulfate (SO4)		305	153	164		195 J

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)		<0.1	<0.1	<0.1		
Antimony (Sb) (TRC)		0.005	0.09	0.005		
Arsenic (As) (DIS)	2.7	3.5	3.9	2.3	2.3	1.05
Arsenic (As) (TOT)		3.5	3.6	2.1		
Arsenic III (dis)						1
Arsenic V (dis)						0.06
Beryllium (Be) (TRC)		<0.001	<0.001	<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)		<0.001	<0.001	<0.001		
Copper (Cu) (DIS)	<0.008	<0.008	<0.008	<0.008	<0.004	<0.004
Copper (Cu) (TOT)		<0.008	<0.008	<0.008		
Iron (Fe) (TRC)		5	1.4	3.9		
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)		<0.005	<0.005	<0.005		
Manganese (Mn) (TRC)		1.6	1.6	1.2		
Mercury (Hg) (TOT)		<0.0002	<0.0002	<0.0002		
Selenium (Se) (TRC)		0.004	0.003	0.002		
Silver (Ag) (TRC)		<0.002	<0.002	<0.002		
Thallium (Tl) (TRC)		<0.003	0.02	<0.003		
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	0.02	0.02 U	<0.008
Zinc (Zn) (TOT)		<0.02	0.02	<0.02		

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N)		11	8	6.6		
Nitrate + Nitrite as N		<0.05	<0.05	<0.05		

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.2				1.2	1.6
pH						6.9
Depth To Water Level (ft)	6.6	7.2	7.4	7.4	7.4	7.3
Eh (millivolts)	261				157	125
pH (Fld)	7.6	7.2	7.9	7.1	7.3	7.6
SC (umhos/cm at 25 C) (Fld)	751				859	823
SC (umhos/cm at 25 C)						857
TDS (Measured at 180 C)	472				646	553
Water Temperature (C) (Fld)	12.6	16.4	19.7	17.5	15.6	10.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8
Water	SAMPLE DATE	5/7/1997	11/5/1997	5/13/1998	11/19/1998	5/12/1999	11/17/1999
	SAMPLE TIME	15:00	11:25	10:30	15:05	11:55	11:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	97-951	188-2702	263-3809	314-4459	348-4924	L992055010
	SAMPLE NUMBER	EHC-9705-209	EHC-9711-209	EHC-9805-209	EHC-9811-209	EHC-9905-209	EHC-9911-111
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)			117	122 J	73 J	151
Calcium (Ca) (DIS)			61	223	167	133
Carbonate As CO3					<1 UJ	<1
Chloride (Cl)	79	72	33	74	47	79
Magnesium (Mg) (DIS)			6	11	8.8	7.6
Potassium (K) (DIS)			10	25	21	25
Sodium (Na) (DIS)			45 J	150	147	265
Sulfate (SO4)	310	285	161	600	737	662 J
Total Alkalinity As CaCO3			96	100 J	60 J	124

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.3	1.6 J	1	1.06	1.3	0.8
Arsenic III (dis)	1	1.3 J	0.9	1.1	1.3	1
Arsenic V (dis)	0.03	0.1 J	0.02	0.02	0.03	0.03 J
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004 J
Iron (Fe) (DIS)			7.7	14	10.6	8.5
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	0.009	<0.005
Manganese (Mn) (DIS)			2.01	3.3	2.7	2.2
Zinc (Zn) (DIS)	<0.02	<0.02 J	<0.02 J	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	1.5	2	1.6	3.6	3.5	1.1
pH	7.3	7.1	7.2	7.2	7.8	7.5
Depth To Water Level (ft)	6.7	7.3	6.7	7.3	6.8	7.4
Eh (millivolts)	98			129	199	140
pH (Fid)	7.1	7.7	6.9	7.2	7.4	7.8
SC (umhos/cm at 25 C) (Fid)	1053	1071	590	1724	1538	1830
SC (umhos/cm at 25 C)	1141	1073	622	1584	1569	1960
Total Suspended Solids	12	<1 J				19 J
TDS (Measured at 180 C)	732	741	398	1141	1148	1268
Water Temperature (C) (Fid)	7.7	11.5	10	8.6	8.8	10.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8
Water	SAMPLE DATE	5/9/2000	11/10/2000	5/8/2001	11/14/2001	5/31/2002	11/13/2002
	SAMPLE TIME	10:10	12:00	13:55	11:25	15:00	11:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000705011	L001897010	L010655010	L011563010	L020412013	L020948002
	SAMPLE NUMBER	EHC-0005-110	EHC-0011-110	EHC-0105-110	EHC-0111-109	EHC-0205-111	EHC-0211-111
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	171	151	224	178	140	161
Calcium (Ca) (DIS)	185	117	68	55	44	29
Carbonate As CO3	<1	<1		<1	<1	<1
Chloride (Cl)	157	107	147	32	43	26
Magnesium (Mg) (DIS)	17	9.4	8.3	7	6.6	<5
Potassium (K) (DIS)	28	22	22	15	8.9	10
Sodium (Na) (DIS)	481	425	496	128	203	139
Sulfate (SO4)	1533	1020	1191	249	365	235
Total Alkalinity As CaCO3	140	124	184	146	115	132

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		<0.01	<0.05	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	0.8	0.8	0.8	0.7	0.4	0.7
Arsenic III (dis)	0.08 U	0.8	0.6	0.8 J	0.3	0.5
Arsenic V (dis)	0.08 U	0.04	0.2	<0.005	0.07	0.2
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	0.006	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	15	10	7.1	6.7	6.1	4.1
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.8	2.5	1.9	1.8	1.5	1
Zinc (Zn) (DIS)	0.07	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				-110	-26.4	
Oxygen (O) (DIS) (Fld)	6.04	0.8	1	0.6	0.3	8.9
pH	7.1	7.5	7.2	7.2	6.6	7
Silicon+Silica (Si+SiO2)		25	23	28	20	23
Depth To Water Level (ft)	7.1	7.5	6.4	7.7	7.4	7.6
Eh (millivolts)	223	151	203	136		
pH (Fld)	7.3	7.2	7.4	7.1	7.2	6.5
SC (umhos/cm at 25 C) (Fld)	3370	2760	2350	437	1170	695
SC (umhos/cm at 25 C)	3440	2730	2770	928	1146	828
Total Suspended Solids			22	16	16	11
TDS (Measured at 180 C)	2486	1947	1906	629	761	538
Salinity (G/KG) (Fld)						0.2
Turbidity (NTU) (Fld)						2
Water Temperature (C) (Fld)	9.1	10.6	8.6	12.4	8.2	10.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8
Water	SAMPLE DATE	11/13/2002	5/30/2003	10/25/2003	5/13/2004	10/22/2004	5/9/2005
	SAMPLE TIME	12:00	14:35	00:00	09:45	00:00	13:22
	LAB	TSC-SLC	ASARCO	TSC-SLC	ASARCO	ASARCO	ELI-Casper
	LAB NUMBER	L020948003	0306-218	AEH-0310-448	AEH-0405-231	z	AEH-0505-APSD8
	SAMPLE NUMBER	EHC-0211-238	AEH-0306-218	AEH-0310-448	AEH-0405-231	AEH-0411-241	AEH-0505-APSD8
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION			SWL Only Req	SWL Only Req	SWL Only Req	SWL Only Req
	REMARKS	Field Duplicate		No Sample	No Sample	No Sample	No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	160
Calcium (Ca) (DIS)	29
Carbonate As CO3	<1
Chloride (Cl)	25
Magnesium (Mg) (DIS)	<5
Potassium (K) (DIS)	9.9
Sodium (Na) (DIS)	135
Sulfate (SO4)	214
Total Alkalinity As CaCO3	131

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05
Arsenic (As) (DIS)	0.7
Arsenic III (dis)	0.5
Arsenic V (dis)	0.2
Cadmium (Cd) (DIS)	<0.001
Copper (Cu) (DIS)	<0.004
Iron (Fe) (DIS)	4.1
Lead (Pb) (DIS)	<0.005
Manganese (Mn) (DIS)	1
Zinc (Zn) (DIS)	<0.02

**Physical/Fld-Lab: ppm unless noted**

pH	7					
Silicon+Silica (Si+SiO2)	23					
Depth To Water Level (ft)		5.8	7.78	7.13	7.54	6.43
SC (umhos/cm at 25 C)	836					
Total Suspended Solids	12					
TDS (Measured at 180 C)	544					

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8	APSD-8
Water	SAMPLE DATE	11/3/2005	4/25/2006	11/6/2006	11/1/2007	5/15/2008	11/10/2008
	SAMPLE TIME	11:05	13:02	00:00	10:33	14:50	11:50
	LAB	ASARCO	Hydro	Hydrometrics	Hydrometrics	ELI	ELI
	LAB NUMBER	AEH-0511-240	AEH-0605-APSD8	z	AEH-0711-APSD8	H08050269-004	H08110106-006
	SAMPLE NUMBER	AEH-0511-240	AEH-0605-APSD8	AEH-0611-APSD8	AEH-0711-APSD8	AEH-0805-262	AEH-0811-200
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only	SWL Only	SWL Only	SWL Only Req		
	REMARKS	No Sample	No Sample	No Sample	No Sample		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	140	180
Calcium (Ca) (DIS)	54	34
Chloride (Cl)	12	5
Magnesium (Mg) (DIS)	10	7
Potassium (K) (DIS)	6	4
Sodium (Na) (DIS)	75	19
Sulfate (SO4)	160	25
Total Alkalinity As CaCO3	120	150

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005
Selenium-VI (DIS)	<0.005	<0.005
Aluminum (Al) (DIS)	<0.1	<0.1
Antimony (Sb) (DIS)	0.207	<0.005
Arsenic (As) (DIS)	0.67	0.191
Arsenic III (DIS)	0.329	0.134 J
Arsenic V (DIS)	0.232	0.0158 J
Barium (Ba) (DIS)	0.1	0.1
Beryllium (Be) (DIS)	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01
Copper (Cu) (DIS)	0.041	<0.004
Iron (Fe) (DIS)	5.77	5.55
Lead (Pb) (DIS)	<0.005	<0.005
Manganese (Mn) (DIS)	1.64	1.27
Mercury (Hg) (DIS)	<0.006	<0.006
Nickel (Ni) (DIS)	<0.01	<0.01
Selenium (Se) (DIS)	<0.005	<0.005
Silver (Ag) (DIS)	<0.005	<0.005
Thallium (Tl) (DIS)	0.014	<0.002
Vanadium (V) (DIS)	<0.01	<0.01
Zinc (Zn) (DIS)	0.03	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)					0.16	0.17
pH					7	7.4
Depth To Water Level (ft)	7.22	6.38	6.96	7.17	7.11	7.36
pH (Fld)					6.72	7.05
SC (umhos/cm at 25 C) (Fld)					611	355
SC (umhos/cm at 25 C)					628	337

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-8	APSD-8
Water	SAMPLE DATE	5/15/2008	11/10/2008
	SAMPLE TIME	14:50	11:50
	LAB	ELI	ELI
	LAB NUMBER	H08050269-004	H08110106-006
	SAMPLE NUMBER	AEH-0805-262	AEH-0811-200
	TYPE	Groundwater	Groundwater
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS		

**Physical/Fid-Lab: ppm unless noted**

Total Suspended Solids	11	12
TDS (Measured at 180 C)	421	206
Water Temperature (C) (Fid)	7.6	12.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-8	APSD-9	APSD-9	APSD-9	APSD-9
Water	SAMPLE DATE	5/13/2009	11/17/1993	4/12/1994	5/13/1994	7/14/1994
	SAMPLE TIME	11:30	11:45	09:00	10:45	11:40
	LAB	ELI	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050210-008	93-9342	94-591013	94-1379	94-1209019
	SAMPLE NUMBER	AEH-0905-195	EHC-9311-184	AHCL-9404-162	EHC-9405-113	AHCL-9407-118
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	140				
Calcium (Ca) (DIS)	42				
Chloride (Cl)	7	2.9		3.6	
Magnesium (Mg) (DIS)	8				
Potassium (K) (DIS)	5				
Sodium (Na) (DIS)	50				
Sulfate (SO4)	130	66		133 J	
Total Alkalinity As CaCO3	110				

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1				
Antimony (Sb) (DIS)	0.179				
Arsenic (As) (DIS)	0.746	1.4	1	1.1	1.5
Arsenic III (dis)		0.5		0.1	
Arsenic V (dis)		1 J		0.8 J	
Barium (Ba) (DIS)	0.1				
Beryllium (Be) (DIS)	<0.001				
Cadmium (Cd) (DIS)	<0.001	0.01	0.007 U	0.005	0.009
Chromium (Cr) (DIS)	<0.001				
Cobalt (Co) (DIS)	0.003 J				
Copper (Cu) (DIS)	0.001 UJ	0.004	0.004	0.004	<0.004
Gold (Au) (DIS)	<0.01				
Iron (Fe) (DIS)	5.27				
Lead (Pb) (DIS)	<0.005	0.005	<0.005	<0.005 UJ	0.005
Manganese (Mn) (DIS)	1.39				
Mercury (Hg) (DIS)	<0.0001				
Nickel (Ni) (DIS)	<0.01				
Selenium (Se) (DIS)	0.008				
Silver (Ag) (DIS)	<0.005				
Tellurium (Te) (DIS)	<0.1				
Thallium (Tl) (DIS)	0.01				
Vanadium (V) (DIS)	<0.01				
Zinc (Zn) (DIS)	0.02 UJ	0.3 J	0.4	0.7	0.3

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.19	2.6	2.2	2.9	1.2
pH	7.3				
Depth To Water Level (ft)	6.42	7.7	7.06	7.4	7.02
pH (Fld)	7.18	7.5	7.3	6.8	7.2
SC (umhos/cm at 25 C) (Fld)	480	384	444	510	482
SC (umhos/cm at 25 C)	519	378 J		529 J	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-8	APSD-9	APSD-9	APSD-9	APSD-9
Water	SAMPLE DATE	5/13/2009	11/17/1993	4/12/1994	5/13/1994	7/14/1994
	SAMPLE TIME	11:30	11:45	09:00	10:45	11:40
	LAB	ELI	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050210-008	93-9342	94-591013	94-1379	94-1209019
	SAMPLE NUMBER	AEH-0905-195	EHC-9311-184	AHCL-9404-162	EHC-9405-113	AHCL-9407-118
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

Total Suspended Solids	17				
TDS (Measured at 180 C)	343	246	296	366	322
Water Temperature (C) (Fid)	6.8	6.7	3.4	8.5	13.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-9	APSD-9	APSD-9	APSD-9	APSD-9	APSD-9
Water	SAMPLE DATE	8/22/1994	9/26/1994	10/20/1994	11/16/1994	3/29/1995	4/25/1995
	SAMPLE TIME	11:10	13:40	14:00	10:40	15:15	15:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1504002	94-1778023	94-1932009	94-3365	95-616010	95-826024
	SAMPLE NUMBER	AHCL-9408-311	AHCL-9409-411	AHCL-9410-311	EHC-9411-113	AHCL-9503-110	AHCL-9504-125
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	3.3
Sulfate (SO4)	55

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.7	1.4	1.3	0.9 J	1.1	1.07
Arsenic III (dis)				0.2 J		
Arsenic V (dis)				0.6		
Cadmium (Cd) (DIS)	0.01 J	0.006	0.003	0.01	0.003	0.005
Copper (Cu) (DIS)	0.004	0.009	<0.004	0.01	0.005	0.006
Lead (Pb) (DIS)	<0.005	0.005	0.005	0.006 J	0.005	<0.005
Zinc (Zn) (DIS)	0.1	0.2	0.1	0.3	0.2	0.3

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.5	3.1	3.5	3.6	1.6	1.8
pH				7.5		
Depth To Water Level (ft)	7	7.4	7.2	7.5	7.2	7.06
Eh (millivolts)		34	129		-7	-78
pH (Fld)	6.4	7.5	7.5	7.4	7.8	7.3
SC (umhos/cm at 25 C) (Fld)	463	368	398	366	237 J	479
SC (umhos/cm at 25 C)				365		
TDS (Measured at 180 C)	198	266	266 J	299	233	297
Water Temperature (C) (Fld)	20.6	19.3	13.7	7	3.5	4.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-9	APSD-9	APSD-9	APSD-9	APSD-9	APSD-9
Water	SAMPLE DATE	5/12/1995	5/23/1995	6/19/1995	7/18/1995	8/16/1995	9/15/1995
	SAMPLE TIME	15:20	09:30	17:10	10:50	10:40	13:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-4509	95-1057018	95-1280004	95-1523011	95-1778011	95-2070028
	SAMPLE NUMBER	EHC-9505-113	AHCL-9505-112	AHCL-9506-110	AHCL-9507-110	AHCL-9508-110	AHCL-9509-110
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	3
Sulfate (SO4)	110

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.03	0.8	1.2	0.8	1.1	1.4
Arsenic III (dis)	0.09 J					
Arsenic V (dis)	1 J					
Cadmium (Cd) (DIS)	0.007	0.005	0.006	0.01	0.01	0.007
Copper (Cu) (DIS)	0.01	0.005	0.008	<0.008	<0.004	0.01
Iron (Fe) (DIS)		0.1				
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	0.006	0.01	0.01
Zinc (Zn) (DIS)	0.4	0.3	0.3	0.3	0.3	0.2

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.3	2.4	1	1.5	0.9	1.2
pH	8.3					
Depth To Water Level (ft)	6.9	6.4	6.3	7.2	7.2	6.6
Eh (millivolts)		207	20	-43	-60	1
pH (Fld)	7.8	6.8	6.7	7.2	7.4	7.5
SC (umhos/cm at 25 C) (Fld)	477	548	485	464	372	376
SC (umhos/cm at 25 C)	484 J					
TDS (Measured at 180 C)	302 J	344 J	332	284	230	220
Water Temperature (C) (Fld)	6.6	9.7	12.3	15.3	18.3	18.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-9	APSD-9	APSD-9	APSD-9	APSD-9	APSD-9
Water	SAMPLE DATE	10/23/1995	11/8/1995	11/8/1995	5/8/1996	6/24/1996	9/19/1996
	SAMPLE TIME	15:40	14:05	14:05	11:30	11:20	13:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-2401004	95-2532009	95-6114	96-6723	96-1243013	96-1924017
	SAMPLE NUMBER	AHCL-9510-110	AHCL-9511-111	EHC-9511-113	EHC-9605-210	EHC-9606-110	EHC-9609-110
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)			2.5 J	9		
Sulfate (SO4)			48 J	111		

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1	1.09	1.2 J	0.8	0.7	1.1
Arsenic III (dis)			0.03	0.009 J		
Arsenic V (dis)			1.07 J	0.8 J		
Cadmium (Cd) (DIS)	0.005	0.004	0.004	0.01	0.01	0.01
Copper (Cu) (DIS)	0.004	0.01	<0.004	0.01	0.008	<0.004
Lead (Pb) (DIS)	0.007	0.006	0.02 J	<0.005	0.005 U	0.01
Zinc (Zn) (DIS)	0.2	0.2	0.2	0.5	0.3	0.2

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.3	0.7	0.7	1.7	1.3	1.5
pH			7.4	7.3		
Depth To Water Level (ft)	6.8	6.9	6.9	7.2	6.9	7
Eh (millivolts)	140	93		271	256	119
pH (Fld)	6.9	7.02	7.02	7.2	7.4	7.3
SC (umhos/cm at 25 C) (Fld)	287	313	313	474	377	368
SC (umhos/cm at 25 C)			342 J	420		
TDS (Measured at 180 C)	198	201	216 J	342	256	252
Water Temperature (C) (Fld)	11.4	8.7	8.7	5.5	14	17.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-9	APSD-9	APSD-9	APSD-9	APSD-9	APSD-9
Water	SAMPLE DATE	11/6/1996	5/7/1997	11/5/1997	5/13/1998	11/19/1998	5/12/1999
	SAMPLE TIME	09:10	14:45	12:50	11:00	16:50	12:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-7721	97-952	189-2703	263-3810	313-4446	348-4925
	SAMPLE NUMBER	EHC-9611-210	EHC-9705-210	EHC-9711-210	EHC-9805-210	EHC-9811-210	EHC-9905-210
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)				165	160 J	154 J
Calcium (Ca) (DIS)				60	49	46
Carbonate As CO3						<1 UJ
Chloride (Cl)	3.9	2	3	4	1.5	3.7
Magnesium (Mg) (DIS)				9	7.4	6.9
Potassium (K) (DIS)				<5	<5	<5
Sodium (Na) (DIS)				15 J	13	18 J
Sulfate (SO4)	75 J	97	52	88	53	61
Total Alkalinity As CaCO3				135	131 J	126 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.07	0.6	0.9 J	1	1.1	0.8
Arsenic III (dis)	0.05	0.04	0.2 J	0.1	0.2 J	0.04
Arsenic V (dis)	0.9 J	0.5	0.8 J	0.9	1.02	0.8
Cadmium (Cd) (DIS)	0.008	0.007	0.006	0.009	0.006	0.004
Copper (Cu) (DIS)	<0.004	0.008	0.005	0.01	<0.004	0.004
Iron (Fe) (DIS)				0.1 J	0.4	0.7 U
Lead (Pb) (DIS)	0.009	<0.005	<0.005	0.006	0.005	<0.005
Manganese (Mn) (DIS)				0.1 J	0.5	0.4
Zinc (Zn) (DIS)	0.3	0.3	0.2 J	0.3	0.2	0.2

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.5	1.6	2.8	1.7	2.8	1.6
pH	7.4	7.4	7.5	7.6	7.6	8
Depth To Water Level (ft)	6.8	7.2	7.4	7.2	7.08	6.9
Eh (millivolts)	220	157			113	198
pH (Fld)	8.1	7.3	8	6.8	7.2	7.5
SC (umhos/cm at 25 C) (Fld)	385	402	359	439	407	403
SC (umhos/cm at 25 C)	389	434	362	454	372	390
Total Suspended Solids		1	<1 JU			
TDS (Measured at 180 C)	250	309	241 J	302	234	268
Water Temperature (C) (Fld)	8.3	10	10.4	10.7	8.1	8.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-9	APSD-9	APSD-9	APSD-9	APSD-9	APSD-9
Water	SAMPLE DATE	11/17/1999	5/9/2000	11/10/2000	5/8/2001	11/14/2001	5/31/2002
	SAMPLE TIME	11:50	10:50	13:10	14:30	11:50	15:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L992055011	L000705012	L001897011	L010655012	L011563011	L020412016
	SAMPLE NUMBER	EHC-9911-112	EHC-0005-111	EHC-0011-111	EHC-0105-111	EHC-0111-110	EHC-0205-112
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	163	159	171	168	149	142
Calcium (Ca) (DIS)	45	41	47	66	44	41
Carbonate As CO3	<1	<1	<1		<1	<1
Chloride (Cl)	4.3	2.8	3.6 J	6.3	4.8	3.6
Magnesium (Mg) (DIS)	7.4	6.9	8	11	7.3	7
Potassium (K) (DIS)	<5	<5	<5	<5	<5	<5
Sodium (Na) (DIS)	15	14	19	25	17	19
Sulfate (SO4)	47 J	39	62	141	42	56
Total Alkalinity As CaCO3	134	130	140	138	122	116

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.01	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	0.8	0.7	0.8	0.7	0.9	0.5
Arsenic III (dis)	0.1	0.1	0.2	0.2	0.5 J	0.1
Arsenic V (dis)	0.7	0.6	0.8	0.5	0.4	0.4
Cadmium (Cd) (DIS)	0.004	0.006	<0.001	0.009	0.005	0.002
Copper (Cu) (DIS)	<0.004 J	0.006	<0.004	0.01	0.007	0.006
Iron (Fe) (DIS)	1.1	1	1.1	0.4	1	0.8
Lead (Pb) (DIS)	<0.005	0.006	<0.005	0.006	0.008	<0.005
Manganese (Mn) (DIS)	0.7	0.4	0.8	0.4	0.7	0.3
Zinc (Zn) (DIS)	0.2	0.2	0.2	0.3	0.2	0.2

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					-88.1	-24
Oxygen (O) (DIS) (Fld)	1.3	4.9	1.07	1.04	0.9	0.5
pH	7.6	7.6	7.8	7.9	6.7	6.5
Silicon+Silica (Si+SiO2)			20	19	21	20
Depth To Water Level (ft)	7.06	7.5	7.4	6.3	7.7	8.4
Eh (millivolts)	143	265	174	226	157	
pH (Fld)	7.9	7.3	7.05	7.5	7.3	6.8
SC (umhos/cm at 25 C) (Fld)	326	337	406	498	379	410
SC (umhos/cm at 25 C)	347	343	409	547	342	352
Total Suspended Solids	2.5 J			<1	1.9	1.9 J
TDS (Measured at 180 C)	229	226	281	371	228	254
Water Temperature (C) (Fld)	9.6	8.1	10.1	6.7	9.2	9.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-9	APSD-9	APSD-9	APSD-9	APSD-9	APSD-9
Water	SAMPLE DATE	11/13/2002	5/30/2003	10/25/2003	5/13/2004	10/22/2004	5/9/2005
	SAMPLE TIME	13:35	14:40	00:00	10:09	00:00	13:40
	LAB	TSC-SLC	ASARCO	TSC-SLC	ASARCO	ASARCO	ELI-Casper
	LAB NUMBER	L020948007	0306-219	AEH-0310-451	AEH-0405-235	z	AEH-0505-APSD9
	SAMPLE NUMBER	EHC-0211-112	AEH-0306-219	AEH-0310-451	AEH-0405-235	AEH-0411-244	AEH-0505-APSD9
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION			SWL Only Req	SWL Only Req	SWL Only Req	SWL Only Req
	REMARKS			No Sample	No Sample	No Sample	No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	162
Calcium (Ca) (DIS)	56
Carbonate As CO3	<1
Chloride (Cl)	5
Magnesium (Mg) (DIS)	9.2
Potassium (K) (DIS)	<5
Sodium (Na) (DIS)	16
Sulfate (SO4)	63
Total Alkalinity As CACO3	133

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05
Arsenic (As) (DIS)	0.8
Arsenic III (dis)	0.4
Arsenic V (dis)	0.4
Cadmium (Cd) (DIS)	0.004
Copper (Cu) (DIS)	0.005
Iron (Fe) (DIS)	1.6
Lead (Pb) (DIS)	<0.005
Manganese (Mn) (DIS)	0.6
Zinc (Zn) (DIS)	0.3

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.02					
pH	6.5					
Silicon+Silica (Si+SiO2)	20					
Depth To Water Level (ft)	8.1	6.3	7.86	6.91	7.26	6.24
pH (Fld)	6.4					
SC (umhos/cm at 25 C) (Fld)	324					
SC (umhos/cm at 25 C)	392					
Total Suspended Solids	3.8					
TDS (Measured at 180 C)	281					
Salinity (G/KG) (Fld)	0.1					
Turbidity (NTU) (Fld)	2					
Water Temperature (C) (Fld)	8.2					

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-9	APSD-9	APSD-9	APSD-9	APSD-9	APSD-9
Water	SAMPLE DATE	11/3/2005	4/25/2006	11/20/2006	11/1/2007	5/15/2008	11/10/2008
	SAMPLE TIME	11:25	13:38	00:00	10:48	15:25	10:15
	LAB	ASARCO	Hydro	Hydrometrics	Hydrometrics	ELI	ELI
	LAB NUMBER	AEH-0511-244	AEH-605-APSD6	AEH-0611-APSD9	AEH-0711-APSD9	H08050269-005	H08110106-002
	SAMPLE NUMBER	AEH-0511-244	AEH-0605-APSD6	AEH-0611-APSD9	AEH-0711-APSD9	AEH-0805-263	AEH-0811-196
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only	SWL Only	SWL Only	SWL Only Req		
	REMARKS	No Sample	No Sample	No Sample	No Sample		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	130	130
Calcium (Ca) (DIS)	58	41
Chloride (Cl)	4	4
Magnesium (Mg) (DIS)	10	7
Potassium (K) (DIS)	3	3
Sodium (Na) (DIS)	15	11
Sulfate (SO4)	60	61
Total Alkalinity As CaCO3	110	100

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005
Selenium-VI (DIS)	<0.005	<0.005
Aluminum (Al) (DIS)	<0.1	<0.1
Antimony (Sb) (DIS)	0.02	0.045
Arsenic (As) (DIS)	0.36	0.279
Arsenic III (DIS)	0.0314	0.0392
Arsenic V (DIS)	0.31	0.206
Barium (Ba) (DIS)	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001
Cadmium (Cd) (DIS)	0.004	0.003
Chromium (Cr) (DIS)	<0.001	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01
Copper (Cu) (DIS)	0.008	0.011
Iron (Fe) (DIS)	0.6	0.44
Lead (Pb) (DIS)	<0.005	<0.005
Manganese (Mn) (DIS)	0.48	0.31
Mercury (Hg) (DIS)	<0.006	<0.006
Nickel (Ni) (DIS)	<0.01	<0.01
Selenium (Se) (DIS)	<0.005	0.006
Silver (Ag) (DIS)	<0.005	<0.005
Thallium (Tl) (DIS)	<0.002	<0.002
Vanadium (V) (DIS)	<0.01	<0.01
Zinc (Zn) (DIS)	0.16	0.34

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		0.3	0.91
pH		7.2	7.5
Depth To Water Level (ft)	6.94	6.19	7.94
pH (Fld)		6.75	7.39
SC (umhos/cm at 25 C) (Fld)		6.62	7.01
SC (umhos/cm at 25 C)		360	355
		348	345

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-9	APSD-9
Water	SAMPLE DATE	5/15/2008	11/10/2008
	SAMPLE TIME	15:25	10:15
	LAB	ELI	ELI
	LAB NUMBER	H08050269-005	H08110106-002
	SAMPLE NUMBER	AEH-0805-263	AEH-0811-196
	TYPE	Groundwater	Groundwater
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS		

**Physical/Fid-Lab: ppm unless noted**

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Total Suspended Solids	<10	<10
TDS (Measured at 180 C)	230	213
Water Temperature (C) (Fid)	8.8	7.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-9	DH-1	DH-1	DH-1	DH-1
Water	SAMPLE DATE	5/13/2009	1/15/1985	1/15/1985	1/15/1985	1/15/1985
	SAMPLE TIME	14:35	00:00	00:00	00:00	00:00
	LAB	ELI	TSC-SLC	CAL	TSC-SLC	CAL
	LAB NUMBER	H09050210-014	85-696	S5704	85-688	S5705
	SAMPLE NUMBER	AEH-0905-201	AEH-8501-116	AEH-8501-116	AEH-8501-127	AEH-8501-127
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Split	Field Duplicate	Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	130	200	195	207
Calcium (Ca) (DIS)	43	142	122	127
Chloride (Cl)	3	83	81	83
Magnesium (Mg) (DIS)	6	36	28.8	29.2
Potassium (K) (DIS)	3	12	7.9	6.4
Sodium (Na) (DIS)	11	105	81.1	82.7
Sulfate (SO4)	46	434	450	240
Total Alkalinity As CaCO3	110	164	160	170

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1		0.2	0.3
Antimony (Sb) (DIS)	0.073		<0.01	<0.01
Arsenic (As) (DIS)	0.514	<0.004	<0.004	<0.004
Barium (Ba) (DIS)	<0.1		0.08	0.08
Beryllium (Be) (DIS)	<0.001		<0.0006	<0.0006
Cadmium (Cd) (DIS)	0.008	<0.001	<0.004	0.001
Chromium (Cr) (DIS)	<0.001		<0.002	0.003
Cobalt (Co) (DIS)	0.0009 J		<0.007	<0.007
Copper (Cu) (DIS)	0.017 UJ	0.008	0.007	<0.008
Gold (Au) (DIS)	<0.01			0.01
Iron (Fe) (DIS)	<0.02	0.03	0.7	0.03
Lead (Pb) (DIS)	0.006	<0.005	<0.003	<0.005
Manganese (Mn) (DIS)	0.02	0.09	0.1	0.1
Mercury (Hg) (DIS)	<0.0001		<0.0002	<0.0002
Nickel (Ni) (DIS)	<0.01		<0.03	<0.03
Selenium (Se) (DIS)	0.013		0.007	0.005
Silver (Ag) (DIS)	<0.005		<0.003	<0.003
Tellurium (Te) (DIS)	<0.1			
Thallium (Tl) (DIS)	<0.001		<0.002	<0.002
Tin (Sn) (DIS)			<0.04	<0.04
Vanadium (V) (DIS)	<0.01		<0.004	<0.004
Zinc (Zn) (DIS)	0.31	0.2	0.2	0.1

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.79			
pH	7.8	7.8	7.8	7.9
Depth To Water Level (ft)	6.34			
pH (Fld)	7.35			
SC (umhos/cm at 25 C) (Fld)	317	1318		
SC (umhos/cm at 25 C)	325	1420	870	780
Total Suspended Solids	<10	343	15	15

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APSD-9	DH-1	DH-1	DH-1
Water	SAMPLE DATE	5/13/2009	1/15/1985	1/15/1985	1/15/1985
	SAMPLE TIME	14:35	00:00	00:00	00:00
	LAB	ELI	TSC-SLC	CAL	CAL
	LAB NUMBER	H09050210-014	85-696	S5704	S5705
	SAMPLE NUMBER	AEH-0905-201	AEH-8501-116	AEH-8501-116	AEH-8501-127
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS			Split	Field Duplicate
<b>Physical/Fid-Lab: ppm unless noted</b>					
	TDS (Measured at 180 C)	218	978	950	960
	Water Temperature (C) (Fld)	8			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-1	DH-1	DH-1	DH-1	DH-1	DH-1
Water	SAMPLE DATE	4/10/1985	6/13/1985	8/12/1985	11/18/1986	11/18/1986	6/2/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	RMAL	TSC-SLC	TSC-SLC
	LAB NUMBER	85-2473	85-4512	85-6291	8611-21	86-7785	87-4006
	SAMPLE NUMBER	AEH-8504-312	AEH-8506-509	AEH-8508-717	AEH-8611-21	AEH-8611-21	AEH-8706-03
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Split		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		204			217	249 M
Calcium (Ca) (DIS)		133		289		215
Carbonate As CO3						<1
Chloride (Cl)		57				105 M
Magnesium (Mg) (DIS)		34		67.3		55
Potassium (K) (DIS)		12.5		13.7		12.8
Sodium (Na) (DIS)		106		130		120
Sulfate (SO4)		368			720	775 M
Total Alkalinity As CACO3		167				

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.007	0.007	<0.004	<0.01	0.01	<0.006 M
Arsenic III (dis)					0.008	0.05
Arsenic V (dis)					0.03 M	0.03
Cadmium (Cd) (DIS)	0.004	<0.001	0.003	<0.005	<0.001	<0.001 M
Copper (Cu) (DIS)		<0.008		<0.004		0.01 M
Iron (Fe +2) (TOT)					0.04	0.02
Iron (Fe) (DIS)		0.06		<0.03	0.05	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005
Manganese (Mn) (DIS)		0.03		<0.004		0.003
Zinc (Zn) (DIS)	0.4	0.4	0.08	<0.002	<0.008 M	0.009

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)					9	7.7
pH	7.1	8	6.9	7.7	7.7	7.7
Depth To Water Level (ft)					34.8	36.2
pH (Fld)					7.06 M	7.3
SC (umhos/cm at 25 C) (Fld)	1440	1214			2072	1897
SC (umhos/cm at 25 C)	1460	1300	1350	2050	2050	1880
Total Suspended Solids		493				
TDS (Measured at 180 C)	1115	878	993		1747	1302 M
Water Temperature (C) (Fld)					8.9	11.5 M

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-1	DH-1	DH-1	DH-1	DH-1	DH-1
Water	SAMPLE DATE	6/2/1987	11/18/1987	11/18/1987	4/25/1988	12/8/1988	4/18/1989
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-4007	87-10573	8711-216	88-3118	89-20	89-499
	SAMPLE NUMBER	AEH-8706-34	AEH-8711-216	AEH-8711-216	AEH-8804-300	AEH-8812-121	AEH-8904-200
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Split		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		229	180	146		
Calcium (Ca) (DIS)		302 M	303	310 J		
Carbonate As CO3		<1	<5	<1		
Chloride (Cl)		132 M	130	111 J	136 J	145
Magnesium (Mg) (DIS)		73 M	68.2	78 J		
Potassium (K) (DIS)		17	12.5	15		
Sodium (Na) (DIS)		136	130	117		
Sulfate (SO4)		840 M	850	918 J	990	925

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.006 M	0.01 M	<0.002	<0.006	0.006	0.006 J
Arsenic III (dis)	0.04	<0.008		0.008	0.03 J	0.02
Arsenic V (dis)	0.02	0.01			0.02 J	<0.008 UJ
Cadmium (Cd) (DIS)	<0.001 M	0.001	<0.0001	<0.001	0.001	<0.002
Copper (Cu) (DIS)	0.01	0.009	0.007		0.01	0.04 J
Iron (Fe +2) (TOT)	<0.01	<0.01		0.02	<0.01	<0.01
Iron (Fe) (DIS)	<0.02	0.04	0.008	0.02		
Lead (Pb) (DIS)	<0.005	0.005	<0.003	0.02 J	0.06	<0.02
Manganese (Mn) (DIS)	0.003	0.003	<0.002			
Zinc (Zn) (DIS)	<0.008	<0.008	0.008	0.04	<0.008	0.03

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.7	5.1 M		6.8	8.6	8.6
pH		8.08		7.9	7.5	7.1
Depth To Water Level (ft)	36.2	36.8		40.7	28.6	38.5
pH (Fld)	7.2	7.2		7.2	6.9	5.8
SC (umhos/cm at 25 C) (Fld)	1898	2285		2279	2486	2489
SC (umhos/cm at 25 C)		2330		2280 J	2450	2350
Total Suspended Solids		3.2				
TDS (Measured at 180 C)		1832 M	1830	1690 J	1876 J	2254
Water Temperature (C) (Fld)	11.5	8.8		10.2	9.9	8.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-1	DH-1	DH-1	DH-1	DH-1	DH-1
Water	SAMPLE DATE	10/11/1989	4/27/1990	11/28/1990	11/28/1990	5/3/1991	11/12/1991
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	12:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-794	90-1030	90-2223	90-2227	91-2664	91-3613
	SAMPLE NUMBER	AEH-8910-400	AEH-9005-400	AEH-9011-707	AEH-9011-731	AEH-9105-134	AEH-9111-322
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	140	96.7	117 J	113 J	114	118
	Sulfate (SO4)	970	849	942 J	984 J	1157	1104
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.008	0.01	0.01	0.01	0.008	0.02 J
	Arsenic III (dis)	<0.008	0.01	0.02 UJ	0.05 U	0.006 UJ	0.008 UJ
	Arsenic V (dis)	0.01 J	<0.008	0.004 U	0.005 U	0.04 UJ	0.009 UJ
	Cadmium (Cd) (DIS)	<0.003	0.001	0.001 U	0.001 U	0.002	0.001
	Copper (Cu) (DIS)	<0.008	<0.008	<0.008	<0.008	0.004	<0.004
	Lead (Pb) (DIS)	<0.005 UJ	<0.01 UJ	<0.005 UJ	<0.005	<0.005	<0.005 J
	Zinc (Zn) (DIS)	<0.008	0.009 U			<0.008	0.03
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	7.8	7.8	7	7	8.8	9
	pH	7.8	7.8	7.9	7.9	7.9	7.5
	Depth To Water Level (ft)	34.1	39.7	37.04	37.04	40.7	32.3
	pH (Fld)	7.3	6.9	7.02	7.02	7.6	7.4
	SC (umhos/cm at 25 C) (Fld)	2237	2339	2370	2347	2386	2340
	SC (umhos/cm at 25 C)	2430	2000	2320	2330	2410	2270
	TDS (Measured at 180 C)	2026 J	1581	1954 J	1951 J	2084	2064 J
	Water Temperature (C) (Fld)	11.8	11.4	9.7	9.7	11.5	11.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-1	DH-1	DH-1	DH-1	DH-1	DH-1	
Water	SAMPLE DATE	11/12/1991	4/15/1992	11/11/1992	4/29/1993	11/3/1993	5/4/1994	
	SAMPLE TIME	13:00	10:30	11:00	19:00	16:45	08:40	
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	
	LAB NUMBER	91-3616	92-4282	92-6765	93-7731	93-9148	94-1103	
	SAMPLE NUMBER	AEH-9111-357	AEH-9204-152	EHC-9211-123	EHC-9305-116	EHC-9311-115	EHC-9405-160	
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
	GROUP	RI	RI	RI	RI	RI	RI	
	DESCRIPTION							
	REMARKS	Field Duplicate					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)			386 J	307 J		
Chloride (Cl)	133	91 J	96 J	89	107 J	99
Magnesium (Mg) (Dis)			88	76 J		
Potassium (K) (Dis)			13	13		
Sodium (Na) (Dis)			149	136 J		
Sulfate (SO4)	1161	1039	1024 J	967	1347 J	1319
Total Hardness As CaCO3				1079		

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.008	0.02	<0.004	<0.004	<0.004	<0.004
Arsenic III (dis)	0.02 U	0.01	0.007 UJ	<0.004 J	<0.004	<0.004
Arsenic V (dis)	0.03 U	<0.004	0.008 UJ	0.1 UJ A	0.007 J	<0.004
Cadmium (Cd) (DIS)	0.001	0.001	0.002	0.001 J	0.001	0.002
Copper (Cu) (DIS)	<0.004	<0.004	0.004	<0.004	<0.004	0.004
Lead (Pb) (DIS)	<0.005 J	<0.005	<0.005	<0.005	<0.005	<0.005 J
Zinc (Zn) (DIS)	0.03	0.008	<0.006	0.009	0.02	0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9	8.5	8	8.8	8.8	8.3
pH	7.4	7.5	7.8			
Depth To Water Level (ft)	32.3	37.08	34.8	36.8	34.2	37.1
pH (Fld)	7.4	7.4	7.6	7.1	7.7	7.4
SC (umhos/cm at 25 C) (Fld)	2223	2260	2435	2260	2585	2445
SC (umhos/cm at 25 C)	2280	2480	2300	1980 J	2740 J	2560
TDS (Measured at 180 C)	2142 J	2116 J	2030	1911	2404	2203
Water Temperature (C) (Fld)	11.2	11.7	9.6	11.3	9	11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-1	DH-1	DH-1	DH-1	DH-1	DH-1
Water	SAMPLE DATE	5/4/1994	11/9/1994	11/9/1994	5/5/1995	5/5/1995	11/6/1995
	SAMPLE TIME	11:00	11:00	11:50	09:00	09:15	13:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1097	94-3266	94-3259	95-4451	95-4470	95-6089
	SAMPLE NUMBER	EHC-9405-121	EHC-9411-162	EHC-9411-121	EHC-9505-121	EHC-9505-161	EHC-9511-122
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	86	105	100	109	110	123
	Sulfate (SO4)	1316	1281	1267	1186	1008	1369
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004 J	<0.004
	Arsenic III (dis)	<0.004	<0.004	0.004 UJ	0.006	<0.004	<0.004
	Arsenic V (dis)	<0.004	0.008 U	<0.004	<0.004	<0.004	0.004 J
	Cadmium (Cd) (DIS)	0.002	0.003	0.003	0.005	0.005	0.001
	Copper (Cu) (DIS)	<0.004	0.005	0.005	0.01	0.009	<0.004
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005 J	<0.005	<0.005	<0.005 J
	Zinc (Zn) (DIS)	0.008	0.008	0.01	0.01	0.01	0.008
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	8.3	8.6	8.6	8.06	8.1	8.5
	pH				7.3	7.3	7.7
	Depth To Water Level (ft)	37.1	35.8	35.8	38.8	38.8	34.5
	pH (Fld)	7.4	7.7	7.7	8.2	8.2	7.2
	SC (umhos/cm at 25 C) (Fld)	2440	2550	2570	2530	2560	2840
	SC (umhos/cm at 25 C)	2590	2630	2620	2550	2500	2830 J
	TDS (Measured at 180 C)	2198	2274	2268	2134	2190	2329
	Water Temperature (C) (Fld)	11	9.9	9.9	10.2	10.2	8.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-1	DH-1	DH-1	DH-1	DH-1	DH-1
Water	SAMPLE DATE	5/7/1996	5/7/1996	11/6/1996	11/6/1996	5/2/1997	11/3/1997
	SAMPLE TIME	10:30	10:45	09:00	09:15	08:50	09:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-6706	96-6718	96-7735	96-7741	97-902	187-2664
	SAMPLE NUMBER	EHC-9605-110	EHC-9605-145	EHC-9611-110	EHC-9611-150	EHC-9705-109	EHC-9711-110
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	136	138	152	141	150	165
Sulfate (SO4)	1426	1682	1534 J	1418 J	1252	1442

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	<0.005	<0.004	<0.004	<0.005	<0.005
Arsenic III (dis)	<0.005 UJ	<0.005 UJ	<0.004	<0.004	<0.005	0.03
Arsenic V (dis)	0.006 J	0.006 J	<0.004	<0.004	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.005	0.005	0.005	0.005	0.007	0.006
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	<0.02	<0.02	0.009	0.008	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	8	8	8	8	7.8	7.7
pH	7.3	7.3	7.9	7.7	7.2	7.5
Depth To Water Level (ft)	37.6	37.6	36.9	36.9	39.06	34.9
pH (Fld)	6.5	6.6	7.5	7.5	6.3	6.9
SC (umhos/cm at 25 C) (Fld)	2550	2560	2970	2970	2790	3020
SC (umhos/cm at 25 C)	2430	2570	2770	2800	2920	3020
Total Suspended Solids						2
TDS (Measured at 180 C)	2430	2368	2401	2456	2688	2812
Water Temperature (C) (Fld)	9.9	9.9	9.1	9.1	9.1	9.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-1	DH-1	DH-1	DH-1	DH-1	DH-1
Water	SAMPLE DATE	5/4/1998	11/16/1998	5/7/1999	11/8/1999	5/1/2000	11/6/2000
	SAMPLE TIME	08:30	14:30	08:30	12:45	14:00	11:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	260-3753	310-4399	346-4870	L992007008	L000703004	L001873020
	SAMPLE NUMBER	EHC-9805-111	EHC-9811-110	EHC-9905-110	EHC-9911-122	EHC-0005-121	EHC-0011-122
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	224	248	239 J	249	244	272
Calcium (Ca) (DIS)	482	551	444	344	283	312
Carbonate As CO3			<1 UJ	<1	<1	<1
Chloride (Cl)	171	139	174	159	111	130 J
Magnesium (Mg) (DIS)	114	94	119	89	67	73
Potassium (K) (DIS)	21 J	16	25	14	13	13
Sodium (Na) (DIS)	238	200	222	153	130	145
Sulfate (SO4)	1478	1305	1608	1158	841	884 J
Total Alkalinity As CACO3	184	203	196 J	204	200	223

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)						<0.01 J
Arsenic (As) (DIS)	<0.005	0.009	0.006	<0.005	<0.005	0.005
Arsenic III (dis)	<0.005	0.008 U	<0.005	<0.005	0.01 U	0.02
Arsenic V (dis)	<0.005	<0.005	0.006	0.006	0.01 U	<0.02
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.01	0.005	0.007 U	0.02 J	0.004	<0.004 J
Iron (Fe) (DIS)	0.05	0.09 J	0.07 UJ	<0.02	0.06 U	<0.02 J
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02 UJ	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	0.02 J	<0.02	<0.02	<0.02 J	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.3	5.8	8.4	8.3	9	9.2
pH	7.3	7.6	7.5	7.8	7.6	7.7
Silicon+Silica (Si+SiO2)						36
Depth To Water Level (ft)	42.3	34.3	39.4	36	37.7	35.8
Eh (millivolts)		427	440	413	323	456
pH (Fld)	6.7	7.6	6.9	7.3	7.3	7.8
SC (umhos/cm at 25 C) (Fld)	3160	2860	2680	2710	2176	2540
SC (umhos/cm at 25 C)	3350	2790	3330	2800	2120	2420
Total Suspended Solids		2		<1 JU		
TDS (Measured at 180 C)	3221	2440	3036	2451 J	1741	2023
Water Temperature (C) (Fld)	10.4	10.1	9.9	10.7	12.3	10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-1	DH-1	DH-1	DH-1	DH-1	DH-1
Water	SAMPLE DATE	5/8/2001	11/6/2001	5/29/2002	11/14/2002	5/30/2003	10/24/2003
	SAMPLE TIME	16:10	10:30	10:00	11:45	14:10	15:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010655015	L011535001	L020396009	L020949008	L030242010	L030598012
	SAMPLE NUMBER	EHC-0105-122	EHC-0111-121	EHC-0205-126	EHC-0211-123	AEH-0306-109	AEH-0310-330
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	256	338	284	284	288	295
Calcium (Ca) (DIS)	309	248	208	272	249	184
Carbonate As CO3		<1	<1	<1	<2	<2
Chloride (Cl)	142	93	345	91	72	45
Magnesium (Mg) (DIS)	74	60	48	64	59	44
Potassium (K) (DIS)	14	13	11	13	13	10
Sodium (Na) (DIS)	158	140	121	152	146	117
Sulfate (SO4)	1125	828	626	853	618	402
Total Alkalinity As CaCO3	210	277	233	233	236	242

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05	<0.05	<0.05		
Arsenic (As) (DIS)	0.1	<0.005	0.007	0.009	<0.005	<0.005
Arsenic III (dis)	0.02	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	0.08	0.008	0.005	0.007	<0.005	<0.005
Cadmium (Cd) (DIS)	0.002	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.01	<0.004	0.004	0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	0.1	<0.02	<0.02	<0.03
Lead (Pb) (DIS)	0.008	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential		101	156			
Oxygen (O) (DIS) (Fld)	4.2	6.3	7.5	7.08	6.6	5.83
pH	7.8	8.2	7.2	7.6	7.7	8
Silicon+Silica (Si+SiO2)	34	36	33	33		
Depth To Water Level (ft)	40.3	35.6	40.8	38.08	39.5	36.88
Eh (millivolts)	269	321				
pH (Fld)	7.4	7.5	7.3	6.6	6.9	7.29
SC (umhos/cm at 25 C) (Fld)	2160	2000	1640	1980	1840	1460
SC (umhos/cm at 25 C)	2580	2080	1678	2140	1864	1484
Total Suspended Solids	2	<1	4.9	1.4	<1	<1
TDS (Measured at 180 C)	2177	1695	1304	1764	1433	1089
Salinity (G/KG) (Fld)				0.9	0.8	0.6
Turbidity (NTU) (Fld)				1	1	9
Water Temperature (C) (Fld)	13.3	11.2	11	11	11.9	11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-1	DH-1	DH-1	DH-1	DH-1	DH-1
Water	SAMPLE DATE	5/24/2004	11/1/2004	5/12/2005	11/11/2005	11/11/2005	5/10/2006
	SAMPLE TIME	15:25	11:35	11:50	11:00	11:10	09:25
	LAB	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel	ELI-Hel
	LAB NUMBER	H04050162-010	H04110018-003	C05050485-006	H05110105-006	H05110105-007	H06050119-002
	SAMPLE NUMBER	AEH-0405-160	AEH-0411-173	AEH-0505-132	AEH-0511-160	AEH-0511-161	AEH-0605-204
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	290	270	285	270	270	280	
Calcium (Ca) (DIS)	168	175	431	132	148	103 J+	
Chloride (Cl)	53 J	50	151	35	35	25	
Magnesium (Mg) (DIS)	37	40	93	32	36	24 J-	
Potassium (K) (DIS)	11	11	15	9	9	9	
Sodium (Na) (DIS)	103	103	193	100	108	85	
Sulfate (SO4)	430	473	1240	362	358	255	
Total Alkalinity As CaCO3	230	220	233	220	220	230	
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)	<0.005	<0.005	<0.002	<0.002	<0.002	<0.002 J	
Arsenic III (dis)	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	
Arsenic V (dis)	0.0062	0.0015	<0.005	<0.005	<0.005	<0.005	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Iron (Fe) (DIS)	0.06 J	<0.02	<0.02	<0.02	<0.02	<0.02	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	7.18	6.86	8.14	6.75		4.87	
pH	7.7	7.6	7.68	7.4	7.5	7.6	
Depth To Water Level (ft)	40.64	36.56	41.03	35.9		38.28	
pH (Fld)	6.8	7.29	6.97	7.3		7.19	
SC (umhos/cm at 25 C) (Fld)	1510	1533	2923	1329		974	
SC (umhos/cm at 25 C)	1290	1280	2810	1210	1210	910	
Total Suspended Solids	20 J	<10 J	11	14	16	82 J	
TDS (Measured at 180 C)	1090	1080 J	2360	859	868	711	
TDS - Calculated			2300				
Salinity (G/KG) (Fld)	0.06						
Water Temperature (C) (Fld)	11.3	11.4	11.5	11.92		12.24	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-1	DH-1	DH-1	DH-1	DH-1	DH-1
Water	SAMPLE DATE	11/9/2006	5/11/2007	11/27/2007	2/1/2008	5/1/2008	7/16/2008
	SAMPLE TIME	13:40	09:40	11:55	12:40	15:40	08:15
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110083-001	H07050137-002	H07110197-006	H08020014-010	H08050028-003	H08070334-005
	SAMPLE NUMBER	AEH-0611-140	AEH-0705-135	AEH-0711-161	AEH-0801-149	AEH-0805-133	AEH-0807-133
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	290	280		300	280	210
Bicarbonate (HCO3) (dis)			280			
Calcium (Ca) (DIS)	162	258	109	232	106	51
Chloride (Cl)	47	80	29	67	23	12
Magnesium (Mg) (DIS)	36	59	25	53	25	11
Potassium (K) (DIS)	10	13	8	13	8	6
Sodium (Na) (DIS)	113	166	96	158	86	58
Sulfate (SO4)	464	797	293	773	270	130
Total Alkalinity As CaCO3	240	230	230	250	230	170

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)			<0.005		<0.005	
Selenium-VI (DIS)			0.075		0.0495	
Aluminum (Al) (DIS)					<0.1	
Antimony (Sb) (DIS)					<0.005	
Arsenic (As) (DIS)	0.01	0.01	0.006	0.007	0.003	0.003
Arsenic III (DIS)	<0.005	<0.001	<0.001		<0.005	
Arsenic V (DIS)	<0.005	0.003	0.0038		<0.005	
Barium (Ba) (DIS)					<0.1	
Beryllium (Be) (DIS)					<0.001	
Cadmium (Cd) (DIS)	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)					0.002	
Cobalt (Co) (DIS)					<0.01	
Copper (Cu) (DIS)	<0.004	<0.004	<0.001	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.04	0.03	0.18	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.003	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)					<0.006	
Nickel (Ni) (DIS)					<0.01	
Selenium (Se) (DIS)			0.086	0.339	0.065	0.021
Silver (Ag) (DIS)					<0.005	
Thallium (Tl) (DIS)					<0.002	
Vanadium (V) (DIS)					<0.01	
Zinc (Zn) (DIS)	<0.02	<0.01	<0.01	<0.01	0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	81.3					
Oxygen (O) (DIS) (Fld)	5.77	6.66	6.96	6.6	7.11	6.91
pH	7.8	7.6	7.5	7.7	7.8	7.9
Depth To Water Level (ft)	35.76	40.16	36.41	39.63	40.25	35.75
pH (Fld)	7.28	7.32	7.52	7.26	7.25	7.33

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-1	DH-1	DH-1	DH-1	DH-1	DH-1
Water	SAMPLE DATE	11/9/2006	5/11/2007	11/27/2007	2/1/2008	5/1/2008	7/16/2008
	SAMPLE TIME	13:40	09:40	11:55	12:40	15:40	08:15
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H06110083-001	H07050137-002	H07110197-006	H08020014-010	H08050028-003	H08070334-005
	SAMPLE NUMBER	AEH-0611-140	AEH-0705-135	AEH-0711-161	AEH-0801-149	AEH-0805-133	AEH-0807-133
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	1356	2053	998	1475	1046	646
SC (umhos/cm at 25 C)	1300	1830	1090	1810	982	612
Total Suspended Solids	12 J	39	14	119	<10	<10
TDS (Measured at 180 C)	1030	1650	791	1610	726	430
Water Temperature (C) (Fid)	11.56	11.76	11.44	11.4	11.8	11.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-1	DH-1	DH-1	DH-1	DH-10
Water	SAMPLE DATE	7/16/2008	10/29/2008	2/4/2009	5/6/2009	1/18/1985
	SAMPLE TIME	08:25	14:10	11:00	13:15	00:00
	LAB	ELI	ELI	ELI	ELI	TSC-SLC
	LAB NUMBER	H08070334-006	H08100394-010	H09020036-012	H09050142-011	85-686
	SAMPLE NUMBER	AEH-0807-134	AEH-0811-129	AEH-0902-131	AEH-0905-133	AEH-8501-125
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	210	260	250	190	266
Calcium (Ca) (DIS)	50	84	69	44	65
Chloride (Cl)	12	18	16	8	30
Magnesium (Mg) (DIS)	11	20	15	10	9.3
Potassium (K) (DIS)	6	8	7	6	62
Sodium (Na) (DIS)	59	78	75	54	165
Sulfate (SO4)	130	220	200	100	352
Total Alkalinity As CaCO3	170	210	210	160	218

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005			
Selenium-VI (DIS)		0.033			
Aluminum (Al) (DIS)		<0.1		<0.1	
Antimony (Sb) (DIS)		<0.005		<0.003	
Arsenic (As) (DIS)	0.003	0.002	0.002	<0.005	5.1
Arsenic III (DIS)		<0.005			
Arsenic V (DIS)		<0.005 J			
Barium (Ba) (DIS)		<0.1		<0.1	
Beryllium (Be) (DIS)		<0.001		<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	0.003
Chromium (Cr) (DIS)		0.001		<0.001	
Cobalt (Co) (DIS)		<0.01		<0.0005	
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.001	0.009
Gold (Au) (DIS)				<0.01 UJ	
Iron (Fe) (DIS)	<0.02	0.02	<0.02	<0.02	0.06
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	4.8
Mercury (Hg) (DIS)		<0.006		<0.0001	
Nickel (Ni) (DIS)		<0.01		<0.01	
Selenium (Se) (DIS)	0.021	0.034	0.032	0.013	
Silver (Ag) (DIS)		<0.005 J		<0.005	
Tellurium (Te) (DIS)				<0.1	
Thallium (Tl) (DIS)		<0.002		<0.001	
Vanadium (V) (DIS)		<0.01		<0.01	
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.01 J	0.07

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		7.24	6.68	5.94	
pH	7.8	7.8	7.6	8	7.6
Depth To Water Level (ft)		36.43	38.91	39.14	
pH (Fld)		7.32	7.34	7.18	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-1	DH-1	DH-1	DH-1	DH-10
Water	SAMPLE DATE	7/16/2008	10/29/2008	2/4/2009	5/6/2009	1/18/1985
	SAMPLE TIME	08:25	14:10	11:00	13:15	00:00
	LAB	ELI	Hydrometrics	Hydrometrics	Hydrometrics	TSC-SLC
	LAB NUMBER	H08070334-006	H08100394-010	H09020036-012	H09050142-011	85-686
	SAMPLE NUMBER	AEH-0807-134	AEH-0811-129	AEH-0902-131	AEH-0905-133	AEH-8501-125
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Field Duplicate				

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)		867	831	538	1200
SC (umhos/cm at 25 C)	605	864	834	552	1340
Total Suspended Solids	<10	<10 J	<10	<10	485
TDS (Measured at 180 C)	435	590	533	359	856
Water Temperature (C) (Fld)		11.8	11.9	11.8	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-10	DH-10	DH-10	DH-10	DH-10	DH-10
Water	SAMPLE DATE	1/18/1985	1/18/1985	4/8/1985	6/15/1985	8/13/1985	11/18/1986
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	CAL	CAL	TSC-SLC	TSC-SLC	TSC-SLC	RMAL
	LAB NUMBER	S5709	S5757	85-2482	85-4503	85-6300	8611-30
	SAMPLE NUMBER	AEH-8501-125	AEH-8501-125	AEH-8504-321	AEH-8506-518	AEH-8508-726	AEH-8611-30
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split	Field Duplicate				Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)				245			
Calcium (Ca) (DIS)	56.8	58.9		60			137
Chloride (Cl)	37			25			
Magnesium (Mg) (DIS)	7.1	11.5		8.7			17.2
Potassium (K) (DIS)	46.9	51.4		64			93.5
Sodium (Na) (DIS)	119	118		144			156
Sulfate (SO4)	350			241			
Total Alkalinity As CaCO3	210			201			

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	0.2	10.8					
Antimony (Sb) (DIS)	0.03	0.02					
Arsenic (As) (DIS)	4	5.8	3.1	5.8	5.6		4.3
Barium (Ba) (DIS)	0.06	0.1					
Beryllium (Be) (DIS)	<0.0006	<0.0006					
Cadmium (Cd) (DIS)	<0.004	<0.004	0.003	<0.001	<0.001		0.006
Chromium (Cr) (DIS)	0.002	0.02					
Cobalt (Co) (DIS)	<0.007	0.01					
Copper (Cu) (DIS)	0.01	0.2		0.01			0.005
Iron (Fe) (DIS)	0.1	16.6		0.1			0.4
Lead (Pb) (DIS)	<0.003	0.2	<0.005	<0.005	<0.005		<0.005
Manganese (Mn) (DIS)	3.9	4.3		4.3			7.6
Mercury (Hg) (DIS)	<0.0002	0.002					
Nickel (Ni) (DIS)	<0.03	<0.03					
Selenium (Se) (DIS)	<0.002	<0.002					
Silver (Ag) (DIS)	<0.003	0.004					
Thallium (Tl) (DIS)	<0.002	<0.002					
Tin (Sn) (DIS)	<0.04	<0.04					
Vanadium (V) (DIS)	<0.004	0.04					
Zinc (Zn) (DIS)	0.06	0.6	0.2	0.1	0.1		0.08

**Physical/Fld-Lab: ppm unless noted**

pH	7.6		7.4	7.8	8		7.4
SC (umhos/cm at 25 C) (Fld)			1195	1024	441.8		
SC (umhos/cm at 25 C)	710		1150	1110	430		1550
Total Suspended Solids	35			56			
TDS (Measured at 180 C)	820		829	755	311		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-10	DH-10	DH-10	DH-10	DH-10	DH-10
Water	SAMPLE DATE	11/18/1986	6/3/1987	11/19/1987	11/19/1987	4/27/1988	12/19/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC
	LAB NUMBER	86-7793	87-4014	87-10579	8711-225	88-3124	89-38
	SAMPLE NUMBER	AEH-8611-30	AEH-8706-11	AEH-8711-225	AEH-8711-225	AEH-8804-309	AEH-8812-130
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Split		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	273	255	140 M	140	92	
Calcium (Ca) (DIS)		74.5	26.5 M	26.9	44	
Carbonate As CO3		<1	<1	<5	<1	
Chloride (Cl)		26 M	4.9 M	4.9	6.7 J	5.5
Magnesium (Mg) (DIS)		10.5	3.8 M	3.7	5	
Potassium (K) (DIS)		60	47.8	45.6	26	
Sodium (Na) (DIS)		148	49.1 M	48.6	31.3	
Sulfate (SO4)	560	413 M	95 M	86	111	92

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	4.4	1.7 M	5.3	4.8	1	1.3
Arsenic III (dis)	4.6 M	0.05	0.6		0.6	0.2 J
Arsenic V (dis)	0.2	1.8	4.7		1.4	1.5
Cadmium (Cd) (DIS)	<0.001	0.003 M	0.001	0.04	<0.001	0.001
Copper (Cu) (DIS)		0.01 M	<0.008	0.004		<0.008
Iron (Fe +2) (TOT)	0.4	0.06	0.04		0.05	<0.01
Iron (Fe) (DIS)	0.3	0.05	0.07	0.007	0.03	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.003	<0.005	<0.005 UJ
Manganese (Mn) (DIS)		2.2	1.6	1.6		
Zinc (Zn) (DIS)	0.07 M	0.05 M	0.02	0.03	0.1 J	0.07

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.4 M	1.5	1.8		2.9	3.4
pH	7.4	7.8	8.2 M		7.3	7.2
Depth To Water Level (ft)	7.6	6.2	8		7.5	8.4
pH (Fld)	7.2 M	6.7	6.6		6.6	7.01
SC (umhos/cm at 25 C) (Fld)	1582	1241	506.6		448.7	440.4
SC (umhos/cm at 25 C)	1550	1230	550		450	400
Total Suspended Solids			<1			
TDS (Measured at 180 C)	1300	854	345.2 M	340	266 J	255 J
Water Temperature (C) (Fld)	10.4	10.5	10.5		5.9	7.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-10	DH-10	DH-10	DH-10	DH-10	DH-10
Water	SAMPLE DATE	4/19/1989	4/19/1989	10/12/1989	4/29/1990	12/3/1990	5/8/1991
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-503	89-545	89-802	90-1056	90-2238	91-2692
	SAMPLE NUMBER	AEH-8904-209	AEH-8904-272	AEH-8910-409	AEH-9005-408	AEH-9011-716	AEH-9105-147
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	15		17.9	3.6	1.7 J	<2
Sulfate (SO4)	308		520	107	49 J	45

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1	1.1	2.6	1.01 J	0.6	0.5
Arsenic III (dis)	0.08	<0.008	0.3	1.2	0.5	0.5 J
Arsenic V (dis)	0.8 J	0.8 J	2.8	0.03 U	0.05	0.02 UJ
Cadmium (Cd) (DIS)	<0.002	<0.002 UJ	<0.003	0.001	0.001	0.001
Copper (Cu) (DIS)	<0.008 UJ	0.02 J	<0.008	0.008	<0.008	0.006
Iron (Fe +2) (TOT)	<0.01	<0.01				
Lead (Pb) (DIS)	<0.02	<0.02	<0.005 J	<0.005 UJ	<0.005 UJ	<0.005
Zinc (Zn) (DIS)	0.05	0.05	0.03	0.04		0.07

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.4		1.8	3.8	2.1	6
pH	6.8		7.8	7.8	7.8	7.5
Depth To Water Level (ft)	6.9		7	7.03	9.5	8.3
pH (Fld)	5.4		6.9	7	7.4	6.8
SC (umhos/cm at 25 C) (Fld)	907.3		1435	362.6	319	259.3
SC (umhos/cm at 25 C)	900		1420	373	308	270
TDS (Measured at 180 C)	765		1034 J	252	198 J	184
Water Temperature (C) (Fld)	7.7		13.7	5.4	8.1	5.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-10	DH-10	DH-10	DH-10	DH-10	DH-10
Water	SAMPLE DATE	11/18/1991	4/27/1992	4/27/1992	11/15/1992	5/5/1993	5/10/1995
	SAMPLE TIME	16:40	11:30	14:30	11:40	09:00	11:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	91-3864	92-4366	92-4364	92-6788	93-7779	95-4495
	SAMPLE NUMBER	AEH-9111-334	AEH-9204-156	AEH-9204-113	EHC-9211-121	EHC-9305-146	EHC-9505-170
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)				79 J	102	
Chloride (Cl)	6.3 J	3.6 J	3.5 J	15	16	3.8
Magnesium (Mg) (Dis)				10	14	
Potassium (K) (Dis)				99 J	63	
Sodium (Na) (Dis)				173	130	
Sulfate (SO4)	200	73	73	437	462	52
Total Hardness As CaCO3					312	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.4	0.5	0.5	1.2	0.5 J	0.8
Arsenic III (dis)	0.2 U	0.03	0.05	0.8 J	<0.004	0.03
Arsenic V (dis)	1.8	0.4	0.5	1.1 J	0.5 J	0.9 J
Cadmium (Cd) (DIS)	0.001	0.001	0.001	0.001	0.002	0.001
Copper (Cu) (DIS)	0.006	0.005	0.004	0.006	0.007	0.005
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 J
Zinc (Zn) (DIS)	0.05	0.04	0.03	0.02	0.05	0.008

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3	4.5	4.5	3.4	2.3	3.05
pH	7.3	7.5	7.2	7.7		7.3
Depth To Water Level (ft)	7.3	7.7	7.7	7.2	7.8	5.7
pH (Fld)	7.1	6.7	6.7	7.1	6.8	7.1
SC (umhos/cm at 25 C) (Fld)	760	322	318	1319	1296	313
SC (umhos/cm at 25 C)	700	315	317	1320	1300	301 J
TDS (Measured at 180 C)	544 J	205 J	209 J	980	940	208 J
Water Temperature (C) (Fld)	14.5	11.1	11.1	10.8	5.9	6.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-10A	DH-10A	DH-10A	DH-10A	DH-10A	DH-10A
Water	SAMPLE DATE	11/8/1995	5/9/1996	11/11/1996	5/6/1997	11/6/1997	5/7/1998
	SAMPLE TIME	17:20	14:30	08:30	18:00	12:40	08:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-6115	96-6770	96-7783	97-899	192-2740	260-3749
	SAMPLE NUMBER	EHC-9511-114	EHC-9605-102	EHC-9611-102	EHC-9705-102	EHC-9711-102	EHC-9805-102
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)							139
Calcium (Ca) (DIS)							16
Chloride (Cl)	21 J	23	29	7	75		15
Magnesium (Mg) (DIS)							<5
Potassium (K) (DIS)							72 J
Sodium (Na) (DIS)							98
Sulfate (SO4)	555 J	790	1079	199	1258		165
Total Alkalinity As CaCO3							114

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.4 J	1.1	1.4	1.3	1.7		3.4
Arsenic III (dis)	0.01	0.02 J	0.03 U	0.006	0.02		0.007 J
Arsenic V (dis)	1.6 J	1.08 J	1.3 J	1.2	1.2		3.2
Cadmium (Cd) (DIS)	<0.001	<0.005	0.002	<0.001	<0.001		<0.001
Copper (Cu) (DIS)	0.004	0.008	0.009	0.007	0.009		0.007 J
Iron (Fe) (DIS)							0.2
Lead (Pb) (DIS)	<0.005 JU	0.007	<0.005	<0.005	<0.005		<0.005
Manganese (Mn) (DIS)							0.3
Zinc (Zn) (DIS)	0.01	0.02	0.02	<0.02	<0.02		0.02 J

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.9	2.03	1.9	2.6	2.3		1.6
pH	7.7	7.1	7.7	7.1	7.5		7.4
Depth To Water Level (ft)	6	5.8	6.5	6.3	5.4		6.1
pH (Fld)	7.2	6.6	7.05	7.7	7.3		7
SC (umhos/cm at 25 C) (Fld)	1986	1875	2430	796	3120		694
SC (umhos/cm at 25 C)	2030 J	1750	2330	752	3000		703
Total Suspended Solids					8 J		
TDS (Measured at 180 C)	1407 J	1289	1736	517	2362 J		467
Water Temperature (C) (Fld)	12.5	5.7	10.4	7.5	12.4		7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-10A	DH-10A	DH-10A	DH-10A	DH-10A	DH-10A
Water	SAMPLE DATE	11/19/1998	5/10/1999	11/11/1999	5/8/2000	11/13/2000	5/7/2001
	SAMPLE TIME	11:45	16:20	13:00	12:30	16:45	13:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	312-4437	347-4886	L992007002	L000705013	L001897012	L010655057
	SAMPLE NUMBER	EHC-9811-102	EHC-9905-102	EHC-9911-113	EHC-0005-112	EHC-0011-112	EHC-0105-113
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	210	99 J	205	137	150	127
Calcium (Ca) (DIS)	38	9.9	74	8.9	103	77
Carbonate As CO3		<1 UJ	<1	<1	<1	
Chloride (Cl)	36	4.9	74	7	19	37
Magnesium (Mg) (DIS)	<5	<5	11	<5	15	12
Potassium (K) (DIS)	177	60	180	54	182	117
Sodium (Na) (DIS)	159	34	198	51	142	96
Sulfate (SO4)	362	82	593	106	635	377
Total Alkalinity As CaCO3	172	81 J	168	112	123	104

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)					<0.01	<0.05
Arsenic (As) (DIS)	2.5	0.8	1.3	2.2	0.5	0.4
Arsenic III (dis)	0.01	0.006 U	0.006	0.02 UJ	<0.02	0.2
Arsenic V (dis)	2.4 J	1.005	1.3	2.3	0.5	0.2
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001 J	<0.001	<0.001
Copper (Cu) (DIS)	0.006	0.004	0.006 J	<0.004	<0.004 J	<0.004
Iron (Fe) (DIS)	0.06	0.08 UJ	<0.02 J	0.2 U	0.2 U	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005 J	<0.005
Manganese (Mn) (DIS)	0.7	<0.02	0.2	<0.02	0.03	<0.02
Zinc (Zn) (DIS)	0.02	<0.02	<0.02 J	0.02 J	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.7	3.5	1.8	5.05	1.4	2.04
pH	7.5	7.6	7.8	7.6	7.7	7.6
Silicon+Silica (Si+SiO2)					19	18
Depth To Water Level (ft)	6.8	6.6	5.4	7.09	6.8	6.3
Eh (millivolts)	380	295	402	362	351	297
pH (Fld)	8.6	7.7	7.6	7.5	7.09	7.3
SC (umhos/cm at 25 C) (Fld)	1315	438	1813	526	2220	1056
SC (umhos/cm at 25 C)	1317	390	1894	509	1863	1088
Total Suspended Solids			8.5			<1
TDS (Measured at 180 C)	875	233	1616	339	1356	755
Water Temperature (C) (Fld)	11.3	5.4	11.2	7.9	10.3	7.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-10A	DH-10A	DH-10A	DH-10A	DH-10A	DH-10A
Water	SAMPLE DATE	11/13/2001	5/29/2002	11/16/2002	6/3/2003	10/27/2003	5/24/2004
	SAMPLE TIME	16:30	15:00	12:00	08:35	10:00	13:05
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI
	LAB NUMBER	L011563012	L020396004	L020951002	L030245018	L030601004	H04050162-004
	SAMPLE NUMBER	EHC-0111-111	EHC-0205-116	EHC-0211-113	AEH-0306-181	AEH-0310-384	AEH-0405-153
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	131	74	171	173	168	190
Calcium (Ca) (DIS)	12	18	49	150	283	49
Carbonate As CO3	<1	<1	<1	<2	<2	
Chloride (Cl)	11	4.1	23	73	92	31 J
Magnesium (Mg) (DIS)	<5	<5	7.4	25	41	6
Potassium (K) (DIS)	61	25	91	138	238	104
Sodium (Na) (DIS)	50	21	132	215	418	175
Sulfate (SO4)	89	58	366	881	1767	430
Total Alkalinity As CaCO3	107	61	140	142	138	160

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05	<0.05			
Arsenic (As) (DIS)	1.2	0.4	0.8	0.3	0.5	0.875
Arsenic III (dis)	0.5	0.1	0.4	0.2	0.6	<0.001
Arsenic V (dis)	0.7	0.3	0.4	0.2	<0.005	1.7
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.004	<0.004	0.007	0.007	0.008	<0.004
Iron (Fe) (DIS)	<0.02	0.02	<0.02	0.04	<0.02	0.07 J
Lead (Pb) (DIS)	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	0.06	<0.01
Zinc (Zn) (DIS)	<0.02	0.05	<0.02	<0.02	<0.05	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	41.8	-37.5				
Oxygen (O) (DIS) (Fld)	0.3	1.09	9.4	0.5	0.22	2.63
pH	7.6	6.5	7.3	7.4	7.7	7.6
Silicon+Silica (Si+SiO2)	19	17	18			
Depth To Water Level (ft)	7.3	7.4	7	5	6.38	5.75
Eh (millivolts)	277					
pH (Fld)	7.8	7.2	6.6	6.5	6.36	6.65
SC (umhos/cm at 25 C) (Fld)	926	325	1190	2300	3640	1520
SC (umhos/cm at 25 C)	525	295	1118	2150	3710	1260
Total Suspended Solids	1.7	4.2	3.7	2.8	8	<10 J
TDS (Measured at 180 C)	347	198	755	1605	3031	1000
Salinity (G/KG) (Fld)			1190	1	1.8	0.6
Turbidity (NTU) (Fld)			3	1	10	
Water Temperature (C) (Fld)	12.2	5.9	10.4	6.5	12.3	7.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-10A	DH-10A	DH-10A	DH-10A	DH-10A	DH-10A
Water	SAMPLE DATE	11/2/2004	5/12/2005	11/17/2005	5/8/2006	11/14/2006	5/14/2007
	SAMPLE TIME	10:00	10:05	12:50	11:00	15:40	10:45
	LAB	ELI	ELI-Casper	ELI-Hel	ELI-Hel	ELI	ELI
	LAB NUMBER	H04110029-004	C05050485-003	H05110153-012	H06050082-008	H06110122-007	H07050154-003
	SAMPLE NUMBER	AEH-0411-188	AEH-0505-129	AEH-0511-204	AEH-0605-177	AEH-0611-182	AEH-0705-146
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	200	183	210	160	240	72
Calcium (Ca) (DIS)	107	31	60	103	86	14
Chloride (Cl)	50	15	28	32	32	5
Magnesium (Mg) (DIS)	14	<5	8	14	11	2
Potassium (K) (DIS)	189	92	139	107	166	52
Sodium (Na) (DIS)	268	124	199	146	272	35
Sulfate (SO4)	1010	274	587	532	781	75
Total Alkalinity As CaCO3	170	150	170	130	200	59

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.914	0.853	1.069	0.347	0.767	0.42
Arsenic III (dis)	<0.0063	<0.005	<0.0003	<0.005	<0.03 J-	<0.005 J-
Arsenic V (dis)	0.92	0.8	1.1	0.5	1.1 J-	0.605 J+
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.007	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.92	<0.02	<0.02	<0.01	0.01	<0.01
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					66	
Oxygen (O) (DIS) (Fld)	0.07	0.82	3.94	1.15	0.11	1.72
pH	7.4	7.58	7.3	7.1	7.4	7.5
Depth To Water Level (ft)	5.27	6.29	9.08	6.35	6.73	7.3
pH (Fld)	7.11	7.31	6.97	6.58	7.06	6.89
SC (umhos/cm at 25 C) (Fld)	2445	1000	1745	1504	2208	419
SC (umhos/cm at 25 C)	2030	994	1710	1390	2080	416
Total Suspended Solids	<10 J	<10	<10 J	112	<10	<10
TDS (Measured at 180 C)	1690	651	1220	1020	1540	272
TDS - Calculated		647				
Water Temperature (C) (Fld)	10.5	5.8	12.77	5.94	10.58	5.31

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-10A	DH-10A	DH-10A	DH-10A	DH-10A
Water	SAMPLE DATE	11/27/2007	5/9/2008	11/6/2008	5/14/2009	5/14/2009
	SAMPLE TIME	15:10	09:10	14:49	10:30	10:30
	LAB	ELI	ELI	ELI	ELI	Hydrometrics
	LAB NUMBER	H07110199-004	H08050176-002	H08110092-004	H09050233-005	H09050233-005
	SAMPLE NUMBER	AEH-0711-167	AEH-0805-194	AEH-0811-193	AEH-0905-209	AEH-0905-209A
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	EPA Split				
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		130	240	170
Bicarbonate (HCO3) (dis)	240			
Calcium (Ca) (DIS)	43	26	38	39
Chloride (Cl)	18	6	14	9
Magnesium (Mg) (DIS)	6	4	5	6
Potassium (K) (DIS)	123	40	98	91
Sodium (Na) (DIS)	166	27	143	84
Sulfate (SO4)	386	74	430	270
Total Alkalinity As CaCO3	200	110	200	140

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005	<0.005	
Selenium-VI (DIS)	0.048	0.0412	0.083	
Aluminum (Al) (DIS)		<0.1	<0.1	<0.1
Antimony (Sb) (DIS)		0.014	0.044	0.018
Arsenic (As) (DIS)	0.696	0.254	0.865	0.398
Arsenic III (DIS)	0.0086	<0.005	<0.005	
Arsenic V (DIS)	0.755	0.32	0.946	
Barium (Ba) (DIS)		<0.1	<0.1	<0.1
Beryllium (Be) (DIS)		<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.001	<0.001	<0.001
Cobalt (Co) (DIS)		<0.01	<0.01	<0.0005
Copper (Cu) (DIS)	0.004 UJ	<0.004	<0.004	0.003
Gold (Au) (DIS)				<0.01
Iron (Fe) (DIS)	0.01	<0.02	0.04	0.03
Lead (Pb) (DIS)	<0.003	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)		<0.006	<0.006	<0.0001
Nickel (Ni) (DIS)		<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.055	0.049	0.086	0.051
Silver (Ag) (DIS)		<0.005	<0.005	<0.005 J
Tellurium (Te) (DIS)				<0.1
Thallium (Tl) (DIS)		<0.002	<0.002	<0.001
Vanadium (V) (DIS)		<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.02	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.68	3.51	0.64	2.14
pH	7.3	7	7.7	7.3
Depth To Water Level (ft)	7.02	7.95	7.01	7.02

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-10A	DH-10A	DH-10A	DH-10A	DH-10A
Water	SAMPLE DATE	11/27/2007	5/9/2008	11/6/2008	5/14/2009	5/14/2009
	SAMPLE TIME	15:10	09:10	14:49	10:30	10:30
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	ELI	Hydrometrics
	LAB NUMBER	H07110199-004	H08050176-002	H08110092-004	H09050233-005	H09050233-005
	SAMPLE NUMBER	AEH-0711-167	AEH-0805-194	AEH-0811-193	AEH-0905-209	AEH-0905-209A
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	EPA Split				
	REMARKS					

**Physical/Fld-Lab: ppm unless noted**

pH (Fld)	7.29	6.97	6.94		6.79
SC (umhos/cm at 25 C) (Fld)	1218	502	1328		929
SC (umhos/cm at 25 C)	1330	421	1330	910	
Total Suspended Solids	<10	10	<10	<10	
TDS (Measured at 180 C)	918	261	892	584	
Water Temperature (C) (Fld)	10.51	6.4	10.41		5.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-11	DH-11	DH-11	DH-11	DH-11	DH-11
Water	SAMPLE DATE	1/15/1985	1/15/1985	1/15/1985	1/21/1985	1/21/1985	4/8/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	CAL	CAL	TSC-SLC	CAL	TSC-SLC
	LAB NUMBER	85-699	S5707	S5760	85-700	S5761	85-2487
	SAMPLE NUMBER	AEH-8501-126	AEH-8501-126	AEH-8501-126	AEH-8501-137	AEH-8501-137	AEH-8504-337
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Split	Field Duplicate	Field Duplicate	Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	140					
Calcium (Ca) (DIS)	36	41.4	23.1		31.4	
Chloride (Cl)	<1		4.6			
Magnesium (Mg) (DIS)	9.3	24.4	5.5		73.8	
Potassium (K) (DIS)	3.1	1.1	2.7		2.2	
Sodium (Na) (DIS)	22	58.6	15.8		22	
Sulfate (SO4)	53.1		59			
Total Alkalinity As CaCO3	115		120			

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		88.2	<0.2		<0.2	
Antimony (Sb) (DIS)		<0.01	<0.01		<0.01	
Arsenic (As) (DIS)	<0.004	0.06	<0.004	0.01	<0.004	<0.004
Barium (Ba) (DIS)		0.7	0.02		0.02	
Beryllium (Be) (DIS)		0.005	<0.0006		<0.0006	
Cadmium (Cd) (DIS)	<0.001	<0.004	<0.004	<0.001	<0.004	0.006
Chromium (Cr) (DIS)		0.04	0.009		0.006	
Cobalt (Co) (DIS)		0.03	<0.007		<0.007	
Copper (Cu) (DIS)	<0.008	0.2	0.007	<0.008	0.008	
Iron (Fe) (DIS)	0.03	54.3	0.08	0.05	0.06	
Lead (Pb) (DIS)	<0.005	0.5	<0.003	<0.005	<0.003	<0.005
Manganese (Mn) (DIS)	0.5	3.03	0.3	0.4	0.4	
Mercury (Hg) (DIS)		0.0004	<0.0002		<0.0002	
Nickel (Ni) (DIS)		0.07	<0.03		<0.03	
Selenium (Se) (DIS)		<0.002	<0.002		<0.002	
Silver (Ag) (DIS)		0.007	<0.003		<0.003	
Thallium (Tl) (DIS)		<0.002	<0.002		<0.002	
Tin (Sn) (DIS)		<0.04	<0.04		<0.04	
Vanadium (V) (DIS)		0.08	0.006		0.004	
Zinc (Zn) (DIS)	0.02	0.4	0.02	0.02	0.1	0.04

**Physical/Fid-Lab: ppm unless noted**

pH	7.6		7.9		7.4
SC (umhos/cm at 25 C) (Fld)	341				347.9
SC (umhos/cm at 25 C)		370	220		346
Total Suspended Solids		3.3	2		
TDS (Measured at 180 C)		221	230		231

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-11	DH-11	DH-11	DH-11	DH-11	DH-11
Water	SAMPLE DATE	6/15/1985	6/15/1985	8/14/1985	8/14/1985	8/14/1985	8/14/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	JTC	TSC-SLC	JTC	TSC-SLC
	LAB NUMBER	85-4502	85-4496	73-2882	85-6286	73-2881	85-6301
	SAMPLE NUMBER	AEH-8506-519	AEH-8506-526	AEH-8508-708	AEH-8508-708	AEH-8508-727	AEH-8508-727
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate	Split		Field Duplicate	Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	132		144		136	
Calcium (Ca) (DIS)	38		46.3		47	
Chloride (Cl)	3		3.4		3.9	
Magnesium (Mg) (DIS)	10.4		11		11.1	
Potassium (K) (DIS)	2.4		2.9		2.9	
Sodium (Na) (DIS)	22		4.8		23	
Sulfate (SO4)	47.6		131		50.9	
Total Alkalinity As CaCO3	108		118		111.5	

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.2		<0.2	
Antimony (Sb) (DIS)			<0.05		<0.05	
Arsenic (As) (DIS)	<0.004	0.004	<0.006	<0.004	<0.006	<0.004
Barium (Ba) (DIS)			<0.05		<0.05	
Beryllium (Be) (DIS)			<0.004		<0.004	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.004	0.001	0.004	0.001
Chromium (Cr) (DIS)			<0.008		<0.008	
Cobalt (Co) (DIS)			<0.008		<0.008	
Copper (Cu) (DIS)	<0.008		<0.02		<0.02	
Iron (Fe) (DIS)	<0.02		<0.05		<0.05	
Lead (Pb) (DIS)	<0.005	0.009	<0.002	<0.005	<0.002	<0.005
Manganese (Mn) (DIS)	0.4		0.04		0.2	
Mercury (Hg) (DIS)			<0.0001		<0.0001	
Nickel (Ni) (DIS)			<0.02		<0.02	
Selenium (Se) (DIS)			0.006		0.006	
Silver (Ag) (DIS)			<0.006		<0.006	
Thallium (Tl) (DIS)			<0.002		<0.002	
Tin (Sn) (DIS)			<0.03		<0.03	
Vanadium (V) (DIS)			<0.03		<0.03	
Zinc (Zn) (DIS)	0.01	0.02	<0.01	0.01	<0.01	0.008

**Physical/Fid-Lab: ppm unless noted**

pH	7.7		7.3	7.5	7.3	7.7
SC (umhos/cm at 25 C) (Fld)	336.7			334.9		331.8
SC (umhos/cm at 25 C)	353		301	334	291	329
Total Suspended Solids	3.2		575		2	
TDS (Measured at 180 C)	611		125	214	264	231

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-11	DH-11	DH-11	DH-11	DH-11	DH-11
Water	SAMPLE DATE	11/19/1986	11/19/1986	5/21/1987	11/19/1987	4/25/1988	12/9/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	RMAL	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8611-31	86-7791	87-3822	87-10580	88-3125	89-23
	SAMPLE NUMBER	AEH-8611-31	AEH-8611-31	AEH-8705-23	AEH-8711-226	AEH-8804-310	AEH-8812-131
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		140	142	137	114	
Calcium (Ca) (DIS)	41.9		39	36.3 M	38	
Carbonate As CO3			<1	8.4	<1	
Chloride (Cl)			2	3	1.7 J	4.2
Magnesium (Mg) (DIS)	10.6		9	11.3	10	
Potassium (K) (DIS)	2.5		2.4	2.5	2.4	
Sodium (Na) (DIS)	15.6		15.3	14.9	15.3	
Sulfate (SO4)		54	48	16 M	47	50
Total Alkalinity As CaCO3				126		

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.01	<0.004	<0.006	0.006 M	<0.006	0.007
Arsenic III (dis)		<0.008	0.1 M	<0.008	<0.008	0.02 J
Arsenic V (dis)		0.03 M	0.02 M	0.009	0.02	0.02
Cadmium (Cd) (DIS)	<0.005	<0.001	0.001	0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004		<0.008	<0.008		<0.008
Iron (Fe +2) (TOT)		0.02		<0.01	0.05	<0.01
Iron (Fe) (DIS)	<0.03	0.03	0.03	0.03	0.04	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 UJ
Manganese (Mn) (DIS)	0.2		0.3	0.03		
Zinc (Zn) (DIS)	<0.002	<0.008 M	0.01	<0.008	0.03	<0.008

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		2.5	2.3	2.2	1.5	2.3
pH	7	7	7.8	8.4 M	8.01 J	7.8
Depth To Water Level (ft)		16	16.05	16.4	16.2	16.3
pH (Fld)		6.9	6.9	6.7 M	7.1	7.2
SC (umhos/cm at 25 C) (Fld)		334	332.3	359.6 M	339.9	344.5
SC (umhos/cm at 25 C)	330	330	345	382	350	350
Total Suspended Solids				4.8		
TDS (Measured at 180 C)		296	250	240 M	193 J	230
Water Temperature (C) (Fld)		9.6		10.3	9.1	11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-11	DH-11	DH-11	DH-11	DH-11	DH-11
Water	SAMPLE DATE	4/11/1989	10/17/1989	10/17/1989	4/27/1990	11/28/1990	5/3/1991
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-478	89-829	89-832	90-1036	90-2231	91-2669
	SAMPLE NUMBER	AEH-8904-210	AEH-8910-410	AEH-8910-428	AEH-9005-410	AEH-9011-717	AEH-9105-148
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	4.2	4		4	1.4 J	2.7
	Sulfate (SO4)	52	51		54.2	46 J	36
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.004	<0.008	0.008	0.01	0.01	0.007
	Arsenic III (dis)	<0.008	<0.008	<0.008	<0.008	0.02 U	0.007 UJ
	Arsenic V (dis)	0.02 J	0.02 J	0.01	0.01 U	0.003 U	0.02 UJ
	Cadmium (Cd) (DIS)	<0.002	0.001	<0.001	0.001	<0.001	<0.001
	Copper (Cu) (DIS)	<0.008	<0.008	<0.008	<0.008	<0.008	<0.004
	Iron (Fe +2) (TOT)	<0.01					
	Lead (Pb) (DIS)	<0.02	<0.005 UJ	<0.005 UJ	<0.005	<0.005	<0.005 J
	Zinc (Zn) (DIS)	<0.008	<0.008 J	<0.008 J	0.006 U		<0.008
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	3	2.1	2.1	2.8	2.4	3.2
	pH	7.3	7.7		7.8	8	8
	Depth To Water Level (ft)	16.2	16.5	16.5	15.7	16.7	16.4
	pH (Fld)	6.3	7.7	7.7	6.7	7.5	7.5
	SC (umhos/cm at 25 C) (Fld)	353	355.8		361.3	357.3	343
	SC (umhos/cm at 25 C)	320	345		348	336	340
	TDS (Measured at 180 C)	237 J	224 J		223	214 J	249
	Water Temperature (C) (Fld)	13	9.8	9.8	9.2	10	9.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-11	DH-11	DH-11	DH-11	DH-11	DH-11
Water	SAMPLE DATE	11/13/1991	4/15/1992	11/11/1992	11/11/1992	4/30/1993	11/5/1993
	SAMPLE TIME	09:45	16:40	09:50	14:10	13:30	09:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	91-3622	92-4292	92-6766	92-6770	93-7737	93-9193
	SAMPLE NUMBER	AEH-9111-345	AEH-9204-132	EHC-9211-102	EHC-9211-172	EHC-9305-125	EHC-9311-108
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		
<b>Common Ions (mg/L): ppm unless noted</b>							
	Calcium (Ca) (Dis)			46 J	46 J	44 J	
	Chloride (Cl)	3	3 J	2.3 J	3.3 J	2.9	2.8 J
	Magnesium (Mg) (Dis)			12	12	11 J	
	Potassium (K) (Dis)			<5	<5	<5	
	Sodium (Na) (Dis)			17	17	17 J	
	Sulfate (SO4)	52	48	46 J	47 J	36	48
	Total Hardness As CaCO3					155	
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.006	0.005	<0.004	<0.004	<0.004	<0.004
	Arsenic III (dis)	0.02 U	0.005	0.008 UJ	<0.004	<0.004	<0.004
	Arsenic V (dis)	0.03 U	<0.004	0.009 UJ	0.005 UJ	0.1 UJ	0.02 J
	Cadmium (Cd) (DIS)	<0.001	<0.001	0.001	0.001	0.001 UJ	<0.001
	Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.005	<0.004	<0.004
	Lead (Pb) (DIS)	<0.005 J	<0.005	<0.005	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	0.008	0.007	<0.006	<0.006	<0.006	<0.006
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	4	1.5	1.8	1.8	2	2.1
	pH	7.3	7.4	8.4	8.5		
	Depth To Water Level (ft)	15.9	16.2	16.01	16.01	15.5	15.7
	pH (Fld)	6.8	7.2	7.3	7.3	7.02	6.8
	SC (umhos/cm at 25 C) (Fld)	326	340	355	357	348	351
	SC (umhos/cm at 25 C)	321	340	305	305	290 J	360 J
	TDS (Measured at 180 C)	217 J	212 J	240	240	232	221
	Water Temperature (C) (Fld)	11.4	12.8	10.7	10.7	9.9	9.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-11	DH-11	DH-11	DH-11	DH-11	DH-11
Water	SAMPLE DATE	11/5/1993	5/4/1994	11/10/1994	11/10/1994	5/5/1995	11/6/1995
	SAMPLE TIME	11:35	15:00	08:00	08:30	11:40	16:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-9202	94-1096	94-3276	94-3268	95-4450	95-6087
	SAMPLE NUMBER	EHC-9311-165	EHC-9405-114	EHC-9411-167	EHC-9411-114	EHC-9505-114	EHC-9511-115
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	2.5 J	4.6	12	12	13	29
Sulfate (SO4)	57	46	52 J	53	49	79

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic III (dis)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic V (dis)	0.006 J	<0.004	0.007 U	<0.004	<0.004	0.004 J
Cadmium (Cd) (DIS)	0.001	0.001	<0.001	0.001	<0.001	0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	0.005	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005 UJ	<0.005 JU	<0.005 J	<0.005
Zinc (Zn) (DIS)	<0.006	0.01	0.009 U	0.007 U	<0.006	<0.006

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.1	1.9	3.03	3.03	3.2	1.4
pH					7.1	7.4
Depth To Water Level (ft)	15.7	15.1	18.2	18.2	15.7	15.8
pH (Fld)	6.8	7.3	7.7	7.7	7.4	6.9
SC (umhos/cm at 25 C) (Fld)	347	351	381	382	390	475
SC (umhos/cm at 25 C)	358 J	340	382 J	384	386	473 J
TDS (Measured at 180 C)	225	242	234 J	240	237	256
Water Temperature (C) (Fld)	9.1	10.9	10.9	10.9	9.6	10.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-11	DH-11	DH-11	DH-11	DH-11	DH-11
Water	SAMPLE DATE	5/9/1996	11/6/1996	5/2/1997	11/4/1997	11/4/1997	5/4/1998
	SAMPLE TIME	09:45	12:10	12:00	09:30	09:45	12:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-6771	96-7734	97-900	187-2673	187-2680	260-3750
	SAMPLE NUMBER	EHC-9605-103	EHC-9611-103	EHC-9705-103	EHC-9711-103	EHC-9711-148	EHC-9805-104
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)							160
Calcium (Ca) (DIS)							137
Chloride (Cl)	34	75	98	106	113		91
Magnesium (Mg) (DIS)							32
Potassium (K) (DIS)							<5 J
Sodium (Na) (DIS)							34
Sulfate (SO4)	84	189 J	214	299	333		294
Total Alkalinity As CaCO3							131

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	<0.004	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.005 UJ	<0.004	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	0.005 J	<0.004	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)							<0.05
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)							0.4
Zinc (Zn) (DIS)	<0.02	<0.008	<0.02	<0.02	<0.02	<0.02	0.02 J

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.6	3.4	2.8	2.5	2.6		2
pH	7.1	8.4	6	7.2	7.2		7
Depth To Water Level (ft)	15.8	15.9	15.7	15.5	15.5		14.9
pH (Fld)	5.9	7.2	7.5	6.4	6.7		6.6
SC (umhos/cm at 25 C) (Fld)	536	878	860	1161	1148		943
SC (umhos/cm at 25 C)	500	812	928	1072	1080		1056
Total Suspended Solids				2	2		
TDS (Measured at 180 C)	326	574	631	812	768		775
Water Temperature (C) (Fld)	7.6	9.8	8.7	10.7	10.7		7.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-11	DH-11	DH-11	DH-11	DH-11	DH-11
Water	SAMPLE DATE	11/17/1998	5/7/1999	5/7/1999	11/9/1999	5/8/2000	11/10/2000
	SAMPLE TIME	09:20	11:45	12:00	14:45	11:25	09:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	310-4397	346-4869	346-4878	L992007003	L000705014	L001897013
	SAMPLE NUMBER	EHC-9811-103	EHC-9905-103	EHC-9905-144	EHC-9911-114	EHC-0005-113	EHC-0011-113
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	178	139 J	156 J	134	132	124
Calcium (Ca) (DIS)	93	65	65	77	93	136
Carbonate As CO3		<1 UJ	<1 UJ	<1	<1	<1
Chloride (Cl)	44	22	20	30	34	53
Magnesium (Mg) (DIS)	23	17	18	18	22	33
Potassium (K) (DIS)	<5	5	<5	<5	<5	<5
Sodium (Na) (DIS)	50	35	37	36	37	59
Sulfate (SO4)	258	171	172	203	291	452
Total Alkalinity As CACO3	146	114 J	128 J	110	108	102

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)						<0.01
Arsenic (As) (DIS)	0.005	<0.005	<0.005	<0.005	<0.005 J	<0.005
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	0.02 UJ	<0.02
Arsenic V (dis)	<0.005	<0.005	<0.005	<0.005	0.01 U	<0.02
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	0.004	<0.001 J	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004 J	<0.004	<0.004
Iron (Fe) (DIS)	0.03	0.06 UJ	0.2 UJ	<0.02	<0.02	0.4 U
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	0.1	0.1	0.2	0.2	0.4
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02 J	<0.02 J	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.03	1.7	1.6	1.8	4.08	1
pH	7.2	7.5	7.7	7.5	7.4	7.8
Silicon+Silica (Si+SiO2)						21
Depth To Water Level (ft)	15.4	15		13	14.5	13.8
Eh (millivolts)	451	407	404	464	408	495
pH (Fld)	7.4	7.6	7.6	7.7	7.03	7.05
SC (umhos/cm at 25 C) (Fld)	879	585	583	693	790	1458
SC (umhos/cm at 25 C)	864	605	604	710	814	1181
Total Suspended Solids	<1			<1		
TDS (Measured at 180 C)	615	342	409	952 R	567	805
Water Temperature (C) (Fld)	10.1	10.8	10.8	12.1	9.4	11.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-11	DH-11	DH-11	DH-11	DH-11	DH-11
Water	SAMPLE DATE	5/7/2001	5/7/2001	11/13/2001	5/31/2002	11/14/2002	5/31/2003
	SAMPLE TIME	12:30	12:45	16:10	12:45	09:30	08:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010655034	L010655033	L011563013	L020412009	L020949004	L030243002
	SAMPLE NUMBER	EHC-0105-114	EHC-0105-216	EHC-0111-112	EHC-0205-117	EHC-0211-114	AEH-0306-121
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	156	154	122	145	142	146
Calcium (Ca) (DIS)	119	117	162	167	163	138
Carbonate As CO3			<1	<1	<1	<2
Chloride (Cl)	62	58	70	71	65	50
Magnesium (Mg) (DIS)	28	28	38	39	37	32
Potassium (K) (DIS)	<5	<5	5.3	<5	6.1	5
Sodium (Na) (DIS)	61	60	73	77	81	81
Sulfate (SO4)	451	397	481	629	511	404
Total Alkalinity As CaCO3	128	126	100	119	116	120

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05	<0.05	<0.05	<0.05	
Arsenic (As) (DIS)	<0.005 J	0.02 J	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.3	0.2	0.3	0.3	0.3	0.2
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			39.6	0.0		
Oxygen (O) (DIS) (Fld)	0.6	0.6	0.1	0.1	1.8	0.4
pH	7.5	7.3	7.9	7.3	7	7.4
Silicon+Silica (Si+SiO2)	20	19	22	20	20	
Depth To Water Level (ft)	14.5		15	14.1	14.9	13.1
Eh (millivolts)	309	311	274			
pH (Fld)	7.2	7.2	7.3	6.9	6.3	6.1
SC (umhos/cm at 25 C) (Fld)	970	964	1183	1390	1210	994
SC (umhos/cm at 25 C)	1054	1050	1308	1362	1268	1218
Total Suspended Solids	1.3	<1	<1	2.4 J	1.5	3.5
TDS (Measured at 180 C)	778	773	994	1059	943	901
Salinity (G/KG) (Fld)					0.5	0.4
Turbidity (NTU) (Fld)					1	1
Water Temperature (C) (Fld)	10.7	10.7	11.5	9.1	10.9	8.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-11	DH-11	DH-11	DH-11	DH-11	DH-11
Water	SAMPLE DATE	10/25/2003	5/24/2004	10/29/2004	5/17/2005	11/9/2005	5/4/2006
	SAMPLE TIME	09:15	11:20	13:30	11:15	14:00	10:15
	LAB	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel
	LAB NUMBER	L030598016	H04050162-002	H04110009-013	C05050640-015	H05110081-012	H06050056-003
	SAMPLE NUMBER	AEH-0310-334	AEH-0405-151	AEH-0411-170	AEH-0505-172	AEH-0511-136	AEH-0605-140
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION				5/9/05 DTWL		
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	139	130	150	121	130	160
Calcium (Ca) (DIS)	105	45	43	37	65	66
Carbonate As CO3	<2					
Chloride (Cl)	37	13 J	20	7	16	17
Magnesium (Mg) (DIS)	24	10	10	9	15	15
Potassium (K) (DIS)	<5	3	3	<5	4	3
Sodium (Na) (DIS)	81	48	50	41	54	50
Sulfate (SO4)	314	130	103	91	175	174
Total Alkalinity As CaCO3	114	110	120	99	100	130

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.002	<0.002	0.004
Arsenic III (dis)	<0.005	<0.001	<0.001 J	<0.005	<0.005	<0.005
Arsenic V (dis)	<0.005	0.0039	0.0016 J	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.03	<0.02 J	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.2	0.14	0.11	0.11	0.18	0.14
Zinc (Zn) (DIS)	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.04	3.1	0.09	0.97	0.28	1.44
pH	8	7.5	7.3	7.81	7.3	7.2
Depth To Water Level (ft)	13.57	13.39	13.2	13.72	14.5	13.97
pH (Fld)	6.94	6.39	7.13	6.81	6.82	6.61
SC (umhos/cm at 25 C) (Fld)	970		512	443	586	605
SC (umhos/cm at 25 C)	1000	453	429	414	578	677
Total Suspended Solids	4.1	<10 J	<10	<10 J	<10	<10
TDS (Measured at 180 C)	687	336	323	288 UJ	385	426
TDS - Calculated				267		
Salinity (G/KG) (Fld)	0.4	0.2				
Turbidity (NTU) (Fld)	1	0.0				
Water Temperature (C) (Fld)	10.9	7.2	11.2	6.86	10.05	9.27

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-11	DH-11	DH-11	DH-11	DH-11	DH-11
Water	SAMPLE DATE	11/8/2006	3/29/2007	5/10/2007	7/27/2007	9/4/2007	11/15/2007
	SAMPLE TIME	12:25	09:50	14:30	15:00	11:25	09:49
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110071-001	H07030242-002	H07050134-006	H07070291-011	H07090010-001	H07110130-001
	SAMPLE NUMBER	AEH-0611-123	AEH-0703-126	AEH-0705-131	AEH-0707-146	AEH-0709-100	AEH-0711-127
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						EPA Split
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	150	170	170	170	160	
Bicarbonate (HCO3) (dis)						160
Calcium (Ca) (DIS)	60	72	67	53	56	54
Chloride (Cl)	19	17	18	15	14	19
Magnesium (Mg) (DIS)	13	16	15	12	13	12
Potassium (K) (DIS)	4	4	4	3	4	3
Sodium (Na) (DIS)	61	62	63	57	62	62
Sulfate (SO4)	193	158	179	135	138	145
Total Alkalinity As CaCO3	130	140	140	140	130	130

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)						<0.005
Selenium-VI (DIS)						<0.005
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	0.002 UJ	0.003
Arsenic III (DIS)	<0.005	<0.005	<0.005			<0.001
Arsenic V (DIS)	<0.005	<0.005	<0.005			<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	0.004	0.001 UJ
Iron (Fe) (DIS)	<0.02	0.03	<0.02	0.03	0.03	0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.003
Manganese (Mn) (DIS)	0.16	0.25	0.19	0.17	0.18	0.18
Selenium (Se) (DIS)		<0.005	<0.005	<0.005	<0.005	0.006
Zinc (Zn) (DIS)	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	55.8	78.3			19.2	
Oxygen (O) (DIS) (Fid)	1.17	0.73	0.09	0.06	0.16	0.39
pH	7.4	7.5	7.6	7.5	7.5	7.6
Depth To Water Level (ft)	14.13	14.39	14.13	14.34	14.62	14.57
pH (Fid)	6.9	6.77	7.01	7.09	6.85	7.1
SC (umhos/cm at 25 C) (Fid)	689	675	683	616	607	636
SC (umhos/cm at 25 C)	664	666	663	604	601	622
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	457	449	457	397	396	403
Water Temperature (C) (Fid)	11.25	9.46	9.53	10.12	10.64	11.16

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-11	DH-11	DH-11	DH-11	DH-11	DH-11
Water	SAMPLE DATE	1/25/2008	4/30/2008	7/15/2008	10/28/2008	2/3/2009	5/6/2009
	SAMPLE TIME	14:00	15:50	13:15	14:55	11:40	12:30
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08010206-006	H08040470-011	H08070318-014	H08100377-009	H09020024-020	H09050142-010
	SAMPLE NUMBER	AEH-0801-105	AEH-0805-119	AEH-0807-126	AEH-0811-116	AEH-0902-119	AEH-0905-132
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	170	170	170	170	170	160
Calcium (Ca) (DIS)	53	64	49	52	49	53
Chloride (Cl)	16	15	12	14	13	12
Magnesium (Mg) (DIS)	12	14	11	12	11	12
Potassium (K) (DIS)	3	3	3	4	3	4
Sodium (Na) (DIS)	59	58	53	56	56	54
Sulfate (SO4)	155	160	140	150	150	150
Total Alkalinity As CaCO3	140	140	140	140	140	130

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005		<0.005		
Selenium-VI (DIS)		<0.005		<0.005		
Aluminum (Al) (DIS)		<0.1		<0.1		<0.1
Antimony (Sb) (DIS)		<0.005		<0.005		<0.003
Arsenic (As) (DIS)	0.002	<0.002	<0.002	<0.002	0.002	<0.005
Arsenic III (DIS)		<0.005		<0.005		
Arsenic V (DIS)		<0.005		<0.005 J-		
Barium (Ba) (DIS)		<0.1		<0.1		<0.1
Beryllium (Be) (DIS)		<0.001		<0.001		<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.001		<0.001		<0.001
Cobalt (Co) (DIS)		<0.01		<0.01		<0.0005
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.001
Gold (Au) (DIS)						<0.01 UJ
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.17	0.18	0.15	0.16	0.15	0.18
Mercury (Hg) (DIS)		<0.006		<0.006		<0.0001
Nickel (Ni) (DIS)		<0.01		<0.01		<0.01
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	0.006	0.004
Silver (Ag) (DIS)		<0.005		<0.005		<0.005
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)		<0.002		<0.002		<0.001
Vanadium (V) (DIS)		<0.01		<0.01		<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.25	0.59	0.19	0.24	0.57	0.21
pH	7.2	7.7	7.2	7.4	7.3	7.9
Depth To Water Level (ft)	14.59	14.5	13.97	14.38	14.43	13.46
pH (Fld)	7.05	6.87	6.9	7.31	6.8	6.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-11	DH-11	DH-11	DH-11	DH-11	DH-11
Water	SAMPLE DATE	1/25/2008	4/30/2008	7/15/2008	10/28/2008	2/3/2009	5/6/2009
	SAMPLE TIME	14:00	15:50	13:15	14:55	11:40	12:30
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H08010206-006	H08040470-011	H08070318-014	H08100377-009	H09020024-020	H09050142-010
	SAMPLE NUMBER	AEH-0801-105	AEH-0805-119	AEH-0807-126	AEH-0811-116	AEH-0902-119	AEH-0905-132
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	640	701	615	587	611	609
SC (umhos/cm at 25 C)	627	625	566	575	636	614
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	398	430	412	385	382	396
Water Temperature (C) (Fid)	10.7	9.5	9.64	11	10.6	9.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-14	DH-14	DH-14	DH-14	DH-14	DH-14
Water	SAMPLE DATE	11/4/1986	11/4/1986	11/4/1986	11/4/1986	1/26/1987	1/26/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	RMAL	TSC-SLC	RMAL	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8611-2	86-7323	8611-3	86-7325	87-646	87-647
	SAMPLE NUMBER	AEH-8611-2	AEH-8611-2	AEH-8611-3	AEH-8611-3	AEH-8701-102	AEH-8701-126
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split		Field Duplicate	Field Duplicate		Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	201	268 M			244	
Calcium (Ca) (DIS)	57.3	57	56.9		72 M	
Carbonate As CO3	<5	<1			<1	
Chloride (Cl)	14	13 M			8	
Magnesium (Mg) (DIS)	13.9	13	13.8		18 M	
Potassium (K) (DIS)	4.09	4.8	4.1		4.3	
Sodium (Na) (DIS)	23.2	23 M	22.6		19	
Sulfate (SO4)	86	14			7	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.04	0.03	0.04	0.03	0.01	0.01
Arsenic III (dis)		0.04 M			0.03 M	0.02
Arsenic V (dis)		0.02 M			<0.008	0.01
Cadmium (Cd) (DIS)	<0.005	<0.001	<0.005	<0.001	0.004 M	0.003
Copper (Cu) (DIS)	<0.004	<0.008	<0.004	<0.008	<0.008	<0.008
Iron (Fe +2) (TOT)		4.6 M			0.4	0.4
Iron (Fe) (DIS)	4.4	3.9	3.8	4.1 M	0.3	0.4
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005 M	0.01 M
Manganese (Mn) (DIS)	2.2	2	1.9	2.1 M	0.4	0.5
Zinc (Zn) (DIS)	0.2	0.1	0.09	0.1	0.01 M	0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)		1.3		1.3		
pH	6.9	6.9			7	
Depth To Water Level (ft)		9.7		9.7	10.01	10.01
pH (Fid)		6.8		6.8	6.2	6.2
SC (umhos/cm at 25 C) (Fid)		460 M			419.4	415.9
SC (umhos/cm at 25 C)	428	428			400 M	
TDS (Measured at 180 C)	250	462 M			276 M	
Water Temperature (C) (Fid)		11.5		11.5	8.5	8.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-14	DH-14	DH-14	DH-14	DH-14	DH-14
Water	SAMPLE DATE	4/2/1987	4/2/1987	6/5/1987	6/5/1987	8/11/1987	8/11/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	WYRHR	TSC-SLC
	LAB NUMBER	87-2234	88-2237	87-4020	87-4021	8708-03	87-6641
	SAMPLE NUMBER	AEH-8704-3	AEH-8704-4	AEH-8706-14	AEH-8706-37	AEH-8708-03	AEH-8708-03
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate	Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)			248		200	242
Calcium (Ca) (DIS)			50		52.2	44
Carbonate As CO3			<1		<5	<1
Chloride (Cl)			0.007 M		7.5	7
Magnesium (Mg) (DIS)			11		12.1	12.3
Potassium (K) (DIS)			4.3		3.8	4
Sodium (Na) (DIS)			18		17.1	16.7
Sulfate (SO4)	17		4 M		16	10

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.05	0.05	0.006 M	0.01 M	0.005	0.006 M
Arsenic III (dis)			0.02	0.01		<0.008 M
Arsenic V (dis)			0.04	0.03		0.03 M
Cadmium (Cd) (DIS)			<0.001 M	0.002	0.0003	<0.001
Copper (Cu) (DIS)			<0.008	<0.008	<0.002	<0.008
Iron (Fe +2) (TOT)			0.3	0.2		0.3
Iron (Fe) (DIS)			0.2 M	0.3 M	0.3	0.3
Lead (Pb) (DIS)			<0.005	<0.005	<0.002	0.006
Manganese (Mn) (DIS)			0.3	0.3	0.3	0.3
Zinc (Zn) (DIS)			0.02	0.02 M	0.007	0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)			2.2 M	2.2		1.4
pH	7.5		7.9			7.3
Depth To Water Level (ft)			9.5	9.5		9.5
pH (Fid)			6.5	6.6		6.3
SC (umhos/cm at 25 C) (Fid)			417.9	419.6		416.1
SC (umhos/cm at 25 C)	440		418			420
TDS (Measured at 180 C)	272		272		50	253
Water Temperature (C) (Fid)			11.4	11.4		12.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-14	DH-14	DH-14	DH-14	DH-14	DH-14
Water	SAMPLE DATE	8/11/1987	8/11/1987	11/19/1987	4/29/1988	4/29/1988	3/28/1994
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	13:15
	LAB	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8708-46	87-6652	87-10574	88-3126	88-3131	94-502003
	SAMPLE NUMBER	AEH-8708-46	AEH-8708-46	AEH-8711-229	AEH-8804-313	AEH-8804-332	AHCL-9403-111
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split	Field Duplicate			Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)			256	198		
Calcium (Ca) (DIS)	52.2		60	65		
Carbonate As CO3			<1	<1		
Chloride (Cl)			8.3	7.9 J		
Magnesium (Mg) (DIS)	12.1		12.6	13		
Potassium (K) (DIS)	3.9		5	4.5		
Sodium (Na) (DIS)	16.9		16.2	17.3		
Sulfate (SO4)			7 M	7.9		

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.004	0.02 M	<0.006	0.01	0.01	<0.005
Arsenic III (dis)		0.02 M	<0.008	0.01	0.7	
Arsenic V (dis)		0.02 M	0.03	0.04	0.6	
Cadmium (Cd) (DIS)	0.0005	<0.001	0.001	<0.001	<0.001	0.001
Copper (Cu) (DIS)	<0.002	<0.008	<0.008			<0.004
Iron (Fe +2) (TOT)		0.3	0.6	0.8	0.8	
Iron (Fe) (DIS)	0.2	0.3	0.5	0.5	0.6	
Lead (Pb) (DIS)	<0.002	0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.3	0.3	0.4			
Zinc (Zn) (DIS)	0.01	0.01	<0.008	0.03 J	0.02 J	0.03

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		1.4	1.2	1.4	1.4	1.6
pH			7.9	8.1		
Depth To Water Level (ft)		9.5	9.8 M	9.5	9.5	9.2
pH (Fld)		6.3	6 M	6.5	6.5	6.8
SC (umhos/cm at 25 C) (Fld)		417.1	420.9	431.6	423.4	409
SC (umhos/cm at 25 C)			426	430		
Total Suspended Solids			30.4			
TDS (Measured at 180 C)			252 M	222		267
Water Temperature (C) (Fld)		12.7	10.1	11.5	11.5	10.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-14	DH-14	DH-14	DH-14	DH-14	DH-14
Water	SAMPLE DATE	4/11/1994	5/6/1994	5/17/1994	5/19/1994	5/24/1994	5/26/1994
	SAMPLE TIME	11:45	09:30	08:00	09:00	09:00	09:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-591002	94-747003	94-798003	94-816003	94-831003	94-851003
	SAMPLE NUMBER	AHCL-9404-151	AHCL-9405-202	AHCL-9405-217	AHCL-9405-231	AHCL-9405-242	AHCL-9405-257
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	<0.005	0.005 U	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	0.002 U	<0.001	0.003 U	0.001	0.001	0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.02 U
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	0.02 U	0.009	0.02 U	0.02	0.01	0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.6	1.5	1	1.6	2.1	1.2
Depth To Water Level (ft)	9.02	8.8	9	8.8	8.9	9.04
pH (Fld)	6.8	6.8	6.8	6.5	7	7.3
SC (umhos/cm at 25 C) (Fld)	411	393	430	435	388	420
TDS (Measured at 180 C)	274	256	278	269	273	293
Water Temperature (C) (Fld)	11.8	10.5	9.9	9.9	10.7	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-14	DH-14	DH-14	DH-14	DH-14	DH-14
Water	SAMPLE DATE	5/31/1994	6/2/1994	6/6/1994	6/13/1994	7/12/1994	8/19/1994
	SAMPLE TIME	09:15	09:00	09:00	09:00	09:15	09:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-873003	94-893003	94-917003	94-959003	94-1209003	94-1504028
	SAMPLE NUMBER	AHCL-9405-102	AHCL-9406-102	AHCL-9406-202	AHCL-9406-302	AHCL-9407-102	AHCL-9408-312
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	0.007 U
Cadmium (Cd) (DIS)	0.001 U	0.001	0.001	0.001	0.001 U	0.002 U
Copper (Cu) (DIS)	0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	0.01 U	0.02	0.02 U	0.009	0.01 U	0.01 U

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.2	1.9	1.8	2	1.6	2.8
Depth To Water Level (ft)	9.05	9	9	9.1	9.3	9.5
pH (Fld)	7.1	6.8	7.3	7.2	7	6.7
SC (umhos/cm at 25 C) (Fld)	401	412	421	422	431	507
TDS (Measured at 180 C)	264	265	279	275	276	158 J
Water Temperature (C) (Fld)	10.6	10.5	10.9	11.1	11.1	12

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-14	DH-14	DH-14	DH-14	DH-14	DH-14
Water	SAMPLE DATE	9/26/1994	10/20/1994	4/1/1995	4/25/1995	5/22/1995	6/20/1995
	SAMPLE TIME	09:30	10:30	15:00	11:50	14:20	15:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1778015	94-1932001	95-651002	95-826016	95-1057007	95-1280021
	SAMPLE NUMBER	AHCL-9409-412	AHCL-9410-312	AHCL-9503-111	AHCL-9504-118	AHCL-9505-113	AHCL-9506-111
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)	58	50.2	54.7	58
Magnesium (Mg) (DIS)	13	11.7	12.6	11
Potassium (K) (DIS)	5.6	3.8	4.5	4.5
Sodium (Na) (DIS)	18	16.6	17	14
Sulfate (SO4)	4.4	4.2	2.5	3.1

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.005 U	0.008 U	<0.005	<0.005	<0.005	<0.005 UJ
Arsenic (As) (TOT)					<0.005	
Arsenic III (dis)			<0.004	<0.004	<0.004	<0.004
Arsenic V (dis)			<0.004	<0.004	<0.004	<0.004
Cadmium (Cd) (DIS)	0.003	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)					<0.001	
Copper (Cu) (DIS)	<0.004	0.007	<0.004	<0.004	<0.004	0.006
Copper (Cu) (TOT)					0.009	
Iron (Fe) (DIS)					0.07	
Iron (Fe) (TOT)			0.03	0.03	2.6 J	2.6
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)					0.007	
Zinc (Zn) (DIS)	0.03 U	0.06	<0.008	0.02	<0.006	<0.02
Zinc (Zn) (TOT)					0.02	

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2	2	2.5	4.9	1.6	1
Depth To Water Level (ft)	9.5	9.3	9.4	9.2	8.2	8.1
Eh (millivolts)	149	229	69	4	327	64
pH (Fld)	7.01	6.9	6.7	7.6	6.5	7.08
SC (umhos/cm at 25 C) (Fld)	426	415	451	467	458	455
Total Suspended Solids			<1 J		177 J	260
TDS (Measured at 180 C)	242	260 J	298	269	274	277
Water Temperature (C) (Fld)	11.2	10.1	12.5	9.2	12.7	11.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-14	DH-14	DH-14	DH-14	DH-14	DH-14
Water	SAMPLE DATE	7/18/1995	8/16/1995	9/15/1995	10/23/1995	11/8/1995	11/15/1995
	SAMPLE TIME	07:10	07:40	10:45	11:30	10:00	12:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-1523012	95-1778012	95-2070025	95-2401009	95-2532010	95-2578007
	SAMPLE NUMBER	AHCL-9507-111	AHCL-9508-111	AHCL-9509-111	AHCL-9510-111	AHCL-9511-112	EPPC-9511-107
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)							56
Magnesium (Mg) (DIS)							13
Sulfate (SO4)							9.5
Total Hardness As CaCO3							191

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)							0.4
Antimony (Sb) (TRC)							<0.1
Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic (As) (TOT)							<0.005
Beryllium (Be) (TRC)							<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)							<0.001
Copper (Cu) (DIS)	<0.008	<0.004	0.004	<0.004	<0.008	<0.008	<0.008
Copper (Cu) (TOT)							<0.008
Iron (Fe) (TRC)							0.4
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)							<0.005
Manganese (Mn) (TRC)							0.3
Mercury (Hg) (TOT)							<0.0002
Selenium (Se) (TRC)							<0.002
Silver (Ag) (TRC)							<0.002
Thallium (Tl) (TRC)							<0.003
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (TOT)							<0.02

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N)							<0.1
Nitrate + Nitrite as N							<0.05

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.6	1.07	1.9	1.2	0.7		
Depth To Water Level (ft)	8.8	9	8.9	9	9		9
Eh (millivolts)	226	114	-141	251	129		
pH (Fld)	6.6	7.6	6.7	6.4	6.3		7.3
SC (umhos/cm at 25 C) (Fld)	448	449	427	381	398		
TDS (Measured at 180 C)	268	258	240	256	262		
Water Temperature (C) (Fld)	11.4	11.5	12.7	10.6	9.8		10.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-14	DH-14	DH-14	DH-14	DH-14	DH-14	
Water	SAMPLE DATE	11/15/1995	12/12/1995	1/18/1996	2/15/1996	3/18/1996	4/17/1996	
	SAMPLE TIME	12:15	12:00	13:15	10:40	15:00	12:45	
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	
	LAB NUMBER	95-2578008	95-2775004	96-152004	96-322004	96-548004	96-751003	
	SAMPLE NUMBER	EPPC-9511-108	EPPC-9512-103	EPPC-9601-103	EPPC-9602-103	EPPC-9603-103	EPPC-9604-103	
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
	GROUP	RI	RI	RI	RI	RI	RI	
	DESCRIPTION							
	REMARKS	Field Duplicate						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)	55					
Magnesium (Mg) (DIS)	13					
Sulfate (SO4)	7.7	10	<2	5.3	4.9	4.4
Total Hardness As CaCO3	190					

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)	0.4	<0.1	0.3	0.2	<0.1	0.2
Antimony (Sb) (TRC)	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic (As) (TOT)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Beryllium (Be) (TRC)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Copper (Cu) (TOT)	<0.008	<0.008	0.01	<0.008	<0.008	<0.008
Iron (Fe) (TRC)	0.3	0.2	0.2	0.1	<0.1	0.2
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (TRC)	0.3	0.2	0.2	0.3	0.2	0.3
Mercury (Hg) (TOT)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Selenium (Se) (TRC)	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001
Silver (Ag) (TRC)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium (Tl) (TRC)	<0.003	<0.003	<0.001	<0.003	<0.001	<0.003
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (TOT)	0.02	<0.02	0.02	<0.02	<0.02	<0.02

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N)	0.1	<0.05	0.1	0.08	<0.05	<0.1
Nitrate + Nitrite as N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

**Physical/Fid-Lab: ppm unless noted**

Depth To Water Level (ft)	9	9.1	9.3	8.9	9.04	8.9
pH (Fld)	7	7.2	7.02	6.3	7	6.9
Water Temperature (C) (Fld)	10.8	10	9.2	10.7	11.4	10.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-14	DH-14	DH-14	DH-14	DH-14	DH-14
Water	SAMPLE DATE	5/8/1996	5/15/1996	6/12/1996	6/25/1996	7/16/1996	7/16/1996
	SAMPLE TIME	14:00	18:30	12:45	09:00	13:00	13:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-911006	96-957004	96-1136004	96-1243015	96-1375004	96-1375008
	SAMPLE NUMBER	EHC-9605-300	EPPC-9605-103	EPPC-9606-103	EHC-9606-111	EPPC-9607-103	EPPC-9607-108
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
	<b>Common Ions (mg/L): ppm unless noted</b>						
	Sulfate (SO4)		7.9	3.7		5.1	5.2
<b>Metals (mg/L): ppm unless noted</b>							
	Aluminum (Al) (TRC)		0.3	0.3		0.6	0.4
	Antimony (Sb) (TRC)		<0.05	<0.05		<0.001	<0.001
	Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Arsenic (As) (TOT)		0.008	<0.005		<0.005	<0.005
	Beryllium (Be) (TRC)		<0.001	<0.001		<0.001	<0.001
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001
	Cadmium (Cd) (TOT)		<0.001	<0.001		<0.001	<0.001
	Copper (Cu) (DIS)	<0.004	<0.008	<0.008	<0.008	<0.008	<0.008
	Copper (Cu) (TOT)		<0.008	<0.008		<0.008	<0.008
	Iron (Fe) (TRC)		0.2	0.2		0.3	0.3
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Lead (Pb) (TOT)		<0.005	<0.005		<0.005	<0.005
	Manganese (Mn) (TRC)		0.3	0.2		0.3	0.3
	Mercury (Hg) (TOT)		<0.0002	<0.0002		<0.0002	<0.0002
	Selenium (Se) (TRC)		<0.001	0.001		<0.001	<0.001
	Silver (Ag) (TRC)		<0.002	<0.002		<0.002	<0.002
	Thallium (Tl) (TRC)		<0.003	<0.003		<0.003	<0.003
	Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	Zinc (Zn) (TOT)		<0.02	<0.02		<0.02	<0.02
<b>Nutrients: ppm unless noted</b>							
	Total Ammonia (NH3+NH4 as N)		<0.05	0.06		0.08	0.06
	Nitrate + Nitrite as N		<0.05	0.05		<0.05	<0.05
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fid)	0.9			3.6		
	Depth To Water Level (ft)	9	8.7	8.5	8.6	9.8	9.8
	Eh (millivolts)	119			484		
	pH (Fid)	6.9	7.09	7	6.8	6.8	6.7
	SC (umhos/cm at 25 C) (Fid)	427			421		
	TDS (Measured at 180 C)	274			279		
	Water Temperature (C) (Fid)	10.7	11.1	11.3	12.2	12.4	11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-14	DH-14	DH-14	DH-14	DH-14	DH-14
Water	SAMPLE DATE	8/15/1996	8/15/1996	9/12/1996	9/19/1996	11/5/1996	5/6/1997
	SAMPLE TIME	13:30	13:45	16:20	17:00	16:30	15:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-1623004	96-1623008	96-1853004	96-1924025	96-2338001	97-965
	SAMPLE NUMBER	EPPC-9608-103	EPPC-9608-107	EPPC-9609-103	EHC-9609-111	EHC-9611-300	EHC-9705-300
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Sulfate (SO4)	<2	5	4.5			
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**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)	<0.1	<0.1	<0.1			
Antimony (Sb) (TRC)	<0.001	<0.001	<0.001			
Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.004	<0.005	<0.005
Arsenic (As) (TOT)	<0.005	<0.005	<0.005			
Beryllium (Be) (TRC)	<0.001	<0.001	<0.001			
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)	<0.001	<0.001	<0.001			
Copper (Cu) (DIS)	<0.008	<0.008	<0.008	<0.004	<0.004	<0.004
Copper (Cu) (TOT)	<0.008	<0.008	<0.008			
Iron (Fe) (TRC)	<0.1	<0.1	<0.1			
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	<0.005	<0.005	<0.005			
Manganese (Mn) (TRC)	0.3	0.2	0.3			
Mercury (Hg) (TOT)	<0.0002	<0.0002	<0.0002			
Selenium (Se) (TRC)	<0.001	<0.001	<0.001			
Silver (Ag) (TRC)	<0.002	<0.002	<0.002			
Thallium (Tl) (TRC)	<0.003	<0.003	<0.003			
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	0.01 U	<0.02	<0.02
Zinc (Zn) (TOT)	<0.02	<0.02	<0.02			

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N)	0.07	<0.05	0.07			
Nitrate + Nitrite as N	<0.05	<0.05	<0.05			

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)				3.7	1.8	3.2
Depth To Water Level (ft)	9	9	9.9	8.9	8.9	8.7
Eh (millivolts)				76	215	151
pH (Fid)	5.9	5.8	8.3	7.5	7.2	5.3
SC (umhos/cm at 25 C) (Fid)				424	407	444
TDS (Measured at 180 C)				266	376	139
Water Temperature (C) (Fid)	12.4	12.5	5	11.3	9.7	10.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-14	DH-14	DH-14	DH-14	DH-14	DH-14
Water	SAMPLE DATE	11/5/1997	5/13/1998	11/19/1998	5/12/1999	11/17/1999	5/9/2000
	SAMPLE TIME	09:25	08:40	11:00	10:00	09:45	08:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	189-2707	263-3816	313-4450	349-4935	L992055012	L000705015
	SAMPLE NUMBER	EHC-9711-300	EHC-9805-300	EHC-9811-300	EHC-9905-300	EHC-9911-117	EHC-0005-116
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)				15 J	257	251
Calcium (Ca) (DIS)		52		49	54	51
Carbonate As CO3				116 J	<1	<1
Chloride (Cl)	10	10		7.8	7.7	12
Magnesium (Mg) (DIS)		12		11	12	12
Potassium (K) (DIS)		5		<5	<5	<5
Sodium (Na) (DIS)		17 J		18	17	16
Sulfate (SO4)	5	5		6.3 U	1.9 UJ	7.7
Total Alkalinity As CaCO3				206 J	211	206

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)					<0.005	0.01 UJ
Arsenic V (dis)					<0.005 J	0.01 U
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004 J	<0.004
Iron (Fe) (DIS)		0.08 J	0.02 U	0.09 U	0.1	0.06 U
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		0.3 J	0.3	0.3	0.3	0.3
Zinc (Zn) (DIS)	<0.02	0.02 J	<0.02	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.1	1.2	0.2	1.8	0.9	4.5
pH	7.3			8.4	7.4	7
Depth To Water Level (ft)	8.9	8.6	8.8	8.5	8.2	8.8
Eh (millivolts)			171	460	385	561
pH (Fld)	7.6	6.4	6.8	6.3	6.9	6.8
SC (umhos/cm at 25 C) (Fld)	382	411	476	434	425	468
SC (umhos/cm at 25 C)	430			390	426	429
Total Suspended Solids	0.0				1.2 J	
TDS (Measured at 180 C)	256	284	258	278	256	260
Water Temperature (C) (Fld)	10.1	12.3	10.3	11.2	10.2	10.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-14	DH-14	DH-14	DH-14	DH-14	DH-14
Water	SAMPLE DATE	11/10/2000	5/7/2001	11/14/2001	5/31/2002	11/14/2002	11/14/2002
	SAMPLE TIME	10:15	14:45	10:00	13:15	08:45	09:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001897014	L010655032	L011563015	L020412010	L020949002	L020949003
	SAMPLE NUMBER	EHC-0011-116	EHC-0105-117	EHC-0111-115	EHC-0205-120	EHC-0211-117	EHC-0211-241
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	244	261	244	257	261	262
Calcium (Ca) (DIS)	52	55	58	59	65	65
Carbonate As CO3	<1		<1	<1	<1	<1
Chloride (Cl)	12 J	18	21	23	22	23
Magnesium (Mg) (DIS)	12	13	13	14	15	15
Potassium (K) (DIS)	<5	<5	<5	<5	<5	<5
Sodium (Na) (DIS)	17	17	18	16	19	19
Sulfate (SO4)	6.1 U	4.7	2.9	5.3	4 J	1.5 J
Total Alkalinity As CaCO3	200	214	200	211	214	215

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	<0.005	0.01 J	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.02	<0.005	0.008 J	<0.005	<0.005	<0.005
Arsenic V (dis)	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.2 U	<0.02	0.03	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.3	0.3	0.3	0.3	0.3	0.3
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			177.2	18.8		
Oxygen (O) (DIS) (Fld)	0.9	0.5	0.3	0.1	0.2	
pH	7.5	7.2	6.8	6.9	7.1	7
Silicon+Silica (Si+SiO2)	32	32	33	32	31	31
Depth To Water Level (ft)	8.1	8.2	9.08	9.03	9.5	
Eh (millivolts)	352	361	423			
pH (Fld)	6.9	7.4	7.2	6.4	6.01	
SC (umhos/cm at 25 C) (Fld)	445	483	507	525	385	
SC (umhos/cm at 25 C)	438	447	437	470	481	480
Total Suspended Solids		6.8	2.7	1.6 J	1	<1
TDS (Measured at 180 C)	280	295	284	301	304	301
Salinity (G/KG) (Fld)					0.1	
Turbidity (NTU) (Fld)					1	
Water Temperature (C) (Fld)	11.2	11.2	11.6	10.7	10.2	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-14	DH-14	DH-14	DH-14	DH-14	DH-14
Water	SAMPLE DATE	5/31/2003	10/25/2003	5/13/2004	10/22/2004	5/9/2005	11/3/2005
	SAMPLE TIME	00:00	00:00	12:08	00:00	14:48	13:36
	LAB	ASARCO	TSC-SLC	ASARCO	ASARCO	ELI-Casper	ASARCO
	LAB NUMBER	0306-223	AEH-0310-447	AEH-0405-237	z	AEH-0505-DH14	AEH-0511-247
	SAMPLE NUMBER	AEH-0306-223	AEH-0310-447	AEH-0405-237	AEH-0411-247	AEH-0505-DH14	AEH-0511-247
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		SWL Only Req	SWL Only Req	SWL Only Req	SWL Only Req	SWL Only
	REMARKS		No Sample	No Sample	No Sample	No Sample	No Sample
	<b>Physical/Fid-Lab: ppm unless noted</b>						
	Depth To Water Level (ft)	8.02	8.96	8.69	8.56	8.38	8.85

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-14	DH-14	DH-14	DH-14	DH-15
Water	SAMPLE DATE	4/28/2006	11/6/2006	12/5/2007	12/5/2007	11/6/1986
	SAMPLE TIME	08:28	00:00	13:15	13:20	00:00
	LAB	Hydro	Hydrometrics	ELI	ELI	RMAL
	LAB NUMBER	AEH-0605-DH14	z	H07120050-006	H07120050-007	8611-5
	SAMPLE NUMBER	AEH-0605-DH14	AEH-0611-DH14	AEH-0711-200	AEH-0711-201	AEH-8611-5
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only	SWL Only			
	REMARKS	No Sample	No Sample		Field Duplicate	Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)					155
Bicarbonate (HCO3) (dis)			270	270	
Calcium (Ca) (dis)			95	96	154
Carbonate As CO3					<5
Chloride (Cl)			49	50	43
Magnesium (Mg) (dis)			21	21	34.5
Potassium (K) (dis)			5	5	6.7
Sodium (Na) (dis)			21	21	66.7
Sulfate (SO4)			84	91	425
Total Alkalinity As CaCO3			220	220	

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)			<0.005	<0.005	
Selenium-VI (dis)			<0.005	<0.005	
Arsenic (As) (DIS)			0.007	0.008	<0.01
Arsenic III (dis)			<0.005	<0.005	
Arsenic V (dis)			<0.005	<0.005	
Cadmium (Cd) (DIS)			<0.001	<0.001	<0.005
Copper (Cu) (DIS)			<0.004	<0.004	<0.004
Iron (Fe) (DIS)			0.02	0.02	0.3
Lead (Pb) (DIS)			<0.005	<0.005	<0.005
Manganese (Mn) (DIS)			0.52	0.53	0.7
Selenium (Se) (DIS)			0.029	0.03	
Zinc (Zn) (DIS)			<0.02	<0.02	0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)			0.24		
pH			7.2	7.1	6.9
Depth To Water Level (ft)	8.28	8.46	8.73		
pH (Fld)			6.6		
SC (umhos/cm at 25 C) (Fld)			734		
SC (umhos/cm at 25 C)			707	708	1100
Total Suspended Solids			<10	<10	
TDS (Measured at 180 C)			500	480	845
Water Temperature (C) (Fld)			10.5		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-15	DH-15	DH-15	DH-15	DH-15	DH-15
Water	SAMPLE DATE	11/6/1986	11/6/1986	11/6/1986	1/27/1987	1/27/1987	5/12/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	RMAL	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	86-7464	8611-6	86-7465	87-650	87-651	87-3371
	SAMPLE NUMBER	AEH-8611-5	AEH-8611-6	AEH-8611-6	AEH-8701-103	AEH-8701-128	AEH-8705-129
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate	Field Duplicate		Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	198			193		192
Calcium (Ca) (DIS)	158	153		217 M		110
Carbonate As CO3	<1			<1		<1
Chloride (Cl)	44 M			40		36
Magnesium (Mg) (DIS)	32	34.8		39		37.8
Potassium (K) (DIS)	8.2	6.8		6		7.1
Sodium (Na) (DIS)	63 M	65.5		58		53.5
Sulfate (SO4)	406			410		470

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.004	<0.01	<0.004	<0.006	<0.006	0.01
Arsenic III (dis)	0.009			0.03 M	0.01	
Arsenic V (dis)	0.02			<0.008	<0.008	
Cadmium (Cd) (DIS)	<0.001	<0.005	<0.001	0.001	0.001	0.01
Copper (Cu) (DIS)	<0.008	<0.004	<0.008	<0.008	<0.008	<0.008
Iron (Fe +2) (TOT)	0.3 M			1.05	1.1	
Iron (Fe) (DIS)	0.3	0.3	0.3	0.9	1	0.3
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005 M	<0.005	<0.005 M
Manganese (Mn) (DIS)	0.09	0.6	0.7	1.3	1.3	0.7
Zinc (Zn) (DIS)	0.02	0.02	0.02	0.009	0.008	0.05 M

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.8 M		0.8	4.9	4.9	
pH	6.9			7.1		7.5
Depth To Water Level (ft)	12.3		12.3	14.5	14.5	15.6
pH (Fld)	7 M		7	6.8	6.8	
SC (umhos/cm at 25 C) (Fld)	1146			1127		
SC (umhos/cm at 25 C)	1100			1120		1150
TDS (Measured at 180 C)	922			831		840
Water Temperature (C) (Fld)	11.5		11.5	12.5	12.5	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-15	DH-15	DH-15	DH-15	DH-15	DH-15
Water	SAMPLE DATE	6/4/1987	6/4/1987	6/4/1987	6/4/1987	6/29/1987	8/12/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	CHMTC	TSC-SLC	CHMTC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8706-15	87-4016	8706-36	87-4017	87-5180	87-6642
	SAMPLE NUMBER	AEH-8706-15	AEH-8706-15	AEH-8706-36	AEH-8706-36	AEH-8707-109	AEH-8708-04
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split		Field Duplicate	Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		192				190
Calcium (Ca) (DIS)	147	141	148			125.5
Carbonate As CO3		<1				<1
Chloride (Cl)	65	36 M				38
Magnesium (Mg) (DIS)	32	31.5	32.2			33.6
Potassium (K) (DIS)	5.2	5.7	5.2			5.6
Sodium (Na) (DIS)	50.9	49	49.2			53.2
Sulfate (SO4)	393.8	430 M			440	400

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.009	0.007 M	<0.009	0.007 M	<0.006	<0.006
Arsenic III (dis)		0.02		<0.008		<0.008
Arsenic V (dis)		0.008		0.02		0.01 M
Cadmium (Cd) (DIS)	<0.004	<0.001 M	<0.004	0.001		0.001
Copper (Cu) (DIS)	0.03	<0.008	0.02	0.009		<0.008
Iron (Fe +2) (TOT)		1		0.9		1
Iron (Fe) (DIS)	0.8	0.7	0.9	0.7		0.9
Lead (Pb) (DIS)	<0.003	<0.005	<0.003	0.007		0.006
Manganese (Mn) (DIS)	0.6	0.6	0.6	0.6		0.5
Zinc (Zn) (DIS)	0.02	0.008	0.02	<0.008		0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)		1.2		1.2		1.6
pH		7.8			7.8	7.6
Depth To Water Level (ft)		13.7		13.7		12.5 M
pH (Fid)		6.7		6.8		6.6
SC (umhos/cm at 25 C) (Fid)		1122		1124		1105
SC (umhos/cm at 25 C)		1100			1280 M	1150
TDS (Measured at 180 C)	753	765			898	795
Water Temperature (C) (Fid)		13		13		13.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-15	DH-15	DH-15	DH-15	DH-15	DH-15	
Water	SAMPLE DATE	8/12/1987	11/19/1987	4/27/1988	12/7/2001	5/30/2002	11/16/2002	
	SAMPLE TIME	00:00	00:00	00:00	10:25	09:45	12:30	
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	
	LAB NUMBER	87-6653	87-10575	88-3127	L011627011	L020396005	L020951003	
	SAMPLE NUMBER	AEH-8708-47	AEH-8711-230	AEH-8804-314	EHC-0111-230	EHC-0205-121	EHC-0211-118	
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
	GROUP	RI	RI	RI	RI	RI	RI	
	DESCRIPTION							
	REMARKS	Field Duplicate						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		171 M	146	195	187	185
Calcium (Ca) (DIS)			144	171.5	245	263
Carbonate As CO3			<1	<1	<1	<1
Chloride (Cl)			35	38 J	73	65
Magnesium (Mg) (DIS)			34.5	30	54	57
Potassium (K) (DIS)			7.1	6.7	6.6	7.9
Sodium (Na) (DIS)			48.5	53.1	155	148
Sulfate (SO4)			490 M	466	936	839
Total Alkalinity As CACO3				160	153	152

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)				<0.05	<0.05	<0.05
Arsenic (As) (DIS)	0.01	0.04 M	<0.006	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.008	0.01	<0.008	<0.005	<0.005	<0.005
Arsenic V (dis)	0.01	0.04	0.02	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.008	<0.008		<0.004	0.008	0.01
Iron (Fe +2) (TOT)	1.01	1.2	0.8			
Iron (Fe) (DIS)	0.8	0.9	0.5	0.03	<0.02	<0.02
Lead (Pb) (DIS)	0.005	0.007	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.5	0.4		0.02	<0.02	0.02
Zinc (Zn) (DIS)	0.01	<0.008	0.008 J	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				-1	12.6	
Oxygen (O) (DIS) (Fld)	1.6	1.4	1.8	0.1	0.06	0.4
pH		8.3	7.1	7.8	7.5	7
Silicon+Silica (Si+SiO2)				21	20	20
Depth To Water Level (ft)	12.5	14.5	15.3	18.7	16.4	14.6
Eh (millivolts)				236		
pH (Fld)	6.6	6.6	7.03	9.3	6.9	6.3
SC (umhos/cm at 25 C) (Fld)	993.5 M	1135	1147	1770	1990	1910
SC (umhos/cm at 25 C)		1190	1180	2020	1988	1965
Total Suspended Solids		28.8		96	36 J	20
TDS (Measured at 180 C)		836 M	767	1677	1634	1622
Salinity (G/KG) (Fld)						0.8
Turbidity (NTU) (Fld)						9
Water Temperature (C) (Fld)	13.2	12	14	10.6	11	10.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-15	DH-15	DH-15	DH-15	DH-15	DH-15
Water	SAMPLE DATE	6/3/2003	6/3/2003	10/28/2003	5/27/2004	11/2/2004	5/12/2005
	SAMPLE TIME	10:00	10:10	15:15	10:05	11:50	09:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper
	LAB NUMBER	L030245019	L030245020	L030604007	H04050208-004	H04110029-006	C05050485-002
	SAMPLE NUMBER	AEH-0306-182	AEH-0306-183	AEH-0310-407	AEH-0405-202	AEH-0411-190	AEH-0505-128
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	189	185	173	180	170	176
Calcium (Ca) (DIS)	231	222	236	240	267	297
Carbonate As CO3	<2	<2	<2			
Chloride (Cl)	67	66	74	81	80	75
Magnesium (Mg) (DIS)	54	45	53	49	56	61
Potassium (K) (DIS)	8.5	8.3	6.5	7	8	8
Sodium (Na) (DIS)	139	141	135	149	141	188
Sulfate (SO4)	850	861	910	820	1090	1020
Total Alkalinity As CaCO3	155	152	142	150	140	145

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	<0.005	<0.005	0.014	<0.005	<0.002
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.001 J	<0.001	<0.005
Arsenic V (dis)	<0.005	<0.005	<0.005	0.0025	<0.001	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.009	0.01	<0.004	0.006	<0.004	0.075
Iron (Fe) (DIS)	<0.02	<0.02	<0.03	<0.02	<0.02	0.05
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	0.02	<0.01	0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.05	<0.01	<0.02	0.23

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.5		0.37	0.1	0.06	0.26
pH	7.5	7.9	7.6	7.2	7.1	7.35
Depth To Water Level (ft)	14.02		14.12	14.73	12.5	15.59
pH (Fld)	6.5		6.32	6.94	6.84	6.78
SC (umhos/cm at 25 C) (Fld)	2030		1930	2050	2228	2284
SC (umhos/cm at 25 C)	1965	1966	1988	1840	1880	2250
Total Suspended Solids	4.2	3.6	13 J	<10	53 J	60
TDS (Measured at 180 C)	1605	1605	1581	1650	1760	1850
TDS - Calculated						1760
Salinity (G/KG) (Fld)	0.9		0.9			
Turbidity (NTU) (Fld)	1		1			
Water Temperature (C) (Fld)	10.9		10.7	10.9	10.9	10.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-15	DH-15	DH-15	DH-15	DH-15	DH-15
Water	SAMPLE DATE	11/17/2005	5/8/2006	5/8/2006	11/14/2006	5/14/2007	5/14/2007
	SAMPLE TIME	11:20	10:00	10:10	14:40	10:15	10:20
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	H05110153-008	H06050082-003	H06050082-004	H06110122-003	H07050154-001	H07050154-002
	SAMPLE NUMBER	AEH-0511-200	AEH-0605-172	AEH-0605-173	AEH-0611-178	AEH-0705-144	AEH-0705-145
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	160	180	180	180	190	180
Calcium (Ca) (DIS)	282	298	307	287	283	289
Chloride (Cl)	80	77	77	77	72	70
Magnesium (Mg) (DIS)	61	66	67	59	59	61
Potassium (K) (DIS)	7	8	7	8	8	8
Sodium (Na) (DIS)	179	198	196	184	189	193
Sulfate (SO4)	1080	1110	1110	1100	1060	1040
Total Alkalinity As CaCO3	130	150	150	150	150	150

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.002	<0.002	<0.002	0.008	0.006	0.006
Arsenic III (dis)	0.003 UJ	<0.005	<0.005	<0.005	<0.005 J-	<0.005 J-
Arsenic V (dis)	0.003	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.006	0.008	0.008	0.008 UJ	0.007	0.007
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.02	<0.01	<0.01	0.02	<0.01	<0.01
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				99		
Oxygen (O) (DIS) (Fld)	1.14	0.99		0.03	0.03	
pH	7.1	7.2	7.2	7.1	7.3	7.5
Depth To Water Level (ft)	13.83	15.25		13.86	16.28	
pH (Fld)	6.67	6.75		6.74	6.86	
SC (umhos/cm at 25 C) (Fld)	2450	2565		2349	2336	
SC (umhos/cm at 25 C)	2260	2020	2020	2120	2140	2150
Total Suspended Solids	24 J	55	54	<10	<10	<10
TDS (Measured at 180 C)	1940	1950	1910	1960	1960	1920
Water Temperature (C) (Fld)	10.95	11.28		10.41	10.67	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-15	DH-15	DH-15	DH-15	DH-15
Water	SAMPLE DATE	11/27/2007	5/6/2008	11/5/2008	11/5/2008	5/12/2009
	SAMPLE TIME	14:45	16:15	10:47	10:55	10:05
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07110199-003	H08050136-001	H08110073-003	H08110073-004	H09050193-001
	SAMPLE NUMBER	AEH-0711-166	AEH-0805-165	AEH-0811-171	AEH-0811-172	AEH-0905-175
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	EPA Split				
	REMARKS				Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		180	190	190	180
Bicarbonate (HCO3) (dis)	190				
Calcium (Ca) (DIS)	288	294	293	299	276
Chloride (Cl)	85	61	60	61	50
Magnesium (Mg) (DIS)	60	63	65	64	59
Potassium (K) (DIS)	8	9	8	8	8
Sodium (Na) (DIS)	190	183	179	178	170
Sulfate (SO4)	1080	1100	1200	1200	1000
Total Alkalinity As CaCO3	150	150	160	160	150

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005	<0.005	<0.005	
Selenium-VI (DIS)	0.299	0.262	0.302	0.325	
Aluminum (Al) (DIS)		<0.1	<0.1 J	0.5 J	<0.1
Antimony (Sb) (DIS)		<0.005	<0.005	<0.005	<0.003
Arsenic (As) (DIS)	0.011	0.009	0.008	0.01	0.011
Arsenic III (DIS)	<0.005	<0.005	<0.005	<0.005	
Arsenic V (DIS)	<0.005	<0.005	<0.005	<0.005	
Barium (Ba) (DIS)		<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)		<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.001	<0.001	<0.001	<0.001
Cobalt (Co) (DIS)		<0.01	<0.01	<0.01	0.0011
Copper (Cu) (DIS)	0.006 UJ	0.006	0.011	0.011	0.009 UJ
Gold (Au) (DIS)					<0.02
Iron (Fe) (DIS)	<0.03	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.003	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.02	<0.01	0.02	0.02	<0.01
Mercury (Hg) (DIS)		<0.006	<0.006	<0.006	<0.0001
Nickel (Ni) (DIS)		<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.337	0.306	0.331	0.335	0.335
Silver (Ag) (DIS)		<0.005	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)					<0.1
Thallium (Tl) (DIS)		<0.002	<0.002	<0.002	<0.001
Vanadium (V) (DIS)		<0.01	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	0.01	<0.02	<0.02	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.15	0.21	0.21		0.18
pH	7.2	7.1	7.4	7.3	7.2
Depth To Water Level (ft)	14.52	17.53	14.58		16.79

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-15	DH-15	DH-15	DH-15	DH-15
Water	SAMPLE DATE	11/27/2007	5/6/2008	11/5/2008	11/5/2008	5/12/2009
	SAMPLE TIME	14:45	16:15	10:47	10:55	10:05
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	ELI	Hydrometrics
	LAB NUMBER	H07110199-003	H08050136-001	H08110073-003	H08110073-004	H09050193-001
	SAMPLE NUMBER	AEH-0711-166	AEH-0805-165	AEH-0811-171	AEH-0811-172	AEH-0905-175
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	EPA Split				
	REMARKS				Field Duplicate	

**Physical/Fld-Lab: ppm unless noted**

pH (Fld)	6.9	6.66	6.67		6.85
SC (umhos/cm at 25 C) (Fld)	2064	2264	2264		2198
SC (umhos/cm at 25 C)	2150	2090	2210	2220	2180
Total Suspended Solids	<10	<10	<10	<10	11
TDS (Measured at 180 C)	1970	1880	1950	1940	1830
Water Temperature (C) (Fld)	10.44	10.6	10.22		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-16	DH-16	DH-16	DH-16	DH-16	DH-16
Water	SAMPLE DATE	11/24/1987	11/20/1991	4/29/1992	5/5/1993	11/11/1993	5/12/1994
	SAMPLE TIME	00:00	00:00	09:00	11:45	14:40	09:25
	LAB	TSC-SLC	HYDRO	HYDRO	HYDRO	HYDRO	HYDRO
	LAB NUMBER	87-10790	9111-312	AEH-9204-128	EHC-9305-151	9311-111	EHC-9405-117
	SAMPLE NUMBER	AEH-8711-231	AEH-9111-312	AEH-9204-128	EHC-9305-151	EHC-9311-111	EHC-9405-117
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	298
Calcium (Ca) (DIS)	78
Carbonate As CO3	<1
Chloride (Cl)	277
Magnesium (Mg) (DIS)	31.3
Potassium (K) (DIS)	36.2
Sodium (Na) (DIS)	1070
Sulfate (SO4)	2140

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	116.3
Arsenic III (dis)	147.2 M
Arsenic V (dis)	1.9
Cadmium (Cd) (DIS)	0.003 M
Copper (Cu) (DIS)	0.01
Iron (Fe +2) (TOT)	15.8
Iron (Fe) (DIS)	8.5
Lead (Pb) (DIS)	<0.01
Manganese (Mn) (DIS)	7.9
Zinc (Zn) (DIS)	5.7

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.1					
pH	7.2					
Depth To Water Level (ft)	29.5	27.4	0.0	0.0	27.6	0.0
pH (Fld)	6.3					
SC (umhos/cm at 25 C) (Fld)	4158 M					
SC (umhos/cm at 25 C)	5600					
Total Suspended Solids	70.7					
TDS (Measured at 180 C)	4100 M					
Water Temperature (C) (Fld)	11					

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-16	DH-16	DH-16	DH-16	DH-16	DH-16
Water	SAMPLE DATE	11/17/1994	5/16/1995	11/13/1995	5/14/1996	11/12/1996	5/7/1997
	SAMPLE TIME	14:30	09:35	17:30	15:50	10:05	17:20
	LAB	HYDRO	HYDRO	HYDRO	TSC-SLC	DRY	HYDRO
	LAB NUMBER	EHC-9411-117	EHC-9505-117	9511-118	96-6774	EHC-9611-107	EHC-9705-106
	SAMPLE NUMBER	EHC-9411-117	EHC-9505-117	EHC-9511-118	EHC-9605-107	EHC-9611-107	EHC-9705-106
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

### Common Ions (mg/L): ppm unless noted

Chloride (Cl)	147
Sulfate (SO4)	903

### Metals (mg/L): ppm unless noted

Arsenic (As) (DIS)	58.8
Arsenic III (dis)	60.4 J
Arsenic V (dis)	1.7 J
Cadmium (Cd) (DIS)	<0.005
Copper (Cu) (DIS)	<0.004
Lead (Pb) (DIS)	<0.005
Zinc (Zn) (DIS)	0.1

### Physical/Fld-Lab: ppm unless noted

Oxygen (O) (DIS) (Fld)					2.3		
pH					6.8		
Depth To Water Level (ft)	0.0	0.0	27.2		28.2	0.0	0.0
pH (Fld)					6.9		
SC (umhos/cm at 25 C) (Fld)					2770		
SC (umhos/cm at 25 C)					2600		
TDS (Measured at 180 C)					1974		
Water Temperature (C) (Fld)					13.3		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-16	DH-16	DH-16	DH-16	DH-16	DH-16
Water	SAMPLE DATE	11/10/1997	5/11/1998	11/12/1999	5/10/2001	11/9/2001	11/9/2001
	SAMPLE TIME	12:30	10:10	11:30	14:30	11:50	12:00
	LAB	TSC-SLC	DRY	NO SAMPLE	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	192-2743	EHC-9805-108	9911-119	L010691018	L011563016	L011565007
	SAMPLE NUMBER	EHC-9711-107	EHC-9805-108	EHC-9911-119	EHC-0105-118	EHC-0111-118	EHC-0111-204
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)				131	153	144
Calcium (Ca) (DIS)				54	123	121
Carbonate As CO3					<1	<1
Chloride (Cl)	52			139	217 J	224 J
Magnesium (Mg) (DIS)				21	46	44
Potassium (K) (DIS)				17	29	25
Sodium (Na) (DIS)				273	562	563
Sulfate (SO4)	774			673	1244	1410 J
Total Alkalinity As CaCO3				107	125	118

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)				0.1	0.1	0.1
Arsenic (As) (DIS)	1.3			34	39	38
Arsenic III (dis)	1.06			25	41	42
Arsenic V (dis)	0.2 J			7	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001			<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.004			<0.004	0.01 J	0.005 J
Iron (Fe) (DIS)				10	19	18
Lead (Pb) (DIS)	<0.005			<0.005	0.1 J	<0.005 J
Manganese (Mn) (DIS)				5.1	11	11
Zinc (Zn) (DIS)	0.04			2.4	3.8	3.8

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					-30.7	-30.8
Oxygen (O) (DIS) (Fld)	5.06			7.5	0.2	0.2
pH	7.1			7	7.6	6.8
Silicon+Silica (Si+SiO2)				21	21	21
Depth To Water Level (ft)	25.4	0.0	27.9	31.9	29.2	
Eh (millivolts)				223	224	223
pH (Fld)	6.9			6.5	6.5	6.5
SC (umhos/cm at 25 C) (Fld)	2110			1527	2730	2730
SC (umhos/cm at 25 C)	2070			1863	3280	3250
Total Suspended Solids	19			17	76 J	78 J
TDS (Measured at 180 C)	1653			1287	2448 J	2449 J
Water Temperature (C) (Fld)	12.3			12.4	11.7	11.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-16	DH-16	DH-16	DH-16	DH-16	DH-16
Water	SAMPLE DATE	5/31/2002	5/13/2005	11/3/2005	5/9/2006	11/10/2006	5/21/2007
	SAMPLE TIME	18:30	13:25	14:30	09:00	14:35	00:00
	LAB	ASARCO	Hydro	ASARCO	ASARCO	Hydrometrics	Hydrometrics
	LAB NUMBER	EHC0205122	AEH-0505-152	AEH-0511-238	AEH-0605-187	AEH-0611-154	z
	SAMPLE NUMBER	EHC-0205-122	AEH-0505-152	AEH-0511-238	AEH-0605-187	AEH-0611-154	AEH-0705-205
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		No Samp-Dry	No SWL-Dry	No Samp-Dry	No Samp-Dry	No Samp-Dry
	REMARKS		No Sample	No Sample	No Sample	No Sample	No Sample
<b>Other: ppm unless noted</b>							
	Analyses		0.0				
	No Analysis			0.0	0.0	0.0	0.0
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Depth To Water Level (ft)	0.0					

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-16	DH-16	DH-17	DH-17	DH-17
Water	SAMPLE DATE	12/13/2007	5/13/2008	12/1/1986	12/1/1986	12/1/1986
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	Hydrometrics		RMAL	TSC-SLC	RMAL
	LAB NUMBER	AEH-0711-261	AEH-0805-227	8612-2	86-7891	8612-3
	SAMPLE NUMBER	AEH-0711-261	AEH-0805-227	AEH-8612-2	AEH-8612-2	AEH-8612-3
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	No Samp-Dry	Dry			
	REMARKS	No Sample	No Sample	Split		Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	230	183	
Calcium (Ca) (DIS)	149	136	149
Carbonate As CO3	<5	<1	
Chloride (Cl)	165	153	
Magnesium (Mg) (DIS)	46	33	46.1
Potassium (K) (DIS)	26.1	30	26.4
Sodium (Na) (DIS)	581	533 M	588
Sulfate (SO4)	1510	1520	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	78	87.5	78
Arsenic III (dis)		88	
Arsenic V (dis)		0.5	
Cadmium (Cd) (DIS)	0.007	<0.001	<0.005
Copper (Cu) (DIS)	<0.004	0.01	<0.004
Iron (Fe +2) (TOT)		47.8	
Iron (Fe) (DIS)	42.4	41	41.8
Lead (Pb) (DIS)	<0.05	<0.005	<0.05
Manganese (Mn) (DIS)	14.2	15.9	14.2
Zinc (Zn) (DIS)	3.9	4	3.9

**Other: ppm unless noted**

No Analysis	0.0	0.0	
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**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		2.8	
pH	6.4	6.4	
Depth To Water Level (ft)		27.1	
pH (Fld)		5.6	
SC (umhos/cm at 25 C) (Fld)		3546	
SC (umhos/cm at 25 C)	3180.4	3180 M	
TDS (Measured at 180 C)	2870	2896	
Water Temperature (C) (Fld)		11.3 M	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-17	DH-17	DH-17	DH-17	DH-17	DH-17
Water	SAMPLE DATE	12/1/1986	1/29/1987	6/9/1987	6/9/1987	8/17/1987	4/19/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	CHMTC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	86-7892	87-656	8706-16	87-4196	87-6875	88-2775
	SAMPLE NUMBER	AEH-8612-3	AEH-8701-104	AEH-8706-16	AEH-8706-16	AEH-8708-05	AEH-8804-316
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate		Split			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		207		139 M	194	199
Calcium (Ca) (DIS)		164 M	52.4	50.5	52	53.5
Carbonate As CO3		<1		<1	<1	<1
Chloride (Cl)		200	275	275 M	270	266 J
Magnesium (Mg) (DIS)		39	20	20	18.5	21
Potassium (K) (DIS)		33	21.8	26.7	25	32
Sodium (Na) (DIS)		860	786	1010	905	914
Sulfate (SO4)		1800 M	1523.8	1550 M	1390 M	1599

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	87.5	108	114	111.3 M	80	89
Arsenic III (dis)	96	118		82 M	105.8	91.7
Arsenic V (dis)	2.8	0.6		5	0.3 M	1.6
Cadmium (Cd) (DIS)	<0.001	0.005 M	<0.004	0.001 M	0.001	<0.001
Copper (Cu) (DIS)	0.1	0.009	0.03	0.008 M	<0.008	
Iron (Fe +2) (TOT)	47.5	43.3 M		16	16.3	8.5
Iron (Fe) (DIS)	41	39.4	13.5	14.1	11.8	5.4
Lead (Pb) (DIS)	<0.005	0.006 M	<0.03	<0.005	0.02 M	0.03 J
Manganese (Mn) (DIS)	15.5	13.3	6.02	6.2	6.6	
Zinc (Zn) (DIS)	4	8.2 M	5.7	5.3	3.1 M	3

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	2.8	2.1		1.2 M	3.1	2.7
pH		6.2 M		6.6	6.5	6.4
Depth To Water Level (ft)	27.1	29.6			26.7	31.3
pH (Fid)	5.6	6.4		6.07	6.4	6.8
SC (umhos/cm at 25 C) (Fid)		4241		4247	3994	4427
SC (umhos/cm at 25 C)		3850		4550	4000	4550
TDS (Measured at 180 C)		3562	2979	3460	3002 M	3440
Water Temperature (C) (Fid)	11.3	12.4		13.2	12.8	13.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-17	DH-17	DH-17	DH-17	DH-17	DH-17	
Water	SAMPLE DATE	4/19/1988	12/21/1988	4/19/1989	10/19/1989	10/19/1989	5/1/1990	
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00	
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	
	LAB NUMBER	88-2785	89-52	89-504	89-820	89-827	90-1062	
	SAMPLE NUMBER	AEH-8804-328	AEH-8812-135	AEH-8904-214	AEH-8910-414	AEH-8910-430	AEH-9005-414	
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
	GROUP	RI	RI	RI	RI	RI	RI	
	DESCRIPTION							
	REMARKS	Field Duplicate				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	221	280	268	390
Sulfate (SO4)	1800	1688	2200	2460

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	86	105	82	105	103.7	100
Arsenic III (dis)	91.4	93 J	87.3	102.5	100.3	105
Arsenic V (dis)	3.9	3.9	1.6 J	7.1	6.4	1.4
Cadmium (Cd) (DIS)	0.001	0.008	<0.002	<0.003	0.003	0.005
Copper (Cu) (DIS)		0.01	<0.008 J	<0.008	<0.008	0.02
Iron (Fe +2) (TOT)	8.5	4.6	3.7			
Iron (Fe) (DIS)	5.2					
Lead (Pb) (DIS)	0.03	0.05	<0.02	<0.02	<0.005 UJ	0.03
Zinc (Zn) (DIS)	3.03	2.03	1.9	2.1 J	2.1 J	1.9

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.7	1.4	1.2	1.6	1.6	2.05
pH		6.6	6.5	6.5		7.4
Depth To Water Level (ft)	31.3	31.5	30.6	27.5	27.5	31.2
pH (Fld)	6.8	5.7	6.2	6.3	6.3	6.6
SC (umhos/cm at 25 C) (Fld)	4447	4535	4558	5847		6286
SC (umhos/cm at 25 C)		4200	4300	5200		6200
TDS (Measured at 180 C)		3289	3477	4544		4875 J
Water Temperature (C) (Fld)	13.4	11.2	15.2	12.9	12.9	12.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-17	DH-17	DH-17	DH-17	DH-17	DH-17
Water	SAMPLE DATE	12/4/1990	5/8/1991	11/20/1991	11/20/1991	4/29/1992	11/20/1992
	SAMPLE TIME	00:00	00:00	13:00	14:00	08:30	12:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	90-2244	91-2679	91-3887	91-3879	92-4348	92-6803
	SAMPLE NUMBER	AEH-9011-719	AEH-9105-150	AEH-9111-367	AEH-9111-305	AEH-9204-148	EHC-9211-147
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Calcium (Ca) (Dis)						123 J
	Chloride (Cl)	218 J	272	158 J	150 J	104 J	220
	Magnesium (Mg) (Dis)						38
	Potassium (K) (Dis)						22
	Sodium (Na) (Dis)						933
	Sulfate (SO4)	2024 J	2416	1592	1290 J	1962	1815
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	142	129	138	135	149	152
	Arsenic III (dis)	126	122 J	153	157	147	145
	Arsenic V (dis)	1	8.5 J	5.1	9.3 J	2.1	1.08 J
	Cadmium (Cd) (DIS)	0.001	0.002	0.001	0.002	0.004 U	0.009
	Copper (Cu) (DIS)	<0.008	<0.004	<0.004	<0.004	0.004	0.004
	Lead (Pb) (DIS)	<0.005 UJ	<0.005 J	<0.005	<0.005	<0.005	<0.005 JU
	Zinc (Zn) (DIS)		0.9	0.7	0.7	1.2	2.1
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	1.5	2.4	1.6	1.6	1.3	2.4
	pH	6.9	6.9	6.4	6.4	6.3	7.3
	Depth To Water Level (ft)	30.5	32.2	26.3	26.3	29.3	27.3
	pH (Fld)	7.2	7.2	6.6	6.6	6.8	6.7
	SC (umhos/cm at 25 C) (Fld)	5269	5666	3763	3782	4870	4260
	SC (umhos/cm at 25 C)	5200	5600	3630	3580	4900	4750
	TDS (Measured at 180 C)	3744 J	4331	2965 J	2967 J	3760	3380
	Water Temperature (C) (Fld)	12.6	14.4	12	0.0	12.6	11.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-17	DH-17	DH-17	DH-17	DH-17	DH-17
Water	SAMPLE DATE	11/20/1992	5/5/1993	5/5/1993	11/11/1993	5/12/1994	11/18/1994
	SAMPLE TIME	13:15	11:30	12:50	15:20	10:15	14:00
	LAB	TSC-SLC	TSC-SLC	ATI	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	92-6801	93-7827	9305-064-9	93-9272	94-1384	94-3398
	SAMPLE NUMBER	EHC-9211-128	EHC-9305-152	EHC-9305-153	EHC-9311-112	EHC-9405-118	EHC-9411-182
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
Calcium (Ca) (Dis)		122 J	230				
Chloride (Cl)		215	417		189 J	231	286
Magnesium (Mg) (Dis)		38	70				
Potassium (K) (Dis)		19	35				
Sodium (Na) (Dis)		918	1150				
Sulfate (SO4)		2102	2811		1703 J	1904 J	1585
Total Hardness As CaCO3			862				
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)		156	124		104 J	115	37.4
Arsenic III (dis)		148 J	94		112 J	102 J	33.5
Arsenic V (dis)		3 J	19 J		7	1.9	2.01 J
Cadmium (Cd) (DIS)		0.004	0.001		0.003	0.003	0.005
Copper (Cu) (DIS)		0.004	<0.004		0.005	<0.004	0.005
Lead (Pb) (DIS)		0.007 J	0.005		<0.005	<0.005 JU	<0.005
Zinc (Zn) (DIS)		2	5.1		5.6 J	7.5	0.3
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)		2.4	1.8	1.8	2	1.4	3.1
pH		7.1					6.7
Depth To Water Level (ft)		27.3	28.1	28.1	25.6	28.4	28.9
pH (Fld)		6.7	6.6	6.6	6.5	6.4	7.1
SC (umhos/cm at 25 C) (Fld)		4275	5490		3770	4100	4570
SC (umhos/cm at 25 C)		4600	5000		4000 J	4390 J	4610
TDS (Measured at 180 C)		3370	4478		3066	3484	3548 J
Water Temperature (C) (Fld)		11.8	13	13	12.2	13.2	7.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-17	DH-17	DH-17	DH-17	DH-17	DH-17
Water	SAMPLE DATE	11/18/1994	5/16/1995	11/13/1995	5/14/1996	11/12/1996	5/7/1997
	SAMPLE TIME	15:00	10:40	17:15	15:00	10:30	18:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	HYDRO	TSC-SLC	TSC-SLC
	LAB NUMBER	94-3387	95-4512	95-6143	EHC-9605-106	96-7786	97-972
	SAMPLE NUMBER	EHC-9411-118	EHC-9505-118	EHC-9511-119	EHC-9605-106	EHC-9611-106	EHC-9705-138
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	287	204	99 J		42	24
	Sulfate (SO4)	1762	1249	1048 J		439	261
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	36.4	94.4	87.4		58.4	52.8
	Arsenic III (dis)	32.4	87.02 J	86.9		50.9	51.9
	Arsenic V (dis)	4.2 J	12.08 J	2.2 J		1.4 J	1.1 J
	Cadmium (Cd) (DIS)	<0.004	0.006	0.001		<0.001	<0.001
	Copper (Cu) (DIS)	0.004	0.01	<0.004		0.02	<0.004
	Lead (Pb) (DIS)	<0.005	<0.005 J	<0.005 J		<0.005	<0.005
	Zinc (Zn) (DIS)	0.3	4.8	3.5		1.1	0.7
<b>Other: ppm unless noted</b>							
	No Analysis				0.0		
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	3.1	2.5	2.5		3	1.9
	pH	6.7	6.2	6.5		5.9	6.4
	Depth To Water Level (ft)	28.9	24.7	26.2		27.5	29.3
	pH (Fld)	7.1	6.7	6.5		6.5	7.01
	SC (umhos/cm at 25 C) (Fld)	4580	3080	2570		1036	821
	SC (umhos/cm at 25 C)	4580	3140 J	2700 J		1132	853
	TDS (Measured at 180 C)	3567 J	2241 J	1917		862	592
	Water Temperature (C) (Fld)	7.3	11.9	11		9.9	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-17	DH-17	DH-17	DH-17	DH-17	DH-17
Water	SAMPLE DATE	11/7/1997	5/11/1998	5/11/1998	11/20/1998	5/11/1999	11/12/1999
	SAMPLE TIME	12:10	11:00	11:15	09:45	14:40	11:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	192-2742	262-3784	262-3796	312-4439	347-4899	L992007006
	SAMPLE NUMBER	EHC-9711-106	EHC-9805-107	EHC-9805-154	EHC-9811-106	EHC-9905-106	EHC-9911-118
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		93 J	100 J	95	76 J	143
Calcium (Ca) (DIS)		81	82	35	18	62
Carbonate As CO3					<1 UJ	<1
Chloride (Cl)	45	54	53	22	14	75
Magnesium (Mg) (DIS)		29	29	11	6.6	21
Potassium (K) (DIS)		19	19	10	9.2	15
Sodium (Na) (DIS)		258	251	134	111	186
Sulfate (SO4)	532	708	741	306	414 J	411
Total Alkalinity As CACO3		76 J	82 J	78	62 J	117

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	32.9	37.1	37.4	27	24.6	30
Arsenic III (dis)	33.1	36.8 J	37.1 J	32.4 J	27	30
Arsenic V (dis)	3 J	0.8	0.7	0.3 J	1.1	0.5
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004 J	<0.004	<0.004	<0.004	<0.004	0.01 J
Iron (Fe) (DIS)		16.9	16.8	6.09	3.9	11 J
Lead (Pb) (DIS)	<0.005	<0.03	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		7.2	7.2	2.7	1.7	5.2
Zinc (Zn) (DIS)	2.8	3.8	3.8	1.1	0.9	2.4 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.3	1.2	1.2	1.6	1.3	1.5
pH	6.1	6.3	6.3	6.5	6.7	6.7
Depth To Water Level (ft)	26	28.9		28.6	28.4	26.9
Eh (millivolts)				198	288	183
pH (Fld)	6.6	6	6	6.9	6.7	6.6
SC (umhos/cm at 25 C) (Fld)	1352	1680	1670	955	727	1370
SC (umhos/cm at 25 C)	1382	1813	1846	950	714	1438
Total Suspended Solids	18 J					25
TDS (Measured at 180 C)	1032 J	1313	1334	655	503	1226 J
Water Temperature (C) (Fld)	11	13.3	13.3	9.7	10.9	11.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-17	DH-17	DH-17	DH-17	DH-17	DH-17
Water	SAMPLE DATE	5/3/2000	11/7/2000	2/7/2001	5/30/2002	11/16/2002	6/2/2003
	SAMPLE TIME	10:05	16:35	14:05	11:30	11:15	08:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000703002	L001873018	L010183011	L020396006	L020956005	L030244020
	SAMPLE NUMBER	EHC-0005-117	EHC-0011-118	EHST-0102-110	EHC-0205-123	EHC-0211-120	AEH-0306-162
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	144	123 J		190	315	305
Calcium (Ca) (DIS)	28	24		117	68	59
Carbonate As CO3	<1	<1		<1	<1	<2
Chloride (Cl)	34	59 J		237	222	167
Magnesium (Mg) (DIS)	11	9.2		43	24	22
Potassium (K) (DIS)	12	11		22	20	19
Sodium (Na) (DIS)	171	164		803	574	585
Sulfate (SO4)	317	300 J		1618	949	1188
Total Alkalinity As CaCO3	118	101 J		156	258	250

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		0.1 U		0.06	0.1	
Antimony (Sb) (DIS)				<0.003		
Arsenic (As) (DIS)	34	31	30	41	43	42
Arsenic III (dis)	32	27		41	40	36
Arsenic V (dis)	0.6	0.6		<0.005	2	4
Cadmium (Cd) (DIS)	0.001	0.001	0.0003	<0.001	<0.002	0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.005	0.009	<0.008	<0.004 UJ
Iron (Fe) (DIS)	6.2	4.8	7.2	13	5.7	4
Lead (Pb) (DIS)	<0.005	<0.005	<0.003	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.6	2.3	3.6	9.3	5.2	4.3
Mercury (Hg) (DIS)			0.0004			
Selenium (Se) (DIS)			0.003			
Thallium (Tl) (DIS)			<0.003			
Zinc (Zn) (DIS)	1.5	1.1	1.6	3	1.2	0.9

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential				30.9		
Oxygen (O) (DIS) (Fld)	4.8	2.03	1	0.07	0.3	0.3
pH	6.7	6.6		7.4	7	7.5
Silicon+Silica (Si+SiO2)		21		18	17	
Depth To Water Level (ft)	30.6	30.4	32	33	29.7	30.4
Eh (millivolts)	409	233	203			
pH (Fld)	6.4	7.05	8.1	6.6	6.2	6.2
SC (umhos/cm at 25 C) (Fld)	1077	1152	1404	3540	3020	3090
SC (umhos/cm at 25 C)	1086	1089		3520	3070	3170
Total Suspended Solids				18 J	239	38
TDS (Measured at 180 C)	712	709		2540	2169	2169

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-17	DH-17	DH-17	DH-17	DH-17	DH-17
Water	SAMPLE DATE	5/3/2000	11/7/2000	2/7/2001	5/30/2002	11/16/2002	6/2/2003
	SAMPLE TIME	10:05	16:35	14:05	11:30	11:15	08:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000703002	L001873018	L010183011	L020396006	L020956005	L030244020
	SAMPLE NUMBER	EHC-0005-117	EHC-0011-118	EHST-0102-110	EHC-0205-123	EHC-0211-120	AEH-0306-162
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fld-Lab: ppm unless noted**

Salinity (G/KG) (Fld)						1.4	1.5
Turbidity (NTU) (Fld)						74	21
Water Temperature (C) (Fld)	11.9	10.4	13.3	11.8	11.6	12.2	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-17	DH-17	DH-17	DH-17	DH-17	DH-17
Water	SAMPLE DATE	10/29/2003	10/29/2003	5/20/2004	11/3/2004	5/18/2005	11/16/2005
	SAMPLE TIME	14:10	14:20	12:30	08:45	10:00	12:50
	LAB	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel
	LAB NUMBER	L030605005	L030605006	H04050133-010	H04110037-001	C05050691-001	H05110136-011
	SAMPLE NUMBER	AEH-0310-427	AEH-0310-428	AEH-0405-133	AEH-0411-203	AEH-0505-185	AEH-0511-182
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	384	386	360	500	363	500
Calcium (Ca) (DIS)	56	56	28	24	26	29
Carbonate As CO3	<2	<2				
Chloride (Cl)	135	137	110	80	90	80
Magnesium (Mg) (DIS)	19	19	9	8	9	9
Potassium (K) (DIS)	18	17	13	12	10	11 J-
Sodium (Na) (DIS)	549	547	466	439	480	536 J-
Sulfate (SO4)	973	990	740	502	645	707
Total Alkalinity As CaCO3	315	316	300	410	297	410

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	45	45	41.86	49.22	42.9	45.15
Arsenic III (dis)	54	52	43 J	19	52.1	48
Arsenic V (dis)	<0.05	<0.05	3.2 J	22	0.5	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	0.005	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	3.6	3.6	1.06	0.76	0.59	0.73
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.9	4	1.75	1.41	1.37	1.44
Zinc (Zn) (DIS)	0.9	0.9	0.25	0.18	0.17	0.17

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.36		0.17	0.08	6.12	0.8
pH	7.7	7.8	7.6	7.6	7.42	7.3
Depth To Water Level (ft)	29.59		30.89	27.39	31.64	28.54
pH (Fld)	6.28		6.52	6.99	6.92	7.09
SC (umhos/cm at 25 C) (Fld)	2810		2420	2205	2729	2470
SC (umhos/cm at 25 C)	2880	2870	2560	1770	2310	2390
Total Suspended Solids	262	199	11	10	<10	<10 J
TDS (Measured at 180 C)	2118	2074	1570	1420	1590	1700
TDS - Calculated					1450	
Salinity (G/KG) (Fld)	1.3		1.1			
Turbidity (NTU) (Fld)	21		10			
Water Temperature (C) (Fld)	11.7		13.2	12.5	12.93	13.49

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-17	DH-17	DH-17	DH-17	DH-17	DH-17
Water	SAMPLE DATE	5/9/2006	12/4/2006	5/21/2007	12/12/2007	12/12/2007	5/15/2008
	SAMPLE TIME	09:20	11:50	15:00	09:20	09:30	12:00
	LAB	ELI-Hel	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06050103-001	H06120014-005	H07050236-007	H07120134-001	H07120134-002	H08050268-007
	SAMPLE NUMBER	AEH-0605-188	AEH-0611-231	AEH-0705-204	AEH-0711-235	AEH-0711-236	AEH-0805-256
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	500	500	520			430
Bicarbonate (HCO3) (dis)				520	510	
Calcium (Ca) (DIS)	37 J+	19	29	21	20	16
Chloride (Cl)	77	52	62	45	47	37
Magnesium (Mg) (DIS)	11 J-	6	9	6	6	5
Potassium (K) (DIS)	14	9	10	10	10	9
Sodium (Na) (DIS)	641	435	573	477	478	401
Sulfate (SO4)	861	488	676	516	494	440
Total Alkalinity As CaCO3	410	410	430	430	420	350

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)				<0.005	<0.005	<0.005
Selenium-VI (dis)				<0.005	<0.005	<0.005
Aluminum (Al) (DIS)						<0.1
Antimony (Sb) (DIS)						<0.005
Arsenic (As) (DIS)	44.5	45.23	42.62	46	43.7	44.08
Arsenic III (dis)	39 J	47.7	46.5	52.6	46.5	35
Arsenic V (dis)	<0.2	2.1 J-	1.12 J+	<0.624	<0.624	0.203
Barium (Ba) (DIS)						<0.1
Beryllium (Be) (DIS)						0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	0.004
Chromium (Cr) (DIS)						<0.001
Cobalt (Co) (DIS)						<0.01
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.83	0.42	0.65	0.43	0.41	0.34
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	1.98	0.96	1.44	0.98	0.99	0.79
Mercury (Hg) (DIS)						<0.006
Nickel (Ni) (DIS)						<0.01
Selenium (Se) (DIS)				0.01	0.01	0.008
Silver (Ag) (DIS)						<0.005
Thallium (Tl) (DIS)						<0.002
Vanadium (V) (DIS)						<0.01
Zinc (Zn) (DIS)	0.2	0.12	0.19	0.12	0.12	0.11

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential		-69.3				
Oxygen (O) (DIS) (Fld)	0.5	0.22	0.04	0.17		0.31
pH	7.4	7.4	7.7	7.3	7.4	7.3
Depth To Water Level (ft)	31.39	28.92	22.17	29.38		33.39
pH (Fld)	6.88	7.15	7.14	7.22		6.87

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-17	DH-17	DH-17	DH-17	DH-17	DH-17
Water	SAMPLE DATE	5/9/2006	12/4/2006	5/21/2007	12/12/2007	12/12/2007	5/15/2008
	SAMPLE TIME	09:20	11:50	15:00	09:20	09:30	12:00
	LAB	Hydro	Hydrometrics	Hydrometrics	Hydrometrics	ELI	Hydrometrics
	LAB NUMBER	H06050103-001	H06120014-005	H07050236-007	H07120134-001	H07120134-002	H08050268-007
	SAMPLE NUMBER	AEH-0605-188	AEH-0611-231	AEH-0705-204	AEH-0711-235	AEH-0711-236	AEH-0805-256
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	2650	2074	2471	2188			1837
SC (umhos/cm at 25 C)	2500	2010	2400	2040	2040		1730
Total Suspended Solids	<10	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	1920	1370	1700	1400	1400		1190
Water Temperature (C) (Fid)	13.52	11.77	12.77	12.1			13

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-17	DH-17	DH-17	DH-19	DH-19
Water	SAMPLE DATE	11/17/2008	11/17/2008	5/19/2009	6/11/1987	6/11/1987
	SAMPLE TIME	10:40	10:55	17:20	00:00	00:00
	LAB	ELI	ELI	ELI	CHMTC	TSC-SLC
	LAB NUMBER	H08110187-003	H08110187-004	H09050287-013	8706-18	87-4239
	SAMPLE NUMBER	AEH-0811-253	AEH-0811-254	AEH-0905-268	AEH-8706-18	AEH-8706-18
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Field Duplicate		Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	460	470	420	<3	<1
Calcium (Ca) (DIS)	21	21	22	88.4	79.5
Carbonate As CO3					<1
Chloride (Cl)	54	54	44	55	52
Magnesium (Mg) (DIS)	6	6	7	32.7	31.5 M
Potassium (K) (DIS)	10	10	10	13	23
Sodium (Na) (DIS)	441	437	459	134	151
Sulfate (SO4)	570	570	570	887	1025 M
Total Alkalinity As CaCO3	380	380	340		

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005			
Selenium-VI (DIS)	<0.005	<0.005			
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1		
Antimony (Sb) (DIS)	<0.005	<0.005	<0.003		
Arsenic (As) (DIS)	45.9	45.6	42	53.7	51.3
Arsenic III (DIS)	47.6	45.3			66 M
Arsenic V (DIS)	0.342	0.383			1.6
Barium (Ba) (DIS)	<0.1	<0.1	<0.1		
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	6.6	6.9
Chromium (Cr) (DIS)	0.001	0.002	<0.001		
Cobalt (Co) (DIS)	<0.01	<0.01	0.0017		
Copper (Cu) (DIS)	<0.004	<0.004	<0.001	0.04	0.01 M
Gold (Au) (DIS)			<0.01		
Iron (Fe +2) (TOT)					55
Iron (Fe) (DIS)	0.36	0.36	0.45	45.4	46.2
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	0.09	0.09
Manganese (Mn) (DIS)	0.97	0.97	1.07	8.2	8
Mercury (Hg) (DIS)	<0.006	<0.006	<0.0001		
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01		
Selenium (Se) (DIS)	0.013	0.013	0.028		
Silver (Ag) (DIS)	<0.005 J-	<0.005 J-	<0.005		
Tellurium (Te) (DIS)			<0.1		
Thallium (Tl) (DIS)	<0.002	<0.002	<0.001		
Vanadium (V) (DIS)	<0.01	<0.01	<0.01		
Zinc (Zn) (DIS)	0.11	0.11	0.12		33

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.26		0.07		2
pH	7.3	7.2	7.4		3.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-17	DH-17	DH-17	DH-19	DH-19
Water	SAMPLE DATE	11/17/2008	11/17/2008	5/19/2009	6/11/1987	6/11/1987
	SAMPLE TIME	10:40	10:55	17:20	00:00	00:00
	LAB	Hydrometrics	ELI	Hydrometrics	CHMTC	TSC-SLC
	LAB NUMBER	H08110187-003	H08110187-004	H09050287-013	8706-18	87-4239
	SAMPLE NUMBER	AEH-0811-253	AEH-0811-254	AEH-0905-268	AEH-8706-18	AEH-8706-18
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Field Duplicate		Split	

**Physical/Fid-Lab: ppm unless noted**

Depth To Water Level (ft)	29.6		32.82		15.2
pH (Fld)	7.18		7.19		4.5
SC (umhos/cm at 25 C) (Fld)	2044		2096		1886
SC (umhos/cm at 25 C)	2140	2110	2080		2380
Total Suspended Solids	<10	<10	<10		
TDS (Measured at 180 C)	1400	1400	1410	1390	1610
Water Temperature (C) (Fld)	12.1		13.3		11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-19	DH-19	DH-19	DH-19	DH-19	DH-19
Water	SAMPLE DATE	8/12/1987	8/12/1987	11/30/1987	11/30/1987	5/3/1988	12/28/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8708-07	87-6645	87-11007	87-11020	88-3205	89-56
	SAMPLE NUMBER	AEH-8708-07	AEH-8708-07	AEH-8711-234	AEH-8712-264	AEH-8804-318	AEH-8812-137
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	<5	<1	<1		<1	
Calcium (Ca) (DIS)	97.8	106	94		73	
Carbonate As CO3	<5	<1	<1		<1	
Chloride (Cl)	55	57	64		59	65
Magnesium (Mg) (DIS)	32.7	35.5	34		32	
Potassium (K) (DIS)	22	24.2	28.3		26	
Sodium (Na) (DIS)	138	144	138		159	
Sulfate (SO4)	920	930	920		957 J	520

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	66.6	66	99	98	87	100
Arsenic III (dis)		79.9	96 M		85.6	83 J
Arsenic V (dis)		2.8	1.1		2.3	9.3 J
Cadmium (Cd) (DIS)	10.4	7.6	7.4	7	4.9	5
Copper (Cu) (DIS)	<0.002	<0.008	<0.008	<0.008		0.008
Iron (Fe +2) (TOT)		5.7	59.8		68	54.5
Iron (Fe) (DIS)	45.4	45.3	40.1	43.3	42	
Lead (Pb) (DIS)	0.09	0.09	0.1	0.08	0.1 J	0.08
Manganese (Mn) (DIS)	8.2	8.8	7.6	7.6		
Zinc (Zn) (DIS)	32.5	32.5	34	35	33.4	37.5

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		1.8	2.5	2.5	1.7	1.5
pH		3.02	3.1		3.4 J	2.8
Depth To Water Level (ft)		14.8	16.05	16.05	16.3	16.7
pH (Fld)		4.08	4.7	4.7	4.5	4.01
SC (umhos/cm at 25 C) (Fld)		2655 M	1893	1938	1966	1911
SC (umhos/cm at 25 C)		2300	2030		2100	2200
Total Suspended Solids			51			
TDS (Measured at 180 C)	1550	1519	1760 M		1552 J	1485
Water Temperature (C) (Fld)		13.5	10.2	10.2	11	11.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-19	DH-19	DH-19	DH-19	DH-19	DH-19
Water	SAMPLE DATE	12/28/1988	4/20/1989	10/23/1989	10/23/1989	5/1/1990	12/6/1990
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-58	89-513	89-833	89-840	90-1063	90-2258
	SAMPLE NUMBER	AEH-8812-147	AEH-8904-216	AEH-8910-416	AEH-8910-431	AEH-9005-416	AEH-9011-721
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	66	80	84		250	205 J
Sulfate (SO4)	620	838	1000		1250	1723 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	101	80	83.9	80.9 J	199	174
Arsenic III (dis)	92 J	83 J	75.6	74.5	181	158
Arsenic V (dis)	1.9	0.1 J	10.6	10.4	13.5	2 J
Cadmium (Cd) (DIS)	4.8	7.5 J	6.7	6.7	26.4	14.1
Copper (Cu) (DIS)	<0.008	<0.008 J	<0.008	<0.008	0.02	0.01
Iron (Fe +2) (TOT)	54.5	46.8				
Lead (Pb) (DIS)	0.08	0.04	0.05	0.06	0.1	0.08
Zinc (Zn) (DIS)	37.5	34	35.8 J	35.3 J	50	

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		2.8	1.6	1.6	2.4	2
pH	2.8	3.9	2.8		3.6	2.6
Depth To Water Level (ft)		15.05	15.05	15.05	16.2	14.5
pH (Fld)		4.3	4.4	4.4	4.06	4.7
SC (umhos/cm at 25 C) (Fld)	1949	1982	2014		3041	3373
SC (umhos/cm at 25 C)	2100	1550	2280		2970	4230
TDS (Measured at 180 C)	1533	1656	1510 J		2355 J	3145 J
Water Temperature (C) (Fld)		13.5	13.7	13.7	11.8	12.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-19	DH-19	DH-19	DH-19	DH-19	DH-19
Water	SAMPLE DATE	12/6/1990	5/8/1991	11/20/1991	4/28/1992	11/20/1992	4/28/1993
	SAMPLE TIME	00:00	00:00	12:00	11:15	11:45	17:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	90-2266	91-2688	91-3878	92-4354	93-6820	93-7719
	SAMPLE NUMBER	AEH-9011-736	AEH-9105-154	AEH-9111-304	AEH-9204-163	EHC-9211-100	EHC-9305-106
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)					253	142 J
Chloride (Cl)	201 J	230	580 J	435 J	468 J	220
Magnesium (Mg) (Dis)					67	42 J
Potassium (K) (Dis)					45	31
Sodium (Na) (Dis)					313	226 J
Sulfate (SO4)	1679 J	1800	4872 J	2360	1988	1174
Total Hardness As CaCO3						526

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	183	105	416	335	245	61
Arsenic III (dis)	167	92 J	435	332	231	58
Arsenic V (dis)	1.1 J	7.5 J	14.5	2.9	3.7 J	
Cadmium (Cd) (DIS)	13.7	20.5	87	70.8	22.3	10.1
Copper (Cu) (DIS)	0.008	0.02	0.04	0.03	0.03	0.01
Lead (Pb) (DIS)	0.08	0.1	0.6	0.2	0.2	0.08
Zinc (Zn) (DIS)		69.5	150	82	49.6 J	30 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2	2.1	2	1.1	2.1	3.1
pH	2.6	2.6	3.4	2.9	2.6	
Depth To Water Level (ft)	14.5	14.03	13.4	11.4	12.3	11.7
pH (Fld)	4.7	4.4	3.8	3.6	3.9	4
SC (umhos/cm at 25 C) (Fld)	3451	3520	7470	5000	3980	2735
SC (umhos/cm at 25 C)	4150	4400	7400	5200	5100	2750
TDS (Measured at 180 C)	3102 J	3099	9057 J	4836	3710	2230
Water Temperature (C) (Fld)	12.4	12.5	16.1	14.8	15.1	13.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-19	DH-19	DH-19	DH-19	DH-19	DH-19
Water	SAMPLE DATE	11/11/1993	5/11/1994	11/15/1994	5/15/1995	5/15/1995	11/9/1995
	SAMPLE TIME	12:20	15:45	15:15	12:30	12:45	17:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-9225	94-1353	94-3366	95-4513	95-4524	95-6116
	SAMPLE NUMBER	EHC-9311-114	EHC-9405-120	EHC-9411-120	EHC-9505-120	EHC-9505-176	EHC-9511-121
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	104 J	107	63	49	49	65 J
	Sulfate (SO4)	1527 J	1125 J	918	903	773	1101 J
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	90 J	103.1	83.6	71.03	70.9	67.9
	Arsenic III (dis)	84 J	0.2	68.1	63.6 J	61.7	55.8 J
	Arsenic V (dis)	12.4	98.9 J	12.2 J	9.3 J	8.8	7.7 J
	Cadmium (Cd) (DIS)	10.5	6.1	2.7	4.06	4.05	5.5
	Copper (Cu) (DIS)	0.007	0.01	0.006	0.02	0.02	0.01
	Lead (Pb) (DIS)	0.09	0.06 J	0.1	0.2	0.2	0.4 J
	Zinc (Zn) (DIS)	33.6	30.1	19.8	18.08	17.9	26.1
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	2.4	2.9	4.2	3.9	3.9	3.6
	pH			3	3	2.9	2.9 J
	Depth To Water Level (ft)	12.2	12.7	13	12.2	12.2	11.5
	pH (Fld)	3.7	4.03	5.2	4.5	4.5	4.7
	SC (umhos/cm at 25 C) (Fld)	2805	2350	1831 J	1725	1741	2130
	SC (umhos/cm at 25 C)	3410 J	2680 J	2240	2120 J	2120 J	2540 J
	TDS (Measured at 180 C)	2614	1987	1535 J	1440 J	1392 J	1945
	Water Temperature (C) (Fld)	12.4	12.3	9.1	10.9	10.9	12.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-19	DH-19	DH-19	DH-19	DH-19	DH-19
Water	SAMPLE DATE	5/14/1996	11/11/1996	5/8/1997	11/6/1997	5/11/1998	11/19/1998
	SAMPLE TIME	08:40	10:00	08:40	16:40	16:15	19:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-6782	96-7780	97-936	192-2747	262-3785	314-4464
	SAMPLE NUMBER	EHC-9605-109	EHC-9611-109	EHC-9705-108	EHC-9711-113	EHC-9805-110	EHC-9811-109
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)						<1 UJ	<1
Calcium (Ca) (DIS)						169	86
Chloride (Cl)	42	29	34	103		47	35
Magnesium (Mg) (DIS)						36	20
Potassium (K) (DIS)						26	17
Sodium (Na) (DIS)						102	86
Sulfate (SO4)	871	613 J	641	1191		913	502
Total Alkalinity As CaCO3						<1 UJ	<1

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	54.03	49.5	46.7	33.6	43.8	40.5
Arsenic III (dis)	64.9 J	43.1	44.3	30.2	45.5 J	47.2 J
Arsenic V (dis)	3.4 J	3 J	1.8 J	3.7 J	1.2	0.6 J
Cadmium (Cd) (DIS)	2.5	1.4	1.2 J	3.4	2.8	0.8
Copper (Cu) (DIS)	0.007	0.02	0.008	0.02	0.01	<0.004
Iron (Fe) (DIS)					34.4	18.4
Lead (Pb) (DIS)	0.08	0.1	0.06	0.2	0.07	0.07
Manganese (Mn) (DIS)					6	4.05
Zinc (Zn) (DIS)	15.4	11.8	14.5	30.06	24.3	10.8

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.4	3	1.7	2.02	1.7	1.5
pH	3.6	2.8	3.3	3.2	3.2	3.3
Depth To Water Level (ft)	13.8	13.2	14.5	10.05	13.3	14.4
Eh (millivolts)						334
pH (Fld)	4.5	4.8	5.4	4.3	4	5.3
SC (umhos/cm at 25 C) (Fld)	1576	1370	1336	2230	1641	1150
SC (umhos/cm at 25 C)	1620	1474	1428	2370	1925	1391
Total Suspended Solids				49 J		
TDS (Measured at 180 C)	1328	1099	1182	1965 J	1599	929
Water Temperature (C) (Fld)	13	12.1	12	15.5	15.5	14.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-19	DH-19	DH-19	DH-19	DH-19
Water	SAMPLE DATE	5/11/1999	11/16/1999	5/8/2000	11/13/2000	11/13/2000
	SAMPLE TIME	15:45	10:30	13:15	13:40	13:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	347-4900	L992055013	L000705016	L001897015	L001897034
	SAMPLE NUMBER	EHC-9905-109	EHC-9911-121	EHC-0005-120	EHC-0011-121	EHC-0011-179
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	<1 UJ	<1 J	<1	<1	<1
Calcium (Ca) (DIS)	62	63	64	61	58
Carbonate As CO3	<1 UJ	<1	<1	<1	<1
Chloride (Cl)	29	40	54	52	53
Magnesium (Mg) (DIS)	15	16	17	11	11
Potassium (K) (DIS)	12	13	11	10	11
Sodium (Na) (DIS)	63	61	59	50	48
Sulfate (SO4)	453 J	357	402	319	306
Total Alkalinity As CACO3	<1 UJ	<1 J	<1	<1	<1

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)				4.8	4.5
Arsenic (As) (DIS)	35.2	33	31	33	28
Arsenic III (dis)	37.04	26	29	29	28
Arsenic V (dis)	1.04	1.3	0.9	0.5	0.5
Cadmium (Cd) (DIS)	0.2	0.2	0.2 J	0.2	0.2
Copper (Cu) (DIS)	<0.004	<0.004 J	<0.004	<0.004 J	<0.004 J
Iron (Fe) (DIS)	13.9	15	16	12	13
Lead (Pb) (DIS)	0.02	0.02	0.02	0.03 J	0.008 J
Manganese (Mn) (DIS)	3.4	3.4	3.6	1.7	1.6
Zinc (Zn) (DIS)	6.6	7.5	7.6	4	4

**Nutrients: ppm unless noted**

Total Inorganic Carbon				13	
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	1.4	1.4	3.09	1.4	1.4
pH	3.4	4.1	3.6	3.3	3.3
Silicon+Silica (Si+SiO2)				77	75
Depth To Water Level (ft)	14.9	14.9	16.3	15.7	
Eh (millivolts)	329	318	387	401	401
pH (Fid)	5.4	5.2	5.4	5.2	4.8
SC (umhos/cm at 25 C) (Fid)	888	875	936	1040	1040
SC (umhos/cm at 25 C)	1040	920	1070	895	897
Total Suspended Solids		4.4			
TDS (Measured at 180 C)	717	715	748	610	723
Water Temperature (C) (Fid)	13.8	13.9	13	13	13

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-19R	DH-19R	DH-19R	DH-19R	DH-19R	DH-19R
Water	SAMPLE DATE	2/7/2001	5/8/2001	5/15/2001	11/15/2001	5/30/2002	11/16/2002
	SAMPLE TIME	15:05	10:05	09:30	13:40	15:20	08:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010183013	L010655013	L010699018	L011573002	L020396008	L020951013
	SAMPLE NUMBER	EHST-0102-112	EHC-0105-121	EHC-0105-234	EHC-0111-120	EHC-0205-125	EHC-0211-122
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	<1	<1	<1	<1
Calcium (Ca) (DIS)	136	64	51	45
Carbonate As CO3		<1	<1	<1
Chloride (Cl)	61	59	32	21
Magnesium (Mg) (DIS)	20	10	7.4	6.9
Potassium (K) (DIS)	14	10	7.4	7.5
Sodium (Na) (DIS)	72	49	40	37
Sulfate (SO4)	873	321	231	209
Total Alkalinity As CACO3	<1	<1	<1	<1

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		9	4.8	3.2	3
Antimony (Sb) (DIS)	0.02				
Arsenic (As) (DIS)	29	15	21	19	18
Arsenic III (dis)		9.2	20	12	13
Arsenic V (dis)		5.8	2	8	4
Cadmium (Cd) (DIS)	0.1	2.3	0.4	0.1	0.06
Copper (Cu) (DIS)	<0.005	0.2	0.02	0.01	0.02
Iron (Fe) (DIS)	14	15	9.6	6.6	6.9
Lead (Pb) (DIS)	<0.003	0.05	0.006 U	0.006	<0.005
Manganese (Mn) (DIS)	1.8	2.7	1.5	1.1	1
Mercury (Hg) (DIS)	0.0003				
Selenium (Se) (DIS)	0.03				
Thallium (Tl) (DIS)	0.4				
Zinc (Zn) (DIS)	4.7	7.3	3.7	2.4	2.1

**Nutrients: ppm unless noted**

Total Inorganic Carbon		20.6	21		
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**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential				227.9	155	
Oxygen (O) (DIS) (Fld)	1.03	2	1.8	0.3	0.4	0.5
pH			3.2	3.4	3.4	3.8
Silicon+Silica (Si+SiO2)			85	82	73	74
Depth To Water Level (ft)	16.2	15.8		15.8	15.9	15
Eh (millivolts)	350	427	468	462		
pH (Fld)	5.6	4.6	4.7	5.7	4.03	3.8
SC (umhos/cm at 25 C) (Fld)	820	1280	135	855	750	479
SC (umhos/cm at 25 C)			1345	961	746	605
Total Suspended Solids			13	12 U	11 J	145
TDS (Measured at 180 C)			1100	665	504	502

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-19R	DH-19R	DH-19R	DH-19R	DH-19R	DH-19R
Water	SAMPLE DATE	2/7/2001	5/8/2001	5/15/2001	11/15/2001	5/30/2002	11/16/2002
	SAMPLE TIME	15:05	10:05	09:30	13:40	15:20	08:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010183013	L010655013	L010699018	L011573002	L020396008	L020951013
	SAMPLE NUMBER	EHST-0102-112	EHC-0105-121	EHC-0105-234	EHC-0111-120	EHC-0205-125	EHC-0211-122
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fld-Lab: ppm unless noted**

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Salinity (G/KG) (Fld)							0.1
Turbidity (NTU) (Fld)							27
Water Temperature (C) (Fld)	13.5	13.4	13.4	14	11.7		12.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-19R	DH-19R	DH-19R	DH-19R	DH-19R	DH-19R
Water	SAMPLE DATE	6/1/2003	10/26/2003	5/28/2004	10/28/2004	5/19/2005	11/16/2005
	SAMPLE TIME	08:00	11:20	10:35	13:00	14:10	10:40
	LAB	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel
	LAB NUMBER	L030244001	L030600004	H04050224-006	H04100202-011	C05050744-014	H05110136-006
	SAMPLE NUMBER	AEH-0306-140	AEH-0310-362	AEH-0405-226	AEH-0411-152	AEH-0505-215	AEH-0511-177
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	<2	<2	<4	<4	<1	
Calcium (Ca) (DIS)	40	46	33	50	56	48
Carbonate As CO3	<2	<2				
Chloride (Cl)	19	57	20 UJ	20	13	19
Magnesium (Mg) (DIS)	7.1	8.3	6	10	9	10
Potassium (K) (DIS)	5.8	7.8	6	8	7	7 J-
Sodium (Na) (DIS)	32	40	29	35	46	41 J-
Sulfate (SO4)	249	223	230 J	285	297	283
Total Acidity As CACO3			47	50		55
Total Alkalinity As CACO3	<2	<2	<4	<4	<1	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	16	16	15.08	16.5	14.3	14.84
Arsenic III (dis)	13	12	12	7.2	3	11.7
Arsenic V (dis)	3	2	2.7	4.8	9.2	5.7
Cadmium (Cd) (DIS)	0.06	0.04	0.027	0.07	0.7	0.184
Copper (Cu) (DIS)	0.02	<0.004	<0.004 J	0.461	0.534	0.316
Iron (Fe) (DIS)	7.5	8.6	6.89	11.2	5.05	8.4
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	0.012	<0.005
Manganese (Mn) (DIS)	1	1.1	0.87	0.92	1.17	1.01
Zinc (Zn) (DIS)	2.2	2.4	1.66	1.71	2.52	2.23

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.01	0.42	1.21	0.07	0.17	1.52
pH	3.8	3.5	3.9	4.5	4.42	4.3
Depth To Water Level (ft)	15.4	16.19	16.27	14.8	15.99	15.32
pH (Fld)	3.9	4.29	6.18 R	4.22	3.94	4.24
SC (umhos/cm at 25 C) (Fld)	507	600	530	625	726	721
SC (umhos/cm at 25 C)	693	700	491	563	678	600
Total Suspended Solids	12	10	50	20	<10	27 J
TDS (Measured at 180 C)	521	453	398	444 J	524	487
TDS - Calculated					496	
Salinity (G/KG) (Fld)	0.2	0.2				
Turbidity (NTU) (Fld)	2	21				
Water Temperature (C) (Fld)	12.3	13.6	12.7	13.8	11.16	17.02

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-19R	DH-19R	DH-19R	DH-19R	DH-19R	DH-19R
Water	SAMPLE DATE	5/10/2006	11/17/2006	5/17/2007	12/11/2007	12/11/2007	5/14/2008
	SAMPLE TIME	13:25	15:39	15:15	10:40	11:05	13:15
	LAB	ELI-Hel	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06050126-001	H06110160-004	H07050209-006	H07120112-002	H07120112-003	H08050243-012
	SAMPLE NUMBER	AEH-0605-214	AEH-0611-212	AEH-0705-174	AEH-0711-226	AEH-0711-227	AEH-0805-248
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)							7
Calcium (Ca) (DIS)	38	44	46	30	31		65 J+
Chloride (Cl)	11	12	11	10	10		9
Magnesium (Mg) (DIS)	7	9	10	6	6		13 J+
Potassium (K) (DIS)	5	9	5	5	4		6
Sodium (Na) (DIS)	29	29	28	21	20		24
Sulfate (SO4)	175	180	256	125	131		270
Total Acidity As CaCO3	40	44	43	26	28		
Total Alkalinity As CaCO3							6

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)				0.0576	0.0545		0.0646
Selenium-VI (dis)				0.0105	0.0086		0.0123
Aluminum (Al) (DIS)							2.3
Antimony (Sb) (DIS)							0.035
Arsenic (As) (DIS)	13.56 J	13.47	15.35	14.86	14.78		12.68
Arsenic III (dis)	8.8	11.2	4.84	12.7	13.7		7.44
Arsenic V (dis)	3.5	6.6	2.8	2.22	1.82		3.33
Barium (Ba) (DIS)							<0.1
Beryllium (Be) (DIS)							<0.001
Cadmium (Cd) (DIS)	0.119	0.24	0.17	0.077	0.077		0.242 J+
Chromium (Cr) (DIS)							<0.001
Cobalt (Co) (DIS)							0.02 J+
Copper (Cu) (DIS)	0.181	0.254	0.047	0.055	0.052		0.12
Iron (Fe) (DIS)	4.93	6.18	6.98	3.7	3.79		5.65
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
Manganese (Mn) (DIS)	0.79	1.08	1.26	0.72	0.71		1.36
Mercury (Hg) (DIS)							<0.006
Nickel (Ni) (DIS)							0.02
Selenium (Se) (DIS)				0.07	0.068		0.082
Silver (Ag) (DIS)							<0.005
Thallium (Tl) (DIS)							0.467
Vanadium (V) (DIS)							<0.01
Zinc (Zn) (DIS)	1.38	2.43	2.03	1.07	1.07		2.05

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential		209.8					
Oxygen (O) (DIS) (Fld)	0.71	0.78	0.2	0.42			0.42
pH	4	3.8	4.8	4.5	4.5		5.1
Depth To Water Level (ft)	15.32	13.69	16.55	15.26			16.13
pH (Fld)	4.54	4.49	4.81	5.07			5.26

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-19R	DH-19R	DH-19R	DH-19R	DH-19R	DH-19R
Water	SAMPLE DATE	5/10/2006	11/17/2006	5/17/2007	12/11/2007	12/11/2007	5/14/2008
	SAMPLE TIME	13:25	15:39	15:15	10:40	11:05	13:15
	LAB	Hydro	Hydrometrics	Hydrometrics	Hydrometrics	ELI	Hydrometrics
	LAB NUMBER	H06050126-001	H06110160-004	H07050209-006	H07120112-002	H07120112-003	H08050243-012
	SAMPLE NUMBER	AEH-0605-214	AEH-0611-212	AEH-0705-174	AEH-0711-226	AEH-0711-227	AEH-0805-248
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)	489	646	631	430		603
SC (umhos/cm at 25 C)	541	590	528	429	430	607
Total Suspended Solids	18 J	11	27	11	10	128 J+
TDS (Measured at 180 C)	383	460	441	329	329	518
Water Temperature (C) (Fld)	11.6	12.29	11.73	10.7		12.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-19R	DH-19R	DH-2	DH-2	DH-2
Water	SAMPLE DATE	11/13/2008	5/20/2009	1/18/1985	1/18/1985	4/10/1985
	SAMPLE TIME	13:03	16:15	00:00	00:00	00:00
	LAB	ELI	ELI	TSC-SLC	CAL	TSC-SLC
	LAB NUMBER	H08110162-008	H09050289-009	85-676	S5755	85-2474
	SAMPLE NUMBER	AEH-0811-244	AEH-0905-277	AEH-8501-117	AEH-8501-117	AEH-8504-313
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS				Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	4 UJ	10 UJ	294	305	
Calcium (Ca) (DIS)	30	38	65	68.1	
Chloride (Cl)	10	9	6.6	17	
Magnesium (Mg) (DIS)	7	8	17	19.4	
Potassium (K) (DIS)	6	5	6.7	0.7	
Sodium (Na) (DIS)	23	22	34	30.4	
Sulfate (SO4)	170	170	50.3	55	
Total Alkalinity As CaCO3	3 UJ	8 UJ	241	250	

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	0.021				
Selenium-VI (DIS)	0.066				
Aluminum (Al) (DIS)	1.3	1.3		30.5	
Antimony (Sb) (DIS)	0.03	0.042		<0.01	
Arsenic (As) (DIS)	13.8	12.7	0.008	0.03	0.008
Arsenic III (DIS)	5.77				
Arsenic V (DIS)	10.1 J				
Barium (Ba) (DIS)	<0.1	<0.1		0.1	
Beryllium (Be) (DIS)	<0.001	<0.001		0.007	
Cadmium (Cd) (DIS)	0.105	0.191	<0.001	<0.004	0.001
Chromium (Cr) (DIS)	<0.001	<0.001		0.02	
Cobalt (Co) (DIS)	0.01	0.0131		<0.007	
Copper (Cu) (DIS)	0.037	0.626	<0.008	0.06	
Gold (Au) (DIS)		<0.01			
Iron (Fe) (DIS)	3.83	2.32	0.03	18.3	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	0.05	<0.005
Manganese (Mn) (DIS)	0.74	0.9	0.02	0.2	
Mercury (Hg) (DIS)	<0.006	0.0002		<0.0002	
Nickel (Ni) (DIS)	0.01	0.01		0.03	
Selenium (Se) (DIS)	0.087	0.127		<0.002	
Silver (Ag) (DIS)	<0.005	<0.005		<0.003	
Tellurium (Te) (DIS)		<0.1			
Thallium (Tl) (DIS)	0.373	0.393		0.002	
Tin (Sn) (DIS)				<0.04	
Vanadium (V) (DIS)	<0.01	<0.01		0.03	
Zinc (Zn) (DIS)	1.11	1.24	0.1	0.3	0.08

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.58	0.54			
pH	5.3	5.7	7.7	7.9	7.3
Depth To Water Level (ft)	15.5	15.55			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-19R	DH-19R	DH-2	DH-2	DH-2
Water	SAMPLE DATE	11/13/2008	5/20/2009	1/18/1985	1/18/1985	4/10/1985
	SAMPLE TIME	13:03	16:15	00:00	00:00	00:00
	LAB	Hydrometrics	Hydrometrics	TSC-SLC	CAL	TSC-SLC
	LAB NUMBER	H08110162-008	H09050289-009	85-676	S5755	85-2474
	SAMPLE NUMBER	AEH-0811-244	AEH-0905-277	AEH-8501-117	AEH-8501-117	AEH-8504-313
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS				Split	
<b>Physical/Fld-Lab: ppm unless noted</b>						
	pH (Fld)	5.02	5.16			
	SC (umhos/cm at 25 C) (Fld)	445	465	570.3		586.4
	SC (umhos/cm at 25 C)	424	449	630	380	566
	Total Suspended Solids	45	13	385	29	
	TDS (Measured at 180 C)	357	361	440	1500	404
	Water Temperature (C) (Fld)	12.04	11.2			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-2	DH-2	DH-2	DH-2	DH-2	DH-2
Water	SAMPLE DATE	6/12/1985	8/13/1985	11/18/1986	11/18/1986	6/3/1987	6/3/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	RMAL	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	85-4511	85-6292	8611-22	86-7786	87-4009	87-4010
	SAMPLE NUMBER	AEH-8506-510	AEH-8508-718	AEH-8611-22	AEH-8611-22	AEH-8706-04	AEH-8706-35
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Split			Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	287			271	300	
Calcium (Ca) (DIS)	66		73.6		55.5 M	
Carbonate As CO3					<1	
Chloride (Cl)	13.5				13 M	
Magnesium (Mg) (DIS)	17.2		17.3		15.5	
Potassium (K) (DIS)	8.1		7		6.7	
Sodium (Na) (DIS)	44		30.4		33	
Sulfate (SO4)	48.9			53	50 M	
Total Alkalinity As CaCO3	235					

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.02	0.007	<0.01	0.01	0.01 M	0.007 M
Arsenic III (dis)				0.03 M	0.04	0.04
Arsenic V (dis)				0.008	0.01	0.01
Cadmium (Cd) (DIS)	0.003	0.003	<0.005	<0.001	<0.001 M	<0.001
Copper (Cu) (DIS)	<0.008		<0.004		<0.008	<0.008
Iron (Fe +2) (TOT)				0.08	<0.01	<0.01
Iron (Fe) (DIS)	0.05		<0.03	0.01	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.01		<0.004		<0.003	<0.003
Zinc (Zn) (DIS)	0.1	0.1	<0.002	<0.008 M	<0.008 M	0.02 M

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)				6 M	4.4	4.4
pH	7.7	6.5	7.9	7.9	8.02	
Depth To Water Level (ft)				56.9	60.4	60.4
pH (Fld)				7.08	7.4	7.6
SC (umhos/cm at 25 C) (Fld)	584.8	574.9		576	576.5	571.3
SC (umhos/cm at 25 C)	587	581	580	580	560	
Total Suspended Solids	1590					
TDS (Measured at 180 C)	394	360		532	350 M	
Water Temperature (C) (Fld)				8.5	12.3 M	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-2	DH-2	DH-2	DH-2	DH-2	DH-2
Water	SAMPLE DATE	11/24/1987	5/3/1988	12/9/1988	4/11/1989	4/11/1989	10/11/1989
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-10788	88-3200	89-21	89-475	89-490	89-793
	SAMPLE NUMBER	AEH-8711-217	AEH-8804-301	AEH-8812-122	AEH-8904-201	AEH-8904-246	AEH-8910-401
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	255 M	224				
Calcium (Ca) (DIS)	70	76.5 J				
Carbonate As CO3	9.6	<1				
Chloride (Cl)	15	13	15	15		13.5
Magnesium (Mg) (DIS)	17	16.7				
Potassium (K) (DIS)	6.8	6.8				
Sodium (Na) (DIS)	24.1	26.4				
Sulfate (SO4)	61	51 J	52	53		51
Total Alkalinity As CaCO3	225					

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.009 M	0.01 J	0.009	0.007 J	0.01 J	0.008
Arsenic III (dis)	<0.008	0.6 A	0.03	<0.001	<0.008	<0.008
Arsenic V (dis)	0.07	0.07	0.02	0.02 J	0.03 J	0.02 J
Cadmium (Cd) (DIS)	0.001	0.003	<0.001	<0.002	<0.002	0.001
Copper (Cu) (DIS)	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Iron (Fe +2) (TOT)	<0.01	<0.01	<0.01	<0.01	<0.01	
Iron (Fe) (DIS)	0.03	<0.02				
Lead (Pb) (DIS)	<0.005	<0.005	<0.005 UJ	<0.02	<0.02	<0.005 UJ
Manganese (Mn) (DIS)	0.008					
Zinc (Zn) (DIS)	0.02	0.02	<0.008	0.03	<0.008	<0.008

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.1	3.5	6.04	5.4		5.6
pH	8.3	7.7	7.4	7.2		7.7
Depth To Water Level (ft)	59.5	61.3	60.8	60.4		57.5
pH (Fld)	6.6 M	7.1	7.2	5.6		7.1
SC (umhos/cm at 25 C) (Fld)	577.6	570.9	574.3	570.9		548.5
SC (umhos/cm at 25 C)	610	600	340	550		503
Total Suspended Solids	13.2					
TDS (Measured at 180 C)	410.8 M	482 J	366	355 J		354 J
Water Temperature (C) (Fld)	9	8.8	6.9	9		11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-2	DH-2	DH-2	DH-2	DH-2	DH-2
Water	SAMPLE DATE	4/27/1990	4/27/1990	11/27/1990	5/3/1991	5/3/1991	11/12/1991
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	12:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	90-1031	90-1039	90-2222	91-2665	91-2667	91-3614
	SAMPLE NUMBER	AEH-9005-401	AEH-9005-426	AEH-9011-708	AEH-9105-135	AEH-9105-137	AEH-9111-341
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	14.7		16 J	14	14	11
Sulfate (SO4)	52.8		52 J	37	38	59

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.01	0.02	0.01	0.01	0.01	0.008
Arsenic III (dis)	<0.008	0.009	0.05	0.05 UJ	<0.004 UJ	0.03 U
Arsenic V (dis)	0.02 U	0.02 U	0.005	0.02 M	0.03 UJ	0.04 U
Cadmium (Cd) (DIS)	0.001	0.001	<0.001	0.001	0.001	<0.001
Copper (Cu) (DIS)	<0.008	<0.008	<0.008	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005 UJ	<0.005 UJ	<0.005 J
Zinc (Zn) (DIS)	0.008 U	0.01 U		<0.008	<0.008	0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.4	4.4	5.1	5	5	5.9
pH	7.5		8	8	8	7.4
Depth To Water Level (ft)	59.7	59.7	58.7	61.09	61.09	56.2
pH (Fld)	6.7	6.7	7.2	7.4	7.4	7.4
SC (umhos/cm at 25 C) (Fld)	574.5		561.7	571.3	573.2	542
SC (umhos/cm at 25 C)	590		550	590	590	520
TDS (Measured at 180 C)	368		365 J	419	434	366 J
Water Temperature (C) (Fld)	9.7	9.7	8.3	10.4	10.4	9.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-2	DH-2	DH-2	DH-2	DH-2	DH-2
Water	SAMPLE DATE	4/14/1992	11/11/1992	4/30/1993	11/3/1993	11/3/1993	5/4/1994
	SAMPLE TIME	16:30	15:00	15:00	10:45	14:30	12:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	92-4290	92-6771	93-7738	93-9150	93-9152	94-1098
	SAMPLE NUMBER	AEH-9204-120	EHC-9211-142	EHC-9305-126	EHC-9311-161	EHC-9311-124	EHC-9405-129
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)		76 J	42 J			
Chloride (Cl)	16 J	19 J	21	21 J	20 J	20
Magnesium (Mg) (Dis)		18	17 J			
Potassium (K) (Dis)		<5	6.3			
Sodium (Na) (Dis)		31	30 J			
Sulfate (SO4)	59 J	60 J	50	62 J	68 J	71
Total Hardness As CaCO3			175			

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.009	0.009 J	0.008	0.008	0.007	0.008 J
Arsenic III (dis)	0.008	<0.004	<0.004 J	<0.004	<0.004	<0.004
Arsenic V (dis)	<0.004	0.02 UJ	0.02 UJ	0.008 J	0.01 J	0.004
Cadmium (Cd) (DIS)	0.001	0.001	0.001 UJ	0.001	<0.001	0.001
Copper (Cu) (DIS)	<0.004	0.004	<0.004	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	0.009	<0.006	0.009	0.02	0.01	0.008

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.9	5.1	5	5.8	5.8	5.5
pH	7.6	8.2				
Depth To Water Level (ft)	58.6	57.5	58.9	57.2	57.2	59
pH (Fld)	7.5	7.3	7.07	7.4	7.8	7.5
SC (umhos/cm at 25 C) (Fld)	563	590	595	581	586	604
SC (umhos/cm at 25 C)	580	540	550 J	598 J	485 J	590
TDS (Measured at 180 C)	381 J	400	406	393	398	392
Water Temperature (C) (Fld)	11.3	8.9	8.9	9.4	9.4	10.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-2	DH-2	DH-2	DH-2	DH-2	DH-2
Water	SAMPLE DATE	11/9/1994	5/5/1995	11/6/1995	11/6/1995	5/7/1996	11/6/1996
	SAMPLE TIME	13:00	09:45	14:00	14:15	09:00	10:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-3261	95-4452	95-6090	95-6101	96-6707	96-7736
	SAMPLE NUMBER	EHC-9411-129	EHC-9505-129	EHC-9511-131	EHC-9511-163	EHC-9605-117	EHC-9611-117
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	21	21	21	21	25	24
	Sulfate (SO4)	55	69	64	67	70	59 J
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.007	0.007	0.006	0.006	<0.005	0.009
	Arsenic III (dis)	0.005 U	<0.004	<0.004	<0.004	<0.005 UJ	<0.004
	Arsenic V (dis)	0.01 UJ	0.004	0.01 J	0.007 J	0.01 J	0.007
	Cadmium (Cd) (DIS)	0.001	0.001	<0.001	0.001	<0.005	<0.001
	Copper (Cu) (DIS)	0.004	0.006	<0.004	<0.004	<0.004	<0.004
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	0.008	0.01	0.006	<0.006	<0.02	<0.008
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	5.4	5.2	5.08	5.2	4.9	5.4
	pH		7.2	7.6	7.5	7.3	7.9
	Depth To Water Level (ft)	58.09	59.9	58.01	58.01	59.3	58.8
	pH (Fld)	7.7	7.7	7.08	7.06	6.3	7.5
	SC (umhos/cm at 25 C) (Fld)	597	610	600	600	574	642
	SC (umhos/cm at 25 C)	599	602	605 J	610 J	520	621
	TDS (Measured at 180 C)	377	377	347	356	391	420
	Water Temperature (C) (Fld)	9.3	9.9	8.9	8.9	9.2	8.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-2	DH-2	DH-2	DH-2	DH-2	DH-2
Water	SAMPLE DATE	5/2/1997	5/2/1997	11/3/1997	11/3/1997	5/4/1998	5/4/1998
	SAMPLE TIME	09:40	09:55	10:45	10:50	09:30	09:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	97-903	97-923	187-2665	187-2672	260-3755	261-3772
	SAMPLE NUMBER	EHC-9705-116	EHC-9705-141	EHC-9711-117	EHC-9711-146	EHC-9805-118	EHC-9805-145
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)					283	283
	Calcium (Ca) (DIS)					72	73
	Chloride (Cl)	21	20	21	22	20	20
	Magnesium (Mg) (DIS)					17	17
	Potassium (K) (DIS)					7 J	7 J
	Sodium (Na) (DIS)					29	29
	Sulfate (SO4)	50	53	54	56	50	50
	Total Alkalinity As CaCO3					232	232
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.009	0.009	0.006	0.005	0.007	0.008
	Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Arsenic V (dis)	0.007	0.005	0.006	0.007	0.008	0.009
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
	Iron (Fe) (DIS)					<0.05	<0.05
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)					<0.02	<0.02
	Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02 J	0.02
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	5.7	5.7	4.7	4.6	5.6	5.6
	pH	7.3	7.5	7.6	7.4	7.5	7.6
	Depth To Water Level (ft)	59.3	59.3	56.2	56.2	59.7	
	pH (Fld)	8.6	8.6	7.2	7.3	6.9	6.9
	SC (umhos/cm at 25 C) (Fld)	582	587	622	618	613	615
	SC (umhos/cm at 25 C)	610	602	608	609	605	607
	Total Suspended Solids			2	2		
	TDS (Measured at 180 C)	420	402	401	412	430	416
	Water Temperature (C) (Fld)	8.7	8.7	8.7	8.6	9.7	9.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-2	DH-2	DH-2	DH-2	DH-2	DH-2
Water	SAMPLE DATE	11/16/1998	11/16/1998	5/7/1999	11/8/1999	5/1/2000	11/6/2000
	SAMPLE TIME	16:30	16:45	09:20	14:45	15:10	12:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	310-4400	310-4413	346-4871	L992007013	L000703009	L001873021
	SAMPLE NUMBER	EHC-9811-117	EHC-9811-145	EHC-9905-117	EHC-9911-131	EHC-0005-130	EHC-0011-123
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	292	292	290 J	285	298	289
Calcium (Ca) (DIS)	71	68	69	72	75	69
Carbonate As CO3			<1 UJ	<1	<1	<1
Chloride (Cl)	19	20	13	19 J	16	15 J
Magnesium (Mg) (DIS)	17	16	17	17	18	17
Potassium (K) (DIS)	6.5	6.1	8	6.3	6.6	6
Sodium (Na) (DIS)	30	27	34	27	28	25
Sulfate (SO4)	56	53	53	50	38	50 J
Total Alkalinity As CACO3	239	239	238 J	234	244	237

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)						<0.01 J
Arsenic (As) (DIS)	0.01	0.009	0.006	0.007	0.04	<0.005
Arsenic III (dis)	0.009 U	<0.005	<0.005	0.005	0.03 U	<0.02
Arsenic V (dis)	0.01	0.009	0.01	0.01	0.02 U	0.02 U
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.04 J	<0.004	<0.004 J
Iron (Fe) (DIS)	0.05 J	<0.02 J	0.03 UJ	<0.02	<0.02	<0.02 J
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02 J	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.2	4.2	5.06	4.9	6.06	12.9
pH	7.5	7.6	7.7	7.8	7.6	7.7
Silicon+Silica (Si+SiO2)						41
Depth To Water Level (ft)	56.2		58.03	57.4	59.06	59
Eh (millivolts)	448	448	439	468	341	264
pH (Fld)	7.7	7.7	7.7	7.8	7.3	7.4
SC (umhos/cm at 25 C) (Fld)	624	624	639	596	611	652
SC (umhos/cm at 25 C)	602	609	599	604	582	606
Total Suspended Solids	1	<1		1.4 J		
TDS (Measured at 180 C)	411	401	410	479 J	387	386
Water Temperature (C) (Fld)	9.1	9.1	9.6	10	11.5	9.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-2	DH-2	DH-2	DH-2	DH-2	DH-2
Water	SAMPLE DATE	5/9/2001	11/15/2001	5/31/2002	11/15/2002	6/4/2003	10/24/2003
	SAMPLE TIME	10:35	15:50	08:00	11:30	16:30	14:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010691025	L011573005	L020412001	L020950008	L030256018	L030598011
	SAMPLE NUMBER	EHC-0105-132	EHC-0111-130	EHC-0205-135	EHC-0211-133	AEH-0306-216	AEH-0310-329
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	293	248	303	307	305	293
Calcium (Ca) (DIS)	75	73	74	81	71	77
Carbonate As CO3		13	<1	<1	<2	<2
Chloride (Cl)	16	18	16	16 J	70	14
Magnesium (Mg) (DIS)	18	17	17	19	17	18
Potassium (K) (DIS)	6.8	6.7	6.4	7.2	7	6.5
Sodium (Na) (DIS)	28	27	26	29	28	29
Sulfate (SO4)	48	66	49	45	36	47
Total Alkalinity As CaCO3	240	225	248	252	250	240

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05	<0.05	<0.05		
Arsenic (As) (DIS)	0.02 U	0.01 U	0.009	0.007	0.008	0.006
Arsenic III (dis)	0.02 U	0.01 U	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	<0.005	<0.005	0.01	0.007	<0.005	0.006
Cadmium (Cd) (DIS)	<0.001	0.002	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.05	<0.02	<0.02	<0.02	<0.02	<0.03
Lead (Pb) (DIS)	<0.005	0.02 U	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential		-7.9	-5.4			
Oxygen (O) (DIS) (Fld)	7.1	4.2	5.2	5.9	5.5	3.82
pH	8.1	8.7	7.1	7.4	7.7	8.1
Silicon+Silica (Si+SiO2)	48	43	44	44		
Depth To Water Level (ft)	59.7	57.3	59.4	59.07	59.7	58.96
Eh (millivolts)	436	226				
pH (Fld)	7.2	7	6.5	6.7	6.6	7.16
SC (umhos/cm at 25 C) (Fld)	496	608	685	489	475	598
SC (umhos/cm at 25 C)	597	500	598	602	598	600
Total Suspended Solids	<1	17 U	2.1 J	1.8 J	6	4.6
TDS (Measured at 180 C)	401	405	396	399 J	392	386
Salinity (G/KG) (Fld)				0.1	0.1	0.2
Turbidity (NTU) (Fld)				3	1	8
Water Temperature (C) (Fld)	10.4	11.3	10.2	10.7	12.2	9.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-2	DH-2	DH-2	DH-2	DH-2	DH-2
Water	SAMPLE DATE	5/24/2004	11/1/2004	5/12/2005	11/11/2005	5/10/2006	11/8/2006
	SAMPLE TIME	16:10	11:10	12:15	10:15	09:50	15:30
	LAB	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel	ELI
	LAB NUMBER	H04050162-011	H04110018-002	C05050485-007	H05110105-005	H06050119-004	H06110071-007
	SAMPLE NUMBER	AEH-0405-161	AEH-0411-172	AEH-0505-133	AEH-0511-159	AEH-0605-206	AEH-0611-129
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	310	290	301	280	310	290
Calcium (Ca) (DIS)	77	69	79	76	76 J+	74
Chloride (Cl)	15 J	20 UJ	14	20	17	21
Magnesium (Mg) (DIS)	17	15	19	18	17 J-	17
Potassium (K) (DIS)	7	6	6	7	7	7
Sodium (Na) (DIS)	25	22	27	28	26	27
Sulfate (SO4)	47	47	44	49	45	59
Total Alkalinity As CaCO3	250	240	247	230	250	240

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.008	0.009	0.007 UJ	0.007	0.008 J	0.006
Arsenic III (dis)	<0.001		<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	0.011		0.008	0.006	<0.005	0.008
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02 J	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02
Arsenic III (dis)		<0.001				
Arsenic V (dis)		0.0076				

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential						74.3
Oxygen (O) (DIS) (Fld)	5.08	9.11	12.2	4.54	5.68	4.61
pH	7.6	7.3	7.77	7.3	7.3	7.6
Depth To Water Level (ft)	60.05	58.48	60.08	58.38	59.62	57.1
pH (Fld)	6.57	7.1	7.34	7.16	7.26	7.1
SC (umhos/cm at 25 C) (Fld)	766	587	589	626	579	613
SC (umhos/cm at 25 C)	517	477	590	610	523	597
Total Suspended Solids	11 J	81 J	20	<10	<10 J	<10
TDS (Measured at 180 C)	388	372	370	368	377	381
TDS - Calculated			380			
Salinity (G/KG) (Fld)	0.3					
Water Temperature (C) (Fld)	10.2	10	10.3	11.98	12.85	10.36

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-2	DH-2	DH-2	DH-2	DH-2	DH-2
Water	SAMPLE DATE	3/29/2007	5/11/2007	7/27/2007	9/6/2007	11/27/2007	1/31/2008
	SAMPLE TIME	12:40	11:15	13:00	00:00	11:25	11:25
	LAB	ELI	ELI	ELI	Hydrometrics	ELI	ELI
	LAB NUMBER	H07030242-008	H07050137-003	H07070291-009	AEH-0709-DH2	H07110197-005	H08010244-005
	SAMPLE NUMBER	AEH-0703-132	AEH-0705-136	AEH-0707-144	AEH-0709-DH2	AEH-0711-160	AEH-0801-127
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION				o Samp-Low SWL		
	REMARKS				No Sample		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	300	300	300			310
Bicarbonate (HCO3) (dis)					300	
Calcium (Ca) (DIS)	87	76	75		75	73
Chloride (Cl)	20	19	19		19	17
Magnesium (Mg) (DIS)	20	17	17		17	16
Potassium (K) (DIS)	7	7	7		6	6
Sodium (Na) (DIS)	28	30	28		27	26
Sulfate (SO4)	51	47	47		50	51
Total Alkalinity As CaCO3	250	250	250		250	250

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)					<0.005	
Selenium-VI (DIS)					<0.005	
Arsenic (As) (DIS)	0.006	0.006	0.007 UJ		0.007	0.008
Arsenic III (DIS)	<0.005	<0.001			<0.001	
Arsenic V (DIS)	0.007	0.0077			0.0075	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001		<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004		<0.001	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02		<0.01	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005		<0.003	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01		<0.01	<0.01
Selenium (Se) (DIS)	<0.005	<0.005	<0.005		<0.003	<0.005
Zinc (Zn) (DIS)	<0.02	<0.01	<0.01		<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	117.9					
Oxygen (O) (DIS) (Fid)	4.17	4.34	4.38		4.5	3.6
pH	7.7	7.5	7.7		7.2	7.5
Depth To Water Level (ft)	59.08	59.15	57.72	57.45	57.83	58.99
pH (Fid)	7.13	7.18	7.14		7.26	7.09
SC (umhos/cm at 25 C) (Fid)	612	603	604		541	633
SC (umhos/cm at 25 C)	608	572	597		602	612
Total Suspended Solids	<10	<10	<10		<10	<10
TDS (Measured at 180 C)	386	399	375		385	381
Water Temperature (C) (Fid)	9.76	10.27	10.71		9.67	9.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-2	DH-2	DH-2	DH-2	DH-2
Water	SAMPLE DATE	5/1/2008	7/16/2008	11/3/2008	2/4/2009	5/11/2009
	SAMPLE TIME	17:20	08:50	16:34	11:20	11:45
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08050028-006	H08070334-007	H08110021-009	H09020036-014	H09050178-003
	SAMPLE NUMBER	AEH-0805-136	AEH-0807-135	AEH-0811-155	AEH-0902-133	AEH-0905-164
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	310	300	310	320	300
Calcium (Ca) (DIS)	78	71	82	68	72
Chloride (Cl)	17	16	16	15	14
Magnesium (Mg) (DIS)	18	15	19	15	17
Potassium (K) (DIS)	6	6	7	6	7
Sodium (Na) (DIS)	24	26	26	26	26
Sulfate (SO4)	42	44	44	40	42
Total Alkalinity As CaCO3	250	250	250	260	250

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005		<0.005		
Selenium-VI (DIS)	<0.005		<0.005		
Aluminum (Al) (DIS)	<0.1		<0.1		<0.1
Antimony (Sb) (DIS)	<0.005		<0.005		<0.003
Arsenic (As) (DIS)	0.006	0.007	0.006	0.006	0.007
Arsenic III (DIS)	<0.005		<0.005		
Arsenic V (DIS)	0.0052		0.0076 J-		
Barium (Ba) (DIS)	<0.1		<0.1		<0.1
Beryllium (Be) (DIS)	<0.001		<0.001		<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001		<0.001		<0.001
Cobalt (Co) (DIS)	<0.01		<0.01		<0.0005
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.001
Gold (Au) (DIS)					<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.006		<0.006		<0.0001
Nickel (Ni) (DIS)	<0.01		<0.01		<0.01
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	0.006
Silver (Ag) (DIS)	<0.005		<0.005		<0.005 R
Tellurium (Te) (DIS)					<0.1
Thallium (Tl) (DIS)	<0.002		<0.002		<0.001
Vanadium (V) (DIS)	<0.01		<0.01		<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.02	<0.02	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.94	5.68	4.03	4.34	5.38
pH	7.6	7.6	7.7	7.3	7.4
Depth To Water Level (ft)	59.4	59.52	57.76	59.39	59.66
pH (Fld)	6.95	6.92	6.83	7.05	7.13

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-2	DH-2	DH-2	DH-2	DH-2
Water	SAMPLE DATE	5/1/2008	7/16/2008	11/3/2008	2/4/2009	5/11/2009
	SAMPLE TIME	17:20	08:50	16:34	11:20	11:45
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H08050028-006	H08070334-007	H08110021-009	H09020036-014	H09050178-003
	SAMPLE NUMBER	AEH-0805-136	AEH-0807-135	AEH-0811-155	AEH-0902-133	AEH-0905-164
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	611	610	631	607	584
SC (umhos/cm at 25 C)	583	576	598	598	596
Total Suspended Solids	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	376	394	372	338	368
Water Temperature (C) (Fid)	10	10.4	9.94	9.9	10.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-20	DH-20	DH-20	DH-20	DH-20	DH-20
Water	SAMPLE DATE	5/12/1987	5/12/1987	5/12/1987	5/12/1987	6/30/1987	8/11/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	CHMTC	TSC-SLC	CHMTC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8705-103	87-3318	8705-31	87-3315	87-5181	87-6639
	SAMPLE NUMBER	AEH-8705-103	AEH-8705-103	AEH-8705-31	AEH-8705-31	AEH-8707-110	AEH-8708-08
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate	Field Duplicate	Split			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)				308		282
Calcium (Ca) (DIS)	67.6		68.2	65.4		54
Carbonate As CO3				<1		<1
Chloride (Cl)			15	4 M		5
Magnesium (Mg) (DIS)	14.5		14.7	19.1		13.6
Potassium (K) (DIS)	3.3		3.3	3.6		3.7
Sodium (Na) (DIS)	16.2		16.5	16.2		15.6
Sulfate (SO4)			135	7	<5	27

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.07	0.1	0.1	0.1	0.1	0.1
Arsenic III (dis)		0.09		0.1		0.1
Arsenic V (dis)		0.01		0.01		0.04
Cadmium (Cd) (DIS)	<0.004	0.003	0.008	0.001		<0.001
Copper (Cu) (DIS)	<0.02	<0.008	0.02	<0.008		<0.008
Iron (Fe +2) (TOT)		2.9		2.8		
Iron (Fe) (DIS)	3.01	3.6	2.6	3.4		5.1
Lead (Pb) (DIS)	0.03	<0.005 M	0.03	<0.005 M		0.005
Manganese (Mn) (DIS)	3.5	3.9	3.5	3.9		3.5
Zinc (Zn) (DIS)	<0.02	<0.008	0.03	<0.008		0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)		6		6		0.9
pH				7.8	7.8	7.4
Depth To Water Level (ft)		16.9		16.9		16
pH (Fid)		7.08		6.8		6.6
SC (umhos/cm at 25 C) (Fid)		483.2		479		365.3
SC (umhos/cm at 25 C)				470	510	480
TDS (Measured at 180 C)			255	302	286	293
Water Temperature (C) (Fid)		11.5		11.5		9.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-20	DH-20	DH-20	DH-20	DH-20	DH-20
Water	SAMPLE DATE	8/11/1987	11/23/1987	4/29/1988	12/15/1988	4/12/1989	10/18/1989
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-6651	87-10784	88-3128	89-9	89-485	89-822
	SAMPLE NUMBER	AEH-8708-45	AEH-8711-235	AEH-8804-319	AEH-8812-138	AEH-8904-217	AEH-8910-417
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		296	236			
Calcium (Ca) (DIS)		62	69			
Carbonate As CO3		<1	<1			
Chloride (Cl)		4	5.5	5	5.5	4.2
Magnesium (Mg) (DIS)		13.5	12			
Potassium (K) (DIS)		4.4	4			
Sodium (Na) (DIS)		15.7	14.8			
Sulfate (SO4)		<4	<2	<2 R	<2	<2

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.1	0.1	0.1	0.1	0.1 J	0.1
Arsenic III (dis)	0.08	0.08	0.04	0.1 J	0.1	0.08 J
Arsenic V (dis)	0.03 M	0.09	0.1	0.06 J	0.02 J	0.06 J
Cadmium (Cd) (DIS)	0.001	0.001	0.001	<0.001 UJ	<0.002	<0.001
Copper (Cu) (DIS)	<0.008	<0.008		<0.008	<0.008	<0.008
Iron (Fe +2) (TOT)	6.1	6.4	4.8	5.6	5.5	
Iron (Fe) (DIS)	5.3	5.5	5.3			
Lead (Pb) (DIS)	0.005	<0.005	<0.005	<0.005	<0.02	<0.005 UJ
Manganese (Mn) (DIS)	3.4	3.2				
Zinc (Zn) (DIS)	0.009	<0.008	0.008 J	0.008	0.01	<0.008 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.9	1.2	1.9	2.4	1.1	2.8
pH		8.02	8.1	7.1	7.1	7.8
Depth To Water Level (ft)	16	16.9	16.8	15.5	15.7	16.3
pH (Fld)	6.6	6.7	7	7.09	7.05	6.7
SC (umhos/cm at 25 C) (Fld)	477.5	472	470.6	494.5	486.5	481.6
SC (umhos/cm at 25 C)		495	475	470 J	470	450
Total Suspended Solids		20				
TDS (Measured at 180 C)		324.8 M	238	300 J	279 J	432
Water Temperature (C) (Fld)	9.1	10		10.8	9.7	10.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-20	DH-20	DH-20	DH-20	DH-20	DH-20
Water	SAMPLE DATE	10/18/1989	4/28/1990	11/30/1990	5/7/1991	5/7/1991	11/15/1991
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	16:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-826	90-1038	90-2251	91-2681	91-2682	91-3855
	SAMPLE NUMBER	AEH-8910-429	AEH-9005-417	AEH-9011-722	AEH-9105-129	AEH-9105-155	AEH-9111-319
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	5.3	5 J	5.6	5.3	5.1 UJ
Sulfate (SO4)	<2	<2 UJ	<2	<2	5.3

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.1	0.1	0.1	0.1	0.1	0.2
Arsenic III (dis)	0.1	0.1	0.2 U	0.1 J	0.1 J	0.3
Arsenic V (dis)	0.03 J	0.07	0.009 U	0.04 UJ	0.04 UJ	0.08 U
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.002	<0.002	0.003
Copper (Cu) (DIS)	<0.008	<0.008	<0.008	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	<0.008 J	<0.006		0.01	0.008	0.03

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.8	2.2	2.05	4.6	4.6	1.9
pH		7.8	8.1	7.9	7.8	7.1
Depth To Water Level (ft)	16.3	16.7	16.4	16.6	16.6	16.2
pH (Fld)	6.7	7.3	7.2	7.3	7.3	7.6
SC (umhos/cm at 25 C) (Fld)		471.1	488.5	478.3	479.3	440
SC (umhos/cm at 25 C)		450	445	470	475	420
TDS (Measured at 180 C)		278	301 J	321	313	301 J
Water Temperature (C) (Fld)	10.6	8.5	9.9	9.5	9.5	14.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-20	DH-20	DH-20	DH-20	DH-20	DH-20
Water	SAMPLE DATE	4/22/1992	11/12/1992	11/12/1992	4/30/1993	11/5/1993	4/12/1994
	SAMPLE TIME	11:20	08:20	10:00	12:00	15:00	13:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	92-4299	92-6773	92-6774	93-7735	93-9195	94-592007
	SAMPLE NUMBER	AEH-9204-109	EHC-9211-104	EHC-9211-114	EHC-9305-123	EHC-9311-116	AHCL-9404-169
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)		62 J	63 J	58 J		
Chloride (Cl)	4.7 J	4.4	5	4.6	5.3 J	
Magnesium (Mg) (Dis)		13	13	12 J		
Potassium (K) (Dis)		<5	<5	<5		
Sodium (Na) (Dis)		17	17	16 J		
Sulfate (SO4)	<2	2.3 J	3.3 J	<2	<2	
Total Hardness As CaCO3				194		

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.08	0.2 J	0.2 J	0.2	0.1	0.1 U
Arsenic III (dis)	0.07	0.2 J	0.1 UJ	0.08 J	0.1 J	
Arsenic V (dis)	0.02	0.05 J	0.03 UJ	0.1 UJ	0.03 J	
Cadmium (Cd) (DIS)	0.001	0.001	0.001	0.001 UJ	0.001	0.003 U
Copper (Cu) (DIS)	<0.004	<0.004	0.005	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	<0.005	<0.005 JU	<0.005 UJ	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	<0.006	<0.006	<0.006	<0.006	<0.006	0.02 U

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.8	1.8	1.8	1.6	2.2	1.4
pH	7.2	8	8			
Depth To Water Level (ft)	16.04	15.5	15.5	15.3	16.2	16.2
pH (Fld)	7.2	6.7	6.7	7.2	7.3	8.2
SC (umhos/cm at 25 C) (Fld)	450	439	437	425	441	426
SC (umhos/cm at 25 C)	460	390	380	340 J	436 J	
TDS (Measured at 180 C)	283	280	270	266	276	280
Water Temperature (C) (Fld)	10	11.2	11.2	9.3	7.3	12.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-20	DH-20	DH-20	DH-20	DH-20	DH-20
Water	SAMPLE DATE	5/9/1994	7/14/1994	8/22/1994	9/26/1994	10/20/1994	11/9/1994
	SAMPLE TIME	18:20	09:45	09:00	15:30	15:40	18:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1332	94-1209016	94-1504003	94-1778025	94-1932011	94-3260
	SAMPLE NUMBER	EHC-9405-122	AHCL-9407-115	AHCL-9408-313	AHCL-9409-413	AHCL-9410-328	EHC-9411-122
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	5.6					6.8
	Sulfate (SO4)	<2 UJ					<2
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.2	0.1	0.1	0.1	0.1	0.2
	Arsenic III (dis)	0.1					0.2 J
	Arsenic V (dis)	0.02 UJ					0.06
	Cadmium (Cd) (DIS)	0.002	0.001	0.006 J	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)	<0.004	0.004	<0.004	<0.004	<0.004	<0.004
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 J
	Zinc (Zn) (DIS)	0.01	0.01 U	0.03 U	0.01 U	0.01	0.008
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	2.4	1.4	2.6	3.1	3.4	4.5
	Depth To Water Level (ft)	16.1	15.9	16.05	15.3	15.5	15.5
	Eh (millivolts)				-84	-52	
	pH (Fld)	7.7	7.05	7.2	7.5	7.5	7.3
	SC (umhos/cm at 25 C) (Fld)	454 J	435	625	413	460	452
	SC (umhos/cm at 25 C)	425					436
	TDS (Measured at 180 C)	280	283	259	296	297 J	286
	Water Temperature (C) (Fld)	10.4	10.7	11.3	12.5	11.9	10.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-20	DH-20	DH-20	DH-20	DH-20	DH-20
Water	SAMPLE DATE	3/31/1995	4/26/1995	5/8/1995	5/23/1995	6/20/1995	7/18/1995
	SAMPLE TIME	13:15	10:00	14:20	15:30	12:00	13:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-651003	95-826007	95-4480	95-1057017	95-1280022	95-1523013
	SAMPLE NUMBER	AHCL-9503-112	AHCL-9504-109	EHC-9505-122	AHCL-9505-114	AHCL-9506-112	AHCL-9507-112
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)			7.8			
	Sulfate (SO4)			7			
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.1	0.1	0.09	0.09	0.1	0.1
	Arsenic III (dis)			0.04			
	Arsenic V (dis)			0.04			
	Cadmium (Cd) (DIS)	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)	<0.004	<0.004	0.005 U	<0.004	0.004	<0.008
	Iron (Fe) (DIS)				3.7		
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005 J	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	<0.008	0.006 U	0.007	<0.006	<0.02	<0.02
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	3.7	9	4.3	2.3	1.9	2.9
	pH			7			
	Depth To Water Level (ft)	16.2	15.2	15.1	14.3	14.8	15.05
	Eh (millivolts)	-117	-177		-37	-69	-78
	pH (Fld)	6.7	7.4	7.1	7.2	7.09	7.3
	SC (umhos/cm at 25 C) (Fld)	510	408	427 J	389	238	437
	SC (umhos/cm at 25 C)			415 J			
	TDS (Measured at 180 C)	330	266	246 J	229 J	182	247
	Water Temperature (C) (Fld)	9	7.6	8.7	8.3	10.1	11.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-20	DH-20	DH-20	DH-20	DH-20	DH-20
Water	SAMPLE DATE	8/16/1995	9/16/1995	9/16/1995	10/23/1995	10/23/1995	11/8/1995
	SAMPLE TIME	14:15	10:30	10:45	13:00	13:15	17:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-1778013	95-2070018	95-2070020	95-2401008	95-2401013	95-2532011
	SAMPLE NUMBER	AHCL-9508-112	AHCL-9509-112	AHCL-9509-126	AHCL-9510-112	AHCL-9510-127	AHCL-9511-113
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate		Field Duplicate	
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.1	0.1	0.1	0.1 J	0.2 J	0.1
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	0.001	0.001	<0.001
	Copper (Cu) (DIS)	<0.004	0.008 U	0.005 U	0.004	<0.004	<0.008
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	2.8	3.5	3.4	7.2	7.3	1.5
	Depth To Water Level (ft)	15.1	14.6	14.6	15.8	15.8	15
	Eh (millivolts)	-139	89	87	139	137	60
	pH (Fld)	7.6	7.2	7.2	7	7	6.9
	SC (umhos/cm at 25 C) (Fld)	513	516	518	454	452	455
	TDS (Measured at 180 C)	298	296	306	300	302	323
	Water Temperature (C) (Fld)	11.9	11.2	11.3	11.4	11.4	11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-20	DH-20	DH-20	DH-20	DH-20	DH-20
Water	SAMPLE DATE	11/8/1995	11/8/1995	5/8/1996	6/24/1996	9/19/1996	11/5/1996
	SAMPLE TIME	17:00	17:15	16:10	10:00	09:30	13:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-6117	95-6137	96-6737	96-1243002	96-1924011	96-7722
	SAMPLE NUMBER	EHC-9511-123	EHC-9511-186	EHC-9605-211	EHC-9606-112	EHC-9609-112	EHC-9611-211
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	6.8 J	6.2 J	8.1			6.6
Sulfate (SO4)	2 J	<2 J	<2			<2

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.1	0.2	0.1 J	0.1	0.2	0.2
Arsenic III (dis)	0.1	0.2	0.07 J			0.1
Arsenic V (dis)	0.05 J	0.009 J	0.05 J			0.02 J
Cadmium (Cd) (DIS)	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.008	<0.004	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	0.01	<0.006	<0.02	<0.02	0.02 U	<0.008

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.5	1.5	3.2	2.8	2.2	5.06
pH	7.07	7	7.2			7.2
Depth To Water Level (ft)	15	15	15.6	15	15.2	15.2
Eh (millivolts)			131	7	346	215
pH (Fld)	6.9	6.9	7.2	7.2	6.8	7.4
SC (umhos/cm at 25 C) (Fld)	455	455	476	451	456	455
SC (umhos/cm at 25 C)	486 J	285 J	435			454
TDS (Measured at 180 C)	312 J	338	285	297	310	295
Water Temperature (C) (Fld)	11.6	11.6	9.4	10.4	10.6	10.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-20	DH-20	DH-20	DH-20	DH-20	DH-20
Water	SAMPLE DATE	5/6/1997	11/5/1997	5/13/1998	11/20/1998	11/20/1998	5/12/1999
	SAMPLE TIME	17:00	17:15	14:30	14:10	14:25	16:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	97-953	189-2714	263-3811	313-4457	314-4461	349-4926
	SAMPLE NUMBER	EHC-9705-211	EHC-9711-211	EHC-9805-211	EHC-9811-211	EHC-9811-222	EHC-9905-211
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)			232	251	254	251 J
	Calcium (Ca) (DIS)			49	51	52	48
	Carbonate As CO3						<1 UJ
	Chloride (Cl)	4	5	5	3.9	4.6	4.2
	Magnesium (Mg) (DIS)			10	10	11	10
	Potassium (K) (DIS)			<5	<5	<5	<5
	Sodium (Na) (DIS)			14 J	14	15	15
	Sulfate (SO4)	<2	<1	<1	1.9	1.6	6.2 U
	Total Alkalinity As CaCO3			190	206	208	206 J
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.1	0.1 J	0.1	0.2	0.2	0.1
	Arsenic III (dis)	0.09	0.1 J	0.1	0.09 J	0.06 J	0.1
	Arsenic V (dis)	0.009	0.03	0.02	0.08 J	0.1 J	0.02
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
	Iron (Fe) (DIS)			5.03	5.2	5.3	5.5
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)			3	3	3.02	3.03
	Zinc (Zn) (DIS)	<0.02	<0.02 J	0.02 J	<0.02	<0.02	<0.02
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fid)	8.02	6.4	4	7.6	7.6	1.7
	pH	7.2	7.3	7.7	7.4	7.5	7.8
	Depth To Water Level (ft)	16.4	16.05	15.3	15.4		15.2
	Eh (millivolts)	97			120	114	180
	pH (Fid)	6.8	8.2	7	7.03	7.05	7.4
	SC (umhos/cm at 25 C) (Fid)	424	400	350	429	431	407
	SC (umhos/cm at 25 C)	406	399	385	410	408	395
	Total Suspended Solids	14	16 J				
	TDS (Measured at 180 C)	270	264 J	254	253	262	274
	Water Temperature (C) (Fid)	7.9	10.3	9.8	9.7	9.7	9.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-20	DH-20	DH-20	DH-20	DH-20	DH-20
Water	SAMPLE DATE	11/17/1999	5/8/2000	11/10/2000	5/8/2001	5/8/2001	11/14/2001
	SAMPLE TIME	15:50	15:30	16:45	11:00	11:15	16:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L992055014	L000705017	L001897019	L010655011	L010655020	L011563017
	SAMPLE NUMBER	EHC-9911-123	EHC-0005-122	EHC-0011-131	EHC-0105-123	EHC-0105-219	EHC-0111-122
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	254	261	268	232	232	250	
Calcium (Ca) (DIS)	54	52	51	53	55	54	
Carbonate As CO3	<1	<1	<1			<1	
Chloride (Cl)	5.1	5.9	6.5 J	6.2	5.4	8.5	
Magnesium (Mg) (DIS)	12	11	11	11	11	11	
Potassium (K) (DIS)	<5	<5	<5	<5	<5	<5	
Sodium (Na) (DIS)	15	13	15	15	15	16	
Sulfate (SO4)	11 J	3.5	9.5 U	26	26	<1	
Total Alkalinity As CaCO3	208	214	220	190	190	205	
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (DIS)			0.01	<0.05	<0.05	<0.05	
Arsenic (As) (DIS)	0.1	0.1 J	0.2	0.1	0.1	0.2	
Arsenic III (dis)	0.1	0.3	0.2	0.07	0.08	0.2 J	
Arsenic V (dis)	0.02 J	0.04 U	<0.02	0.05	0.03	<0.005	
Cadmium (Cd) (DIS)	<0.001	<0.001 J	<0.001	<0.001	<0.001	<0.001	
Copper (Cu) (DIS)	<0.004 J	<0.004	<0.004	<0.004	<0.004	<0.004	
Iron (Fe) (DIS)	5.9	5.6	6	5.7	5.7	5.8	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	
Manganese (Mn) (DIS)	3.3	3.2	3.3	3.3	3.4	3.3	
Zinc (Zn) (DIS)	<0.02	<0.02 J	<0.02	<0.02	<0.02	<0.02	
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxidation Reduction Potential						-112	
Oxygen (O) (DIS) (Fld)	2.06	12.8	2.5	1.3	1.4	0.5	
pH	7.7	7.6	7.7	8	8.3	8	
Silicon+Silica (Si+SiO2)			40	36	36	43	
Depth To Water Level (ft)	15.4	15.9	15.8	14.8		15.7	
Eh (millivolts)	105	187	114	128	127	134	
pH (Fld)	7.7	7.07	7.1	7	7	7.3	
SC (umhos/cm at 25 C) (Fld)	415	474	415	414	420	423	
SC (umhos/cm at 25 C)	416	423	440	441	440	392	
Total Suspended Solids	16 J			16	16	16	
TDS (Measured at 180 C)	256	260	286	291	294	260	
Water Temperature (C) (Fld)	11.4	10.7	10.3	9	9	12.6	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-20	DH-20	DH-20	DH-20	DH-20	DH-20
Water	SAMPLE DATE	5/24/2002	11/13/2002	5/31/2003	10/25/2003	5/21/2004	10/28/2004
	SAMPLE TIME	14:45	16:30	11:05	12:30	10:55	12:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	L020396003	L020948016	L030243007	L030599-006	H04050141-007	H04100202-006
	SAMPLE NUMBER	EHC-0205-127	EHC-0211-124	AEH-0306-126	AEH-0310-344	AEH-0405-146	AEH-0411-147
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	259	266	251	206	270	240
Calcium (Ca) (DIS)	54	55	52	54	60	61
Carbonate As CO3	<1	<1	<2	<2		
Chloride (Cl)	5.1	5.1	5	4.8	110	4
Magnesium (Mg) (DIS)	11	11	11	11	11	12
Potassium (K) (DIS)	<5	<5	<5	<5	4	4
Sodium (Na) (DIS)	16	16	15	17	15 UJ	15
Sulfate (SO4)	1.5	<1	8.2	4.1	<1	4 J
Total Alkalinity As CaCO3	212	218	206	206	220	200

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05				
Arsenic (As) (DIS)	0.1	0.2	0.2	0.18	0.169	0.155
Arsenic III (dis)	<0.005	0.1	0.1	0.16	<0.006	0.11
Arsenic V (dis)	0.1	0.1	0.07	0.039	1.1	0.0087
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	5.9	5.8	5.4	5.8	6.14	6.55
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.3	3.3	3.1	3.3	3.56	2.74
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.01	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	1.4					
Oxygen (O) (DIS) (Fld)	0.5	5.5	0.5	0.89	0.13	0.04
pH	7.9	7	7.5	7.8	7.6	7.5
Silicon+Silica (Si+SiO2)	36	40				
Depth To Water Level (ft)	16.3	16	14.5	15.93	15.32	15.32
pH (Fld)	7.4	6.6	6.6	7.18	6.53	7.15
SC (umhos/cm at 25 C) (Fld)	206 A	343	343	417	538	417
SC (umhos/cm at 25 C)	413	422	406	408	459	378
Total Suspended Solids	17	18	11	18	73	23
TDS (Measured at 180 C)	254	276	254	286	251	247
Salinity (G/KG) (Fld)		0.1	0.1	0.1	0.2	
Turbidity (NTU) (Fld)		2	1	2	0.0	
Water Temperature (C) (Fld)	8.9	11.4	8.2	11.5	8.9	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-20	DH-2	DH-20	DH-20	DH-20	DH-20
Water	SAMPLE DATE	10/28/2004	11/1/2004	5/13/2005	11/9/2005	5/5/2006	11/15/2006
	SAMPLE TIME	12:45	11:10	10:30	10:30	09:35	11:05
	LAB	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel	ELI
	LAB NUMBER	H04100202-007	H04110018-002	C05050527-002	H05110092-005	H06050065-002	H06110135-008
	SAMPLE NUMBER	AEH-0411-148	AEH-0411-172	AEH-0505-143	AEH-0511-147	AEH-0605-155	AEH-0611-190
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	250	290	254	250	240	260
Calcium (Ca) (DIS)	63	69	56	54	57	51
Chloride (Cl)	5	20 UJ	6	8 UJ	4	5
Magnesium (Mg) (DIS)	13	15	12	11	12	10
Potassium (K) (DIS)	4	6	<5	4	4	4
Sodium (Na) (DIS)	16	22	15	14	15	16
Sulfate (SO4)	<1 J	47	7	7	12	5 J
Total Alkalinity As CaCO3	200	240	208	200	200	210

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.15	0.009	0.152	0.166	0.144	0.163
Arsenic III (dis)	0.11		0.1 UJ	0.1	0.1	0.1 J-
Arsenic V (dis)	0.01		0.009	0.009	<0.005	0.03 J-
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	6.68	<0.02	5.76	5.67	6.03	5.49
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.66	<0.02	3.38	3.07	3.55	3.46
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Arsenic III (dis)		<0.001				
Arsenic V (dis)		0.0076				

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential						-154
Oxygen (O) (DIS) (Fld)		9.11	0.05	0.57	1.9	0.04
pH	7.4	7.3	7.37	7.3	7.4	7.3
Depth To Water Level (ft)		58.48	14.74	15.13	14.44	14.41
pH (Fld)		7.1	6.9	7.18	6.81	7.18
SC (umhos/cm at 25 C) (Fld)		587	420	436	429	428
SC (umhos/cm at 25 C)	381	477	401	408	397	401
Total Suspended Solids	18	81 J	21	16	16	29 J
TDS (Measured at 180 C)	246	372	244	235	244	250
TDS - Calculated			263			
Water Temperature (C) (Fld)		10	8.4	11.76	9.11	11.37

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-20	DH-20	DH-20	DH-20	DH-20	DH-20
Water	SAMPLE DATE	5/22/2007	5/22/2007	12/4/2007	12/4/2007	5/7/2008	5/7/2008
	SAMPLE TIME	12:15	12:30	11:55	12:00	11:35	11:50
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07050262-003	H07050262-004	H07120019-003	H07120019-004	H08050136-009	H08050136-010
	SAMPLE NUMBER	AEH-0705-208	AEH-0705-209	AEH-0711-189	AEH-0711-190	AEH-0805-173	AEH-0805-174
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	250	260			260	260
Bicarbonate (HCO3) (dis)			260	260		
Calcium (Ca) (DIS)	48	49	51	51	66	64
Chloride (Cl)	5	6	5	6	6	6
Magnesium (Mg) (DIS)	10	10	10	10	13	13
Potassium (K) (DIS)	3	4	4	4	4	4
Sodium (Na) (DIS)	15	16	17	16	14	14
Sulfate (SO4)	<1	<1	<1	<1	<1	<1
Total Alkalinity As CaCO3	210	210	220	210	210	220

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)			<0.005	<0.005	<0.005	<0.005
Selenium-VI (DIS)			<0.005	<0.005	<0.005 J-	<0.005 J-
Aluminum (Al) (DIS)					<0.1	<0.1
Antimony (Sb) (DIS)					<0.005	<0.005
Arsenic (As) (DIS)	0.13	0.129	0.148	0.151	0.136	0.138
Arsenic III (DIS)	0.13	0.13	0.0962	0.0929	0.167	0.157
Arsenic V (DIS)	<0.005	<0.005	0.0297	0.0302	0.0077	0.0092
Barium (Ba) (DIS)					0.1	0.1
Beryllium (Be) (DIS)					<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	0.001	<0.001	0.001
Chromium (Cr) (DIS)					<0.001	<0.001
Cobalt (Co) (DIS)					<0.01	<0.01
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	5.26	5.42	5.4	5.33	7.16	7.07
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.12	3.2	2.94	3	3.07	3.14
Mercury (Hg) (DIS)					<0.006	<0.006
Nickel (Ni) (DIS)					<0.01	<0.01
Selenium (Se) (DIS)			<0.005	<0.005	<0.005	<0.005
Silver (Ag) (DIS)					<0.005	<0.005
Thallium (Tl) (DIS)					<0.002	<0.002
Vanadium (V) (DIS)					<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.02	<0.02	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.08		0.36		0.19	
pH	7.4	7.3	7.6	7.7	7.3	7.5
Depth To Water Level (ft)	15.32		14.84		15.31	
pH (Fld)	7.25		7.04		7.01	
SC (umhos/cm at 25 C) (Fld)	422		418		425	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-20	DH-20	DH-20	DH-20	DH-20	DH-20
Water	SAMPLE DATE	5/22/2007	5/22/2007	12/4/2007	12/4/2007	5/7/2008	5/7/2008
	SAMPLE TIME	12:15	12:30	11:55	12:00	11:35	11:50
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07050262-003	H07050262-004	H07120019-003	H07120019-004	H08050136-009	H08050136-010
	SAMPLE NUMBER	AEH-0705-208	AEH-0705-209	AEH-0711-189	AEH-0711-190	AEH-0805-173	AEH-0805-174
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		Field Duplicate
<b>Physical/Fid-Lab: ppm unless noted</b>							
	SC (umhos/cm at 25 C)	392	397	398	397	397	404
	Total Suspended Solids	16	14	16	16	14	16
	TDS (Measured at 180 C)	243	249	274	250	258	253
	Water Temperature (C) (Fld)	8.09		11.35		8.2	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-20	DH-20	DH-20	DH-22	DH-22
Water	SAMPLE DATE	11/6/2008	11/6/2008	5/13/2009	6/11/1987	6/11/1987
	SAMPLE TIME	11:30	11:35	10:15	00:00	00:00
	LAB	ELI	ELI	ELI	CHMTC	TSC-SLC
	LAB NUMBER	H08110088-005	H08110088-006	H09050210-005	8706-19	87-4238
	SAMPLE NUMBER	AEH-0811-184	AEH-0811-185	AEH-0905-192	AEH-8706-19	AEH-8706-19
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Field Duplicate		Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	270	270	260	22.4	39
Calcium (Ca) (DIS)	59	60	52	96.2	85.5
Carbonate As CO3					<1
Chloride (Cl)	6	6	5	80	77
Magnesium (Mg) (DIS)	12	12	11	36.6	34
Potassium (K) (DIS)	4	4	4	5.6	9.8
Sodium (Na) (DIS)	15	15	14	160	179
Sulfate (SO4)	<1	<1	3	617	725
Total Alkalinity As CACO3	220	220	210		

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005			
Selenium-VI (DIS)	<0.005	<0.005			
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1		
Antimony (Sb) (DIS)	<0.005	<0.005	<0.003		
Arsenic (As) (DIS)	0.159	0.156	0.137	8.6	9.1
Arsenic III (DIS)	0.158	0.149			0.1 M
Arsenic V (DIS)	0.0111 J-	0.0119 J-			7.8
Barium (Ba) (DIS)	0.1	0.1	0.1		
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	4.9	5
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001		
Cobalt (Co) (DIS)	<0.01	<0.01	<0.0005 J		
Copper (Cu) (DIS)	<0.004	<0.004	<0.001	0.07	0.04 M
Gold (Au) (DIS)			0.02		
Iron (Fe +2) (TOT)					0.2
Iron (Fe) (DIS)	6.21	6.12	5.53	0.3	0.1
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.003	<0.005
Manganese (Mn) (DIS)	3.11	2.99	3.49	12.9	13
Mercury (Hg) (DIS)	<0.006	<0.006	0.0001		
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01		
Selenium (Se) (DIS)	<0.005	<0.005	0.002		
Silver (Ag) (DIS)	<0.005	<0.005	<0.005		
Tellurium (Te) (DIS)			<0.1		
Thallium (Tl) (DIS)	<0.002	<0.002	<0.001		
Vanadium (V) (DIS)	<0.01	<0.01	<0.01		
Zinc (Zn) (DIS)	<0.02	<0.02	<0.01		3.2

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.21		0.14		2
pH	7.5	7.5	7.6		6.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-20	DH-20	DH-20	DH-22	DH-22
Water	SAMPLE DATE	11/6/2008	11/6/2008	5/13/2009	6/11/1987	6/11/1987
	SAMPLE TIME	11:30	11:35	10:15	00:00	00:00
	LAB	Hydrometrics	ELI	Hydrometrics	CHMTC	TSC-SLC
	LAB NUMBER	H08110088-005	H08110088-006	H09050210-005	8706-19	87-4238
	SAMPLE NUMBER	AEH-0811-184	AEH-0811-185	AEH-0905-192	AEH-8706-19	AEH-8706-19
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Field Duplicate		Split	

**Physical/Fld-Lab: ppm unless noted**

Depth To Water Level (ft)	15.82		14.72	26.3
pH (Fld)	6.88		7.2	5.5
SC (umhos/cm at 25 C) (Fld)	435		425	1528
SC (umhos/cm at 25 C)	416	412	415	1650
Total Suspended Solids	14	20	16	
TDS (Measured at 180 C)	262	263	270	875 1285
Water Temperature (C) (Fld)	10.79		7.9	16

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-22	DH-22	DH-22	DH-22	DH-22	DH-22
Water	SAMPLE DATE	8/12/1987	11/23/1987	5/3/1988	12/21/1988	4/19/1989	10/19/1989
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-6646	87-10785	88-3206	89-50	89-509	89-830
	SAMPLE NUMBER	AEH-8708-10	AEH-8711-237	AEH-8804-321	AEH-8812-140	AEH-8904-219	AEH-8910-419
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	48	55	46			
Calcium (Ca) (DIS)	100.5	72	53			
Carbonate As CO3	<1	<1	<1			
Chloride (Cl)	65	62	37	80	71	66.6
Magnesium (Mg) (DIS)	39.5	27.8	17			
Potassium (K) (DIS)	9.9	10.3	8.2			
Sodium (Na) (DIS)	154	122	101			
Sulfate (SO4)	610	490	311 J	800	688	810

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	6.8	8	12.9 J	7.09	8.9	6.6
Arsenic III (dis)	0.4	<0.008	0.5	6.5 J	0.09	0.04 J
Arsenic V (dis)	7.4 M	7.5	12.3	0.2	9.1	6.9
Cadmium (Cd) (DIS)	4.7	3.8	2.2	10.5	11	10.9
Copper (Cu) (DIS)	0.03	0.03		0.04	0.06 J	0.05
Iron (Fe +2) (TOT)	0.2	0.04	0.02	0.3	0.02	
Iron (Fe) (DIS)	0.04	0.03	0.07			
Lead (Pb) (DIS)	0.01	<0.005	0.007	<0.005 UJ	<0.02	<0.005 UJ
Manganese (Mn) (DIS)	11.8	9				
Zinc (Zn) (DIS)	2.7	2.2	1.3	5.8	6.3	5.9 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.1	1.1	1.3	1.4	2	1.9
pH	5.8	7	6.1	5	5.7	6.1
Depth To Water Level (ft)	25.5	26.8	27.8	26.7	26.1	25.3
pH (Fld)	5.2	5.6	5.7	4.3	5.7	5.4
SC (umhos/cm at 25 C) (Fld)	2104 M	1213	878.9	1794	1687	1715
SC (umhos/cm at 25 C)	1490	1270	900	1700	1500	1650
TDS (Measured at 180 C)	1089	900 M	652 J	1463	1506	1368
Water Temperature (C) (Fld)	15	12.5	14	13.9	16.9	15

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-22	DH-22	DH-22	DH-22	DH-22	DH-22
Water	SAMPLE DATE	5/1/1990	12/5/1990	5/8/1991	11/19/1991	4/28/1992	11/19/1992
	SAMPLE TIME	00:00	00:00	00:00	14:45	15:30	16:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	90-1065	90-2260	91-2680	91-3876	92-4356	92-6821
	SAMPLE NUMBER	AEH-9005-419	AEH-9011-724	AEH-9105-157	AEH-9111-335	AEH-9204-101	EHC-9211-189
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)							180
Chloride (Cl)	43	178 J	176	99 J	99 J		84
Magnesium (Mg) (Dis)							76
Potassium (K) (Dis)							15
Sodium (Na) (Dis)							200
Sulfate (SO4)	375	705 J	869	877	1016		1084

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	8.1	9.2	27	18.4	17.3		19.1
Arsenic III (dis)	0.03 U	6.7	4.7 J	0.02 U	2.9		1.3
Arsenic V (dis)	8.1	2.4 J	21.3 J	25	12.9		16.7 J
Cadmium (Cd) (DIS)	5.4	12	14	13	17.8		13.4
Copper (Cu) (DIS)	0.02	0.09	0.2	0.3	0.4		0.5
Lead (Pb) (DIS)	<0.005 UJ	<0.005 UJ	0.02	0.03	0.006		0.006 J
Zinc (Zn) (DIS)	3.1		11	11.3	13.1		12.2

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.2	1.9	2.5	2	1.2		1.7
pH	6.8	6	4.6	4.6	4.4		5.2
Depth To Water Level (ft)	27.6	25.5	25.1	23.9	22.8		21.9
pH (Fld)	5.6	5.6	4.9	4.7	4.6		5.08
SC (umhos/cm at 25 C) (Fld)	1044	546.9	2058	1800	2160		2130
SC (umhos/cm at 25 C)	1050	1700	2050	1810	2120		2300
TDS (Measured at 180 C)	800 J	1235 J	1669	1509 J	1698		1400
Water Temperature (C) (Fld)	14.1	12.1	14.6	14.7	15.5		13.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-22	DH-22	DH-22	DH-22	DH-22	DH-22
Water	SAMPLE DATE	5/5/1993	11/11/1993	11/11/1993	5/16/1994	11/16/1994	11/16/1994
	SAMPLE TIME	14:00	08:40	14:10	13:50	14:00	15:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-7828	93-9233	93-9273	94-1452	94-3395	94-3388
	SAMPLE NUMBER	EHC-9305-154	EHC-9311-174	EHC-9311-118	EHC-9405-123	EHC-9411-179	EHC-9411-124
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)	135					
Chloride (Cl)	143	130 J	123 J	104	315	319
Magnesium (Mg) (Dis)	50					
Potassium (K) (Dis)	11					
Sodium (Na) (Dis)	51					
Sulfate (SO4)	514	1079 J	1153 J	550	746	783
Total Hardness As CaCO3	543					

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	13.1	29	36 J	33	58.4 J	72.1 J
Arsenic III (dis)	3.3	0.07 J	<0.004 J	1.9 J	9.3 J	6.2 J
Arsenic V (dis)	8.2	36	37.2	28.9 J	43.1 J	51.5 J
Cadmium (Cd) (DIS)	8.6	12.5	13.2	10.5	24.2	23.6
Copper (Cu) (DIS)	0.3	0.4	0.4	0.2	0.2	0.2
Lead (Pb) (DIS)	0.01	0.007 J	0.007 J	0.005	0.01 J	0.01 J
Zinc (Zn) (DIS)	7.7	11.2	11.7 J	6.5	11.2	10.8

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.1	3.3	3.3	2	3.3	3.3
pH					4.4	4.4
Depth To Water Level (ft)	21	22	22	23.2	23.3	23.3
pH (Fld)	4.8	4.4	4.4	4.8	4.6	4.6
SC (umhos/cm at 25 C) (Fld)	1321	2210	2240	1352	2340	2350
SC (umhos/cm at 25 C)	1600	2390 J	2380 J	1523 J	2350	2340
TDS (Measured at 180 C)	964	2018	1959	1184	1890 J	1850 J
Water Temperature (C) (Fld)	10.9	12.5	12.5	12	13.7	13.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-22	DH-22	DH-22	DH-22	DH-22	DH-22
Water	SAMPLE DATE	5/15/1995	11/13/1995	5/14/1996	11/11/1996	5/8/1997	11/10/1997
	SAMPLE TIME	13:35	11:15	09:50	11:20	09:55	15:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-4514	95-6145	96-6777	96-7777	97-938	192-2746
	SAMPLE NUMBER	EHC-9505-123	EHC-9511-125	EHC-9605-112	EHC-9611-112	EHC-9705-111	EHC-9711-112
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	100	154 J	179	159	89	6
	Sulfate (SO4)	275	1031 J	813	1001	704	75
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	23.02	40.8	33.02	21.8	22.5	6.3
	Arsenic III (dis)	3.3	4.6	0.06 J	0.006 U	<0.005	<0.005
	Arsenic V (dis)	20.7	35	33.5 J	22.1 J	17.1	5.08
	Cadmium (Cd) (DIS)	7.8	14.8	13.8	14.2	9.2	0.5
	Copper (Cu) (DIS)	0.1	0.1	0.1	0.1	0.08	0.01
	Lead (Pb) (DIS)	<0.005	0.005	0.008	0.01	0.009	<0.005
	Zinc (Zn) (DIS)	4.3	11.1	9.8	10.9	8.04	0.4
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	3.3	2.9	4.2	2.8	1.8	5
	pH	3.6	3.7 J	4.9	5.1	5	6.4
	Depth To Water Level (ft)	23	21.5	24.2	32.5	25	18.3
	pH (Fld)	5.6	4.5	5.08	5	5.5	6.5
	SC (umhos/cm at 25 C) (Fld)	911	1750	1777	2080	1495	303
	SC (umhos/cm at 25 C)	1010 J	1880 J	1740	1942	1518	292
	Total Suspended Solids						<1
	TDS (Measured at 180 C)	631 J	1390	1384	1578	1268	224
	Water Temperature (C) (Fld)	10	12.7	14.1	10.5	10.7	11.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-22	DH-22	DH-22	DH-22	DH-22	DH-22	
Water	SAMPLE DATE	11/10/1997	5/11/1998	11/20/1998	5/11/1999	11/16/1999	11/16/1999	
	SAMPLE TIME	15:15	15:00	11:00	12:00	12:30	12:45	
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	
	LAB NUMBER	193-2761	262-3787	314-4466	347-4902	L992055015	L992056011	
	SAMPLE NUMBER	EHC-9711-156	EHC-9805-113	EHC-9811-112	EHC-9905-112	EHC-9911-125	EHC-9911-179	
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
	GROUP	RI	RI	RI	RI	RI	RI	
	DESCRIPTION							
	REMARKS	Field Duplicate					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		12 J	11	<1 UJ	17 J	11 J
Calcium (Ca) (DIS)		140	121	101	101	102
Carbonate As CO3				<1 UJ	<1	<1
Chloride (Cl)	6	86	74	82	105	117
Magnesium (Mg) (DIS)		36	31	24	28	26
Potassium (K) (DIS)		12	17	14	15	13
Sodium (Na) (DIS)		97	120	99	85	90
Sulfate (SO4)	72	618	576	584 J	455	462
Total Alkalinity As CaCO3		10 J	9	<1 UJ	14 J	8.8 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	6.3	16.5	23.2	23.2	22	22
Arsenic III (dis)	<0.005	0.05	0.02	0.009	0.02	0.02
Arsenic V (dis)	5.3	15.6	21.4	25	20	18
Cadmium (Cd) (DIS)	0.5	5.9	5.6	6.2	6.5	6.9
Copper (Cu) (DIS)	0.01	0.04	0.04	0.04	0.04 J	0.03
Iron (Fe) (DIS)		0.06	0.02 U	0.08 U	<0.04	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	0.006	0.01	<0.005	0.005
Manganese (Mn) (DIS)		6.4	6	6.8	7.3	7.2
Zinc (Zn) (DIS)	0.4	5.03	5.07	6.05	6.7	7.1

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5	1.7	1.09	1.4	1.3	1.3
pH	6.3	5.5	5.5	4.4	5.8	5.9
Depth To Water Level (ft)	18.3	24.3	24.1	25.08	24.8	
Eh (millivolts)			340	338	340	338
pH (Fld)	6.5	5.01	5.6	5.4	5.09	5.04
SC (umhos/cm at 25 C) (Fld)	298	1385	1346	1201	1139	1132
SC (umhos/cm at 25 C)	285	1478	1405	1281	1227	1235
Total Suspended Solids	<1				<1	<1
TDS (Measured at 180 C)	201	1150	1042	1011	945	963
Water Temperature (C) (Fld)	11.4	15.3	13.1	13.2	14	14

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-22	DH-22	DH-22	DH-22	DH-22	DH-22
Water	SAMPLE DATE	5/3/2000	5/3/2000	11/8/2000	5/10/2001	11/11/2001	11/11/2001
	SAMPLE TIME	14:10	14:25	13:20	16:00	16:00	16:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000703006	L000704009	L001873023	L010691021	L011564001	L011565009
	SAMPLE NUMBER	EHC-0005-124	EHC-0005-166	EHC-0011-125	EHC-0105-125	EHC-0111-124	EHC-0111-206
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	55	55	70	76	78	77
Calcium (Ca) (DIS)	56	50	52	63	94	88
Carbonate As CO3	<1	<1	<1		<1	<1
Chloride (Cl)	42	43	59 J		155	140 J
Magnesium (Mg) (DIS)	15	14	15	18	27	25
Potassium (K) (DIS)	8.8	8.3	9.1	9.5	11	11
Sodium (Na) (DIS)	65	59	57	62 J	68	67
Sulfate (SO4)	259	251	165	188	250	244 J
Total Alkalinity As CaCO3	45	45	57	62	64	63

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			0.7	1	0.8	0.8
Arsenic (As) (DIS)	12	11	11	10	8.1	7.8
Arsenic III (dis)	0.02 UJ	0.01 UJ	0.2	7.1	2.6	2.5
Arsenic V (dis)	12	12	10	2.8	5.4	5.4
Beryllium (Be) (DIS)				<0.001	<0.001	
Cadmium (Cd) (DIS)	2.3	2.2	1.7	2.6	3.8	3.7
Copper (Cu) (DIS)	0.02	0.02	0.03	0.05	0.06	0.05
Iron (Fe) (DIS)	0.09 UJ	<0.02 J	0.06 U	<0.05	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	0.006	<0.005	<0.005
Manganese (Mn) (DIS)	3.3	3.1	3.3	3.7	5.6	5.4
Mercury (Hg) (DIS)				0.0002	<0.0006	
Selenium (Se) (DIS)				0.07	0.06	
Silver (Ag) (DIS)				<0.003	<0.003	
Thallium (Tl) (DIS)				0.05	0.06	
Zinc (Zn) (DIS)	2	2	1.2	2	2.2	2.2

**Nutrients: ppm unless noted**

Total Inorganic Carbon			27			
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**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential					38.8	39
Oxygen (O) (DIS) (Fld)	2.9	2.9	2.7	6.5	0.2	0.2
pH	6	6	6.5	7.9	6.5	6.5
Silicon+Silica (Si+SiO2)			28	34	30	30
Depth To Water Level (ft)	27.3		27	27.5	27.2	
Eh (millivolts)	397	397	389	246	264	264
pH (Fld)	5.8	5.9	6.07	6.4	6.4	6.4
SC (umhos/cm at 25 C) (Fld)	773	773	782	688	1041	1039
SC (umhos/cm at 25 C)	779	764	742	799	1053	1060

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-22	DH-22	DH-22	DH-22	DH-22	DH-22
Water	SAMPLE DATE	5/3/2000	5/3/2000	11/8/2000	5/10/2001	11/11/2001	11/11/2001
	SAMPLE TIME	14:10	14:25	13:20	16:00	16:00	16:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000703006	L000704009	L001873023	L010691021	L011564001	L011565009
	SAMPLE NUMBER	EHC-0005-124	EHC-0005-166	EHC-0011-125	EHC-0105-125	EHC-0111-124	EHC-0111-206
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				Field Duplicate
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Total Suspended Solids				<1	<1	1.4 J
	TDS (Measured at 180 C)	538	535	544	540	697	706 J
	Water Temperature (C) (Fld)	15.4	15.4	12.9	14.9	13.5	13.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-22	DH-22	DH-22	DH-22	DH-22	DH-22
Water	SAMPLE DATE	5/30/2002	11/14/2002	5/31/2003	10/25/2003	5/26/2004	11/1/2004
	SAMPLE TIME	14:30	14:45	12:20	16:30	14:45	13:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	L020396011	L020949016	L030243012	L030599-016	H04050191-016	H04110018-005
	SAMPLE NUMBER	EHC-0205-129	EHC-0211-126	AEH-0306-131	AEH-0310-354	AEH-0405-194	AEH-0411-175
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	95	100	122	87	140	98
Calcium (Ca) (DIS)	58	111	81	105	78	116
Carbonate As CO3	<1	<1	<2	<2		
Chloride (Cl)	106	126	66	111	48	100
Magnesium (Mg) (DIS)	17	32	23	31	22	32
Potassium (K) (DIS)	8	11	8.5	9	7	11
Sodium (Na) (DIS)	50	64	56	64	48	56
Sulfate (SO4)	156	284	235	257	220	296
Total Alkalinity As CaCO3	78	82	100	87	110	80

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	0.5	0.6				
Arsenic (As) (DIS)	7.6	6.7	6.7	6.2	6.36	8.56
Arsenic III (dis)	1.7	2.4	6.2	0.36	<0.045	<0.03
Arsenic V (dis)	5.9	4.4	0.6	6.1	6.5 J	7.8
Cadmium (Cd) (DIS)	2.2	3.5	2.9	3.2	2.681	3.766
Copper (Cu) (DIS)	0.03	0.02	0.02	0.025	0.029	0.036
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.03	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.4	6.1	4.6	6.1	4.74	7.34
Zinc (Zn) (DIS)	1.3	2	1.6	1.7	1.52	2.28

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	53.4					
Oxygen (O) (DIS) (Fld)	0.3	7.1	0.2	0.48	0.25	1.61
pH	7.5	6.8	7	7.4	6.9	6.3
Silicon+Silica (Si+SiO2)	25	24				
Depth To Water Level (ft)	28.1	27.4	27.4	27.95	28.37	26.27
pH (Fld)	6	5.7	5.8	6.11	6.24	6.24
SC (umhos/cm at 25 C) (Fld)	846	1090	736	1060	851	1096
SC (umhos/cm at 25 C)	740	1114	906	1080	819	940
Total Suspended Solids	6.3 J	<1	<1	1.4	17	<10 J
TDS (Measured at 180 C)	488	730	602	727	566	736
Salinity (G/KG) (Fld)		0.4	0.3	0.4		
Turbidity (NTU) (Fld)		1	1	2		
Water Temperature (C) (Fld)	12.3	11.5	11	10.6	10.9	10.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-22	DH-22	DH-22	DH-22	DH-22	DH-22
Water	SAMPLE DATE	5/20/2005	11/16/2005	11/16/2005	5/10/2006	11/9/2006	5/17/2007
	SAMPLE TIME	09:50	09:05	09:10	11:55	00:00	00:00
	LAB	ELI-Casper	ELI-Hel	ELI-Hel	ELI-Hel	Hydrometrics	Hydrometrics
	LAB NUMBER	C05050789-001	H05110136-002	H05110136-003	H06050119-011	z	z
	SAMPLE NUMBER	AEH-0505-219	AEH-0511-173	AEH-0511-174	AEH-0605-213	AEH-0611-DH22	AEH-0705-173
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION					o Samp-No Access	No Samp-Dry
	REMARKS			Field Duplicate		No Sample	No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	152	29 J	39 J	150
Calcium (Ca) (DIS)	95	173	182	99 J+
Chloride (Cl)	55	136	140	41
Magnesium (Mg) (DIS)	28	50	51	28 J-
Potassium (K) (DIS)	8	11 J-	12 J-	9
Sodium (Na) (DIS)	54	71 J-	78 J-	55
Sulfate (SO4)	262	644	632	269
Total Alkalinity As CaCO3	125	24 J	32 J	120

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	5.73	7.015	7.576	5.85 J
Arsenic III (dis)	<0.005	<0.001	<0.001	<0.03
Arsenic V (dis)	5.7	7	0.7 R	12.2
Cadmium (Cd) (DIS)	2.3	4.804	4.983	2.702
Copper (Cu) (DIS)	0.018	0.032	0.033	0.015
Iron (Fe) (DIS)	<0.02	0.06	0.05	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	5	10.17	10.34	5.85
Zinc (Zn) (DIS)	1.1	3.54	4.07	1.46

**Other: ppm unless noted**

No Analysis				0.0	0.0
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.22	2.95		0.67
pH	6.74	5.8	5.9	6.6
Depth To Water Level (ft)	28.27	26.3		27.49
pH (Fld)	5.9	5.52		6.03
SC (umhos/cm at 25 C) (Fld)	914	1698		983
SC (umhos/cm at 25 C)	936	1590	1510	904
Total Suspended Solids	<10	53 J	10 J	<10 J
TDS (Measured at 180 C)	598	1250	1240	673
TDS - Calculated	601			
Water Temperature (C) (Fld)	9.93	11.5		10.11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-22	DH-22	DH-23	DH-23	DH-23
Water	SAMPLE DATE	12/13/2007	5/13/2008	5/13/1987	5/13/1987	8/12/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	Hydrometrics		CHMTC	TSC-SLC	TSC-SLC
	LAB NUMBER	AEH-0711-262	AEH-0805-228	8705-33	87-3322	87-6643
	SAMPLE NUMBER	AEH-0711-262	AEH-0805-228	AEH-8705-33	AEH-8705-33	AEH-8708-11
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	No Samp-Dry	Dry			
	REMARKS	No Sample	No Sample	Split		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)			133	157
Calcium (Ca) (DIS)		120	103	126
Carbonate As CO3			<1	<1
Chloride (Cl)		90	84	77
Magnesium (Mg) (DIS)		18.6	17.8	20.4
Potassium (K) (DIS)		27.5	31.5	36
Sodium (Na) (DIS)		178	179	200
Sulfate (SO4)		5.3	610	520

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)		5	7.8	5.7
Arsenic III (dis)			6.8	0.06
Arsenic V (dis)			0.3	6.9 M
Cadmium (Cd) (DIS)		0.2	0.2	0.2
Copper (Cu) (DIS)		0.06	0.02	0.04
Iron (Fe +2) (TOT)			<0.01	0.04
Iron (Fe) (DIS)		<0.1	0.04	0.05
Lead (Pb) (DIS)		0.08	0.05 M	0.05
Manganese (Mn) (DIS)		1.9	1	2.5
Zinc (Zn) (DIS)		3.1	3	3.1

**Other: ppm unless noted**

No Analysis	0.0	0.0		
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**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)			2.9	1.6
pH			7.4	7.4
Depth To Water Level (ft)			12.9	12.9
pH (Fld)			6.9	6.9
SC (umhos/cm at 25 C) (Fld)			1557	2434 M
SC (umhos/cm at 25 C)			1490	1720
TDS (Measured at 180 C)		1431	1113	1217
Water Temperature (C) (Fld)			11.2	13.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-23	DH-23	DH-23	DH-23	DH-23	DH-23
Water	SAMPLE DATE	11/25/1987	11/25/1987	5/2/1988	5/2/1988	12/20/1988	4/19/1989
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-11006	8711-238	88-3207	88-3212	89-39	89-508
	SAMPLE NUMBER	AEH-8711-238	AEH-8711-238	AEH-8804-322	AEH-8804-333	AEH-8812-141	AEH-8904-220
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Split		Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	154 M	220	142			
Calcium (Ca) (DIS)	148	138	126.5			
Carbonate As CO3	<1 M	<5	<1			
Chloride (Cl)	78	72.6	64		72	83
Magnesium (Mg) (DIS)	22.5	20.5	20.5			
Potassium (K) (DIS)	44.1	38.7	40			
Sodium (Na) (DIS)	208	233	195			
Sulfate (SO4)	750	770	585 J		700	620

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	3	2.9	4.5	4.6	8.01	9.7
Arsenic III (dis)	1 M		1.06	0.08	7.8	0.6
Arsenic V (dis)	2.8		5.7	5.8	0.2	8
Cadmium (Cd) (DIS)	0.4 M	0.5	0.3	0.2	0.3	0.2
Copper (Cu) (DIS)	0.02	0.02			0.03	0.03 J
Iron (Fe +2) (TOT)	0.3		0.1	<0.01	0.08	0.1
Iron (Fe) (DIS)	0.1	0.2	0.03	0.03		
Lead (Pb) (DIS)	0.04	0.07	0.03 J	0.03	0.04	0.03
Manganese (Mn) (DIS)	2.7	3.6				
Zinc (Zn) (DIS)	6.2	7.04	3	3.04	2.7	2.2

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.7				2.2	2.05
pH	7.9		7.8		7.8	7.1
Depth To Water Level (ft)	12.6		12.8	12.8	12.6	12.6
pH (Fld)	7		7.2	7.2	7.4	6.2
SC (umhos/cm at 25 C) (Fld)	1718		1640	1633	1852	1790
SC (umhos/cm at 25 C)	1740		1650		1750	1550
Total Suspended Solids	4.8					
TDS (Measured at 180 C)	1487 M	1370	1241 J		1275	1533
Water Temperature (C) (Fld)	11.9		8.8	8.8	11.3	11.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-23	DH-23	DH-23	DH-23	DH-23	DH-23
Water	SAMPLE DATE	10/23/1989	4/29/1990	12/4/1990	5/8/1991	11/19/1991	4/28/1992
	SAMPLE TIME	00:00	00:00	00:00	00:00	14:00	16:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-835	90-1057	90-2249	91-2691	91-3875	92-4351
	SAMPLE NUMBER	AEH-8910-420	AEH-9005-420	AEH-9011-725	AEH-9105-158	AEH-9111-324	AEH-9204-158
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	103	88.7	57 J	80	66 J	54 J
Sulfate (SO4)	800	631	582 J	622	565	354

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	7.7 J	5	4.2	4.4	4.8	2.7
Arsenic III (dis)	7.3	3.9	4.2	2.6 J	1.02	0.2
Arsenic V (dis)	0.07 J	1.2	0.02	1.5 J	4.5	2.6
Cadmium (Cd) (DIS)	0.2	0.08	0.09	0.1	0.2	0.5
Copper (Cu) (DIS)	0.03	0.02	0.02	0.03	0.01	0.02
Lead (Pb) (DIS)	0.02	0.03	0.02	0.03	0.04	0.02
Zinc (Zn) (DIS)	2.8 J	1.4		1.9	2.3	2.6

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.2	3.6	2.9	3.8	1.8	2.1
pH	7.7	8	7.9	8	7.3	8.3
Depth To Water Level (ft)	12.6	12.3	13.1	12.7	12.6	11.8
pH (Fld)	6.9	7.6	7.9	7.8	7.4	7.3
SC (umhos/cm at 25 C) (Fld)	1925	1735	1699	1669	1580	1183
SC (umhos/cm at 25 C)	1980	1650	1560	1700	1690	1150
TDS (Measured at 180 C)	1422 J	1221	1177 J	1224	1257 J	798
Water Temperature (C) (Fld)	15.3	9.3	12.2	10.9	18.7	13.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-23	DH-23	DH-23	DH-23	DH-23	DH-23
Water	SAMPLE DATE	11/19/1992	5/5/1993	11/11/1993	5/11/1994	11/15/1994	5/15/1995
	SAMPLE TIME	17:40	14:50	09:30	16:20	13:30	17:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	92-6819	93-7829	93-9224	94-1351	94-3367	95-4515
	SAMPLE NUMBER	EHC-9211-176	EHC-9305-155	EHC-9311-119	EHC-9405-124	EHC-9411-123	EHC-9505-124
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)	91	118				
Chloride (Cl)	37	75	83 J	108	96	91
Magnesium (Mg) (Dis)	14	20				
Potassium (K) (Dis)	29	38				
Sodium (Na) (Dis)	110	167				
Sulfate (SO4)	341	438	488 J	478 J	415	396
Total Hardness As CaCO3		377				

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	2.5	3	2 J	4.01	2.6	2.9
Arsenic III (dis)	0.2 J	0.2 J	0.2 J	0.1	0.4 J	0.02
Arsenic V (dis)	3.3 J	2	2	3.2 J	2 J	3.3
Cadmium (Cd) (DIS)	0.4	0.2	0.4	0.2	0.3	0.2
Copper (Cu) (DIS)	0.01	0.02	0.02	0.02	0.02	0.03
Lead (Pb) (DIS)	0.009 J	0.03	0.02	0.03 J	0.02 J	0.02
Zinc (Zn) (DIS)	2.2	2.05	2.2	1.6	1.3	1.3

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.2	2.8	2.8	3.3	2.9	3.9
pH	8				7.5	8.3
Depth To Water Level (ft)	11.8	11.8	11.8	11.7	11.8	11.6
pH (Fld)	7.4	7.6	6.9	7.4	7.6	8.01
SC (umhos/cm at 25 C) (Fld)	1032	1367	1423	1640	1395	1358
SC (umhos/cm at 25 C)	1100	1350	1500 J	1610 J	1420	1340 J
TDS (Measured at 180 C)	740	1092	1059	1074	992	914 J
Water Temperature (C) (Fld)	12.4	10.9	11.8	13.9	12.9	10.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-23	DH-23	DH-23	DH-23	DH-23	DH-23
Water	SAMPLE DATE	11/13/1995	5/10/1996	11/11/1996	5/7/1997	11/10/1997	5/7/1998
	SAMPLE TIME	12:15	19:00	13:30	11:15	13:35	10:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-6146	96-6778	96-7778	97-939	192-2744	260-3754
	SAMPLE NUMBER	EHC-9511-126	EHC-9605-113	EHC-9611-113	EHC-9705-112	EHC-9711-109	EHC-9805-114
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)							137
Calcium (Ca) (DIS)							201
Chloride (Cl)	60 J	77	90	108	281		192
Magnesium (Mg) (DIS)							17
Potassium (K) (DIS)							58 J
Sodium (Na) (DIS)							267
Sulfate (SO4)	584 J	399	472 J	513	1152		735
Total Alkalinity As CaCO3							112

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	3.006	2.5	2.4	2.5	1.2		1.5
Arsenic III (dis)	0.004	0.08 J	<0.004	<0.005	0.04		0.09 J
Arsenic V (dis)	3.3 J	2.4 J	2.1 J	2.3 J	1.06		1.3
Cadmium (Cd) (DIS)	0.3	0.2	0.3	0.2 J	0.5		0.5
Copper (Cu) (DIS)	0.03	0.03	0.06	0.04	0.03		0.05 J
Iron (Fe) (DIS)							<0.05
Lead (Pb) (DIS)	0.03	0.02	0.03	0.04	0.06		0.04
Manganese (Mn) (DIS)							1.7
Zinc (Zn) (DIS)	1.5	1.3	1.4	1.2 J	2.4		1.6

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.2	3.5	3.6	3.7	1.9		4.8
pH	7.5	7.7	8	7.7	7.7		7.6
Depth To Water Level (ft)	11.9	11.9	12	11.9	11.3		12
pH (Fld)	7.3	7.3	7.3	7.6	7.7		7.2
SC (umhos/cm at 25 C) (Fld)	1173	1358	1580	1578	2920		1941
SC (umhos/cm at 25 C)	1220 J	1270	1506	1621	2960		2180
Total Suspended Solids					<1		
TDS (Measured at 180 C)	796	930	1098	1158	2297		1682
Water Temperature (C) (Fld)	13.1	9.9	12.4	9.7	12.4		9.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-23	DH-23	DH-23	DH-23	DH-23	DH-23	
Water	SAMPLE DATE	5/7/1998	11/19/1998	5/10/1999	11/11/1999	5/8/2000	5/8/2000	
	SAMPLE TIME	11:00	16:40	19:00	16:00	14:05	14:20	
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	
	LAB NUMBER	261-3778	314-4467	347-4888	L992007010	L000705018	L000705034	
	SAMPLE NUMBER	EHC-9805-151	EHC-9811-113	EHC-9905-113	EHC-9911-126	EHC-0005-125	EHC-0005-169	
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
	GROUP	RI	RI	RI	RI	RI	RI	
	DESCRIPTION							
	REMARKS	Field Duplicate					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	139	159	111 J	154	162	168
Calcium (Ca) (DIS)	204	139	138	151	179	180
Carbonate As CO3			<1 UJ	<1	<1	<1
Chloride (Cl)	182	101	110	108	171	181
Magnesium (Mg) (DIS)	17	17	20	24	36	38
Potassium (K) (DIS)	57 J	49	37	37	38	35
Sodium (Na) (DIS)	222	145	156	142	164	145
Sulfate (SO4)	751	550	659	520	721	694
Total Alkalinity As CaCO3	114	130	91 J	126	133	138

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.5	1.7	1.3	1.3	1 J	1.3 J
Arsenic III (dis)	0.1 J	0.05	0.04	0.03	0.1 J	0.09 UJ
Arsenic V (dis)	1.4	1.4 J	1.4	1.3	1.1	1.2
Cadmium (Cd) (DIS)	0.5	0.6	0.6	0.5	0.5 J	0.6 J
Copper (Cu) (DIS)	0.03 J	0.04	0.04	0.06 J	0.04	0.04
Iron (Fe) (DIS)	0.06	<0.02	0.09 UJ	<0.02 J	0.06 U	0.06 U
Lead (Pb) (DIS)	0.04	0.04	0.04	0.04	0.05	0.06
Manganese (Mn) (DIS)	1.7	1	0.9	0.8	1	0.9
Zinc (Zn) (DIS)	1.6	2.1	2.09	1.6 J	1.4 J	1.9 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	4.8	3.5	5.4	3.9	5.5	5.5
pH	7.7	7.2	7.8	7.9	7.8	7.7
Depth To Water Level (ft)		11.8	11.8	11.8	11.8	
Eh (millivolts)		428	339	406	308	307
pH (Fid)	7.2	7.3	7.5	7.6	6.8	6.8
SC (umhos/cm at 25 C) (Fid)	1933	1556	1439	1641	1896	1896
SC (umhos/cm at 25 C)	2120	1618	1574	1690	1928	1918
Total Suspended Solids				<1		
TDS (Measured at 180 C)	1586	1121	1169	1309	1374	1358
Water Temperature (C) (Fid)	9.5	12.8	9.9	14.1	11.7	11.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-23	DH-23	DH-23	DH-23	DH-23	DH-23
Water	SAMPLE DATE	11/13/2000	5/8/2001	11/15/2001	5/30/2002	11/15/2002	6/1/2003
	SAMPLE TIME	12:15	09:45	14:15	17:55	15:30	12:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001897016	L010655009	L011573003	L020396012	L020950020	L030244011
	SAMPLE NUMBER	EHC-0011-126	EHC-0105-126	EHC-0111-125	EHC-0205-130	EHC-0211-127	AEH-0306-151
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	146	146	144	155	178	168
Calcium (Ca) (DIS)	194	221	173	134	154	108
Carbonate As CO3	<1		<1	<1	<1	<2
Chloride (Cl)	185	302	231	139	115 J	80
Magnesium (Mg) (DIS)	37	47	37	31	31	24
Potassium (K) (DIS)	42	53	43	30	41	31
Sodium (Na) (DIS)	209	333	246	190	164	129
Sulfate (SO4)	897	1130	904	626	595	488
Total Alkalinity As CaCO3	120	120	118	127	146	138

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.01	<0.05	<0.05	<0.05	<0.05	
Arsenic (As) (DIS)	1	1.1	1	1.1	1	0.9
Arsenic III (dis)	0.3	0.5	0.5	0.4	0.5	0.8
Arsenic V (dis)	1	0.7	0.6	0.7	0.4	0.1 J
Cadmium (Cd) (DIS)	0.6	0.5	0.5	0.3	0.4	0.4
Copper (Cu) (DIS)	0.04 J	0.03	0.04	0.03	0.04 UJ	0.04
Iron (Fe) (DIS)	0.3 U	0.08	0.04	0.02	0.02	0.02
Lead (Pb) (DIS)	0.06 J	0.06	0.06 U	0.05	0.05	0.05
Manganese (Mn) (DIS)	1.4	1.5	1.2	0.6	1.3	1.1
Zinc (Zn) (DIS)	2.3	2.1	2.7	1.7	2.4	3.1

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			92.8	-43.8		
Oxygen (O) (DIS) (Fld)	1.9	2.5	2.01	2.2	3.7	2.3
pH	7.9	7.9	7.1	7.9	7.5	7.3
Silicon+Silica (Si+SiO2)	20	18	20	17	19	
Depth To Water Level (ft)	11.8	11.7	12.1	12.1	12	11.8
Eh (millivolts)	170	432	326			
pH (Fld)	7.02	7.2	6.8	7.7	7.2	7.2
SC (umhos/cm at 25 C) (Fld)	2093	2470	1981	1770	1560	1460
SC (umhos/cm at 25 C)	2360	2840	2230	1743	1636	1473
Total Suspended Solids		2.6	<1	1.5 J	2.2 J	6.4
TDS (Measured at 180 C)	1767	2129	1620	1218	1117 J	1013
Salinity (G/KG) (Fld)					0.7	0.6
Turbidity (NTU) (Fld)					1	1
Water Temperature (C) (Fld)	12.7	10	14.6	8.6	12.6	9.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-23	DH-23	DH-23	DH-23	DH-23	DH-23
Water	SAMPLE DATE	6/1/2003	10/26/2003	5/27/2004	11/1/2004	5/19/2005	11/18/2005
	SAMPLE TIME	12:30	16:00	14:25	13:40	13:40	14:15
	LAB	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel
	LAB NUMBER	L030244012	L030600016	H04050208-017	H04110018-008	C05050744-011	H05110164-013
	SAMPLE NUMBER	AEH-0306-152	AEH-0310-375	AEH-0405-215	AEH-0411-178	AEH-0505-211	AEH-0511-221
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	165	183	200	210	210	200
Calcium (Ca) (DIS)	112	124	112	110	110	89
Carbonate As CO3	<2	<2				
Chloride (Cl)	85	68	62	50	36	35
Magnesium (Mg) (DIS)	25	25	23	21	22	17
Potassium (K) (DIS)	33	33	29	32	24	23
Sodium (Na) (DIS)	131	136	118	108	99	102
Sulfate (SO4)	481	411	340	329	352	249
Total Alkalinity As CaCO3	135	150	160	170	172	160

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.9	0.9	1.006	1.124	1.12	0.94
Arsenic III (dis)	0.7	0.9	0.087 J	0.11	0.08	0.06
Arsenic V (dis)	0.2 J	0.09	1.4	1	1	1.1
Cadmium (Cd) (DIS)	0.4	0.4	0.297	0.229	0.272	0.229
Copper (Cu) (DIS)	0.04	0.05	0.036	0.03	0.044	0.038
Iron (Fe) (DIS)	0.02	<0.03	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	0.05	0.06	0.045	0.058	0.056	0.061
Manganese (Mn) (DIS)	1.1	1.1	0.74	0.55	0.39	0.57
Zinc (Zn) (DIS)	3	2.6	2.09	1.14	1.84	1.47

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		1.31	2.26	2.33	3.43	1.78
pH	7.3	7.8	7.9	7.8	7.97	8
Depth To Water Level (ft)		12.12	11.87	11.81	11.83	11.84
pH (Fld)		7.53	7.58	7.41	7.63	7.36
SC (umhos/cm at 25 C) (Fld)		1320	1244	1278	1133	1070
SC (umhos/cm at 25 C)	1467	1371	1230	1100	1120	1010
Total Suspended Solids	5.2	5.5	18	13 J	<10	<10
TDS (Measured at 180 C)	1032	967	987	872	760	689
TDS - Calculated					767	
Salinity (G/KG) (Fld)		0.5				
Turbidity (NTU) (Fld)		3				
Water Temperature (C) (Fld)		13.6	9.7	13	8.77	12.64

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-23	DH-23	DH-23	DH-23	DH-23	DH-23
Water	SAMPLE DATE	5/10/2006	11/20/2006	5/18/2007	12/7/2007	12/7/2007	5/9/2008
	SAMPLE TIME	14:50	14:50	14:05	09:45	10:10	11:00
	LAB	ELI-Hel	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06050126-004	H06110172-003	H07050225-002	H07120076-001	H07120076-002	H08050176-006
	SAMPLE NUMBER	AEH-0605-217	AEH-0611-224	AEH-0705-186	AEH-0711-206	AEH-0711-207	AEH-0805-198
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	210	210	220			220
Bicarbonate (HCO3) (dis)				230	230	
Calcium (Ca) (DIS)	99	92	80	78	81	73
Chloride (Cl)	26	19	18	18	19	17
Magnesium (Mg) (DIS)	17	16	14	13	13	12
Potassium (K) (DIS)	21	24	18	19	19	17
Sodium (Na) (DIS)	94	71	88	99	98	94
Sulfate (SO4)	294	237	252	280	266	230
Total Alkalinity As CaCO3	170	170	180	190	190	180

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)				<0.005	<0.005	<0.005
Selenium-VI (DIS)				0.0402	0.0368	0.0415
Aluminum (Al) (DIS)						<0.1
Antimony (Sb) (DIS)						0.184
Arsenic (As) (DIS)	1.025 J	1.168	1.183	1.276	1.296	1.207
Arsenic III (dis)	0.01	<0.1	<0.0141 J	<0.0141	<0.0141	<0.005
Arsenic V (dis)	1.2	1 J	1.12 J	1.16 J	1.43 J	1.41
Barium (Ba) (DIS)						<0.1
Beryllium (Be) (DIS)						<0.001
Cadmium (Cd) (DIS)	0.23	0.238	0.182	0.193	0.201	0.134
Chromium (Cr) (DIS)						<0.001
Cobalt (Co) (DIS)						<0.01
Copper (Cu) (DIS)	0.041	0.048	0.044	0.047	0.047	0.036
Iron (Fe) (DIS)	<0.02	<0.02	0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	0.051	0.057	0.084	0.046	0.046	0.043
Manganese (Mn) (DIS)	0.28	0.26	0.27	0.32	0.28	0.47
Mercury (Hg) (DIS)						<0.006
Nickel (Ni) (DIS)						0.01
Selenium (Se) (DIS)				0.038	0.039	0.049
Silver (Ag) (DIS)						<0.005
Thallium (Tl) (DIS)						0.063
Vanadium (V) (DIS)						<0.01
Zinc (Zn) (DIS)	1.32	1.49	1.06	1.16	1.18	0.86

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential		53.9				
Oxygen (O) (DIS) (Fld)	2.21	3.03	4.42	1.8		1.73
pH	7.8	7.7	7.9	8.1	8.1	7.8
Depth To Water Level (ft)	11.45	11.65	12.05	11.9		8.08
pH (Fld)	7.22	7.49	7.74	7.52		7.62

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-23	DH-23	DH-23	DH-23	DH-23	DH-23
Water	SAMPLE DATE	5/10/2006	11/20/2006	5/18/2007	12/7/2007	12/7/2007	5/9/2008
	SAMPLE TIME	14:50	14:50	14:05	09:45	10:10	11:00
	LAB	Hydro	Hydrometrics	Hydrometrics	Hydrometrics	ELI	Hydrometrics
	LAB NUMBER	H06050126-004	H06110172-003	H07050225-002	H07120076-001	H07120076-002	H08050176-006
	SAMPLE NUMBER	AEH-0605-217	AEH-0611-224	AEH-0705-186	AEH-0711-206	AEH-0711-207	AEH-0805-198
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Physical/Fid-Lab: ppm unless noted</b>							
	SC (umhos/cm at 25 C) (Fld)	976	913	903	971		884
	SC (umhos/cm at 25 C)	995	892	878	890	888	885
	Total Suspended Solids	<10 J	<10	13	<10	<10	<10
	TDS (Measured at 180 C)	696	641	621	628	617	592
	Water Temperature (C) (Fld)	9.46	12.53	9.39	11.2		8.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-23	DH-23	DH-24	DH-24	DH-24
Water	SAMPLE DATE	11/10/2008	5/14/2009	6/11/1987	6/11/1987	6/11/1987
	SAMPLE TIME	13:45	11:35	00:00	00:00	00:00
	LAB	ELI	ELI	CHMTC	TSC-SLC	CHMTC
	LAB NUMBER	H08110106-011	H09050233-008	8706-20	87-4235	8706-39
	SAMPLE NUMBER	AEH-0811-205	AEH-0905-212	AEH-8706-20	AEH-8706-20	AEH-8706-39
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Split		Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	240	210	<3	50	
Calcium (Ca) (DIS)	71	70	201	188	207
Carbonate As CO3				<1	
Chloride (Cl)	12	12	165	150	
Magnesium (Mg) (DIS)	12	13	79.2	80.5	80.9
Potassium (K) (DIS)	14	16	13.8	26.4	13.7
Sodium (Na) (DIS)	58	76	334	390	334
Sulfate (SO4)	170	230	1530	1550	
Total Alkalinity As CaCO3	200	170			

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005				
Selenium-VI (DIS)	0.023				
Aluminum (Al) (DIS)	<0.1	<0.1			
Antimony (Sb) (DIS)	0.157	0.179			
Arsenic (As) (DIS)	1.13	1.03	5	80.5	81.8
Arsenic III (DIS)	0.0706 J			100 M	
Arsenic V (DIS)	0.804 J			2.4	
Barium (Ba) (DIS)	<0.1	<0.1			
Beryllium (Be) (DIS)	<0.001	<0.001			
Cadmium (Cd) (DIS)	0.22	0.139	0.4	0.4	0.4
Chromium (Cr) (DIS)	<0.001	<0.001			
Cobalt (Co) (DIS)	<0.01	0.0068			
Copper (Cu) (DIS)	0.045	0.032	0.03	0.02 M	0.05
Gold (Au) (DIS)		<0.01			
Iron (Fe +2) (TOT)				78.5	
Iron (Fe) (DIS)	0.03	0.03	63.5	52.5	64.6
Lead (Pb) (DIS)	0.054	0.042	<0.03	<0.005	<0.03
Manganese (Mn) (DIS)	0.32	0.64	31.8	32.6	32.3
Mercury (Hg) (DIS)	<0.006	<0.0001			
Nickel (Ni) (DIS)	0.03	0.03			
Selenium (Se) (DIS)	0.027	0.029			
Silver (Ag) (DIS)	<0.005	<0.005 J			
Tellurium (Te) (DIS)		<0.1			
Thallium (Tl) (DIS)	0.076	0.059			
Vanadium (V) (DIS)	<0.01	<0.01			
Zinc (Zn) (DIS)	1.48	1.14		32	

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.14	0.94		5.8	
pH	7.8	7.9		3.5	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-23	DH-23	DH-24	DH-24
Water	SAMPLE DATE	11/10/2008	5/14/2009	6/11/1987	6/11/1987
	SAMPLE TIME	13:45	11:35	00:00	00:00
	LAB	Hydrometrics	Hydrometrics	CHMTC	TSC-SLC
	LAB NUMBER	H08110106-011	H09050233-008	8706-20	87-4235
	SAMPLE NUMBER	AEH-0811-205	AEH-0905-212	AEH-8706-20	AEH-8706-20
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS			Split	

**Physical/Fld-Lab: ppm unless noted**

Depth To Water Level (ft)	12.19	11.71		28.4
pH (Fld)	7.22	7.76		5.9
SC (umhos/cm at 25 C) (Fld)	762	805		3198
SC (umhos/cm at 25 C)	756	819		3500
Total Suspended Solids	<10	<10		
TDS (Measured at 180 C)	491	529	2640	2888
Water Temperature (C) (Fld)	12.1	8.6		12

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-24	DH-24	DH-24
Water	SAMPLE DATE	6/11/1987	8/12/1987	8/12/1987	11/24/1987	4/19/1988	12/21/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-4236	8708-12	87-6644	87-10789	88-2774	89-44
	SAMPLE NUMBER	AEH-8706-39	AEH-8708-12	AEH-8708-12	AEH-8711-239	AEH-8804-323	AEH-8812-142
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate	Split				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		<5	70	29	<1	
Calcium (Ca) (DIS)		224	205	204	188	
Carbonate As CO3		<5	<1	<1	<1	
Chloride (Cl)		200	200	190	188 J	118
Magnesium (Mg) (DIS)		78.7	89	84	69	
Potassium (K) (DIS)		23.3	29.6	31.3	34	
Sodium (Na) (DIS)		403	391	380	470 J	
Sulfate (SO4)		1600	1640 M	1670	1671	1700

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	79.4	43.2	75	81.3	89 J	90
Arsenic III (dis)	76 M		92	72.8 M	68.1	82.4
Arsenic V (dis)	2.6		3.04	6.2	2.3	3.6
Cadmium (Cd) (DIS)	0.4	0.5	0.3	0.4	0.3	0.2
Copper (Cu) (DIS)	0.02 M	0.02	0.02	0.03		0.01
Iron (Fe +2) (TOT)	80		87.2	82.8	87.5	47.5
Iron (Fe) (DIS)	52	67.3	57.6	40.3	50	
Lead (Pb) (DIS)	<0.005	<0.002	<0.005	<0.01	0.04 J	0.05
Manganese (Mn) (DIS)	32.1	31	36.8	30.9		
Zinc (Zn) (DIS)	32	32	35.8 M	31	26.5	25.6

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.8		1.6	1.7	1.9	1.6
pH			3.2	3.3	5.6	3.2
Depth To Water Level (ft)	28.4		16.3 A	28.4	30.3	30.7
pH (Fld)	5.9		5.2	5.5	5.6	3.6
SC (umhos/cm at 25 C) (Fld)	3197		4807 M	2143 M	3605	3380
SC (umhos/cm at 25 C)			3560	3450	3400	3300
Total Suspended Solids				80.7		
TDS (Measured at 180 C)		2890	2881	2882 M	2971 J	2519
Water Temperature (C) (Fld)	12		11.5	10.7	10.5	10.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-24	DH-24	DH-24	
Water	SAMPLE DATE	12/21/1988	4/19/1989	10/18/1989	5/1/1990	5/1/1990	12/5/1990	
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00	
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	
	LAB NUMBER	89-45	89-506	89-823	90-1066	90-1078	90-2261	
	SAMPLE NUMBER	AEH-8812-149	AEH-8904-221	AEH-8910-421	AEH-9005-421	AEH-9005-429	AEH-9011-726	
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
	GROUP	RI	RI	RI	RI	RI	RI	
	DESCRIPTION							
	REMARKS	Field Duplicate				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	140	145	175	178		149 J
Sulfate (SO4)	1700	1408	1675 J	1711		1325 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	90	87	78 J	98.2	96.3	82.5
Arsenic III (dis)	87	84.7	77.8	102	103	92.5
Arsenic V (dis)	4.05	4.2	6.8	0.2 J	2.5	0.3
Cadmium (Cd) (DIS)	0.2	<0.002	0.2	0.2	0.2	0.2
Copper (Cu) (DIS)	0.01	<0.008 J	0.009	0.02	0.02	<0.008
Iron (Fe +2) (TOT)	47.5	36				
Lead (Pb) (DIS)	0.05	<0.02	<0.005 UJ	0.03	<0.03 UJ	<0.005
Zinc (Zn) (DIS)	23.1	17	20.5 J	20.5	20.8	

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		1.8	2.6	2.8		1.9
pH	3.4	5.7	6.6	5.8		4.8
Depth To Water Level (ft)		30.1	26.5	31		30.3
pH (Fld)		5.9	5.6	5.7		6.4
SC (umhos/cm at 25 C) (Fld)	3371	3371	3741	3833	3845	3154
SC (umhos/cm at 25 C)	3200	3100	3500	3800		3280
TDS (Measured at 180 C)	2860	2910	3080	2881 J		2078 J
Water Temperature (C) (Fld)		14	12.9	7.7		9.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-24	DH-24	DH-24
Water	SAMPLE DATE	12/5/1990	5/8/1991	11/20/1991	4/29/1992	4/29/1992	11/20/1992
	SAMPLE TIME	00:00	00:00	16:00	10:30	13:30	15:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	90-2265	91-3053	91-3881	92-4361	92-4365	92-6804
	SAMPLE NUMBER	AEH-9011-735	AEH-9105-162	AEH-9111-310	AEH-9204-153	AEH-9204-169	EHC-9211-137
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)						239 J
Chloride (Cl)	146 J	181	133 J	193 J	192 J	210
Magnesium (Mg) (Dis)						98
Potassium (K) (Dis)						26
Sodium (Na) (Dis)						483
Sulfate (SO4)	1343 J	1340	1100	1472	1460 J	1605

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	81.1	91	58	74	70	56
Arsenic III (dis)	81.5		64	62.1	59.7	43
Arsenic V (dis)	0.2		9.9	5.2	3.6	2.8 J
Cadmium (Cd) (DIS)	0.2	0.2	0.1	0.3	0.3	0.6
Copper (Cu) (DIS)	<0.008	0.01	0.004	0.02	0.02	0.006
Lead (Pb) (DIS)	<0.005	0.005	<0.005 J	0.03 UJ	0.03 U	0.006 J
Zinc (Zn) (DIS)		12.8	12	23.6	22.7	27

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.9	2.1	2.2	1.4	1.4	2.7
pH	4.6	4.4	5.2	4.05	4.03	3.6
Depth To Water Level (ft)	30.3	31.4	25.7	29.1	29.1	27.3
pH (Fld)	6.4	6.3	6.4	5.9	5.9	5.7
SC (umhos/cm at 25 C) (Fld)	3216	3185	2622	3500	3460	3475
SC (umhos/cm at 25 C)	3230	3250	2530	3400	3420	3850
TDS (Measured at 180 C)	2355 J	2399	2067 J	2690	2657	3020
Water Temperature (C) (Fld)	9.3	12.7	15	13.7	13.7	11.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-24	DH-24	DH-24
Water	SAMPLE DATE	5/5/1993	11/11/1993	5/12/1994	11/17/1994	5/16/1995	11/13/1995
	SAMPLE TIME	20:00	17:00	08:40	16:40	09:20	16:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-7832	93-9274	94-1385	94-3389	95-4516	95-6147
	SAMPLE NUMBER	EHC-9305-158	EHC-9311-120	EHC-9405-125	EHC-9411-125	EHC-9505-125	EHC-9511-127
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)	233					
Chloride (Cl)	208	137 J	229	158	155	114 J
Magnesium (Mg) (Dis)	94					
Potassium (K) (Dis)	32					
Sodium (Na) (Dis)	459					
Sulfate (SO4)	1457	1127 J	1162 J	1162	1152	1021 J
Total Hardness As CaCO3	969					

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	66	47 J	53.2	47.9	58.9	46.9
Arsenic III (dis)	57	48.4 J	47	38.2	54.4	46.2
Arsenic V (dis)	4.6	8.6	8.9 J	7.09 J	12.2	4.5
Cadmium (Cd) (DIS)	0.5	0.3	0.4	0.3	0.3	0.3
Copper (Cu) (DIS)	0.004	0.007	<0.004	0.01	0.007	<0.004
Lead (Pb) (DIS)	0.008	<0.005	<0.005 JU	<0.005	0.007	<0.005 J
Zinc (Zn) (DIS)	23	16.8	22	17.5	17.8	14.9

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2	2.6	1.6	2.9	1.6	1.9
pH				4	3.4	3.9 J
Depth To Water Level (ft)	28.5	25.4	28.5	27.9	29.8	26
pH (Fld)	5.5	5.9	5.7	6	6.1	5.9
SC (umhos/cm at 25 C) (Fld)	3295	2485	2770	2640	2490	2210
SC (umhos/cm at 25 C)	3400	2620 J	2960 J	2650	2630 J	2310 J
TDS (Measured at 180 C)	2804	2029	2274	2089 J	2000 J	1738
Water Temperature (C) (Fld)	12.2	10.7	12.5	9.6	11.3	11.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-24	DH-24	DH-24
Water	SAMPLE DATE	11/13/1995	5/14/1996	11/12/1996	11/12/1996	5/7/1997	11/7/1997
	SAMPLE TIME	16:15	16:30	09:15	09:30	17:00	10:35
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-6151	96-6779	96-7788	96-7791	97-940	192-2748
	SAMPLE NUMBER	EHC-9511-175	EHC-9605-114	EHC-9611-114	EHC-9611-155	EHC-9705-113	EHC-9711-114
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	110 J	144	102	110	57	63
Sulfate (SO4)	944 J	928	823 J	887 J	616	688

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	48	38.5	33.7	31.9	38.4	25.8
Arsenic III (dis)	43.8	44.9 J	29.1	27	36.9	19.8
Arsenic V (dis)	5.2	2.7 J	2.3 J	4.02 J	1.8 J	3.5 J
Cadmium (Cd) (DIS)	0.2	0.3	0.2	0.2	0.2	0.1
Copper (Cu) (DIS)	<0.004	0.009	0.03	0.03	0.006	0.01 J
Lead (Pb) (DIS)	0.007	0.007	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	15.2	11.2	10.4	10.2	8.3	6.7

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.9	2.3	2.5	2.5	1.07	2.5
pH	4.1 J	5.6	5.5	5	5.4	5.8
Depth To Water Level (ft)	26	27.8	27.5	27.5	29.3	24.9
pH (Fld)	5.8	5.9	6	6	6.9	6.3
SC (umhos/cm at 25 C) (Fld)	2210	2180	1706	1706	1427	1530
SC (umhos/cm at 25 C)	2270	2000	1800	1892	1455	1551
Total Suspended Solids						16 J
TDS (Measured at 180 C)	1726	1649	1431	1473	1153	1216 J
Water Temperature (C) (Fld)	11.2	12.3	9.5	9.5	11.1	10.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-24	DH-24	DH-24
Water	SAMPLE DATE	11/7/1997	5/11/1998	11/20/1998	11/20/1998	5/11/1999	5/11/1999
	SAMPLE TIME	10:50	09:30	08:45	09:00	13:50	14:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	193-2759	262-3788	312-4440	312-4445	347-4903	348-4906
	SAMPLE NUMBER	EHC-9711-154	EHC-9805-115	EHC-9811-114	EHC-9811-153	EHC-9905-114	EHC-9905-150
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate		Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		51 J	55	52	78 J	73 J
Calcium (Ca) (DIS)		81	74	73	28	26
Carbonate As CO3					<1 UJ	<1 UJ
Chloride (Cl)	62	43	43	44	17	16
Magnesium (Mg) (DIS)		33	27	27	11	11
Potassium (K) (DIS)		17	13	14	10	10
Sodium (Na) (DIS)		158	154	150	101	97
Sulfate (SO4)	667	619	566	546	226 J	318 J
Total Alkalinity As CaCO3		42 J	45	43	64 J	60 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	24.8	26.6	18.9	18.7	8.9	8.8
Arsenic III (dis)	22.05 J	25.5 J	18.2 J	18.4 J	3.5	3.5
Arsenic V (dis)	3.1	1.8	3.2 J	3.2 J	5.6	5.6
Cadmium (Cd) (DIS)	0.1	0.2	0.07	0.08	0.05	0.05
Copper (Cu) (DIS)	0.006 J	0.006	0.008	0.008	0.005	0.004
Iron (Fe) (DIS)		17.5	8.05	8.08	3.3	3.3
Lead (Pb) (DIS)	<0.005	<0.03	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		11.8	9.2	9.09	4.4	4.2
Zinc (Zn) (DIS)	6.4	8.03	4.8	4.8	2.3	2.2

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	2.02	1.5	1.7	1.7	1.8	1.8
pH	5.9	6.1	6	6	6.9	6.1
Depth To Water Level (ft)	24.9	29.1	26.5		28.7	
Eh (millivolts)			303	303	319	320
pH (Fid)	6.2	5.6	6.7	6.7	6.08	6.06
SC (umhos/cm at 25 C) (Fid)	1541	1398	1335	1335	735	736
SC (umhos/cm at 25 C)	1548	1488	1328	1325	718	761
Total Suspended Solids	21 J					
TDS (Measured at 180 C)	1197 J	1079	978	957	505	512 J
Water Temperature (C) (Fid)	10.8	12.4	10.4	10.4	10.7	10.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-24	DH-24	DH-24
Water	SAMPLE DATE	11/12/1999	11/12/1999	5/1/2000	5/1/2000	6/21/2000	8/3/2000
	SAMPLE TIME	13:30	13:45	10:30	10:45	15:25	13:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L992007011	L992009012	L000703007	L000704005	L000964011	L001239012
	SAMPLE NUMBER	EHC-9911-127	EHC-9911-176	EHC-0005-126	EHC-0005-162	EHST-0006-310	EHST-0008-111
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	62	63	73	62	5	
Calcium (Ca) (DIS)	48	49	54	49	46	46
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Chloride (Cl)	22	21	44	44	35	30
Magnesium (Mg) (DIS)	18	19	22	21	19	18
Potassium (K) (DIS)	12	13	14	13	10	12
Sodium (Na) (DIS)	115	113	129	113	117	109
Sulfate (SO4)	337	331	412	435	381	
Total Alkalinity As CACO3	51	52	60	51		

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	13	13	20	19	16	20
Arsenic III (dis)	9.4	11	16	17	13	14
Arsenic V (dis)	2.5	2.5	3.3	3.5	3.4	5.9 J
Cadmium (Cd) (DIS)	0.07	0.07	0.1	0.1	0.1	0.1
Copper (Cu) (DIS)	0.08 J	0.02 J	0.01	0.01		
Iron (Fe) (DIS)	1.9 J	2 J	12	12 J	7.5	11
Lead (Pb) (DIS)	<0.005	0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	4.6	4.7	7.9	7.4	6.5	6.7
Zinc (Zn) (DIS)	2.5 J	2.2 J	4.7	4.7	4.5	4.3

**Physical/Fid-Lab: ppm unless noted**

Iron (Fe) (Fid)					7.9	
Iron (Fe+2) (Fid)					7.7	10.4
Oxygen (O) (DIS) (Fid)	1.2	1.2	3.6	3.6	1.3	0.9
pH	6.4	6.4	6.1	6	6.1	6
Depth To Water Level (ft)	25.8		29.2		28	27.7
Eh (millivolts)	261	263	460	459	251	247
pH (Fid)	6.2	6.2	6.02	6.01	5.9	6.2
SC (umhos/cm at 25 C) (Fid)	968	966	1146	1147	1005	1120
SC (umhos/cm at 25 C)	990	985	1123	1116	1024	1066
Total Suspended Solids	4 UJ	5.7 UJ				
TDS (Measured at 180 C)	935 J	702 J	782	763		
Water Temperature (C) (Fid)	13.3	13.3	11.9	11.9	13	13.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-24	DH-24	DH-24
Water	SAMPLE DATE	8/16/2000	8/16/2000	8/31/2000	8/31/2000	9/13/2000	9/22/2000
	SAMPLE TIME	14:15	14:30	14:40	14:55	16:00	12:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001333011	L001333012	L001441011	L001441012	L001513012	L001585003
	SAMPLE NUMBER	EHST-0008-210	EHST-0008-211	EHST-0008-310	EHST-0008-311	EHST-0009-111	EHST-0009-202
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	16	16	17	17	18	13
	Arsenic III (dis)	13	14	14	14	15	11
	Arsenic V (dis)	2.3	2.2	2.5	2.3	2	2.1
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Iron (Fe) (Fld)	8		9.2			9.2
	Iron (Fe+2) (Fld)	8.2		9			9.4
	Oxygen (O) (DIS) (Fld)	0.9	0.9	0.7	0.7	1.3	0.7
	Depth To Water Level (ft)	27.8		28.4		28.6	29.03
	Eh (millivolts)	277	277	266	267	270	286
	pH (Fld)	6.4	6.4	6.2	6.2	6.7	6.2
	SC (umhos/cm at 25 C) (Fld)	1031	1036	1006	980	1087	1055
	Water Temperature (C) (Fld)	13.4	13.4	13.1	13.1	13.5	10.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-24	DH-24	DH-24
Water	SAMPLE DATE	9/22/2000	10/3/2000	10/3/2000	10/17/2000	10/17/2000	11/3/2000
	SAMPLE TIME	12:15	14:30	14:45	15:40	15:55	14:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001585004	L001649009	L001649010	L001753005	L001753006	L001861009
	SAMPLE NUMBER	EHST-0009-203	EHST-0010-108	EHST-0010-109	EHST-0010-204	EHST-0010-205	EHST-0011-108
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate		Field Duplicate	
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	15	12	12	3.9 J	4 J	4.3
	Arsenic III (dis)	13	9.4	9.6	1.1	0.9	2.2
	Arsenic V (dis)	2.4	1.9	2.2	3.3		1.9
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Iron (Fe) (Fld)		9				
	Iron (Fe+2) (Fld)		9		4.4		5.8
	Oxygen (O) (DIS) (Fld)	0.8	0.7	0.7	1.3	1.3	1.03
	Depth To Water Level (ft)		29.1		29.1		28.7
	Eh (millivolts)	287			288	289	294
	pH (Fld)	6.3	5.8	5.8	5.9	5.9	6.03
	SC (umhos/cm at 25 C) (Fld)	1066	894	896	905	921	922
	Water Temperature (C) (Fld)	10.8	11.9	11.9	12.8	12.8	11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-24	DH-24	DH-24
Water	SAMPLE DATE	11/8/2000	12/20/2000	2/7/2001	5/10/2001	9/26/2001	9/26/2001
	SAMPLE TIME	12:05	15:15	10:50	15:20	13:25	13:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001873001	L002044012	L010183004	L010691022	L011367012	L011367013
	SAMPLE NUMBER	EHC-0011-127	EHST-0012-111	EHST-0102-103	EHC-0105-127	EHST-0109-111	EHST-0109-112
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	27	46		61	73	73
	Calcium (Ca) (DIS)	36	35		41		
	Carbonate As CO3	<1	<1			<1	<1
	Chloride (Cl)	32 J	28		24		
	Magnesium (Mg) (DIS)	15	15		17		
	Potassium (K) (DIS)	11	11		13		
	Sodium (Na) (DIS)	106	116		114 J		
	Sulfate (SO4)	354	337		349	297	265
	Total Alkalinity As CaCO3	22	38		50	60	60
<b>Metals (mg/L): ppm unless noted</b>							
	Aluminum (Al) (DIS)	0.7			0.7		
	Antimony (Sb) (DIS)			0.01			
	Arsenic (As) (DIS)	3.6	11	12	16	14	14
	Arsenic III (dis)	2.2	8.6	10	15	11	11
	Arsenic V (dis)	1.4	2.5	1.4	<0.005	3	3
	Cadmium (Cd) (DIS)	0.1	0.1	0.1	0.1	0.08	0.08
	Copper (Cu) (DIS)	0.03	0.02	0.1	0.05		
	Iron (Fe) (DIS)	6.8	6	2.6	4.2	3.6	3.6
	Lead (Pb) (DIS)	0.005	0.007	<0.003	0.006	0.008	0.008
	Manganese (Mn) (DIS)	5.2	5.4	3.3	5.7	4.4	4.4
	Mercury (Hg) (DIS)			0.0003			
	Selenium (Se) (DIS)			0.01			
	Thallium (Tl) (DIS)			<0.003			
	Zinc (Zn) (DIS)	3.2	3.2	2.6	3.6	2.6	2.6
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Iron (Fe) (Fld)					3.4	
	Iron (Fe+2) (Fld)		6.4			3.1	
	Oxygen (O) (DIS) (Fld)	2.6	1.01	1.4	7.3	0.9	0.8
	pH	5.9	6.2		7.1		
	Silicon+Silica (Si+SiO2)	38			43		
	Depth To Water Level (ft)	28.8	29.6	30.3	30.3	26	
	Eh (millivolts)	314	269	295	218	258	260
	pH (Fld)	6.2	6.2	6.6	6.5	5.5	5.4
	SC (umhos/cm at 25 C) (Fld)	966	1050	720	834	915	920
	SC (umhos/cm at 25 C)	931	942		940		
	Total Suspended Solids				16		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-24	DH-24	DH-24
Water	SAMPLE DATE	11/8/2000	12/20/2000	2/7/2001	5/10/2001	9/26/2001	9/26/2001
	SAMPLE TIME	12:05	15:15	10:50	15:20	13:25	13:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001873001	L002044012	L010183004	L010691022	L011367012	L011367013
	SAMPLE NUMBER	EHC-0011-127	EHST-0012-111	EHST-0102-103	EHC-0105-127	EHST-0109-111	EHST-0109-112
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
<b>Physical/Fid-Lab: ppm unless noted</b>							
	TDS (Measured at 180 C)	648	654		657		
	Water Temperature (C) (Fld)	11.2	11.1	9.1	12.8	11.7	11.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-24	DH-24	DH-24
Water	SAMPLE DATE	10/19/2001	11/2/2001	11/9/2001	11/20/2001	12/7/2001	12/19/2001
	SAMPLE TIME	15:45	09:44	11:20	00:00	10:55	11:00
	LAB	HYDRO	HYDRO	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	FIELD ONLY	FIELD ONLY	L011563018	L011587002	L011626001	L011661001
	SAMPLE NUMBER	EHST-0110-109	EHST-0111-110	EHC-0111-126	EHST-0111-201	EHST-0112-200	EHST-0112-400
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	62	56	48	156
Calcium (Ca) (DIS)	49			
Carbonate As CO3	<1	<1	<1	<1
Chloride (Cl)	69 J			
Magnesium (Mg) (DIS)	20			
Potassium (K) (DIS)	14			
Sodium (Na) (DIS)	121			
Sulfate (SO4)	355	201	206	406
Total Alkalinity As CaCO3	51	46	39	128

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	0.6			
Arsenic (As) (DIS)	17	16	18	12
Arsenic III (dis)	13	16	11	6.5
Arsenic V (dis)	3	1	7	5.5
Cadmium (Cd) (DIS)	0.1		0.1	0.1
Copper (Cu) (DIS)	0.05 J			
Iron (Fe) (DIS)	6.1		8.8	8.6
Lead (Pb) (DIS)	0.06 J		<0.005	<0.005
Manganese (Mn) (DIS)	6.2		7.6	7.9
Zinc (Zn) (DIS)	3.6		4.3	4.5

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)	4.4	5.1	6.4	
Iron (Fe+2) (Fld)	4	4.8	6.3	
Oxidation Reduction Potential			57.9	
Oxygen (O) (DIS) (Fld)	0.5	0.4	0.6	0.5
pH			6.8	
Silicon+Silica (Si+SiO2)			38	
Depth To Water Level (ft)	26.5	27.03	27.04	28.1
Eh (millivolts)	278		312	
pH (Fld)	6	5.9	6.7	5.9
SC (umhos/cm at 25 C) (Fld)	968	975	1054	1067
SC (umhos/cm at 25 C)			1019	
Total Suspended Solids			18 J	
TDS (Measured at 180 C)			722 J	
Water Temperature (C) (Fld)	11.4	11.6	11.7	11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-24	DH-24	DH-24
Water	SAMPLE DATE	1/10/2002	1/23/2002	1/23/2002	2/5/2002	2/19/2002	4/19/2002
	SAMPLE TIME	12:55	13:35	13:45	11:15	11:30	12:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020024002	L020042012	L020042013	L020075001	L020110001	L020278001
	SAMPLE NUMBER	EHST-0201-110	EHST-0201-311	EHST-0201-312	EHST-0202-400	EHST-0202-900	EHST-0204-100
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	49	21	21	24	40	32
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Sulfate (SO4)	380	554	575	526	504	586
Total Alkalinity As CaCO3	40	17	17	20	33	26

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	6.7	5.3	5.3	4.1	2	0.2
Arsenic III (dis)	3.2	1.8	1.7	0.9	0.4	0.1
Arsenic V (dis)	3.5	3.6	3.6	3.2	1.5	0.08
Cadmium (Cd) (DIS)	0.2	0.2	0.2	0.2	0.2	0.2
Copper (Cu) (DIS)					0.03	
Iron (Fe) (DIS)	8.3	8.8	8.8	9.1	5.2	0.2
Lead (Pb) (DIS)	<0.005	0.005	0.005	0.006	0.007	0.01
Manganese (Mn) (DIS)	7.9	8.6	8.6	9.9	10	11
Zinc (Zn) (DIS)	4.7	5.2	5.1	5.8	6.2	7.4

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.4	0.4	0.3	0.4	0.7	0.8
pH					6.4	
Depth To Water Level (ft)	29.06	29.4		29.8	31.2	37.2
pH (Fld)	6.02	5.6	5.6	5.9	5.8	5.3
SC (umhos/cm at 25 C) (Fld)	1194	1329	1320	1337	1356	1584
SC (umhos/cm at 25 C)					1398	
Water Temperature (C) (Fld)	11.4	11.5	11.5	11.6	11.7	11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-24	DH-24	DH-24
Water	SAMPLE DATE	5/10/2002	6/1/2002	6/6/2002	8/8/2002	9/12/2002	9/26/2002
	SAMPLE TIME	14:00	10:45	12:45	11:45	16:45	14:25
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020364001	L020412029	L020426001	L020638001	L020775001	L020829001
	SAMPLE NUMBER	EHST-0205-100	EHC-0205-131	EHST-0206-100	EHST-0208-100	EHST-0209-300	EHST-0209-600
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	35	35	31	46	44	41
Calcium (Ca) (DIS)		95	88			
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Chloride (Cl)		97	105			
Magnesium (Mg) (DIS)		37	38			
Potassium (K) (DIS)		18	18			
Sodium (Na) (DIS)		193	184			
Sulfate (SO4)	586 J	651	691	746	536	794
Total Alkalinity As CaCO3	29	29	25	38	36	34

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		1.4	1.4			
Arsenic (As) (DIS)	0.2	0.3	0.2	1.1	1.6	0.08
Arsenic III (dis)	0.08	0.08	0.09	0.5	1.1	0.06
Arsenic V (dis)	0.1	0.2	0.1	0.8	0.3	0.03
Cadmium (Cd) (DIS)	0.2	0.2	0.2			
Copper (Cu) (DIS)		0.1	0.1			
Iron (Fe) (DIS)	0.1	0.1	0.09	0.04	0.03	0.07
Lead (Pb) (DIS)	0.02	0.02	0.009			
Manganese (Mn) (DIS)	11	13	13			
Zinc (Zn) (DIS)	9	9	8.9			

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential		67.9				
Oxygen (O) (DIS) (Fld)	1.01	0.4	0.4	2.8	1.5	1.7
pH		6	6.2			
Silicon+Silica (Si+SiO2)		38	36			
Depth To Water Level (ft)	31.2	31.2	31.9	25.9	25.9	26.1
pH (Fld)	5.6	5.6	5.5	6	5.3	5.7
SC (umhos/cm at 25 C) (Fld)	1557	1650	1675	1305	1289	1181
SC (umhos/cm at 25 C)		1639	1639			
Total Suspended Solids		2.5	7.4			
TDS (Measured at 180 C)		1177	1185			
Water Temperature (C) (Fld)	11.7	11.3	12.7	11.2	11.8	11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-24	DH-24	DH-24
Water	SAMPLE DATE	9/26/2002	11/18/2002	11/18/2002	12/17/2002	12/17/2002	1/14/2003
	SAMPLE TIME	14:25	11:45	12:00	11:25	11:25	10:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020829009	L020959007	L020959008	L021034001	L021034-001	L030016-001
	SAMPLE NUMBER	EHST-0209-600A	EHC-0211-128	EHC-0211-250	EHST-0212-100	EHST-0212-100	EHST-0212-100
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)		39	39	37	30	36
	Calcium (Ca) (DIS)		72	85			
	Carbonate As CO3		<1	<1	<2	<2	<2
	Chloride (Cl)		110	103			
	Magnesium (Mg) (DIS)		29	34			
	Potassium (K) (DIS)		15	16			
	Sodium (Na) (DIS)		161	180			
	Sulfate (SO4)		650	645	607	607	602
	Total Alkalinity As CaCO3		32	32	30	30	36
<b>Metals (mg/L): ppm unless noted</b>							
	Aluminum (Al) (DIS)		1.3 J	1.6 J			
	Arsenic (As) (DIS)	1.2	2.2 J	1.3 J	1.1	1.1	1.5
	Arsenic III (dis)		0.9	0.8	1	0.98	1.5
	Arsenic V (dis)		0.5	0.5	0.2	0.22	<0.005
	Cadmium (Cd) (DIS)		0.2	0.2			
	Copper (Cu) (DIS)		0.08 UJ	0.07 UJ			
	Iron (Fe) (DIS)	0.03	0.03	0.04	0.03	0.027	0.68
	Lead (Pb) (DIS)		0.009	0.01			
	Manganese (Mn) (DIS)		9.6 J	12 J			
	Zinc (Zn) (DIS)		8.4	10			
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)		0.9		0.4	0.36	0.4
	pH		6.9	6.3			
	Silicon+Silica (Si+SiO2)		37	37			
	Depth To Water Level (ft)		27.9		28.7	28.69	29.34
	pH (Fld)		5.9		5.7	6.67	5.43
	SC (umhos/cm at 25 C) (Fld)		1380		1508	1508	1676
	SC (umhos/cm at 25 C)		1621	1596			
	Total Suspended Solids		1.6	1.8			
	TDS (Measured at 180 C)		1171	1159			
	Salinity (G/KG) (Fld)		0.6				
	Turbidity (NTU) (Fld)		2				
	Water Temperature (C) (Fld)		11.7		11.4	11.4	11.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-24	DH-24	DH-24
Water	SAMPLE DATE	6/2/2003	6/2/2003	10/29/2003	5/20/2004	11/2/2004	5/16/2005
	SAMPLE TIME	13:15	13:25	13:45	13:30	16:25	13:56
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper
	LAB NUMBER	L030245010	L030245011	L030605004	H04050133-012	H04110029-017	C05050640-009
	SAMPLE NUMBER	AEH-0306-172	AEH-0306-173	AEH-0310-425	AEH-0405-135	AEH-0411-201	AEH-0505-165
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	74	72	83	130	130	154
Calcium (Ca) (DIS)	65	65	79	83	73	60
Carbonate As CO3	<2	<2	<2			
Chloride (Cl)	101	93	93	110	70	61
Magnesium (Mg) (DIS)	29	29	33	34	29	25
Potassium (K) (DIS)	15	17	17	20	18	14
Sodium (Na) (DIS)	195	194	218	280	230	247
Sulfate (SO4)	587	598	633	820	506	533
Total Alkalinity As CaCO3	61	59	68	110	110	126

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	9.2	9.6	17	22.7	24.02	20.9
Arsenic III (dis)	6	6.9	8	<0.03 J	15	11.2
Arsenic V (dis)	3.5	2.9	7.4	19 J	8.2	8.5
Cadmium (Cd) (DIS)	0.2	0.2	0.2	0.145	0.136	0.104
Copper (Cu) (DIS)	0.03 J	0.02 J	0.1	0.017	0.054	0.052
Iron (Fe) (DIS)	3.4	3.4	8.6	10.79	8.38	6.49
Lead (Pb) (DIS)	0.005	0.005	0.2	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	9.4	9.3	11	12.05	9.9	7.36
Zinc (Zn) (DIS)	6.9	6.9	6	5.27	3.3	2.75

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.6		0.36	0.14	0.76	0.15
pH	6.6	6.6	7	6.3	6.3	6.49
Depth To Water Level (ft)	28.5		27.23	29.06	25.6	29.87
pH (Fld)	5.6		5.45	5.52	5.97	6.28
SC (umhos/cm at 25 C) (Fld)	1560		1700	2100	1587	1714
SC (umhos/cm at 25 C)	1595	1615	1707	2100	1440	1580
Total Suspended Solids	13	14	124	68	27 J	30
TDS (Measured at 180 C)	1116	1175	1235	1440	1110	1100
TDS - Calculated						1040
Salinity (G/KG) (Fld)	0.7		0.7	0.9		
Turbidity (NTU) (Fld)	1		9	10		
Water Temperature (C) (Fld)	11.5		11.4	12.6	12.2	12.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-24	DH-24	DH-24
Water	SAMPLE DATE	5/16/2005	11/17/2005	5/9/2006	11/9/2006	5/18/2007	11/28/2007
	SAMPLE TIME	14:05	09:00	15:00	14:20	15:00	14:35
	LAB	ELI-Casper	ELI-Hel	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	C05050640-010	H05110153-002	H06050103-014	H06110083-002	H07050225-003	H07110218-013
	SAMPLE NUMBER	AEH-0505-166	AEH-0511-194	AEH-0605-201	AEH-0611-141	AEH-0705-189	AEH-0711-180
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	159	170	210	200	210	
Bicarbonate (HCO3) (dis)						180
Calcium (Ca) (DIS)	59	49	36 J+	53	47	41
Chloride (Cl)	59	47	42	47	45	36
Magnesium (Mg) (DIS)	25	20	15 J-	18	19	16
Potassium (K) (DIS)	14	18	12	12	12	12
Sodium (Na) (DIS)	244	241	227	204	270	223
Sulfate (SO4)	556	347	394	399	492	375
Total Alkalinity As CaCO3	130	140	170	170	170	150

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)						<0.005
Selenium-VI (dis)						<0.005
Arsenic (As) (DIS)	20.9	18.22	19.99	15.94	22.69	18.43
Arsenic III (dis)	11.4	11.7	9.7 J	11.9	17.5 J	10.9 J-
Arsenic V (dis)	8	3.3	12.2	6.4	7.03 J	7.31
Cadmium (Cd) (DIS)	0.104	0.07	0.065	0.06	0.082	0.056
Copper (Cu) (DIS)	0.055	0.073	0.1	0.098	0.045	0.032 UJ
Iron (Fe) (DIS)	6.4	4.4	3.91	3	4.83	3.32
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	7.39	5.19	4.99	3.9	5.97	4.29
Selenium (Se) (DIS)						0.009
Zinc (Zn) (DIS)	2.76	1.65	1.56	1.53	1.8	1.17

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential				62.1		
Oxygen (O) (DIS) (Fid)		3.14	0.64	2.26	0.44	0.72
pH	6.43	6.3	6.6	6.7	6.5	6.4
Depth To Water Level (ft)		26.41	28.88	26.27	29.92	27.17
pH (Fid)		6.09	5.93	6.19	6.18	6.27
SC (umhos/cm at 25 C) (Fid)		1973	1370	1390	1566	1278
SC (umhos/cm at 25 C)	1640	1220	1260	1340	1480	1340
Total Suspended Solids	32	103 J	32 J+	25 J	19	11
TDS (Measured at 180 C)	1140	820	904	963	1050	937
TDS - Calculated	1060					
Water Temperature (C) (Fid)		12.91	12.81	12.14	13.04	12.18

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-26	DH-26
Water	SAMPLE DATE	5/15/2008	11/13/2008	5/19/2009	6/9/1987	6/9/1987
	SAMPLE TIME	10:55	15:10	13:30	00:00	00:00
	LAB	ELI	ELI	ELI	CHMTC	TSC-SLC
	LAB NUMBER	H08050268-004	H08110162-012	H09050287-008	8706-100	87-4198
	SAMPLE NUMBER	AEH-0805-253	AEH-0811-248	AEH-0905-262	AEH-8706-100	AEH-8706-100
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS				Split	
<b>Common Ions (mg/L): ppm unless noted</b>						
	Bicarbonate (HCO3)	240	250	210		<1
	Calcium (Ca) (DIS)	37	31	36	123	115
	Carbonate As CO3					<1
	Chloride (Cl)	33	34	32	100	4 M
	Magnesium (Mg) (DIS)	15	13	15	44.8	46
	Potassium (K) (DIS)	13	12	13	15.4	36.5
	Sodium (Na) (DIS)	247	238	266	281	314
	Sulfate (SO4)	440	390	460	1264.1	1338 M
	Total Alkalinity As CaCO3	200	210	170		
<b>Metals (mg/L): ppm unless noted</b>						
	Selenium-IV (DIS)	<0.005	<0.005			
	Selenium-VI (DIS)	<0.005	<0.005			
	Aluminum (Al) (DIS)	0.2	0.2	0.1		
	Antimony (Sb) (DIS)	<0.005	<0.005	<0.003		
	Arsenic (As) (DIS)	25.44	21	22.5	5	88.8 M
	Arsenic III (DIS)	16.7	14.9			90
	Arsenic V (DIS)	5.36	9.54 J			2.4
	Barium (Ba) (DIS)	<0.1	<0.1	<0.1		
	Beryllium (Be) (DIS)	0.004	0.004	0.003		
	Cadmium (Cd) (DIS)	0.067	0.051	0.059	2.5	2.3 M
	Chromium (Cr) (DIS)	<0.001	<0.001	<0.001		
	Cobalt (Co) (DIS)	0.01	0.01	0.0133		
	Copper (Cu) (DIS)	0.011	0.014	0.012	0.04	0.009 M
	Gold (Au) (DIS)			0.03		
	Iron (Fe +2) (TOT)					63.8
	Iron (Fe) (DIS)	3.99	2.7	3.21	56.1	53
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	0.05	0.04
	Manganese (Mn) (DIS)	5.01	4.08	4.81	15.3	15
	Mercury (Hg) (DIS)	<0.006	<0.006	<0.0001		
	Nickel (Ni) (DIS)	<0.01	<0.01	<0.01		
	Selenium (Se) (DIS)	0.005	0.01	0.018		
	Silver (Ag) (DIS)	<0.005	<0.005	<0.005		
	Tellurium (Te) (DIS)			<0.1		
	Thallium (Tl) (DIS)	<0.002	<0.002	<0.001		
	Vanadium (V) (DIS)	<0.01	<0.01	<0.01		
	Zinc (Zn) (DIS)	1.1	0.9	0.92	35.7	35.3
<b>Physical/Fid-Lab: ppm unless noted</b>						
	Oxygen (O) (DIS) (Fld)	1.07	0.4	0.4		2.2
	pH	6.4	6.6	6.8		3.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-26	DH-26
Water	SAMPLE DATE	5/15/2008	11/13/2008	5/19/2009	6/9/1987	6/9/1987
	SAMPLE TIME	10:55	15:10	13:30	00:00	00:00
	LAB		Hydrometrics	Hydrometrics	CHMTC	TSC-SLC
	LAB NUMBER	H08050268-004	H08110162-012	H09050287-008	8706-100	87-4198
	SAMPLE NUMBER	AEH-0805-253	AEH-0811-248	AEH-0905-262	AEH-8706-100	AEH-8706-100
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS				Split	
<b>Physical/Fid-Lab: ppm unless noted</b>						
	Depth To Water Level (ft)	31.18	27.42	30.86		25.07
	pH (Fid)	5.96	6.12	6.35		5.09
	SC (umhos/cm at 25 C) (Fid)	1469	1320	1511		2600
	SC (umhos/cm at 25 C)	1390	1320	1480		3100
	Total Suspended Solids	<10	<10	11		
	TDS (Measured at 180 C)	976	906	1000	247	2313
	Water Temperature (C) (Fid)	12.1	11.77	12.9		14.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-26	DH-26	DH-26	DH-26	DH-26	DH-26
Water	SAMPLE DATE	8/17/1987	8/17/1987	8/17/1987	8/17/1987	11/23/1987	5/3/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	WYRHR	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8708-13	87-6873	8708-49	87-6878	87-10786	88-3208
	SAMPLE NUMBER	AEH-8708-13	AEH-8708-13	AEH-8708-49	AEH-8708-49	AEH-8711-241	AEH-8804-324
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split		Field Duplicate	Field Duplicate		
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	<5	<1			<1	<1
	Calcium (Ca) (DIS)	171	176.5	168		166	160
	Carbonate As CO3	<5	<1			<1	<1
	Chloride (Cl)	120	120			98	96
	Magnesium (Mg) (DIS)	65.6	64.5	64.8		66	47
	Potassium (K) (DIS)	34.9	39	34		43	45
	Sodium (Na) (DIS)	332	330	333		288	277
	Sulfate (SO4)	1500	1480 M			1470	1600 J
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	60.8	61	61	58.8	72.5	68
	Arsenic III (dis)		65.5 M		1.9	60	64.2
	Arsenic V (dis)		1.5 M		89.7	2.2	3.3
	Cadmium (Cd) (DIS)	3.2	1.8	2.5	2	2.4	5 J
	Copper (Cu) (DIS)	<0.002	<0.008	<0.002	<0.008	0.008	
	Iron (Fe +2) (TOT)		79.6		79.3	87	99.8
	Iron (Fe) (DIS)	64.4	49.8	62.8	57	45.5	62.3 J
	Lead (Pb) (DIS)	0.02	0.02	0.03	0.02	0.005	0.04
	Manganese (Mn) (DIS)	21.5	22.6	21.1	23.3	19	
	Zinc (Zn) (DIS)	32.3	33.8 M	31.2	31.5	37.8	48.1 J
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)		2.7		2.7	1.4	2.6
	pH		4.08			3.1	3.3
	Depth To Water Level (ft)		23.8		23.8	25	26.7
	pH (Fld)		5.8		5.8	5.5	4.9
	SC (umhos/cm at 25 C) (Fld)		2994		2982	2895	1808
	SC (umhos/cm at 25 C)		2990			3050	3000
	Total Suspended Solids					13.6	
	TDS (Measured at 180 C)	2410	2576 M			2504 M	2374 J
	Water Temperature (C) (Fld)		9.1		9.1	9.5	10.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-26	DH-26	DH-26	DH-26	DH-26
Water	SAMPLE DATE	5/3/1988	12/20/1988	12/20/1988	4/20/1989	4/20/1989
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	88-3213	89-41	89-40	89-511	89-547
	SAMPLE NUMBER	AEH-8804-334	AEH-8812-143	AEH-8812-150	AEH-8904-222	AEH-8904-291
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Field Duplicate		Field Duplicate		Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	98	104	123
Sulfate (SO4)	2100	2100	1463

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	70	81	80	66	71
Arsenic III (dis)	69.5	70	74	66.1	68.5 J
Arsenic V (dis)	2.6	0.7 J	0.2	4.7 J	0.4 J
Cadmium (Cd) (DIS)	5.6	8	7.8	4 J	4.3 J
Copper (Cu) (DIS)		0.02	0.02	<0.008 J	<0.008 J
Iron (Fe +2) (TOT)	100	97	97	68.5	67
Iron (Fe) (DIS)	70.3				
Lead (Pb) (DIS)	0.04	0.06	0.06	<0.02	<0.02
Zinc (Zn) (DIS)	47	63.8	63.4	27	30

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.6	2		1.3
pH		2.4	2.5	6
Depth To Water Level (ft)	26.7	25.4		24.4
pH (Fld)	4.9			5.3
SC (umhos/cm at 25 C) (Fld)	1767	3660	3592	3158
SC (umhos/cm at 25 C)		3800	3800	2650
TDS (Measured at 180 C)		3144	3033	2750
Water Temperature (C) (Fld)	9	9		11.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-28	DH-28	DH-28	DH-28	DH-28	DH-28
Water	SAMPLE DATE	12/18/1987	12/18/1987	12/18/1987	12/18/1987	5/3/1988	12/21/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	WYRHR	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8712-300	88-21	8712-301	88-23	88-3120	89-51
	SAMPLE NUMBER	AEH-8712-300	AEH-8712-300	AEH-8712-301	AEH-8712-301	AEH-8804-326	AEH-8812-145
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split		Field Duplicate	Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	521	1135			584	
Calcium (Ca) (DIS)	98.1	46	69.8		51	
Carbonate As CO3	514	198			224	
Chloride (Cl)	390	333			284	411
Magnesium (Mg) (DIS)	32.6	32	32.8		29	
Potassium (K) (DIS)	26.4	33	26.6		38.2	
Sodium (Na) (DIS)	2030	2160	2060		1550	
Sulfate (SO4)	3260	4150 J			2550 J	3250
Total Alkalinity As CaCO3		1260				

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	270	293	270	293.8	212	405
Arsenic III (dis)		126 J		88.9 J	100.6	347 J
Arsenic V (dis)		236.8 J		146.8	99.4	14.2
Cadmium (Cd) (DIS)	<0.0001	0.003	<0.0001	0.003	<0.001	0.003
Copper (Cu) (DIS)	<0.003	<0.008	0.006	<0.008		0.02
Iron (Fe +2) (TOT)		1.4		1.4	1	<0.01
Iron (Fe) (DIS)	0.4	0.5	0.5	0.5	0.3	
Lead (Pb) (DIS)	<0.02	0.02 J	<0.02	0.02 J	0.04	0.1
Manganese (Mn) (DIS)	0.7	0.8 J	0.7	0.8 J		
Zinc (Zn) (DIS)	0.005	0.008	0.005	0.008	0.01	0.008

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		1		1	0.4	0.9
pH		8.5			9.2	11.3
Depth To Water Level (ft)		25.08		25.08	26.5	24.5
pH (Fld)		9.9		9.9	9.4	8.2 A
SC (umhos/cm at 25 C) (Fld)		8603		8889	2380	10930
SC (umhos/cm at 25 C)		9000			7000	10000
Total Suspended Solids		1002				
TDS (Measured at 180 C)	6910	7552			5574 J	8470
Water Temperature (C) (Fld)		13.8		13.8	14.5	15.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-28	DH-28	DH-28	DH-28	DH-28	DH-28
Water	SAMPLE DATE	4/20/1989	10/24/1989	5/1/1990	12/6/1990	5/9/1991	11/19/1991
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	16:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-510	89-837	90-1067	90-2263	91-2816	91-3877
	SAMPLE NUMBER	AEH-8904-224	AEH-8910-424	AEH-9005-424	AEH-9011-728	AEH-9105-164	AEH-9111-340
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	545	415	480	245 J	262	253 J
	Sulfate (SO4)	3725	3125	3535	2583 J	2553	3341 J
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	509	690 J	143	142	145	140
	Arsenic III (dis)		439	133	121	132 J	115
	Arsenic V (dis)		106.4	2.5	11 J	7.3 J	63
	Cadmium (Cd) (DIS)	<0.002 UJ	<0.003	0.005	0.003	<0.003	0.002
	Copper (Cu) (DIS)	<0.008 J	0.009	0.02	0.01	<0.004	0.004
	Lead (Pb) (DIS)	<0.02	<0.005 UJ	0.03	<0.005 UJ	<0.005 J	0.03
	Zinc (Zn) (DIS)	<0.008 J	<0.008 J	0.02		0.06 U	0.05
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	0.8	1.4	1	1.6	2.6	1.8
	pH	10.2	11.9	8.3	9.1	10.1	10
	Depth To Water Level (ft)	22.9	21.2	25.6	24.03	24.1	22.09
	pH (Fld)	11	11.9	9.2	9.9	10.3	10.6
	SC (umhos/cm at 25 C) (Fld)	13330	13425	8816	6891	7140	8800
	SC (umhos/cm at 25 C)	11500	13700	9000	7600	7500	8900
	TDS (Measured at 180 C)	11789	9823 J	6110 J	5380 J	5336 J	6949 J
	Water Temperature (C) (Fld)	16.6	16.3	15.4	13.8	14.5	16.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-28	DH-28	DH-28	DH-28	DH-28	DH-28
Water	SAMPLE DATE	4/28/1992	11/19/1992	5/5/1993	11/12/1993	5/7/1994	11/18/1994
	SAMPLE TIME	14:00	14:00	18:50	12:30	08:50	18:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	92-4360	92-6802	93-7831	93-9275	94-1328	94-3391
	SAMPLE NUMBER	AEH-9204-100	EHC-9211-117	EHC-9305-157	EHC-9311-122	EHC-9405-127	EHC-9411-127
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Calcium (Ca) (Dis)			4 J	12			
Chloride (Cl)	189 J		8.9	339	329 J	352	427
Magnesium (Mg) (Dis)			1	3.4			
Potassium (K) (Dis)			<5	15			
Sodium (Na) (Dis)			3005	3700			
Sulfate (SO4)	3145		3290	3519	3473 J	3126 J	2299
Total Hardness As CaCO3				44			
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)	110		300	490	471	510	491
Arsenic III (dis)	90		151	340	140	171 J	133.2
Arsenic V (dis)	8.2		145 J	72	110	271 J	311 J
Cadmium (Cd) (DIS)	0.002		0.003	0.001	0.004	<0.005	0.005
Copper (Cu) (DIS)	0.004		0.005	0.005	0.01	0.02	0.01
Lead (Pb) (DIS)	0.02		<0.005 UJ	0.01	<0.03 J	0.006 J	<0.005
Zinc (Zn) (DIS)	0.02		0.02	0.07	0.07	0.02 U	0.03
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	0.6		1.8	1.4	2	2.1	1.3
pH	9.7		10.2				11
Depth To Water Level (ft)	21.9		20.9	20.6	20.6	22.3	22.5
pH (Fld)	10.2		10.8	10.8	10.4	11	11.2
SC (umhos/cm at 25 C) (Fld)	8610		10220	12245	12745	3980 A	101300 A
SC (umhos/cm at 25 C)	8400		11500	11500	12850 J	10020	9800
TDS (Measured at 180 C)	6403		8900	9020	9940	7138	7616 J
Water Temperature (C) (Fld)	17.4		14.7	15.2	14.8	14	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-28	DH-28	DH-28	DH-28	DH-28	DH-28
Water	SAMPLE DATE	5/15/1995	11/13/1995	5/10/1996	5/10/1996	11/11/1996	5/8/1997
	SAMPLE TIME	16:30	15:15	17:00	17:15	14:40	11:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-4518	95-6148	96-6781	96-6762	96-7779	97-969
	SAMPLE NUMBER	EHC-9505-127	EHC-9511-129	EHC-9605-116	EHC-9605-153	EHC-9611-116	EHC-9705-115
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	477	172 J	270	245	225	143
	Sulfate (SO4)	2685	1519 J	1491	1456	1718	1544
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	638.6	119	95.6	106.1	82	127.5
	Arsenic III (dis)	84.4	90	57.7 J	60.2 J	63.5	67.7
	Arsenic V (dis)	491.1	31.9	53.2 J	47.4 J	18.5 J	46.6
	Cadmium (Cd) (DIS)	0.02	0.02	<0.005	<0.005	0.004	0.006
	Copper (Cu) (DIS)	0.04	0.006	0.008	0.01	0.04	0.03
	Lead (Pb) (DIS)	0.009	<0.005 J	0.007	0.008	<0.005	<0.005
	Zinc (Zn) (DIS)	0.03 J	0.3	0.05	0.05	0.1	0.04
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	1.8	1.5	1.6	1.6	3.4	1.7
	pH	11.5	9.4	9.8	9.8	9.5	10
	Depth To Water Level (ft)	22.7	18.9	20.3	20.3	20.5	22.7
	pH (Fld)	12.09	10	10.1	10.1	9.6	10.2
	SC (umhos/cm at 25 C) (Fld)	12685	5270	5170	5130	5630	5600
	SC (umhos/cm at 25 C)	11800 J	5220 J	4710	5000	5040	5560
	TDS (Measured at 180 C)	8653 J	3737	3520	3703	3787	4133
	Water Temperature (C) (Fld)	13.5	12.4	11.5	11.3	10.2	10.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-28	DH-28	DH-28	DH-28	DH-28	DH-28
Water	SAMPLE DATE	11/11/1997	11/12/1997	5/11/1998	11/20/1998	5/11/1999	11/16/1999
	SAMPLE TIME	12:45	12:50	14:00	11:45	17:30	11:30
	LAB	TSC-SLC	HYDRO	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	192-2750	9711-160	262-3789	311-4432	347-4905	L992055016
	SAMPLE NUMBER	EHC-9711-116	EHC-9711-160	EHC-9805-117	EHC-9811-116	EHC-9905-116	EHC-9911-129
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)			405 J	605	342 J	<1 J
Calcium (Ca) (DIS)			35	4.9	<5	<5
Carbonate As CO3				110	113 J	<1
Chloride (Cl)	170		147	85	62	155
Magnesium (Mg) (DIS)			18	4.1	<5	<5
Potassium (K) (DIS)			15	8	5.9	13
Sodium (Na) (DIS)			1109	912	599	1212
Sulfate (SO4)	1573		1371	1087	781 J	1319
Total Alkalinity As CaCO3			804 J	680	468 J	<1 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	74.8		133.5	116.2 J	88.7	227
Arsenic III (dis)	72.7		111.8 J	100 J	89	177
Arsenic V (dis)	8.6 J		46.4	17.5	1.1	38
Cadmium (Cd) (DIS)	0.003		0.002	0.007	0.01	0.01
Copper (Cu) (DIS)	0.009		0.009	<0.01	0.008	0.01 J
Iron (Fe) (DIS)			0.8	0.3	0.3	0.3
Lead (Pb) (DIS)	<0.005		<0.03	0.006	<0.005	0.01
Manganese (Mn) (DIS)			1.05	0.2	0.1	0.1
Zinc (Zn) (DIS)	0.02		0.03	0.06	0.1	0.1

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.2		0.9	1.4	1.5	1.4
pH	9.4		9.8	9.4	9.5	2.4 R
Depth To Water Level (ft)	16.5	16.5	21.5	20.5	23.3	22.7
Eh (millivolts)				224	91	-67
pH (Fld)	9.08		9.9	9.8	9.5	10.4
SC (umhos/cm at 25 C) (Fld)	5050		4070	3764	2580	4550
SC (umhos/cm at 25 C)	4480		4480	4200	2610	11260 R
Total Suspended Solids	5					8.5
TDS (Measured at 180 C)	3393		3172	2710	1908	4888
Water Temperature (C) (Fld)	9.3		13.6	11.4	11.6	13.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-28	DH-28	DH-28	DH-28	DH-28	DH-28
Water	SAMPLE DATE	5/3/2000	11/8/2000	5/11/2001	11/15/2001	5/30/2002	11/15/2002
	SAMPLE TIME	16:25	14:30	11:20	15:10	18:50	14:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000703008	L001873002	L010691024	L011573004	L020397007	L020950016
	SAMPLE NUMBER	EHC-0005-128	EHC-0011-129	EHC-0105-130	EHC-0111-128	EHC-0205-133	EHC-0211-131
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	199	366	229	207	249	351
Calcium (Ca) (DIS)	22	66	124	104	65	76
Carbonate As CO3	187	<1		<1	1	<1
Chloride (Cl)	131	219 J	299	258	102	97 J
Magnesium (Mg) (DIS)	9.3	16	27	21	12	14
Potassium (K) (DIS)	10	17	26	29	18	24
Sodium (Na) (DIS)	555	604	704	501	350	407
Sulfate (SO4)	820	1054	1377	829	656	707
Total Alkalinity As CaCO3	475	300	188	170	204	288

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		0.1 U	0.06	0.2	0.2	0.3
Arsenic (As) (DIS)	81	63	61	53	48	51
Arsenic III (dis)	97	53	40	35	34	34
Arsenic V (dis)	2.5	1.4	15	21	12	16
Cadmium (Cd) (DIS)	0.006	<0.001	<0.001	0.001	0.002	<0.002
Copper (Cu) (DIS)	0.01	0.01	0.004 U	0.02	0.02	<0.004
Iron (Fe) (DIS)	1.7 U	3.3	33	32	19	20
Lead (Pb) (DIS)	0.01	<0.005	0.007 U	<0.01	0.02	<0.005
Manganese (Mn) (DIS)	1.5	7.1	14	11	6.5	7.1
Zinc (Zn) (DIS)	0.1	<0.02	0.4	2.5	1.7	1.9

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				-56.2	3.6	
Oxygen (O) (DIS) (Fld)	3.2	1	5.8	0.1	1.4	1.9
pH	9.6	8.1	7.5	7.9	7.1	7.3
Silicon+Silica (Si+SiO2)		18	21	22	22	21
Depth To Water Level (ft)	25.4	25.05	25.8	25.8	27.9	25.9
Eh (millivolts)	214	-53	189	177		
pH (Fld)	9.6	8.2	6.5	6.8	6.9	6.6
SC (umhos/cm at 25 C) (Fld)	2842	3150	3130	2500	1920	2160
SC (umhos/cm at 25 C)	2740	3200	3540	2960	1883	2230
Total Suspended Solids			120	94	156 J	198 J
TDS (Measured at 180 C)	2021	2300	2572	2098	1292	1509 J
Salinity (G/KG) (Fld)						1
Turbidity (NTU) (Fld)						35
Water Temperature (C) (Fld)	14	11.7	13.7	13.3	11.7	11.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-28	DH-28	DH-28	DH-28	DH-28	DH-28
Water	SAMPLE DATE	10/26/2003	5/13/2004	10/22/2004	5/9/2005	11/3/2005	4/25/2006
	SAMPLE TIME	00:00	11:31	00:00	14:32	13:21	15:40
	LAB	TSC-SLC	ASARCO	ASARCO	ELI-Casper	ASARCO	Hydro
	LAB NUMBER	AEH-0310-454	AEH-0405-236	z	AEH-0505-DH258	AEH-0511-246	AEH-0605-DH28
	SAMPLE NUMBER	AEH-0310-454	AEH-0405-236	AEH-0411-246	AEH-0505-DH258	AEH-0511-246	AEH-0605-DH28
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only Req	SWL Only Req	SWL Only Req	SWL Only Req	SWL Only	SWL Only
	REMARKS	No Sample	No Sample	No Sample	No Sample	No Sample	No Sample
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Depth To Water Level (ft)	26.31	26.95	24.04	27.38	24.88	27.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-28	DH-28	DH-29	DH-29	DH-29
Water	SAMPLE DATE	11/6/2006	11/1/2007	12/18/1987	12/18/1987	4/29/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	Hydrometrics	Hydrometrics	WYRHR	TSC-SLC	TSC-SLC
	LAB NUMBER	z	AEH-0711-DH28	8712-303	88-22	88-3135
	SAMPLE NUMBER	AEH-0611-DH28	AEH-0711-DH28	AEH-8712-303	AEH-8712-303	AEH-8804-327
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only	No SWL-Constr			MP Elev 4.02'
	REMARKS	No Sample	No Sample	Split		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	<5	375	248
Calcium (Ca) (DIS)	137	121	181
Carbonate As CO3	<5	<1	<1
Chloride (Cl)	95	106	113
Magnesium (Mg) (DIS)	24.6	31.5	36.5
Potassium (K) (DIS)	14.6	16.3	16.1
Sodium (Na) (DIS)	212	225	247
Sulfate (SO4)	510	590 J	684

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	18.4	18.9	43
Arsenic III (dis)		17.1	44.5
Arsenic V (dis)		0.5	0.4
Cadmium (Cd) (DIS)	<0.0001	<0.001	<0.001
Copper (Cu) (DIS)	<0.003	<0.008	
Iron (Fe +2) (TOT)		22.4	38
Iron (Fe) (DIS)	15.1	17	22.1
Lead (Pb) (DIS)	0.005	<0.01	0.02
Manganese (Mn) (DIS)	7.7	7.9 J	
Zinc (Zn) (DIS)	0.05	0.05	0.06

**Other: ppm unless noted**

No Analysis	0.0		
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		1.4	2.5
pH		7.5	6.7
Depth To Water Level (ft)	24.38		10.22
pH (Fld)		6.8	7
SC (umhos/cm at 25 C) (Fld)		1888	2122
SC (umhos/cm at 25 C)		1800	2150
Total Suspended Solids		154	
TDS (Measured at 180 C)	1640	1525	1134
Water Temperature (C) (Fld)		9.1	7.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-29	DH-29	DH-29	DH-29	DH-29	DH-29
Water	SAMPLE DATE	12/20/1988	4/19/1989	10/24/1989	10/24/1989	5/1/1990	12/6/1990
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-43	89-507	89-838	89-841	90-1068	90-2264
	SAMPLE NUMBER	AEH-8812-146	AEH-8904-225	AEH-8910-425	AEH-8910-432	AEH-9005-425	AEH-9011-729
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'
	REMARKS				Field Duplicate		
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	188	113	64		491	764 J
	Sulfate (SO4)	770	663	1775		1320	3029 J
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	58	69	229.5 J	223.2 J	223	430
	Arsenic III (dis)	53	64.2	242	235	217	380
	Arsenic V (dis)	0.4	2.7 J	7.6	8.4	3.4	7.9 J
	Cadmium (Cd) (DIS)	0.006	<0.002	0.003	0.003	0.005	2
	Copper (Cu) (DIS)	0.008	<0.008 J	<0.008	<0.008	0.02	0.01
	Iron (Fe +2) (TOT)	38	59.2				
	Lead (Pb) (DIS)	0.05	<0.02	<0.005 UJ	<0.03 UJ	<0.03 UJ	0.007
	Zinc (Zn) (DIS)	0.08	0.5	2.8 J	2.7 J	3.4	
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	1.5	1.8	1.8	1.8	4	2.2
	pH	6.3	6.5	6.9		7.2	6.7
	Depth To Water Level (ft)	10.62	9.72	10.02	10.02	14.32	14.12
	pH (Fld)	6.04	6	6.3	6.3	6.7	6.9
	SC (umhos/cm at 25 C) (Fld)	2298	2160	5346		4250	6842
	SC (umhos/cm at 25 C)	2100	1550	5500		4300	7000
	TDS (Measured at 180 C)	1562	2162	4136 J		3226 J	6140 J
	Water Temperature (C) (Fld)	7.8	8	11.6	11.6	7.7	9.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-29	DH-29	DH-29	DH-29	DH-29	DH-29
Water	SAMPLE DATE	5/10/1991	11/22/1991	11/22/1991	5/4/1992	5/4/1992	11/22/1992
	SAMPLE TIME	00:00	08:00	09:30	00:00	08:00	10:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	91-2828	91-3890	91-3884	92-4396	92-4400	92-6796
	SAMPLE NUMBER	AEH-9105-165	AEH-9111-371	AEH-9111-348	AEH-9204-179	AEH-9204-130	EHC-9211-161
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'
	REMARKS		Field Duplicate		Field Duplicate		Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)						200 J
Chloride (Cl)	901	729 J	667 J	318 J	320 J	294
Magnesium (Mg) (Dis)						63
Potassium (K) (Dis)						51
Sodium (Na) (Dis)						550
Sulfate (SO4)	3018	2632	2725	1606 J	1609 J	1576

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	400	350	330	216	216	240
Arsenic III (dis)	382 J	381	392	223	217	226
Arsenic V (dis)	8 J	24	19.9	2.5	2.5	1.5 J
Cadmium (Cd) (DIS)	0.7	0.03	0.02	0.007	0.008	0.003
Copper (Cu) (DIS)	<0.004	0.01	0.007	0.008	0.005	0.005
Lead (Pb) (DIS)	0.02	0.005 J	<0.005	0.04	0.04	<0.005 UJ
Zinc (Zn) (DIS)	23	15.9	15.5	8.7	9	7

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.8	2.4	2.4	2.1	2.1	2.1
pH	6.3	5.9	5.9	5.4	5.7	5
Depth To Water Level (ft)	12.82	9.92	9.92	9.820001	9.820001	9.92
pH (Fld)	6.03	6.9	6.9	6.5	6.5	6.5
SC (umhos/cm at 25 C) (Fld)	7471	6742	6731	4100	4150	4245
SC (umhos/cm at 25 C)	7500	6800	6200	4000	4000	4500
TDS (Measured at 180 C)	6879	6005 J	5273 J	3102 J	3046 J	3210
Water Temperature (C) (Fld)	7.7	11.3	11.3	11.4	11.4	10.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-29	DH-29	DH-29	DH-29	DH-29	DH-29
Water	SAMPLE DATE	11/22/1992	5/7/1993	11/16/1993	11/16/1993	4/12/1994	5/7/1994
	SAMPLE TIME	10:45	12:50	10:00	10:30	14:20	09:05
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	92-6797	93-7847	93-9338	93-9337	94-592008	94-1326
	SAMPLE NUMBER	EHC-9211-178	EHC-9305-174	EHC-9311-180	EHC-9311-123	AHCL-9404-170	EHC-9405-169
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'
	REMARKS			Field Duplicate			Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)	205 J	139				
Chloride (Cl)	301	187	185 J	171 J		116
Magnesium (Mg) (Dis)	65	47				
Potassium (K) (Dis)	52	42				
Sodium (Na) (Dis)	562	440 J				
Sulfate (SO4)	1579	1025	1146	1134		660 J
Total Hardness As CaCO3		540				

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	245	191	104	102	92.6	87.4
Arsenic III (dis)	244		93	114 J		89.6 J
Arsenic V (dis)	2.6 J		12.6	6.8 J		3.3 J
Cadmium (Cd) (DIS)	0.008	0.003	0.002	0.002	0.003 U	0.003
Copper (Cu) (DIS)	0.005	<0.004	<0.004	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	<0.005	0.005	<0.005	<0.005	<0.005	<0.005 J
Zinc (Zn) (DIS)	7.1	8	1.7 J	1.7 J	2	2.5

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.1	2.1	2.7	2.7	2.2	2.1
pH	4.8					
Depth To Water Level (ft)	9.92	9.72	10.92	10.92	10.52	10.52
pH (Fld)	6.5	6.4	6.7	6.7	6.01	6.9
SC (umhos/cm at 25 C) (Fld)	4195	3200	2840	2915	2130	2240
SC (umhos/cm at 25 C)	4550	2980 J	2930 J	2920 J		2120
TDS (Measured at 180 C)	3330	2303	2177	2224	1561	1472
Water Temperature (C) (Fld)	10.8	8.4	10.3	10.3	10.5	8.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-29	DH-29	DH-29	DH-29	DH-29	DH-29
Water	SAMPLE DATE	5/7/1994	7/14/1994	8/22/1994	8/22/1994	9/26/1994	10/20/1994
	SAMPLE TIME	11:15	14:40	13:30	13:55	16:15	17:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1329	94-1209023	94-1504014	94-1504013	94-1778026	94-1932013
	SAMPLE NUMBER	EHC-9405-128	AHCL-9407-122	AHCL-9408-328	AHCL-9408-314	AHCL-9409-414	AHCL-9410-313
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'
	REMARKS			Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	117
Sulfate (SO4)	807 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	73	71	85	78	81	89
Arsenic III (dis)	70.3 J					
Arsenic V (dis)	14.4 J					
Cadmium (Cd) (DIS)	0.002	0.02	0.01	0.005 J	0.003	<0.001
Copper (Cu) (DIS)	0.004	<0.004	<0.004	<0.004	0.005	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	2.4	1.2	2.3	2	1.5	1.1

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.1	2	2.2	2.2	3.7	6
Depth To Water Level (ft)	10.52	9.92	9.92	9.92	10.22	10.62
Eh (millivolts)					-65	-58
pH (Fld)	6.9	6.8	7	7	6.7	6.8
SC (umhos/cm at 25 C) (Fld)	2290	2110	3190	3190	2330	2680
SC (umhos/cm at 25 C)	2010					
TDS (Measured at 180 C)	1462	1455	1788	1764	1814	1987
Water Temperature (C) (Fld)	8.6	13.4	14.7	14.7	16.5	13.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-29	DH-29	DH-29	DH-29	DH-29	DH-29
Water	SAMPLE DATE	11/21/1994	3/30/1995	4/26/1995	5/17/1995	5/23/1995	6/20/1995
	SAMPLE TIME	09:30	12:00	08:00	12:20	14:30	12:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-3392	95-616011	95-826008	95-4519	95-1057014	95-1280023
	SAMPLE NUMBER	EHC-9411-128	AHCL-9503-113	AHCL-9504-110	EHC-9505-128	AHCL-9505-115	AHCL-9506-113
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	90			86		
Sulfate (SO4)	550			711		

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	60.3	63.1	47.5	74.06	64.3 J	49.6
Arsenic III (dis)	54			62		
Arsenic V (dis)	7.4 J			10.3		
Cadmium (Cd) (DIS)	0.003	<0.001	<0.001	0.003	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	0.004	<0.004	0.004	0.004	0.004
Iron (Fe) (DIS)					43.6	
Lead (Pb) (DIS)	<0.005 J	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	0.8	1.6	1.2	2.6	3.2	1.4

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	6.5	8.5	10.3	5.7	5.8	4.5
pH	6.3			6.01		
Depth To Water Level (ft)	10.22	10.72	9.92	11.62	9.52	9.070001
Eh (millivolts)		0.0	-105		-81	-95
pH (Fld)	6.9	7	6.7	7	6.7	6.7
SC (umhos/cm at 25 C) (Fld)	1770	1827	1826	1898	2190	1623
SC (umhos/cm at 25 C)	1787			2050 J		
TDS (Measured at 180 C)	1197	1203	1109	1274 J	1304	1008
Water Temperature (C) (Fld)	8.6	6.9	6.5	8.7	8.9	10.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-29	DH-29	DH-29	DH-29	DH-29	DH-29
Water	SAMPLE DATE	7/18/1995	8/16/1995	9/16/1995	10/23/1995	11/8/1995	11/8/1995
	SAMPLE TIME	14:30	15:00	09:00	13:30	18:20	18:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-1523014	95-1778014	95-2070019	95-2401012	95-2532012	95-6119
	SAMPLE NUMBER	AHCL-9507-113	AHCL-9508-113	AHCL-9509-113	AHCL-9510-113	AHCL-9511-114	EHC-9511-130
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	85 J
Sulfate (SO4)	997 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	76.1	59	64.9	128	83.7	75.7
Arsenic III (dis)						66.7 J
Arsenic V (dis)						5.5 J
Cadmium (Cd) (DIS)	<0.001	0.1	<0.001	0.001	0.2	0.002
Copper (Cu) (DIS)	<0.008	<0.004	0.01 U	0.005	<0.008	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	3.1	1.4	3.6	9.2	6.6	5.8

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.9	6	7.5	4.3	2.6	2.6
pH						6.2
Depth To Water Level (ft)	9.92	11.92	9.62	9.92	13.12	13.12
Eh (millivolts)	-116	-127	115	116	56	
pH (Fld)	6.7	6.9	6.8	6.3	6.6	6.6
SC (umhos/cm at 25 C) (Fld)	2090	1679	858	2732	1889	1889
SC (umhos/cm at 25 C)						2390 J
TDS (Measured at 180 C)	1304	1242	1267	2525	1680	1709 J
Water Temperature (C) (Fld)	12.5	15.7	13.8	12.9	11.3	11.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-29	DH-29	DH-29	DH-29	DH-29	DH-29
Water	SAMPLE DATE	5/8/1996	6/24/1996	9/19/1996	11/5/1996	5/6/1997	5/6/1997
	SAMPLE TIME	16:50	08:45	10:10	12:00	16:00	16:05
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-6725	96-1243003	96-1924012	96-7723	97-954	97-963
	SAMPLE NUMBER	EHC-9605-212	EHC-9606-113	EHC-9609-113	EHC-9611-212	EHC-9705-212	EHC-9705-222
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'
	REMARKS						Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	95			63	82	78
	Sulfate (SO4)	1357			538	842	882
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	103.9	58	40.8	37.7	50.6	50
	Arsenic III (dis)	118.9 J			33.5	46.5	48.5
	Arsenic V (dis)	9.008 J			2.3 J	1.3	1.5 J
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)	<0.004	<0.008	<0.004	0.005	<0.004	<0.004
	Lead (Pb) (DIS)	<0.005	<0.005	0.006	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	10.3	6.1	3.6	3.4	6.8	6.4
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	8.5	8.2	7.9	6.3	8.4	8.7
	pH	6.2			6.7	6.4	6.4
	Depth To Water Level (ft)	10.42	9.820001	10.32	10.82	10.52	10.52
	Eh (millivolts)	61	268	312	225	217	215
	pH (Fld)	6.9	6.7	6.7	6.8	6.6	6.7
	SC (umhos/cm at 25 C) (Fld)	3168	2130	1615	1573	2180	2187
	SC (umhos/cm at 25 C)	2900			1641	2060	2090
	Total Suspended Solids					118	96
	TDS (Measured at 180 C)	2496	1502	1249	1197	1557	1572
	Water Temperature (C) (Fld)	7.8	11	13.7	12.2	7.9	7.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-29	DH-29	DH-29	DH-29	DH-29	DH-29
Water	SAMPLE DATE	11/5/1997	5/13/1998	11/20/1998	5/12/1999	11/17/1999	5/8/2000
	SAMPLE TIME	15:50	13:20	13:20	15:40	15:05	16:05
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	189-2715	263-3812	314-4460	349-4927	L992055017	L000705020
	SAMPLE NUMBER	EHC-9711-212	EHC-9805-212	EHC-9811-212	EHC-9905-212	EHC-9911-130	EHC-0005-129
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 4.02'	MP Elev 3.20'
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		166	224	210 J	221	199
Calcium (Ca) (DIS)		136	125	147	176	173
Carbonate As CO3				<1 UJ	<1	<1
Chloride (Cl)	89	80	70	64	71	71
Magnesium (Mg) (DIS)		42	31	34	43	40
Potassium (K) (DIS)		29	24	21	28	20
Sodium (Na) (DIS)		277	190	169	181	170
Sulfate (SO4)	746	939	751	617	965 J	900
Total Alkalinity As CaCO3		136	184	172 J	181	163

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	39 J	51.8	32.1	24.6	27	22
Arsenic III (dis)	34.3 J	53.3	30.6	26.4	27	20
Arsenic V (dis)	3.6 J	1	0.7	0.6	0.8	0.6
Cadmium (Cd) (DIS)	<0.001	0.008	0.001	0.008	0.002	0.009 J
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004 J	<0.004
Iron (Fe) (DIS)		56.7	31.1	33.9	36	35
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		17	11.5	12.2	15	14
Zinc (Zn) (DIS)	2.4 J	7.7	4.9	4.7	7.8	7.6

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	8.3	10	7.8	8.2	7.6	11
pH	6.6	6.7	6.9	6.9	7	6.9
Depth To Water Level (ft)	10.32	9.92	10.1	10.02	10.22	10.52
Eh (millivolts)			156	271	152	225
pH (Fid)	6.9	6.5	7	6.8	7.1	6.9
SC (umhos/cm at 25 C) (Fid)	1958	2010	1847	1585	2060	2218
SC (umhos/cm at 25 C)	2030	2350	1971	1871	2080	2150
Total Suspended Solids	45 J				74 J	
TDS (Measured at 180 C)	1427 J	1746	1337	1331	1564	1596
Water Temperature (C) (Fid)	12.3	11.7	11.2	9.7	12.4	10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-29	DH-29	DH-29	DH-29	DH-29	DH-29
Water	SAMPLE DATE	11/13/2000	5/7/2001	11/14/2001	6/1/2002	11/13/2002	5/31/2003
	SAMPLE TIME	10:30	16:45	13:50	12:30	17:00	10:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001897018	L010655053	L011564004	L020412032	L020948018	L030243006
	SAMPLE NUMBER	EHC-0011-130	EHC-0105-131	EHC-0111-129	EHC-0205-134	EHC-0211-132	AEH-0306-125
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 3.20'	MP Elev 3.20'	MP Elev 3.20'	MP Elev 3.20'	MP Elev 3.20'	MP Elev 3.20'
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	218	268	278	200	235	253
Calcium (Ca) (DIS)	137	165	147	138	135	85
Carbonate As CO3	<1		<1	<1	<1	<2
Chloride (Cl)	89	73	84	98	76	57
Magnesium (Mg) (DIS)	30	36	28	42	30	21
Potassium (K) (DIS)	21	23	24	25	23	17
Sodium (Na) (DIS)	198	222	251	254	222	142
Sulfate (SO4)	796	941	743	1048	725	485
Total Alkalinity As CaCO3	179	220	228	164	193	207

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	0.04	0.1	<0.05	0.1 U	<0.05	
Arsenic (As) (DIS)	24	19	17	26	18	14
Arsenic III (dis)	22	14	23	9.2	11	10
Arsenic V (dis)	0.7	4	<0.005	16	7	4
Cadmium (Cd) (DIS)	0.002	0.01	0.004	0.02	0.007	0.002
Copper (Cu) (DIS)	<0.004 J	0.01	0.01	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	28	33	21	51	27	20
Lead (Pb) (DIS)	<0.005 J	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	12	13	10	18	11	8.1
Zinc (Zn) (DIS)	5	8.6	5.1	14	7.6	7.5

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			-80.4	8.8		
Oxygen (O) (DIS) (Fld)	7.01	3.2	1.1	8.3	5.8	8.05
pH	7.3	7.1	7.6	6.6	7	7
Silicon+Silica (Si+SiO2)	36	33	39	35	35	
Depth To Water Level (ft)	10.82	9.92	10.72	11.12	11.42	9.820001
Eh (millivolts)	126	162	165			
pH (Fld)	6.9	6.9	6.9	6.8	6.4	6.4
SC (umhos/cm at 25 C) (Fld)	2350	1866	1824	2480	2080	1350
SC (umhos/cm at 25 C)	2040	2140	2000	2280	1992	1485
Total Suspended Solids		71	61	113	154	433
TDS (Measured at 180 C)	1522	1561	1463	1644	1395	962
Salinity (G/KG) (Fld)					0.9	0.6
Turbidity (NTU) (Fld)					18	152
Water Temperature (C) (Fld)	12.3	10.1	14.4	9.9	12.4	9.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-29	DH-29	DH-29	DH-29	DH-29	DH-29
Water	SAMPLE DATE	10/25/2003	5/21/2004	10/25/2004	5/13/2005	5/13/2005	11/21/2005
	SAMPLE TIME	14:00	10:30	14:55	10:45	11:00	09:20
	LAB	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Casper	ELI-Hel
	LAB NUMBER	L030599-009	H04050141-006	H04100175-005	C05050527-003	C05050527-004	H05110173-001
	SAMPLE NUMBER	AEH-0310-347	AEH-0405-145	AEH-0411-104	AEH-0505-144	AEH-0505-145	AEH-0511-227
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 3.20'	MP Elev 3.20'	MP Elev 3.20'	MP Elev 3.20'		MP Elev 3.20'
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	190	260	280	209	147 J	210
Calcium (Ca) (DIS)	110	128	83	128	202 J	134
Carbonate As CO3	<2					
Chloride (Cl)	64	89	50 UJ	75	141	55
Magnesium (Mg) (DIS)	23	32	18	35	61 J	39
Potassium (K) (DIS)	21	24	17	20	29 J	24
Sodium (Na) (DIS)	175	150	124	156	232 J	148
Sulfate (SO4)	516	720	310	628	1070	687
Total Alkalinity As CaCO3	190	210	230	171	121 J	170

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	15	19.56	12.73	17.2	30.4 J	20.86
Arsenic III (dis)	13	6.4	9.5 J	11.5	10.3	27.4
Arsenic V (dis)	0.41	<0.001 J	1.5 J	0.4	0.4	0.3
Cadmium (Cd) (DIS)	<0.001	0.017	0.002	0.003	0.011 J	0.005
Copper (Cu) (DIS)	0.005	<0.004	<0.004	<0.004	<0.004	0.005
Iron (Fe) (DIS)	18	34.26	14.9	38.4	75.3 J	37.47
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	8	13.7	6.63	13.1	24.6 J	14.97
Zinc (Zn) (DIS)	4.9	15.46	4.36	8.26	16.3 J	20.5

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.36	0.12	6.21	3.12		1.33
pH	8	6.9	7.3	6.68	6.45	6.7
Depth To Water Level (ft)	11.01	10.47	10.43	10.04		10.31
pH (Fld)	7	6.02	6.81	6.72		6.15
SC (umhos/cm at 25 C) (Fld)	1630	3260	1245	1304		1957
SC (umhos/cm at 25 C)	1603	1940	1070	1720	2310 J	1850
Total Suspended Solids	354	125	45	86	118 J	89
TDS (Measured at 180 C)	1087	1180	817	1140	1640 J	1340
TDS - Calculated				1180	1850	
Salinity (G/KG) (Fld)	0.7	1.5				
Turbidity (NTU) (Fld)	6	0.0				
Water Temperature (C) (Fld)	15.8	10.4	14.8	9.2		12.58

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-29	DH-29	DH-29	DH-29	DH-29	DH-29
Water	SAMPLE DATE	5/4/2006	11/15/2006	5/17/2007	9/13/2007	12/11/2007	2/14/2008
	SAMPLE TIME	14:40	14:05	09:50	13:10	11:45	11:00
	LAB	ELI-Hel	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06050060-005	H06110138-002	H07050207-004	H07090135-009	H07120112-004	H08020113-004
	SAMPLE NUMBER	AEH-0605-151	AEH-0611-195	AEH-0705-167	AEH-0709-161	AEH-0711-228	AEH-0802-126
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 3.20'	MP Elev 3.20'				
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	290	260	160	140		200
Bicarbonate (HCO3) (dis)					200	
Calcium (Ca) (DIS)	65	87	187	192	109	151
Chloride (Cl)	30	39	135	135	80	80
Magnesium (Mg) (DIS)	14	18	57	64	29	44
Potassium (K) (DIS)	15	17	28	36	19	24
Sodium (Na) (DIS)	94	105	185	210	121	154
Sulfate (SO4)	183	282	940	1030	560	643
Total Alkalinity As CaCO3	240	210	130	110	170	160

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)					<0.005	
Selenium-VI (dis)					<0.005	
Arsenic (As) (DIS)	8.22	12.33	21.68	25.9	13.91	18.08
Arsenic (As) (TOT)			24.2	37.2	21.3	19.2
Arsenic III (dis)	8.7	9.6 J-	19.3	22	7.39	14
Arsenic V (dis)	<0.02	1 J-	2.27 J+	2.51	1.89	4.33
Cadmium (Cd) (DIS)	0.002	0.015	0.015	0.025	0.002	0.003
Cadmium (Cd) (TOT)			0.192	0.311	0.041	0.019
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)			0.006	0.008	<0.004	<0.004
Iron (Fe) (DIS)	12.98	15.37	62.45	65.69	27.27	42.98
Iron (Fe) (TOT)			69.6	82.5	40.1	45
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)			0.038	0.057	0.008	0.014
Manganese (Mn) (DIS)	5	6.66	23.54	22.66	10.18	17.96
Manganese (Mn) (TOT)			24.5	23.8	15.1	16.9
Selenium (Se) (DIS)					0.01	0.011
Selenium (Se) (TOT)					0.006	0.008
Zinc (Zn) (DIS)	3.24	5.23	21.54	24.46	5.86	11.31
Zinc (Zn) (TOT)			24.8	27.6	11	10.7

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential		-91.4				
Oxygen (O) (DIS) (Fld)	3.89	6.81	9.55	0.64	5.02	2.59
pH	7	7	6.7	6.5	6.5	6.6
Depth To Water Level (ft)	9.62	8.37	9.54	9.54	9.67	10.23
pH (Fld)	6.74	6.95	6.64	6.15	6.77	6.59
SC (umhos/cm at 25 C) (Fld)	966	1324	2664	4120	1612	2275
SC (umhos/cm at 25 C)	963	1110	2200	2450	1750	1900

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-29	DH-29	DH-29	DH-29	DH-29	DH-29
Water	SAMPLE DATE	5/4/2006	11/15/2006	5/17/2007	9/13/2007	12/11/2007	2/14/2008
	SAMPLE TIME	14:40	14:05	09:50	13:10	11:45	11:00
	LAB	ELI-Hel	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06050060-005	H06110138-002	H07050207-004	H07090135-009	H07120112-004	H08020113-004
	SAMPLE NUMBER	AEH-0605-151	AEH-0611-195	AEH-0705-167	AEH-0709-161	AEH-0711-228	AEH-0802-126
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	MP Elev 3.20'	MP Elev 3.20'				
	REMARKS						

**Physical/Fld-Lab: ppm unless noted**

Total Suspended Solids	40	54 J	142	259	100	77
TDS (Measured at 180 C)	584	742	1820	1870	1220	1360
Water Temperature (C) (Fld)	10.73	12.03	13.29	14.9	12	9.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-29	DH-29	DH-29	DH-3	DH-3
Water	SAMPLE DATE	5/13/2008	11/17/2008	5/19/2009	1/18/1985	1/18/1985
	SAMPLE TIME	16:00	09:00	15:00	00:00	00:00
	LAB	ELI	ELI	ELI	TSC-SLC	CAL
	LAB NUMBER	H08050243-003	H08110187-001	H09050287-010	85-677	S5752
	SAMPLE NUMBER	AEH-0805-239	AEH-0811-251	AEH-0905-264	AEH-8501-118	AEH-8501-118
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	250	220	240	179	195
Calcium (Ca) (DIS)	144	164	135	49	46.2
Chloride (Cl)	80	83	59	8.6	13
Magnesium (Mg) (DIS)	39	47	36	13	10.4
Potassium (K) (DIS)	22	27	20	5.6	4.7
Sodium (Na) (DIS)	143	158	134	26	25.7
Sulfate (SO4)	680	820	660	63.9	86
Total Alkalinity As CaCO3	200	180	200	147	160

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005 J			
Selenium-VI (DIS)	<0.005	0.019 J			
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1		0.4
Aluminum (Al) (TOT)	<0.1				
Antimony (Sb) (DIS)	0.02	0.026	0.029		<0.01
Antimony (Sb) (TOT)	0.025				
Arsenic (As) (DIS)	16.3	22.1	18.8	0.007	0.008
Arsenic (As) (TOT)	16.7				
Arsenic III (DIS)	16.4	22.1			
Arsenic V (DIS)	1.86	4.89			
Barium (Ba) (DIS)	<0.1	<0.1	<0.1		0.05
Barium (Ba) (TOT)	<0.1				
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001		<0.0006
Beryllium (Be) (TOT)	<0.001				
Cadmium (Cd) (DIS)	0.002 UJ	0.003	0.003	<0.001	<0.004
Cadmium (Cd) (TOT)	0.088				
Chromium (Cr) (DIS)	<0.001	<0.001	0.001		0.006
Chromium (Cr) (TOT)	<0.001				
Cobalt (Co) (DIS)	0.07	0.08	0.0694		<0.007
Cobalt (Co) (TOT)	0.07				
Copper (Cu) (DIS)	<0.004	<0.004	0.001	<0.008	0.006
Copper (Cu) (TOT)	<0.004				
Gold (Au) (DIS)			0.07		
Iron (Fe) (DIS)	39.7	46	33	0.06	0.1
Iron (Fe) (TOT)	42.2				
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	0.005
Lead (Pb) (TOT)	0.015				
Manganese (Mn) (DIS)	14.84	18.5	14.1	0.1	0.1
Manganese (Mn) (TOT)	15.1				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-29	DH-29	DH-29	DH-3	DH-3
Water	SAMPLE DATE	5/13/2008	11/17/2008	5/19/2009	1/18/1985	1/18/1985
	SAMPLE TIME	16:00	09:00	15:00	00:00	00:00
	LAB	ELI	ELI	ELI	TSC-SLC	CAL
	LAB NUMBER	H08050243-003	H08110187-001	H09050287-010	85-677	S5752
	SAMPLE NUMBER	AEH-0805-239	AEH-0811-251	AEH-0905-264	AEH-8501-118	AEH-8501-118
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					Split
<b>Metals (mg/L): ppm unless noted</b>						
	Mercury (Hg) (DIS)	<0.006	<0.006	<0.0001		<0.0002
	Mercury (Hg) (TOT)	<0.006				
	Nickel (Ni) (DIS)	0.02	0.03	0.02		<0.03
	Nickel (Ni) (TOT)	0.02				
	Selenium (Se) (DIS)	0.01 J	0.012	0.017		<0.002
	Selenium (Se) (TOT)	0.007				
	Silver (Ag) (DIS)	<0.005 J	<0.005 J-	<0.005		<0.003
	Silver (Ag) (TOT)	<0.005				
	Tellurium (Te) (DIS)			<0.1		
	Thallium (Tl) (DIS)	0.082	0.113	0.09		<0.002
	Thallium (Tl) (TOT)	0.084				
	Tin (Sn) (DIS)					<0.04
	Vanadium (V) (DIS)	<0.01	<0.01	<0.01		0.005
	Vanadium (V) (TOT)	<0.01				
	Zinc (Zn) (DIS)	6.97	7.86	5.1	0.2	0.2
	Zinc (Zn) (TOT)	7.72				
<b>Physical/Fld-Lab: ppm unless noted</b>						
	Oxygen (O) (DIS) (Fld)	3.47	4.52	2.9		
	pH	6.6	6.5	7.1	7.6	7.6
	Depth To Water Level (ft)	10.38	10.6	10.47		
	pH (Fld)	6.59	6.63	6.93		
	SC (umhos/cm at 25 C) (Fld)	1873	2400	1865	460.9	
	SC (umhos/cm at 25 C)	1730	2060	1740	497	310
	Total Suspended Solids	120 J+	176	90	935	10
	TDS (Measured at 180 C)	1300	1430	1200	328	320
	Water Temperature (C) (Fld)	12.2	11.1	16.1		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-3	DH-3	DH-3
Water	SAMPLE DATE	1/18/1985	1/18/1985	4/10/1985	6/12/1985	6/12/1985	8/15/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	CAL	TSC-SLC	TSC-SLC	TSC-SLC	JTC
	LAB NUMBER	85-691	S5753	85-2475	85-4510	85-4498	73-2886
	SAMPLE NUMBER	AEH-8501-130	AEH-8501-130	AEH-8504-314	AEH-8506-511	AEH-8506-524	AEH-8508-705
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate	Field Duplicate			Field Duplicate	Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		183		174		181
Calcium (Ca) (DIS)		48.4		55		64.4
Chloride (Cl)		12		7.2		11.8
Magnesium (Mg) (DIS)		11.5		13.5		13.6
Potassium (K) (DIS)		5.5		6.2		5.02
Sodium (Na) (DIS)		26.4		27		23.1
Sulfate (SO4)		74		66.1		88
Total Alkalinity As CaCO3		150		143		148

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		45.6				<0.2
Antimony (Sb) (DIS)		<0.01				<0.05
Arsenic (As) (DIS)	0.007	0.005	0.008	0.01	0.01	0.007
Barium (Ba) (DIS)		0.09				0.07
Beryllium (Be) (DIS)		<0.0006				0.005
Cadmium (Cd) (DIS)	0.003	<0.004	0.003	<0.001	<0.001	<0.004
Chromium (Cr) (DIS)		0.01				<0.008
Cobalt (Co) (DIS)		<0.007				<0.008
Copper (Cu) (DIS)	<0.008	0.02		0.008		<0.02
Iron (Fe) (DIS)	0.03	5.8		0.02		<0.05
Lead (Pb) (DIS)	<0.005	0.01	<0.005	<0.005	<0.005	<0.002
Manganese (Mn) (DIS)	0.1	0.2		0.04		<0.01
Mercury (Hg) (DIS)		<0.0002				<0.0001
Nickel (Ni) (DIS)		<0.03				<0.02
Selenium (Se) (DIS)		<0.002				0.004
Silver (Ag) (DIS)		<0.003				<0.006
Thallium (Tl) (DIS)		<0.002				<0.002
Tin (Sn) (DIS)		<0.04				<0.03
Vanadium (V) (DIS)		0.01				<0.03
Zinc (Zn) (DIS)	0.2	0.2	0.04	0.2	0.09	0.03

**Physical/Fld-Lab: ppm unless noted**

pH		7.8	7.2	7.4		7.2
SC (umhos/cm at 25 C) (Fld)			466.8	470.8		
SC (umhos/cm at 25 C)		310	458	493		450
Total Suspended Solids		16		4.4		18
TDS (Measured at 180 C)		320	338	359		91

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-3	DH-3	DH-3
Water	SAMPLE DATE	8/15/1985	8/15/1985	8/15/1985	11/18/1986	11/18/1986	6/2/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	JTC	TSC-SLC	RMAL	TSC-SLC	CHMTC
	LAB NUMBER	85-6283	73-2885	85-6293	8611-23	86-7787	8706-05
	SAMPLE NUMBER	AEH-8508-705	AEH-8508-719	AEH-8508-719	AEH-8611-23	AEH-8611-23	AEH-8706-05
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate	Field Duplicate	Split		Split
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)		174			190	
	Calcium (Ca) (DIS)		65.3		57.3		51.3
	Chloride (Cl)		11.8				35
	Magnesium (Mg) (DIS)		13.7		13.1		11.9
	Potassium (K) (DIS)		5.02		5.7		3.8
	Sodium (Na) (DIS)		26.9		24.6		23.4
	Sulfate (SO4)		43.8			67	57.6
	Total Alkalinity As CaCO3		143				
<b>Metals (mg/L): ppm unless noted</b>							
	Aluminum (Al) (DIS)		<0.2				
	Antimony (Sb) (DIS)		<0.05				
	Arsenic (As) (DIS)	0.01	0.01	0.02	<0.01	0.01	0.01
	Arsenic III (dis)					0.2 M	
	Arsenic V (dis)					0.1 M	
	Barium (Ba) (DIS)		0.06				
	Beryllium (Be) (DIS)		<0.004				
	Cadmium (Cd) (DIS)	<0.001	<0.004	<0.001	<0.005	<0.001	<0.004
	Chromium (Cr) (DIS)		<0.008				
	Cobalt (Co) (DIS)		<0.008				
	Copper (Cu) (DIS)		<0.02		<0.004		0.02
	Iron (Fe +2) (TOT)					0.03	
	Iron (Fe) (DIS)		<0.05		<0.03	0.04	<0.1
	Lead (Pb) (DIS)	<0.005	<0.002	<0.005	<0.005	<0.005	<0.003
	Manganese (Mn) (DIS)		0.01		0.01		<0.01
	Mercury (Hg) (DIS)		<0.0001				
	Nickel (Ni) (DIS)		<0.02				
	Selenium (Se) (DIS)		0.005				
	Silver (Ag) (DIS)		<0.006				
	Thallium (Tl) (DIS)		<0.002				
	Tin (Sn) (DIS)		<0.03				
	Vanadium (V) (DIS)		<0.03				
	Zinc (Zn) (DIS)	0.03	0.03	0.01	<0.002	<0.008 M	<0.02
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)					3.7	
	pH	6.8	7.1	7.6	7.3	7.3	
	Depth To Water Level (ft)					31.07	
	pH (Fld)					6.6	
	SC (umhos/cm at 25 C) (Fld)	484.4		474.2		474	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-3	DH-3	DH-3
Water	SAMPLE DATE	8/15/1985	8/15/1985	8/15/1985	11/18/1986	11/18/1986	6/2/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	JTC	TSC-SLC	RMAL	TSC-SLC	CHMTC
	LAB NUMBER	85-6283	73-2885	85-6293	8611-23	86-7787	8706-05
	SAMPLE NUMBER	AEH-8508-705	AEH-8508-719	AEH-8508-719	AEH-8611-23	AEH-8611-23	AEH-8706-05
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate	Field Duplicate	Split		Split
<b>Physical/Fid-Lab: ppm unless noted</b>							
	SC (umhos/cm at 25 C)	488	440	450	460	460	
	Total Suspended Solids		2				
	TDS (Measured at 180 C)	325	345	360		400	229
	Water Temperature (C) (Fld)					7.5	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-3	DH-3	DH-3
Water	SAMPLE DATE	6/2/1987	11/19/1987	12/7/1987	4/25/1988	4/25/1988	12/8/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-4008	87-10572	87-10571	88-3119	88-3129	89-19
	SAMPLE NUMBER	AEH-8706-05	AEH-8711-214	AEH-8711-218	AEH-8804-302	AEH-8804-330	AEH-8812-123
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	176	188	183	144		
Calcium (Ca) (DIS)	49.5	54	54	62		
Carbonate As CO3	<1	<1	<1	<1		
Chloride (Cl)	10	11	10	8.9 J		10
Magnesium (Mg) (DIS)	11.5	12.8	12.7	13		
Potassium (K) (DIS)	5.2	6	5.9	5.4		
Sodium (Na) (DIS)	24	22.7	22.6	21.8		
Sulfate (SO4)	69	76 M	75 M	67		71

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.01 M	0.009 M	0.01	0.01	0.01	0.01
Arsenic III (dis)	0.02	<0.008	<0.008	0.05	0.02	0.04 J
Arsenic V (dis)	0.05	0.02	0.03 M	0.02	0.03	0.04 J
Cadmium (Cd) (DIS)	<0.001	0.001	0.001	0.001	<0.001	0.001
Copper (Cu) (DIS)	<0.008	<0.008	<0.008			<0.008
Iron (Fe +2) (TOT)	0.01	<0.01	<0.01	0.03	0.03	<0.01
Iron (Fe) (DIS)	<0.02	0.02	0.03	<0.02	0.03	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 UJ
Manganese (Mn) (DIS)	0.01	0.005	0.005			
Zinc (Zn) (DIS)	0.009 M	<0.008	<0.008	<0.008	0.02	<0.008

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4	2.7	2.7 M	7.5	7.5	4.7
pH	7.8	8.2	8.2	7.8 J		7.2
Depth To Water Level (ft)	30.6	31.1	31.1	30.9	30.9	31
pH (Fld)	6.6	6.2	6.2 M	6.9	6.9	7
SC (umhos/cm at 25 C) (Fld)	471.1	468.4	462.2		467.1	467.5
SC (umhos/cm at 25 C)	468	475	482	470		468
Total Suspended Solids		<1	<1			
TDS (Measured at 180 C)	320 M	316 M	314 M	295 J		312 J
Water Temperature (C) (Fld)	9.5	8.6	8.6	8.4	8.4	7.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-3	DH-3	DH-3
Water	SAMPLE DATE	4/11/1989	10/11/1989	10/11/1989	4/27/1990	11/27/1990	11/27/1990
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-476	89-792	89-806	90-1032	90-2221	90-2229
	SAMPLE NUMBER	AEH-8904-202	AEH-8910-402	AEH-8910-426	AEH-9005-402	AEH-9011-709	AEH-9011-730
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	11	10.3		10.1	12 J	11 J
	Sulfate (SO4)	73	63		66.5	67 J	65 J
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.06 J	0.01	0.01	0.01	0.04	0.04
	Arsenic III (dis)	<0.008	<0.008	<0.008	<0.008	0.06 J	0.05 U
	Arsenic V (dis)	0.04 J	0.02 J	0.02 J	0.03 U	0.005	0.005
	Cadmium (Cd) (DIS)	<0.002	0.001	<0.001	0.001	0.001 U	0.001 U
	Copper (Cu) (DIS)	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	Iron (Fe +2) (TOT)	<0.01					
	Lead (Pb) (DIS)	<0.02	<0.005 UJ	<0.005	<0.005	<0.005	<0.005 UJ
	Zinc (Zn) (DIS)	0.01	0.009	0.008	0.009 U		
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	4.2	4.2	4.2	4.1	4.8	4.8
	pH	7.1	7.8		7.7	7.9	7.9
	Depth To Water Level (ft)	29.8	30.3	30.3	30.5	30.5	30.5
	pH (Fld)	6.02	7.4	7.4	6.8	7	7
	SC (umhos/cm at 25 C) (Fld)	468.6	469.3		467.6	465.8	467.3
	SC (umhos/cm at 25 C)	445	450		458	450	450
	TDS (Measured at 180 C)	333 J	282 J		306	329 J	313 J
	Water Temperature (C) (Fld)	10.8	9.4	9.4	8.4	8	8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-3	DH-3	DH-3
Water	SAMPLE DATE	5/3/1991	11/12/1991	4/20/1992	4/23/1992	11/12/1992	5/3/1993
	SAMPLE TIME	00:00	10:00	16:00	08:00	11:40	20:20
	LAB	TSC-SLC	TSC-SLC	ATI	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	91-2666	91-3611	9204-227-2	92-4308	92-6775	93-7770
	SAMPLE NUMBER	AEH-9105-136	AEH-9111-309	AEH-9204-165	AEH-9204-165	EHC-9211-167	EHC-9305-137
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)					61 J	61
Chloride (Cl)	9.3	9.6		9.2 J	11	11
Magnesium (Mg) (Dis)					14	14
Potassium (K) (Dis)					<5	5
Sodium (Na) (Dis)					24	26
Sulfate (SO4)	52	73		75	78 J	66
Total Hardness As CaCO3						208

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.02	0.008		0.008	0.01 J	0.01
Arsenic III (dis)	0.008 UJ	0.02 U		0.005	0.008 UJ	<0.004
Arsenic V (dis)	0.03 UJ	0.03 U		0.007	0.01 UJ	0.009 UJ
Cadmium (Cd) (DIS)	0.003	0.001		0.001	0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004		<0.004	0.004	<0.004
Lead (Pb) (DIS)	<0.005 UJ	<0.005 J		<0.005 UJ	<0.005 UJ	<0.005
Zinc (Zn) (DIS)	0.01	0.01		0.006	<0.006	0.008

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.5	4.8	4.1	4.2	5.6	4.8
pH	7.9	7.2		7.4	8	
Depth To Water Level (ft)	30.7	30.3	30.3	30.5	30.4	30.2
pH (Fld)	7.08	8.2	7	7	6.9	7.3
SC (umhos/cm at 25 C) (Fld)	455.3	443	443	443	468	477
SC (umhos/cm at 25 C)	460	410		470	390	460
TDS (Measured at 180 C)	353	321 J		318	340	319
Water Temperature (C) (Fld)	9.2	9.4	11.7	10.3	8.3	9.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-3	DH-3	DH-3
Water	SAMPLE DATE	11/8/1993	5/10/1994	11/10/1994	5/9/1995	5/9/1995	11/8/1995
	SAMPLE TIME	17:30	17:10	15:30	12:00	12:15	10:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-9196	94-1336	94-3270	95-4481	95-4493	95-6091
	SAMPLE NUMBER	EHC-9311-125	EHC-9405-130	EHC-9411-130	EHC-9505-130	EHC-9505-168	EHC-9511-132
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	11.4 J	11	11	13	12	12
	Sulfate (SO4)	68	73 J	71	68	68	81
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.01 J	0.01	0.009	0.009	0.01	0.009
	Arsenic III (dis)	<0.004	<0.004	0.007 U	<0.004	<0.004	<0.004
	Arsenic V (dis)	0.02 UJ	0.01 J	0.005 UJ	0.006	0.005	0.009 J
	Cadmium (Cd) (DIS)	0.001	0.001	<0.001	0.001	0.001	0.001
	Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.007	0.004	<0.004
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005 UJ	<0.005 J	<0.005 J	<0.005
	Zinc (Zn) (DIS)	<0.006	<0.006	0.01 U	<0.006	0.007	<0.006
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	4.8	5.2	5.3	4.8	4.8	4.01
	pH				7.2	7.3	7.4
	Depth To Water Level (ft)	30.7	30.5	30.6	30	30	29.9
	pH (Fld)	7	7.03	7.7	7.4	7.4	7.08
	SC (umhos/cm at 25 C) (Fld)	464	488 J	473	476	476	565
	SC (umhos/cm at 25 C)	473 J	485	478	485 J	488 J	485
	TDS (Measured at 180 C)	319	321	313	330 J	316 J	301
	Water Temperature (C) (Fld)	7.6	10.2	8.8	9.6	9.7	8.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-3	DH-3	DH-3
Water	SAMPLE DATE	11/8/1995	5/8/1996	5/8/1996	11/7/1996	5/5/1997	11/5/1997
	SAMPLE TIME	10:45	10:40	10:55	15:30	15:50	10:30
	LAB	ATI	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	511023-3	96-6708	96-6720	96-7754	97-904	188-2683
	SAMPLE NUMBER	EHC-9511-167	EHC-9605-118	EHC-9605-147	EHC-9611-118	EHC-9705-117	EHC-9711-118
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	13	13	13	12	13
Sulfate (SO4)	79	77	81	65	73

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.006 J	0.008 J	0.01 J	0.01	0.008
Arsenic III (dis)	<0.005 UJ	<0.005 UJ	<0.004	<0.005	<0.005
Arsenic V (dis)	0.02 J	0.01 J	0.01	0.008	0.007
Cadmium (Cd) (DIS)	<0.005	<0.005	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	<0.02	<0.02	<0.008	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.01	4.6	4.6	5	4.5	4.4
pH		7.1	7	7.9	7	7.2
Depth To Water Level (ft)	29.9	30.4	30.4	30.02	30.4	28.3
pH (Fld)	7.08	6.4	6.5	7.2	8	6.5
SC (umhos/cm at 25 C) (Fld)	565	449	469	496	472	553
SC (umhos/cm at 25 C)		380	440	518	490	494
Total Suspended Solids						<1
TDS (Measured at 180 C)		324	314	359	337	356
Water Temperature (C) (Fld)	8.5	8	8	7.6	10.4	7.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-3	DH-3	DH-3
Water	SAMPLE DATE	5/5/1998	11/18/1998	11/18/1998	5/8/1999	5/8/1999	11/10/1999
	SAMPLE TIME	13:10	10:45	10:45	11:50	12:10	09:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	260-3756	310-4401	310-4416	346-4880	346-4883	L992007014
	SAMPLE NUMBER	EHC-9805-119	EHC-9811-118	EHC-9811-148	EHC-9905-118	EHC-9905-146	EHC-9911-132
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate		Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	184	195	195	195 J	188 J	187	
Calcium (Ca) (DIS)	57	57	54	56	56	58	
Carbonate As CO3				<1 UJ	<1 UJ	<1	
Chloride (Cl)	13	14	12	11	11	16	
Magnesium (Mg) (DIS)	13	13	13	14	14	13	
Potassium (K) (DIS)	6 J	<5	<5	6.1	6.8	5.2	
Sodium (Na) (DIS)	23	23	22	26	30	22	
Sulfate (SO4)	70	79	67	63 J	88 J	76	
Total Alkalinity As CaCO3	151	160	160	160 J	154 J	153	
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)	0.009	0.01	0.01	0.008	0.008	0.01	
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 J	
Arsenic V (dis)	0.01	<0.005	<0.005	0.01	0.01	0.01 U	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.01 J	
Iron (Fe) (DIS)	<0.05	0.03	0.02	0.04 UJ	0.5 J	<0.02	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Zinc (Zn) (DIS)	<0.02 J	<0.02	<0.02	0.02	<0.02	<0.02 J	
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fid)	4.3	4.3	4.3	3.9	3.8	4.9	
pH	7.2	7.3	7.2	7.7	7.4	7.5	
Depth To Water Level (ft)	30	30.3		30.02		28.2	
Eh (millivolts)		417	417	381	380	473	
pH (Fid)	6.8	7.4	7.4	7.3	7.3	7.5	
SC (umhos/cm at 25 C) (Fid)	473	501	501	508	509	514	
SC (umhos/cm at 25 C)	497	498	498	501	501	505	
Total Suspended Solids		<1	<1			<1	
TDS (Measured at 180 C)	369	362	350	355	347 J	400	
Water Temperature (C) (Fid)	11.4	8	8	8.4	8.4	8.2	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-3	DH-3	DH-3
Water	SAMPLE DATE	5/2/2000	5/2/2000	11/7/2000	11/7/2000	5/9/2001	5/9/2001
	SAMPLE TIME	14:20	14:35	14:00	14:15	13:40	13:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000703010	L000704007	L001873003	L001873013	L010691026	L010691013
	SAMPLE NUMBER	EHC-0005-131	EHC-0005-164	EHC-0011-132	EHC-0011-170	EHC-0105-143	EHC-0105-222
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	183	193	185 J	122 J	195	193	
Calcium (Ca) (DIS)	60	54	57	57	63	59	
Carbonate As CO3	<1	<1	<1	<1			
Chloride (Cl)	13	11	13 J	13 J	15	16	
Magnesium (Mg) (DIS)	14	12	13	13	15	14	
Potassium (K) (DIS)	5.5	5	5.2	5.5	5.8	5.4	
Sodium (Na) (DIS)	23	20	22	22	24	23	
Sulfate (SO4)	75	62	77 J	75 J	73	73	
Total Alkalinity As CaCO3	150	158	152 J	100 J	160	158	
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (DIS)			<0.01	<0.01	<0.05	<0.05	
Arsenic (As) (DIS)	0.009	0.008	0.008	0.007	0.02 U	0.02 U	
Arsenic III (dis)	0.02 UJ	0.05 UJ	0.04 J	<0.02 J	0.02 U	0.01 U	
Arsenic V (dis)	0.02 U	0.02 U	0.03 U	0.03 U	<0.005	<0.005	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Iron (Fe) (DIS)	<0.02 J	0.7 J	<0.02	<0.02	0.07	<0.05	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Zinc (Zn) (DIS)	0.02	0.02	<0.02	<0.02	<0.02	<0.02	
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	4.4	4.4	13.2	13.2	5.9	5.9	
pH	7.2	7.2	7.3	7.5	8	7.9	
Silicon+Silica (Si+SiO2)			44	44	50	46	
Depth To Water Level (ft)	28.8		28.7		27.8		
Eh (millivolts)	331	332	442	444	313	332	
pH (Fld)	7.04	7.05	7.8	7.8	7.5	7.6	
SC (umhos/cm at 25 C) (Fld)	502	502	531	520	428	430	
SC (umhos/cm at 25 C)	495	495	508	508	508	510	
Total Suspended Solids					<1	<1	
TDS (Measured at 180 C)	341	340	354	345	359	354	
Water Temperature (C) (Fld)	9.8	9.8	8	8	10.4	10.4	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-3	DH-3	DH-3
Water	SAMPLE DATE	11/6/2001	5/29/2002	5/29/2002	11/14/2002	5/30/2003	10/24/2003
	SAMPLE TIME	16:40	11:00	11:15	11:15	13:30	14:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011535007	L020397012	L020397005	L020949007	L030242009	L030598010
	SAMPLE NUMBER	EHC-0111-141	EHC-0205-146	EHC-0205-229	EHC-0211-144	AEH-0306-108	AEH-0310-328
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	188	205	204	207	204	198
Calcium (Ca) (DIS)	56	63	60	64	61	65
Carbonate As CO3	<1	<1	<1	<1	<2	<2
Chloride (Cl)	14 U	15	14	15	14	11
Magnesium (Mg) (DIS)	13	14	14	15	14	15
Potassium (K) (DIS)	5.2	5.8	5.5	5.8	5.3	5.5
Sodium (Na) (DIS)	25	22	25	25	24	25
Sulfate (SO4)	69	65	70	68	70	66
Total Alkalinity As CaCO3	154	168	167	170	167	162

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05	<0.05	<0.05		
Arsenic (As) (DIS)	0.01	0.009	0.009	0.009	0.009	0.009
Arsenic III (dis)	0.006	<0.005	<0.005	0.008	0.009	<0.005
Arsenic V (dis)	0.009	0.009	0.009	<0.005	<0.005	0.008
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	205.5	-3.8				
Oxygen (O) (DIS) (Fld)	1.9	3.4		5.03	1.8	1.88
pH	8.2	6.8	7	7	7.7	8.2
Silicon+Silica (Si+SiO2)	42	44	43	41		
Depth To Water Level (ft)	28.6	29.3		29.06	27.6	29.05
Eh (millivolts)	426					
pH (Fld)	7.7	6.7		6.2	6.7	6.93
SC (umhos/cm at 25 C) (Fld)	533	570		416	428	500
SC (umhos/cm at 25 C)	503	512	516	510	516	507
Total Suspended Solids	<1	<1	<1	<1	<1	<1
TDS (Measured at 180 C)	350	374	361	353	341	342
Salinity (G/KG) (Fld)				0.1	0.1	0.2
Turbidity (NTU) (Fld)				1	1	6
Water Temperature (C) (Fld)	9	8.7		8.8	9.5	8.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-3	DH-3	DH-3
Water	SAMPLE DATE	5/25/2004	11/1/2004	5/19/2005	11/10/2005	5/4/2006	11/9/2006
	SAMPLE TIME	12:50	10:45	15:10	11:20	13:00	10:55
	LAB	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel	ELI
	LAB NUMBER	H04050175-007	H04110018-001	C05050744-015	H05110092-006	H06050060-001	H06110081-008
	SAMPLE NUMBER	AEH-0405-171	AEH-0411-171	AEH-0505-216	AEH-0511-148	AEH-0605-147	AEH-0611-137
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	210	200	206	190	210	210
Calcium (Ca) (DIS)	64	93	65	67	65	65
Chloride (Cl)	16	20 UJ	14	18	16	16 J
Magnesium (Mg) (DIS)	14	21	15	15	15	14
Potassium (K) (DIS)	6	7	5	5	6	6
Sodium (Na) (DIS)	22	27	24	22	23	23
Sulfate (SO4)	72	70	74	74	73	75
Total Alkalinity As CaCO3	170	160	169	160	170	170

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.009	0.006	0.009	0.01	0.008	0.008
Arsenic III (dis)	<0.001	<0.001	0.01 UJ	<0.005	<0.005	<0.005
Arsenic V (dis)	0.012	0.012	0.03 UJ	0.008	0.01	0.01
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02 J	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential						91.3
Oxygen (O) (DIS) (Fld)	3.02	2.58	4.85	5.08	2.48	3.13
pH	7.2	7.2	7.5	7.1	7.2	7.4
Depth To Water Level (ft)	28.3	28.46	27.63	28.09	27.57	27.71
pH (Fld)	6.38	6.93	6.99	7.05	6.78	6.87
SC (umhos/cm at 25 C) (Fld)	828	519	519	544	578	518
SC (umhos/cm at 25 C)	424	433	516	515	547	505
Total Suspended Solids	<10	<10 J	<10	<10	<10	<10 J
TDS (Measured at 180 C)	349	344	326	343	345	361
TDS - Calculated			345			
Salinity (G/KG) (Fld)	0.2					
Water Temperature (C) (Fld)	9.6	8.9	9.05	11.02	10.77	9.05

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-3	DH-3	DH-3
Water	SAMPLE DATE	3/29/2007	5/24/2007	5/24/2007	7/30/2007	9/11/2007	9/11/2007
	SAMPLE TIME	12:10	14:00	14:30	12:45	12:00	12:05
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07030242-007	H07050291-003	H07050291-004	H07070302-005	H07090102-003	H07090102-005
	SAMPLE NUMBER	AEH-0703-131	AEH-0705-227	AEH-0705-228	AEH-0707-153	AEH-0709-134	AEH-0709-136
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	210	210	210	220	230	220	
Calcium (Ca) (DIS)	73	65	66	63	64	64	
Chloride (Cl)	15	15	15	16	15	15	
Magnesium (Mg) (DIS)	17	14	14	14	14	14	
Potassium (K) (DIS)	6	5	6	5	5	5	
Sodium (Na) (DIS)	24	23	24	23	23	23	
Sulfate (SO4)	70	69	74	64	75	78	
Total Alkalinity As CaCO3	170	170	170	180	190	180	
<b>Metals (mg/L): ppm unless noted</b>							
Selenium-IV (DIS)		<0.005	<0.005				
Selenium-VI (DIS)		<0.005	<0.005				
Arsenic (As) (DIS)	0.009	0.014	0.012	0.011 UJ	0.009	0.009	
Arsenic III (DIS)	<0.005	<0.005	<0.005				
Arsenic V (DIS)	0.008	0.011	0.0107				
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004 J	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<b>Nutrients: ppm unless noted</b>							
Total Organic Carbon		0.7	<0.5				
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxidation Reduction Potential	121.2						
Oxygen (O) (DIS) (Fid)	2.79	4.48		2.96	3.69		
pH	7.4	7.3	7.2	7.4	7.3	7.2	
Depth To Water Level (ft)	28.85	28.22		29.26	29.08		
pH (Fid)	6.8	6.88		6.98	6.9		
SC (umhos/cm at 25 C) (Fid)	528	547		533	529		
SC (umhos/cm at 25 C)	528	521	523	524	475	482	
Total Suspended Solids	<10	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	347	357	355	348	347	349	
Water Temperature (C) (Fid)	8.75	9.29		10	10.4		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-3	DH-3	DH-3
Water	SAMPLE DATE	11/27/2007	11/27/2007	1/31/2008	5/6/2008	7/15/2008	11/4/2008
	SAMPLE TIME	10:40	10:50	14:00	17:10	12:25	15:48
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07110197-001	H07110197-002	H08010244-010	H08050136-002	H08070318-013	H08110050-003
	SAMPLE NUMBER	AEH-0711-156	AEH-0711-157	AEH-0801-132	AEH-0805-166	AEH-0807-125	AEH-0811-168
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)			210	210	210	220
Bicarbonate (HCO3) (dis)	210	200				
Calcium (Ca) (DIS)	63	62	62	77	60	70
Chloride (Cl)	16	16	14	16	15	16
Magnesium (Mg) (DIS)	14	14	14	17	13	16
Potassium (K) (DIS)	5	5	6	6	5	6
Sodium (Na) (DIS)	22	21	23	22	22	23
Sulfate (SO4)	79	81	74	74	76	82
Total Alkalinity As CaCO3	170	170	170	170	170	180

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005		<0.005		<0.005
Selenium-VI (DIS)	<0.005	<0.005		<0.005 J-		<0.005
Aluminum (Al) (DIS)				<0.1		<0.1
Antimony (Sb) (DIS)				<0.005		<0.005
Arsenic (As) (DIS)	0.012	0.01	0.009	0.009	0.009	0.009
Arsenic III (DIS)	<0.001	<0.001		<0.005		<0.005
Arsenic V (DIS)	0.0103	0.0084		0.0103		0.0109
Barium (Ba) (DIS)				<0.1		<0.1
Beryllium (Be) (DIS)				<0.001		<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)				<0.001		<0.001
Cobalt (Co) (DIS)				<0.01		<0.01
Copper (Cu) (DIS)	0.002 UJ	<0.001	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)				<0.006		<0.006
Nickel (Ni) (DIS)				<0.01		<0.01
Selenium (Se) (DIS)	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005
Silver (Ag) (DIS)				<0.005		<0.005 J-
Thallium (Tl) (DIS)				<0.002		<0.002
Vanadium (V) (DIS)				<0.01		<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.34		2.56	2.65	2.71	2.85
pH	7	7.1	7.2	7.2	7	7.6
Depth To Water Level (ft)	27.77		28.33	28.01	28.68	28.68
pH (Fld)	6.95		6.91	6.76	6.74	6.61
SC (umhos/cm at 25 C) (Fld)	474		541	533	541	521

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-3	DH-3	DH-3
Water	SAMPLE DATE	11/27/2007	11/27/2007	1/31/2008	5/6/2008	7/15/2008	11/4/2008
	SAMPLE TIME	10:40	10:50	14:00	17:10	12:25	15:48
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07110197-001	H07110197-002	H08010244-010	H08050136-002	H08070318-013	H08110050-003
	SAMPLE NUMBER	AEH-0711-156	AEH-0711-157	AEH-0801-132	AEH-0805-166	AEH-0807-125	AEH-0811-168
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C)	525	520	535	515	511	554
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	362	354	358	359	370	364
Water Temperature (C) (Fld)	8.63		8.4	9.2	9.6	8.96

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-36	DH-36
Water	SAMPLE DATE	2/5/2009	2/5/2009	5/12/2009	12/16/1999	4/26/2000
	SAMPLE TIME	09:05	09:15	11:55	14:30	08:45
	LAB	ELI	ELI	ELI	TSC-SLC	TSC-SLC
	LAB NUMBER	H09020058-009	H09020058-010	H09050193-005	L992165007	L000631018
	SAMPLE NUMBER	AEH-0902-142	AEH-0902-143	AEH-0905-179	IMMW-9912-106	IMMW-0004-106
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	210	210	210	386	273
Calcium (Ca) (DIS)	61	60	64	26	124
Carbonate As CO3				8	<1
Chloride (Cl)	14	14	14	115	376
Magnesium (Mg) (DIS)	13	13	15	<5	24
Potassium (K) (DIS)	5	5	6	29	57
Sodium (Na) (DIS)	22	22	21	433	802
Sulfate (SO4)	75	75	76	559	1272
Total Alkalinity As CaCO3	180	180	170	324	224

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.1		
Antimony (Sb) (DIS)			<0.003		
Arsenic (As) (DIS)	0.009	0.009	0.01	56	48
Arsenic III (dis)				51	37
Arsenic V (dis)				16	9.6
Barium (Ba) (DIS)			<0.1		
Beryllium (Be) (DIS)			<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	0.1	0.4
Chromium (Cr) (DIS)			<0.001		
Cobalt (Co) (DIS)			0.0008		
Copper (Cu) (DIS)	<0.004	<0.004	0.001 UJ	0.01	<0.004 J
Gold (Au) (DIS)			<0.01		
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	0.04 J	0.2
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	1	4.5
Mercury (Hg) (DIS)			<0.0001		
Nickel (Ni) (DIS)			<0.01		
Selenium (Se) (DIS)	<0.005	<0.005	0.006 UJ		
Silver (Ag) (DIS)			<0.005 R		
Tellurium (Te) (DIS)			<0.1		
Thallium (Tl) (DIS)			<0.001		
Vanadium (V) (DIS)			<0.01		
Zinc (Zn) (DIS)	<0.02	<0.02	<0.01	<0.02	0.03

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.49		3.24	1.1	3.6
pH	7.5	7.4	7.5	8.4	7.4
Depth To Water Level (ft)	28.5		27.68	25.4	28.5
Eh (millivolts)				286	459
pH (Fld)	6.72		6.88	8.2	7.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-36	DH-36
Water	SAMPLE DATE	2/5/2009	2/5/2009	5/12/2009	12/16/1999	4/26/2000
	SAMPLE TIME	09:05	09:15	11:55	14:30	08:45
	LAB	Hydrometrics	ELI	Hydrometrics	TSC-SLC	TSC-SLC
	LAB NUMBER	H09020058-009	H09020058-010	H09050193-005	L992165007	L000631018
	SAMPLE NUMBER	AEH-0902-142	AEH-0902-143	AEH-0905-179	IMMW-9912-106	IMMW-0004-106
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Field Duplicate			

**Physical/Fld-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)	541		524	2120	4175
SC (umhos/cm at 25 C)	498	496	536	2110	4150
Total Suspended Solids	<10	<10	<10		
TDS (Measured at 180 C)	357	354	363	1491	3050
Turbidity (NTU) (Fld)				7.3	17.2
Water Temperature (C) (Fld)	8.6		8.9	10.9	13.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-36	DH-36	DH-36	DH-36	DH-36	DH-36
Water	SAMPLE DATE	11/15/2000	5/2/2001	5/2/2001	11/9/2001	6/1/2002	11/18/2002
	SAMPLE TIME	13:15	16:00	16:15	13:10	10:15	11:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001922006	L010608025	L010608022	L011564007	L020412028	L020959006
	SAMPLE NUMBER	IMMW-0011-106	EHC-0105-139	EHC-0105-204	EHC-0111-137	EHC-0205-142	EHC-0211-140
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	312	298	272	300	281	336
Calcium (Ca) (DIS)	69	67	67	109	112	129
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Chloride (Cl)	173	214	179	216 J	189	245
Magnesium (Mg) (DIS)	14	14	14	22	21	25
Potassium (K) (DIS)	46	49	49	75	75	85
Sodium (Na) (DIS)	564	475	481	498	555	432
Sulfate (SO4)	1058	887	854	966	1007	974
Total Alkalinity As CaCO3	256	244	223	246	230	275

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.03		<0.05	<0.05	<0.05	<0.05 J
Arsenic (As) (DIS)	44	31	31	20	17	15
Arsenic III (dis)	34	35	33	18	10	13
Arsenic V (dis)	15	<0.005	<0.005	2	7	1
Cadmium (Cd) (DIS)	0.3	0.3	0.3	0.7	0.8	0.9
Copper (Cu) (DIS)	0.01	0.004	<0.004	0.01 J	<0.004	<0.004
Iron (Fe) (DIS)	0.1 UJ	<0.05	<0.05	0.09	0.04	0.06
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005 J	<0.005	<0.005
Manganese (Mn) (DIS)	3.2	3.9	3.9	8.4	9.1	10 J
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				-37.2	-11.9	
Oxygen (O) (DIS) (Fld)	1.2	1.7	1.7	0.3	0.6	1.03
pH	8.2	8.1	7.9	7.8	7.5	7.3
Silicon+Silica (Si+SiO2)	23		24	28	27	26
Depth To Water Level (ft)	28.5	29.5		28	31.1	28.4
Eh (millivolts)	-34.3	337	334	217		
pH (Fld)	7.4	7.6	7.6	7.03	7.2	7.02
SC (umhos/cm at 25 C) (Fld)	2420	2400	2420	2500	2730	2780
SC (umhos/cm at 25 C)	3050	2830	2840	2910	2690	2870
Total Suspended Solids		27	25	19 J	3.2	3.4
TDS (Measured at 180 C)	2210	2016	2015	2066 J	1921	1622
Salinity (G/KG) (Fld)						1.3
Turbidity (NTU) (Fld)						4
Water Temperature (C) (Fld)	12.3	12.4	12.4	14.3	13.7	13.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-36	DH-36	DH-36	DH-36	DH-36	DH-36
Water	SAMPLE DATE	6/1/2003	10/27/2003	5/28/2004	11/1/2004	5/19/2005	11/16/2005
	SAMPLE TIME	08:00	09:00	09:15	03:10	11:15	12:10
	LAB	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel
	LAB NUMBER	L030244019	L030601001	H04050224-001	H04110018-011	C05050744-006	H05110136-010
	SAMPLE NUMBER	AEH-0306-160	AEH-0310-381	AEH-0405-221	AEH-0411-181	AEH-0505-206	AEH-0511-181
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	300	283	290	290	233	270	
Calcium (Ca) (DIS)	95	94	112	81	96	96	
Carbonate As CO3	<2	<2					
Chloride (Cl)	131	103	85	60	52	71	
Magnesium (Mg) (DIS)	19	19	21	15	18	18	
Potassium (K) (DIS)	72	64	55	50	45	51 J-	
Sodium (Na) (DIS)	310	272	221	194	204	224 J-	
Sulfate (SO4)	701	580	660 J	334	538	496	
Total Alkalinity As CaCO3	246	232	240	240	191	220	
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)	11	11.2	7.27	6.92	5.61	6.302	
Arsenic III (dis)	12	11.5	0.51	<0.03	3	1.1	
Arsenic V (dis)	<0.005 UJ	<0.005	7.4	6.6	5.8	6.3	
Cadmium (Cd) (DIS)	0.8	0.7	0.686	0.597	0.623	0.623	
Copper (Cu) (DIS)	<0.004	0.009	0.005 J	<0.004	<0.004	<0.004	
Iron (Fe) (DIS)	0.09	0.09	0.32	0.05	0.14	0.13	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	7.4	7.2	6.86	4.72	5.98	5.9	
Zinc (Zn) (DIS)	<0.02	<0.05	<0.01	<0.02	<0.02	<0.02	
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	0.3	0.34	0.61	0.07	0.13	1.52	
pH	7.3	7.6	7.5	7.1	7.27	7	
Depth To Water Level (ft)	28.4	28.2	28.98	25.43	29.75	27.33	
pH (Fld)	6	6.37	6.64	6.91	6.7	6.63	
SC (umhos/cm at 25 C) (Fld)	2130	1890	1808	1597	1558	1598	
SC (umhos/cm at 25 C)	2180	1932	1630	1400	1570	1640	
Total Suspended Solids	8.1	3.5	10	17 J	<10	13 J	
TDS (Measured at 180 C)	1500	1388	1270	1090	1050	1190	
TDS - Calculated					1100		
Salinity (G/KG) (Fld)	0.1	0.8					
Turbidity (NTU) (Fld)	9	8					
Water Temperature (C) (Fld)	12.7	13.3	12.6	12.6	11.9	12.87	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-36	DH-36	DH-36	DH-36	DH-36	DH-36
Water	SAMPLE DATE	5/10/2006	12/4/2006	12/4/2006	5/21/2007	12/10/2007	5/12/2008
	SAMPLE TIME	10:10	10:40	10:50	14:15	09:45	14:25
	LAB	ELI-Hel	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06050119-005	H06120014-003	H06120014-004	H07050236-004	H07120088-001	H08050222-002
	SAMPLE NUMBER	AEH-0605-207	AEH-0611-229	AEH-0611-230	AEH-0705-201	AEH-0711-215	AEH-0805-214
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)		280	280	280	280		260
Bicarbonate (HCO3) (dis)						270	
Calcium (Ca) (DIS)		74 J+	71	72	56	54	57
Chloride (Cl)		47	47	47	32	87	31
Magnesium (Mg) (DIS)		13 J-	13	13	11	10	11
Potassium (K) (DIS)		43	45	44	37	39	43
Sodium (Na) (DIS)		186	202	200	193	174	168
Sulfate (SO4)		379	400	409	348	321	340
Total Alkalinity As CaCO3		230	230	230	230	220	210
<b>Metals (mg/L): ppm unless noted</b>							
Selenium-IV (dis)						0.0085	0.0079 J+
Selenium-VI (dis)						0.0149	<0.005
Aluminum (Al) (DIS)							<0.1
Antimony (Sb) (DIS)							0.011
Arsenic (As) (DIS)		6.08 J	7.435	7.43	7.42	7.055	5.92
Arsenic III (dis)		1.3	<0.3	<0.3	1.15	0.842	0.564
Arsenic V (dis)		11	5.8	4.9 J-	6.86 J+	5.75	4.62
Barium (Ba) (DIS)							<0.1
Beryllium (Be) (DIS)							<0.001
Cadmium (Cd) (DIS)		0.475	0.466 UJ	0.468 UJ	0.362	0.339	0.387
Chromium (Cr) (DIS)							<0.001
Cobalt (Co) (DIS)							<0.01
Copper (Cu) (DIS)		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)		0.26	0.23	0.25	0.11	0.16	0.11
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		4.5	4.42	4.46	3.54	3.13	4
Mercury (Hg) (DIS)							<0.006
Nickel (Ni) (DIS)							<0.01
Selenium (Se) (DIS)						0.032	0.013
Silver (Ag) (DIS)							<0.005
Thallium (Tl) (DIS)							<0.002
Vanadium (V) (DIS)							<0.01
Zinc (Zn) (DIS)		<0.02	<0.02	<0.02	<0.01	<0.02	0.01
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxidation Reduction Potential			-33.8				
Oxygen (O) (DIS) (Fld)		3.29	0.2		0.08	1.62	0.36
pH		7.1	7.2	7.2	7.7	7.7	7
Depth To Water Level (ft)		28.48	27.11		30.86	28.03	31.8
pH (Fld)		6.91	7		7.1	7.07	6.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-36	DH-36	DH-36	DH-36	DH-36	DH-36
Water	SAMPLE DATE	5/10/2006	12/4/2006	12/4/2006	5/21/2007	12/10/2007	5/12/2008
	SAMPLE TIME	10:10	10:40	10:50	14:15	09:45	14:25
	LAB	Hydro	Hydrometrics	ELI	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H06050119-005	H06120014-003	H06120014-004	H07050236-004	H07120088-001	H08050222-002
	SAMPLE NUMBER	AEH-0605-207	AEH-0611-229	AEH-0611-230	AEH-0705-201	AEH-0711-215	AEH-0805-214
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)	1276	1481		1296	1235	1160
SC (umhos/cm at 25 C)	1270	1420	1420	1220	1140	1170
Total Suspended Solids	<10 J	<10	10	<10	<10	<10 J
TDS (Measured at 180 C)	950	1050	995	875	805	811
Water Temperature (C) (Fld)	12.31	11.95		11.89	7.9	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-36	DH-36	DH-37	DH-37	DH-37
Water	SAMPLE DATE	11/11/2008	5/15/2009	12/17/1999	4/26/2000	11/16/2000
	SAMPLE TIME	13:30	13:10	09:55	16:00	10:00
	LAB	ELI	ELI	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H08110126-013	H09050242-006	L992165008	L000631019	L001922007
	SAMPLE NUMBER	AEH-0811-221	AEH-0905-232	IMMW-9912-107	IMMW-0004-107	IMMW-0011-107
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	230	240	586	270	288
Calcium (Ca) (DIS)	57	49	20	27	36
Carbonate As CO3			<1	<1	<1
Chloride (Cl)	23	18	121	170	206
Magnesium (Mg) (DIS)	11	10	6.3	8.7	11
Potassium (K) (DIS)	37	33	15	13	14
Sodium (Na) (DIS)	140	133	775	619	755
Sulfate (SO4)	300	270	1176	1104	1165
Total Alkalinity As CACO3	190	190	480	221	236

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	0.006				
Selenium-VI (DIS)	0.043				
Aluminum (Al) (DIS)	<0.1	<0.1			<0.03 J
Antimony (Sb) (DIS)	0.012	0.013			
Arsenic (As) (DIS)	4.35	4.45	50	53 J	60
Arsenic III (DIS)	0.295 J		58	53	74
Arsenic V (DIS)	2.95 J		4.9	1.5	1.6
Barium (Ba) (DIS)	<0.1	<0.1			
Beryllium (Be) (DIS)	<0.001	<0.001			
Cadmium (Cd) (DIS)	0.354	0.342	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001			
Cobalt (Co) (DIS)	<0.01	0.005			
Copper (Cu) (DIS)	<0.004	0.004	<0.004	<0.004 J	0.01 J
Gold (Au) (DIS)		0.01			
Iron (Fe) (DIS)	0.03	<0.02	2.9	6	6.6
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	0.005
Manganese (Mn) (DIS)	2.92	2.81	1.5	1.9	2.3 J
Mercury (Hg) (DIS)	<0.006	0.0001			
Nickel (Ni) (DIS)	<0.01	<0.01			
Selenium (Se) (DIS)	0.053	0.053			
Silver (Ag) (DIS)	<0.005	<0.005 J			
Tellurium (Te) (DIS)		<0.1			
Thallium (Tl) (DIS)	<0.002	<0.001			
Vanadium (V) (DIS)	0.01	0.01			
Zinc (Zn) (DIS)	<0.02 J	<0.01	0.1	0.1	0.05

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.3	0.17	1.2	2.2	
pH	7.4	7.4	8.1	7.2	7.6
Silicon+Silica (Si+SiO2)					11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-36	DH-36	DH-37	DH-37	DH-37
Water	SAMPLE DATE	11/11/2008	5/15/2009	12/17/1999	4/26/2000	11/16/2000
	SAMPLE TIME	13:30	13:10	09:55	16:00	10:00
	LAB	Hydrometrics	Hydrometrics	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H08110126-013	H09050242-006	L992165008	L000631019	L001922007
	SAMPLE NUMBER	AEH-0811-221	AEH-0905-232	IMMW-9912-107	IMMW-0004-107	IMMW-0011-107
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fld-Lab: ppm unless noted**

	DH-36	DH-36	DH-37	DH-37	DH-37
Depth To Water Level (ft)	28.55	31.03	25.07	27.2	27.2
Eh (millivolts)			96 J	0.0	12
pH (Fld)	6.75	6.87	9.05	8.3	8.9
SC (umhos/cm at 25 C) (Fld)	1038	999	3240	29.3	2820
SC (umhos/cm at 25 C)	1060	1000	3420	2960	3640
Total Suspended Solids	<10	<10			
TDS (Measured at 180 C)	702	677	2431	2043	2621
Turbidity (NTU) (Fld)			18.2	13	
Water Temperature (C) (Fld)	11.7	11.6	10.8	11.2	10.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-37	DH-37	DH-37	DH-37	DH-37	DH-37
Water	SAMPLE DATE	11/16/2000	5/2/2001	5/2/2001	11/8/2001	5/30/2002	11/15/2002
	SAMPLE TIME	10:30	13:30	13:40	11:00	16:15	14:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001922035	L010608026	L010608024	L011535005	L020397010	L020950015
	SAMPLE NUMBER	IMMW-0011-136	EHC-0105-140	EHC-0105-206	EHC-0111-138	EHC-0205-143	EHC-0211-141
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	281	317	307	482	326	1017
Calcium (Ca) (DIS)	43	34	34	33	31	52
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Chloride (Cl)	191	236	219	257	104	142 J
Magnesium (Mg) (DIS)	13	12	12	14	12	28
Potassium (K) (DIS)	15	15	15	20	15	30
Sodium (Na) (DIS)	780	667	668	847	478	966
Sulfate (SO4)	1364	1206	1124	1123	649	1151
Total Alkalinity As CaCO3	230	260	252	395	267	834

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	0.08 J		<0.05	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	59	51	52	53	46	55
Arsenic III (dis)	73	51	50	62	35	42
Arsenic V (dis)	1.7	<0.005	1	<0.005	11	10
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002
Copper (Cu) (DIS)	0.04 J	<0.004	<0.004	<0.004	0.006	<0.004
Iron (Fe) (DIS)	6.8	6.1	6	5.2	8	9.3
Lead (Pb) (DIS)	0.006	<0.005	<0.005	<0.005	0.008	<0.005
Manganese (Mn) (DIS)	3.1 J	1.9	1.9	1.8	2	2.5
Zinc (Zn) (DIS)	0.04	0.08	0.08	0.05	0.05	0.03

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				-192.1	-45.5	
Oxygen (O) (DIS) (Fld)		0.8	0.8	0.2	0.2	0.2
pH	7.6	7.6	7.9	8.3	7.5	7.7
Silicon+Silica (Si+SiO2)	12		9.4	11	16	15
Depth To Water Level (ft)		27.6		27.6	29.4	27.6
Eh (millivolts)	9.7	43	43	59		
pH (Fld)	8.8	8.4	8.4	8.4	7.8	7.6
SC (umhos/cm at 25 C) (Fld)	2820	3150	3150	3310	2120	4370
SC (umhos/cm at 25 C)	3650	3500	3500	3560	2020	4220
Total Suspended Solids		29	29	24	27 J	30 J
TDS (Measured at 180 C)	2618	2418	2374	2353	1369	2965 J
Salinity (G/KG) (Fld)						2.1
Turbidity (NTU) (Fld)						2
Water Temperature (C) (Fld)	10.5	11.5	11.5	11.2	10.2	11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-37	DH-37	DH-37	DH-37	DH-37	DH-37
Water	SAMPLE DATE	6/1/2003	10/26/2003	5/27/2004	11/3/2004	5/19/2005	11/18/2005
	SAMPLE TIME	10:00	13:30	15:05	13:20	12:05	11:35
	LAB	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel
	LAB NUMBER	L030244005	L030600010	H04050208-018	H04110037-016	C05050744-008	H05110164-009
	SAMPLE NUMBER	AEH-0306-144	AEH-0310-368	AEH-0405-216	AEH-0411-218	AEH-0505-208	AEH-0511-216
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

### Common Ions (mg/L): ppm unless noted

Bicarbonate (HCO3)	722	769	860	2100	1040	1400
Calcium (Ca) (DIS)	26	31	30	45	9	18
Carbonate As CO3	<2	<2				
Chloride (Cl)	145	125	130	200	83	120
Magnesium (Mg) (DIS)	11	15	12	25	6	21
Potassium (K) (DIS)	14	19	18	25	12	14
Sodium (Na) (DIS)	642	788	742	1471	801	1513
Sulfate (SO4)	919	836	640	2170	872	1480
Total Alkalinity As CaCO3	592	630	700	1800	911	1100

### Metals (mg/L): ppm unless noted

Arsenic (As) (DIS)	43	41	30.3	30.21	32.3	42.7
Arsenic III (dis)	33	42	28	28	30.5	39.9
Arsenic V (dis)	11	<0.05	3.2	9.1	0.09 UJ	1.1
Cadmium (Cd) (DIS)	<0.001	0.005	<0.001	<0.001	<0.002	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	9	9.4	9.46	5.39	0.7	0.86
Lead (Pb) (DIS)	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	1.9	2	2.06	1.43	0.27	0.3
Zinc (Zn) (DIS)	0.05	0.06	0.05	<0.02	<0.02	<0.02

### Physical/Fid-Lab: ppm unless noted

Oxygen (O) (DIS) (Fld)	0.3	1.19	0.6	0.03	0.12	2.03
pH	7.5	7.8	7.7	8.2	8.86	8.4
Depth To Water Level (ft)	27.8	28.08	28.69	25.94	29.01	26.66
pH (Fld)	7.6	7.34	7.77	7.84	8.91	8.45
SC (umhos/cm at 25 C) (Fld)	3460	3190	3620	7477	3302	5570
SC (umhos/cm at 25 C)	3350	3240	3120	6390	3510	5390
Total Suspended Solids	36	28	31	22	<10	<10
TDS (Measured at 180 C)	2290	2264	2320	5380	2330	4160
TDS - Calculated					2340	
Salinity (G/KG) (Fld)	1.7	1.5				
Turbidity (NTU) (Fld)	1	8				
Water Temperature (C) (Fld)	9.6	10.6	10.3	10.2	9.7	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-37	DH-37	DH-37	DH-37	DH-37	DH-37
Water	SAMPLE DATE	5/11/2006	5/11/2006	11/20/2006	5/18/2007	12/13/2007	5/16/2008
	SAMPLE TIME	09:50	10:00	10:55	11:25	10:30	00:00
	LAB	ELI-Hel	ELI-Hel	ELI	ELI	ELI	
	LAB NUMBER	H06050137-002	H06050137-003	H06110166-006	H07050219-008	H07120160-004	AEH-0805-270
	SAMPLE NUMBER	AEH-0605-222	AEH-0605-223	AEH-0611-218	AEH-0705-183	AEH-0711-252	AEH-0805-270
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						to Samp-Low SWL
	REMARKS		Field Duplicate				No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	740	740	1700	480	
Bicarbonate (HCO3) (dis)					1400
Calcium (Ca) (DIS)	5	5	13	6	21
Chloride (Cl)	67	65	92	32	95
Magnesium (Mg) (DIS)	3	3	12	2	11
Potassium (K) (DIS)	10	9	17	8	21
Sodium (Na) (DIS)	636	623	1242	446	1427
Sulfate (SO4)	602	609	1260	445	1480
Total Alkalinity As CaCO3	660	650	1400	390	1100

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)					<0.005
Selenium-VI (dis)					0.0812
Arsenic (As) (DIS)	36.1	36.3	53.41	32.58	48.7
Arsenic III (dis)	36.4	35.3	61.4 R	29.1 J	53.8
Arsenic V (dis)	<0.1	<0.1	<1 R	7.39 J+	9.46
Cadmium (Cd) (DIS)	0.002	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.35	0.32	0.58	0.77	0.66
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.19	0.19	0.35	0.35	0.78
Selenium (Se) (DIS)					0.074
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	0.04	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential			-143.9		
Oxygen (O) (DIS) (Fid)	0.38		0.29	7.47	0.32
pH	9	9	8.9	8.6	8.8
Depth To Water Level (ft)	28.64		25.96	29.61	27.85
pH (Fid)	8.71		8.87	8.83	8.29
SC (umhos/cm at 25 C) (Fid)	3456		5035	1799	4976
SC (umhos/cm at 25 C)	2650	2650	4840	1640	5420
Total Suspended Solids	<10	<10	22	<10	13
TDS (Measured at 180 C)	1880	1870	3660	1210	3630
Water Temperature (C) (Fid)	11.21		11.27	9.91	6.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-37	DH-37	DH-39	DH-39	DH-39
Water	SAMPLE DATE	11/17/2008	5/19/2009	12/16/1999	4/26/2000	11/15/2000
	SAMPLE TIME	11:20	00:00	10:30	11:45	14:15
	LAB	ELI	Hydrometrics	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H08110187-007	z	L992165010	L000631021	L001922009
	SAMPLE NUMBER	AEH-0811-257	AEH-0905-266	IMMW-9912-109	IMMW-0004-109	IMMW-0011-109
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION		lo Samp-SWL Low			
	REMARKS		No Sample			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	860	244	270	240
Calcium (Ca) (DIS)	29	106	71	154
Carbonate As CO3		<1	<1	<1
Chloride (Cl)	64	47	20	203
Magnesium (Mg) (DIS)	11	31	22	46
Potassium (K) (DIS)	19	6.5	<5	6.2
Sodium (Na) (DIS)	898	56	44	60
Sulfate (SO4)	1200	227	94	168
Total Alkalinity As CaCO3	710	200	221	197

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005 J			
Selenium-VI (DIS)	0.015 J			
Aluminum (Al) (DIS)	<0.1			<0.01
Antimony (Sb) (DIS)	0.005			
Arsenic (As) (DIS)	30	0.02	0.02 UJ	0.02 U
Arsenic III (DIS)	23.8 J	0.01 U	0.01 UJ	<0.03
Arsenic V (DIS)	0.116 J	<0.005	0.04 U	0.03 U
Barium (Ba) (DIS)	<0.1			
Beryllium (Be) (DIS)	<0.001			
Cadmium (Cd) (DIS)	<0.001	0.003	0.007	0.007
Chromium (Cr) (DIS)	0.002			
Cobalt (Co) (DIS)	0.01			
Copper (Cu) (DIS)	<0.004	<0.004	<0.004 J	<0.004
Iron (Fe) (DIS)	6.95	<0.02 J	0.05	0.03 UJ
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	1.7	0.2	0.1	0.3
Mercury (Hg) (DIS)	<0.006			
Nickel (Ni) (DIS)	0.02			
Selenium (Se) (DIS)	0.061			
Silver (Ag) (DIS)	<0.005 J-			
Thallium (Tl) (DIS)	<0.002			
Vanadium (V) (DIS)	<0.01			
Zinc (Zn) (DIS)	0.02	<0.02	<0.02	0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.81	3.2	6.9	3.2
pH	7.6	7.9	7.6	7.6
Silicon+Silica (Si+SiO2)				26
Depth To Water Level (ft)	30.1	32.06	27.6	28.4
Eh (millivolts)			369	254
				5.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-37	DH-39	DH-39	DH-39
Water	SAMPLE DATE	11/17/2008	12/16/1999	4/26/2000	11/15/2000
	SAMPLE TIME	11:20	10:30	11:45	14:15
	LAB	Hydrometrics	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H08110187-007	L992165010	L000631021	L001922009
	SAMPLE NUMBER	AEH-0811-257	IMMW-9912-109	IMMW-0004-109	IMMW-0011-109
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS				

**Physical/Fid-Lab: ppm unless noted**

pH (Fld)	7.31	7	7.4	7.3
SC (umhos/cm at 25 C) (Fld)	3395	960	647	1034
SC (umhos/cm at 25 C)	3810	992	646	1420
Total Suspended Solids	16			
TDS (Measured at 180 C)	2600	679	410	939
Turbidity (NTU) (Fld)		18.9	25	
Water Temperature (C) (Fld)	10.4	11.9	11.8	11.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-39	DH-39	DH-39	DH-39	DH-39	DH-39
Water	SAMPLE DATE	5/4/2001	11/7/2001	5/29/2002	11/14/2002	5/31/2003	10/25/2003
	SAMPLE TIME	12:30	15:45	16:30	12:20	12:00	16:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010655031	L011535006	L020397011	L020949010	L030243011	L030599-015
	SAMPLE NUMBER	EHC-0105-142	EHC-0111-140	EHC-0205-145	EHC-0211-143	AEH-0306-130	AEH-0310-353
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	249	303	281	276	276	223
Calcium (Ca) (DIS)	166	119	111	126	140	160
Carbonate As CO3		8	<1	<1	<2	<2
Chloride (Cl)	176 J	73	430	45	45	41
Magnesium (Mg) (DIS)	48	34	31	37	42	47
Potassium (K) (DIS)	6.8	5.5	<5	5.8	5.4	5.7
Sodium (Na) (DIS)	54	49	45	47	50	53
Sulfate (SO4)	292 J	233	146	262	284	355
Total Alkalinity As CaCO3	204	262	230	226	226	223

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05	<0.05	<0.05		
Arsenic (As) (DIS)	0.03	0.03 UJ	0.02	0.03	0.02	0.032
Arsenic III (dis)	0.02 U	0.01 U	0.01	0.01	0.01	<0.005
Arsenic V (dis)	<0.005	0.02	0.01	0.02	0.007	0.032
Cadmium (Cd) (DIS)	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	0.037
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.2	0.1	0.09	0.4	0.1	0.65
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential		-16.1	1.1			
Oxygen (O) (DIS) (Fld)	3.8	0.6	1.4	4.7	1.3	1.79
pH	7.7	8.4	7.4	7	8	7.7
Silicon+Silica (Si+SiO2)	26	27	26	27		
Depth To Water Level (ft)	28.5	28.3	28.9	28.5	27.8	28.72
Eh (millivolts)	425	232				
pH (Fld)	7.4	7.2	7	6.6	6.4	6.87
SC (umhos/cm at 25 C) (Fld)	1354	964	1030	790	1110	1150
SC (umhos/cm at 25 C)	1393	1037	929	984	1120	1182
Total Suspended Solids	72	111	43	41	29	67
TDS (Measured at 180 C)	930	709	624	682	770	879
Salinity (G/KG) (Fld)				0.3	0.4	0.5
Turbidity (NTU) (Fld)				14	6	6
Water Temperature (C) (Fld)	13.1	12.8	11.7	11.9	11.2	11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-39	DH-39	DH-39	DH-39	DH-39	DH-39
Water	SAMPLE DATE	5/26/2004	10/29/2004	5/18/2005	11/16/2005	5/5/2006	11/17/2006
	SAMPLE TIME	13:30	09:50	11:00	08:50	10:35	08:35
	LAB	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel	ELI
	LAB NUMBER	H04050191-014	H04110009-002	C05050691-004	H05110136-001	H06050065-006	H06110158-001
	SAMPLE NUMBER	AEH-0405-192	AEH-0411-159	AEH-0505-188	AEH-0511-172	AEH-0605-159	AEH-0611-200
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	290	240	272	200	260	220
Calcium (Ca) (DIS)	109	172	94	245	119	148
Chloride (Cl)	45	70	35	65	26	45
Magnesium (Mg) (DIS)	30	52	27	76	34	44
Potassium (K) (DIS)	5	7	<5	7 J-	6	10
Sodium (Na) (DIS)	42	55	40	86 J-	80	100
Sulfate (SO4)	190	364	149	895	315	445
Total Alkalinity As CaCO3	240	190	223	160	210	180

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.016	0.017	0.026	<0.002	0.012 UJ	0.007
Arsenic III (dis)	<0.001	<0.001 J	<0.005	<0.001	<0.005	<0.005 J-
Arsenic V (dis)	0.023 J	0.032 J	0.03 J	0.006	0.01	<0.005 J-
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	0.002	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.005	<0.004	0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	0.04	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.08	0.2	0.13	0.49	0.07	0.34
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential						204.5
Oxygen (O) (DIS) (Fld)	1.12	0.53	2.1	1.61	1.89	6.25
pH	7.7	7.1	7.48	6.7	7.4	7
Depth To Water Level (ft)	29.74	27.18	28.53	27.03	27.78	25.97
pH (Fld)	7.12	6.68	6.86	6.5	6.9	6.49
SC (umhos/cm at 25 C) (Fld)	926	1353	850	1904	1154	1464
SC (umhos/cm at 25 C)	859	1010	797	1840	999	1360
Total Suspended Solids	30	42	53	67 J	174	<10
TDS (Measured at 180 C)	595	867 J	518	1560	720	1120
TDS - Calculated			507			
Water Temperature (C) (Fld)	12	11.3	10.93	12.66	11.73	11.16

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-39	DH-4	DH-4	DH-4	DH-4
Water	SAMPLE DATE	11/1/2007	1/16/1985	1/16/1985	1/16/1985	4/9/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	Hydrometrics	TSC-SLC	TSC-SLC	CAL	JTC
	LAB NUMBER	AEH-0711-DH39	85-678	85-689	S5712	8504-315
	SAMPLE NUMBER	AEH-0711-DH39	AEH-8501-119	AEH-8501-128	AEH-8501-128	AEH-8504-315
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	Abandoned				
	REMARKS	No Sample		Field Duplicate	Field Duplicate	Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	273		256	246
Calcium (Ca) (DIS)	46		42	44.8
Chloride (Cl)	36		44	43.5
Magnesium (Mg) (DIS)	8.8		7.2	6.7
Potassium (K) (DIS)	7.8		5	5.6
Sodium (Na) (DIS)	142		102	113
Sulfate (SO4)	158		160	122.4
Total Alkalinity As CaCO3	224		210	201.5

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.2	<0.1
Antimony (Sb) (DIS)			<0.01	<0.04
Arsenic (As) (DIS)	11.4	11.5	10	8.9
Barium (Ba) (DIS)			0.04	0.03
Beryllium (Be) (DIS)			<0.0006	<0.004
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.004	<0.004
Chromium (Cr) (DIS)			0.008	<0.009
Cobalt (Co) (DIS)			<0.007	<0.01
Copper (Cu) (DIS)	<0.008	<0.008	0.006	<0.02
Iron (Fe) (DIS)	4.7	5	6.8	4.5
Lead (Pb) (DIS)	<0.005	<0.005	<0.003	<0.002
Manganese (Mn) (DIS)	4.7	4.8	3.9	4.6
Mercury (Hg) (DIS)			<0.0002	<0.0001
Nickel (Ni) (DIS)			<0.03	<0.02
Selenium (Se) (DIS)			<0.002	<0.004
Silver (Ag) (DIS)			<0.003	<0.007
Thallium (Tl) (DIS)			<0.002	<0.003
Tin (Sn) (DIS)			<0.04	<0.03
Vanadium (V) (DIS)			0.01	<0.02
Zinc (Zn) (DIS)	0.01	0.02	0.02	0.01

**Other: ppm unless noted**

No Analysis                      0.0

**Physical/Fid-Lab: ppm unless noted**

pH	7.2		7.2	6.7
SC (umhos/cm at 25 C) (Fld)	838.4			
SC (umhos/cm at 25 C)	900		520	639
Total Suspended Solids	295		10	108
TDS (Measured at 180 C)	630		560	526

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-4	DH-4	DH-4	DH-4	DH-4	DH-4
Water	SAMPLE DATE	4/9/1985	4/9/1985	4/9/1985	6/11/1985	6/11/1985	6/11/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	JTC	TSC-SLC	JTC	TSC-SLC	TSC-SLC
	LAB NUMBER	85-2476	8504-322	85-2483	73-1989	85-4513	85-4509
	SAMPLE NUMBER	AEH-8504-315	AEH-8504-322	AEH-8504-322	AEH-8506-508	AEH-8506-508	AEH-8506-512
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)						235
	Calcium (Ca) (DIS)		45.4		46		43
	Chloride (Cl)						34
	Magnesium (Mg) (DIS)		6.6		7.1		8.2
	Potassium (K) (DIS)		5.6		5.3		7.6
	Sodium (Na) (DIS)		114		109		112
	Sulfate (SO4)						119
	Total Alkalinity As CaCO3						193
<b>Metals (mg/L): ppm unless noted</b>							
	Aluminum (Al) (DIS)		<0.1		<0.1		
	Antimony (Sb) (DIS)		<0.04		<0.05		
	Arsenic (As) (DIS)	10.3	9.9	10.9	7.7	8.5	8.5
	Barium (Ba) (DIS)		<0.02		0.02		
	Beryllium (Be) (DIS)		<0.004		<0.005		
	Cadmium (Cd) (DIS)	<0.001	<0.004	<0.005	<0.004	0.001	<0.001
	Chromium (Cr) (DIS)		<0.009		<0.008		
	Cobalt (Co) (DIS)		<0.01		<0.02		
	Copper (Cu) (DIS)		<0.02		<0.02		<0.008
	Iron (Fe) (DIS)		4.3		4.3		5.1
	Lead (Pb) (DIS)	<0.005	<0.002	0.001	<0.002	<0.005	<0.005
	Manganese (Mn) (DIS)		4.7		4.4		3.4
	Mercury (Hg) (DIS)		<0.0001		<0.0001		
	Nickel (Ni) (DIS)		0.03		0.07		
	Selenium (Se) (DIS)		<0.004		<0.004		
	Silver (Ag) (DIS)		<0.007		0.01		
	Thallium (Tl) (DIS)		<0.003		0.004		
	Tin (Sn) (DIS)		<0.03		<0.03		
	Vanadium (V) (DIS)		<0.02		<0.03		
	Zinc (Zn) (DIS)	0.1	<0.009	0.02	0.02	0.2	0.05
<b>Physical/Fld-Lab: ppm unless noted</b>							
	pH	6.9					7.2
	SC (umhos/cm at 25 C) (Fld)	818.9					766
	SC (umhos/cm at 25 C)	768					814
	Total Suspended Solids						130
	TDS (Measured at 180 C)	549					511

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-4	DH-4	DH-4	DH-4	DH-4	DH-4
Water	SAMPLE DATE	8/15/1985	8/15/1985	8/15/1985	8/15/1985	8/15/1985	8/15/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	JTC	TSC-SLC	JTC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	73-2884	85-6282	73-2883	85-6294	85-6306	85-6307
	SAMPLE NUMBER	AEH-8508-704	AEH-8508-704	AEH-8508-720	AEH-8508-720	AEH-8508-734	AEH-8508-735
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split		Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	232	229
Calcium (Ca) (DIS)	42.1	43.3
Chloride (Cl)	35.9	37.6
Magnesium (Mg) (DIS)	6.8	6.6
Potassium (K) (DIS)	5.7	6.4
Sodium (Na) (DIS)	100	111
Sulfate (SO4)	131	122
Total Alkalinity As CaCO3	190	188

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.2	<0.2				
Antimony (Sb) (DIS)	<0.05	<0.05				
Arsenic (As) (DIS)	70.5	10	11.6	11	11	9.8
Barium (Ba) (DIS)	0.06	0.07				
Beryllium (Be) (DIS)	0.004	0.004				
Cadmium (Cd) (DIS)	<0.004	0.003	<0.004	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.008	<0.008				
Cobalt (Co) (DIS)	<0.008	<0.008				
Copper (Cu) (DIS)	<0.02	<0.02				
Iron (Fe) (DIS)	6.8	9.2				
Lead (Pb) (DIS)	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.6	3.5				
Mercury (Hg) (DIS)	<0.0001	<0.0001				
Nickel (Ni) (DIS)	<0.002	<0.02				
Selenium (Se) (DIS)	<0.004	<0.004				
Silver (Ag) (DIS)	<0.006	0.006				
Thallium (Tl) (DIS)	<0.002	<0.002				
Tin (Sn) (DIS)	<0.03	<0.03				
Vanadium (V) (DIS)	<0.03	<0.03				
Zinc (Zn) (DIS)	0.01	0.02	0.02	<0.008	0.02	0.01

**Physical/Fid-Lab: ppm unless noted**

pH	7.05	7	7.01	7.7		
SC (umhos/cm at 25 C) (Fld)		711.3		739.8	740.4	712.4
SC (umhos/cm at 25 C)	630	707	620	697		
Total Suspended Solids	103	16				
TDS (Measured at 180 C)	521	447	504	517		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-4	DH-4	DH-4	DH-4	DH-4	DH-4
Water	SAMPLE DATE	11/19/1986	11/19/1986	6/4/1987	11/19/1987	11/19/1987	4/29/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	RMAL	TSC-SLC	TSC-SLC	TSC-SLC	WYRHR	TSC-SLC
	LAB NUMBER	8611-24	86-7792	87-4091	87-10578	8711-219	88-3120
	SAMPLE NUMBER	AEH-8611-24	AEH-8611-24	AEH-8706-06	AEH-8711-219	AEH-8711-219	AEH-8804-303
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split				Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		254	245	210	150	184
Calcium (Ca) (DIS)	52.8		35.5 M	40	38.2	38
Carbonate As CO3			<1	<1	<5	<1
Chloride (Cl)			29 M	24 M	22	25 J
Magnesium (Mg) (DIS)	8.9		6.5	7	6.9	6.5
Potassium (K) (DIS)	5.3		4.3	5.4	3.8	5
Sodium (Na) (DIS)	97.5		76	74.5	71.6	71
Sulfate (SO4)		130	70 M	73 M	60	107

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	4.5	4.5	4.6 M	4.4	4.3	4.3
Arsenic III (dis)		3.7	4.4	4		5.4
Arsenic V (dis)		0.5	0.1	0.5		0.05
Cadmium (Cd) (DIS)	<0.005	<0.001	<0.001 M	0.003	0.03	<0.001
Copper (Cu) (DIS)	<0.004		<0.008 M	<0.008	0.004	
Iron (Fe +2) (TOT)		16.6	14.8	16.8		17.2
Iron (Fe) (DIS)	15.8	15.7 M	13.3	11.5	13	12.2 J
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.003	<0.005
Manganese (Mn) (DIS)	5.8		5.01	4.7	4.7	
Zinc (Zn) (DIS)	0.006	<0.008 M	0.01	<0.008	0.01	0.03 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		1.7	2.2 M	1.4		1.3
pH	6.9	6.9	7.8	8.1 M		7.6 J
Depth To Water Level (ft)		11.1	11.3	11.5		11.2
pH (Fld)		6 M	7.06	6.7		6.8
SC (umhos/cm at 25 C) (Fld)		780	617.5	602.5		466
SC (umhos/cm at 25 C)	750	750	600	680		720
Total Suspended Solids				44.5		
TDS (Measured at 180 C)		686 M	443	461 M	380	353
Water Temperature (C) (Fld)		9.2	11.7	10.6		10.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-4	DH-4	DH-4	DH-4	DH-4	DH-4
Water	SAMPLE DATE	12/19/1988	4/18/1989	10/18/1989	4/29/1990	12/4/1990	5/7/1991
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-36	89-500	89-814	90-1054	90-2245	91-2689
	SAMPLE NUMBER	AEH-8812-124	AEH-8904-203	AEH-8910-403	AEH-9005-403	AEH-9011-710	AEH-9105-139
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	16	24	21.2	26.1	14 J	20
	Sulfate (SO4)	43	89	65	99	42 J	37
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	4.05	3.9	4.8 J	4.8	3.2	3.4
	Arsenic III (dis)	3.7 J	4	4.2	5	3.8	2.9 UJ
	Arsenic V (dis)	0.01	0.2 J	0.08	0.3	0.03	0.1 U
	Cadmium (Cd) (DIS)	0.001	<0.002	<0.001	0.001	0.001	0.001
	Copper (Cu) (DIS)	0.008	<0.008 UJ	<0.008	<0.008	<0.008	<0.004
	Iron (Fe +2) (TOT)	10.2	12				
	Lead (Pb) (DIS)	<0.005 UJ	<0.02	<0.005 UJ	<0.005 UJ	<0.005	<0.005
	Zinc (Zn) (DIS)	0.03	0.01	<0.008 J	0.009 U		0.008
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	2	1.2	1.5	1.6	2.3	3.1
	pH	7.2	6.6	7.2	7.8	7.9	7.5
	Depth To Water Level (ft)	11.5	10.6	11.5	11.1	11.5	11.06
	pH (Fld)	6.5	6.3	6.7	7.4	7.3	7.6
	SC (umhos/cm at 25 C) (Fld)	501.2	616.7	592.7	648	504.8	504.6
	SC (umhos/cm at 25 C)	475	550	550	650	488	477
	TDS (Measured at 180 C)	310 J	543	372	411	299 J	332
	Water Temperature (C) (Fld)	10.3	9.7	13.2	8.5	9.9	10.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-4	DH-4	DH-4	DH-4	DH-4	DH-4
Water	SAMPLE DATE	11/19/1991	11/19/1991	4/21/1992	4/21/1992	11/15/1992	11/15/1992
	SAMPLE TIME	08:30	09:30	11:30	15:00	14:00	14:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	91-3870	91-3872	92-4297	92-4300	92-6791	92-6790
	SAMPLE NUMBER	AEH-9111-338	AEH-9111-364	AEH-9204-105	AEH-9204-150	EHC-9211-136	EHC-9211-148
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate	Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)					31 J	30 J
Chloride (Cl)	11 J	12 J	23 J	12 J	8.2	8.2
Magnesium (Mg) (Dis)					5.6	5.6
Potassium (K) (Dis)					<5 UJ	<5 UJ
Sodium (Na) (Dis)					43	44
Sulfate (SO4)	22	24	30	30	16	14

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	2.5	2.6	2.3	2.4	2	1.9
Arsenic III (dis)	3.2	3	2.4	2.5	2.4 J	2.04 J
Arsenic V (dis)	0.2 UJ	0.3 U	0.03	0.05	0.2 J	0.2 J
Cadmium (Cd) (DIS)	<0.003	<0.003	<0.001	<0.001	0.001	0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	0.005 J	<0.005
Zinc (Zn) (DIS)	0.04	0.02	0.007	0.01	<0.006	<0.006

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.4	2.4	1.2	1.2	1.9	1.9
pH	6.8	6.8	6.9	7.1	7.1	7.1
Depth To Water Level (ft)	10.9	10.9	10.8	10.8	10.3	10.3
pH (Fld)	7.6	7.6	7.2	7.2	7.2	7.2
SC (umhos/cm at 25 C) (Fld)	394	395	420	410	389	391
SC (umhos/cm at 25 C)	342	351	400	400	375	380
TDS (Measured at 180 C)	278 J	285 J	280	272	280	280
Water Temperature (C) (Fld)	11.4	11.4	11.2	11.2	10.8	10.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-4	DH-4	DH-4	DH-4	DH-4	DH-4
Water	SAMPLE DATE	5/4/1993	11/10/1993	3/28/1994	4/11/1994	5/6/1994	5/6/1994
	SAMPLE TIME	14:15	16:00	14:10	12:45	11:00	11:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-7773	93-9217	94-502006	94-591003	94-747004	94-1318
	SAMPLE NUMBER	EHC-9305-140	EHC-9311-126	AHCL-9403-114	AHCL-9404-152	AHCL-9405-203	EHC-9405-131
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)	36					
Chloride (Cl)	13	12 J				18
Magnesium (Mg) (Dis)	6.1					
Potassium (K) (Dis)	<5					
Sodium (Na) (Dis)	46					
Sulfate (SO4)	34	35 J				41 J
Total Hardness As CaCO3	115					

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	2.1	1.9	1.8	2.2	2.4	2.5
Arsenic III (dis)	2.06	2.2				2.1 J
Arsenic V (dis)	0.3 J	0.2 J				0.3
Cadmium (Cd) (DIS)	<0.001	<0.001	0.001	0.002 U	<0.001	<0.002
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	0.006	<0.006	<0.02	0.01 U	<0.008	0.01 U

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.8	2.6	2	1.6	1.2	1.2
Depth To Water Level (ft)	9.5	10.9	10.3	10.2	10.6	10.6
pH (Fld)	6.6	7.3	6.9	7	7.6	7.6
SC (umhos/cm at 25 C) (Fld)	501	434	423	454	412	486
SC (umhos/cm at 25 C)	430	405 J				430
TDS (Measured at 180 C)	284	268	282	330	273	282
Water Temperature (C) (Fld)	15.6	10.4	10.4	10.5	10.1	10.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-4	DH-4	DH-4	DH-4	DH-4	DH-4
Water	SAMPLE DATE	5/17/1994	5/19/1994	5/24/1994	5/26/1994	5/26/1994	5/31/1994
	SAMPLE TIME	09:00	10:00	10:00	10:50	15:00	10:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-798004	94-816004	94-831004	94-851004	94-851011	94-873004
	SAMPLE NUMBER	AHCL-9405-218	AHCL-9405-232	AHCL-9405-243	AHCL-9405-258	AHCL-9405-265	AHCL-9405-103
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	2.8	2.4	2.2	2.5	2.4	2
	Cadmium (Cd) (DIS)	0.002 U	<0.001	<0.001	<0.001	<0.001	0.003 U
	Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.02 U	0.02	<0.004
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	0.008 U	0.03	0.01	<0.008	<0.008	0.02 U
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	1.4	1.7	1.6	1.1	1.1	2.4
	Depth To Water Level (ft)	10.2	10.03	10.07	10.1	10.1	10.9
	pH (Fld)	6.9	7.1	7.3	7.4	7.4	7.2
	SC (umhos/cm at 25 C) (Fld)	486	461	434	467	467	437
	TDS (Measured at 180 C)	294	293	284	280	296	277
	Water Temperature (C) (Fld)	8.5	8.8	9.7	7.2	7.2	9.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-4	DH-4	DH-4	DH-4	DH-4	DH-4
Water	SAMPLE DATE	6/2/1994	6/6/1994	6/13/1994	7/12/1994	8/19/1994	9/26/1994
	SAMPLE TIME	10:00	10:00	10:00	10:15	10:30	10:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-893004	94-917004	94-959004	94-1209004	94-1504023	94-1778017
	SAMPLE NUMBER	AHCL-9406-103	AHCL-9406-203	AHCL-9406-303	AHCL-9407-103	AHCL-9408-315	AHCL-9409-415
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)		2.2	2.7	2.4	2.3	1.9	1.9
Cadmium (Cd) (DIS)		<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)		0.01	0.01 U	<0.008	0.01 U	0.008 U	0.01 U
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fid)		1.8	2	1.8	1.3	2.3	2.6
Depth To Water Level (ft)		10.2	10.2	10.3	10.4	10.7	10.8
Eh (millivolts)							-100
pH (Fid)		7	7.3	7.4	7.08	7.3	7.6
SC (umhos/cm at 25 C) (Fid)		443	454	457	431	465	441
TDS (Measured at 180 C)		275	290	294	264	281 J	284
Water Temperature (C) (Fid)		9.5	10.1	10.5	10.3	11.8	12

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-4	DH-4	DH-4	DH-4	DH-4	DH-4
Water	SAMPLE DATE	9/26/1994	10/20/1994	10/20/1994	11/11/1994	3/30/1995	4/25/1995
	SAMPLE TIME	13:00	11:30	14:30	15:00	15:00	13:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1778018	94-1932002	94-1932003	94-3278	95-616012	95-826017
	SAMPLE NUMBER	AHCL-9409-424	AHCL-9410-314	AHCL-9410-323	EHC-9411-131	AHCL-9503-114	AHCL-9504-119
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)					50	45.2
Chloride (Cl)				10		
Magnesium (Mg) (DIS)					8.8	8.3
Potassium (K) (DIS)					6.8	5.2
Sodium (Na) (DIS)					42	39.4
Sulfate (SO4)				21 J	25	22

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	2	1.8	1.7	1.9	2.3	2.05
Arsenic III (dis)				1.7	2.3	2.2
Arsenic V (dis)				0.4 J	0.2	0.08
Cadmium (Cd) (DIS)	<0.001	<0.001	0.001	<0.001	<0.001	0.002
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.004
Iron (Fe) (TOT)					12.1	12.7
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005 UJ	<0.005	<0.005
Zinc (Zn) (DIS)	0.01	0.01	0.01	0.006	<0.008	0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.6	2.3	2.3	2.2	1.6	2.6
Depth To Water Level (ft)	10.8	10.5	10.5	11.2	10.7	10.4
Eh (millivolts)	-100	-81	-81		141	-157
pH (Fld)	7.6	7.4	7.4	7.1	7.1	7.3
SC (umhos/cm at 25 C) (Fld)	441	445	445	428	538	547
SC (umhos/cm at 25 C)				418 J		
Total Suspended Solids					23	
TDS (Measured at 180 C)	281	140 J	278 J	263 J	339	331
Water Temperature (C) (Fld)	12	10.5	10.5	11	10.5	9.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-4	DH-4	DH-4	DH-4	DH-4	DH-4
Water	SAMPLE DATE	5/10/1995	5/22/1995	6/20/1995	7/18/1995	8/16/1995	9/15/1995
	SAMPLE TIME	17:35	15:05	16:20	07:45	08:15	11:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-4482	95-1057008	95-1280024	95-1523015	95-1778015	95-2070026
	SAMPLE NUMBER	EHC-9505-131	AHCL-9505-116	AHCL-9506-114	AHCL-9507-114	AHCL-9508-114	AHCL-9509-114
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)		47.4	53			
Chloride (Cl)	13					
Magnesium (Mg) (DIS)		8.4	7.5			
Potassium (K) (DIS)		5.1	5.1			
Sodium (Na) (DIS)		37.8	35			
Sulfate (SO4)	24	26	31			

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	2.02	1.6	2.4	2.2	1.9	2.3
Arsenic (As) (TOT)		1.8				
Arsenic III (dis)	2.2	1.7	2.07			
Arsenic V (dis)	0.2 J	0.2	0.1			
Cadmium (Cd) (DIS)	0.001	0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)		0.002				
Copper (Cu) (DIS)	0.008	<0.004	0.004	0.008	<0.004	0.008
Copper (Cu) (TOT)		<0.004				
Iron (Fe) (DIS)		11.6				
Iron (Fe) (TOT)		13.1 J	11.2			
Lead (Pb) (DIS)	0.006 J	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)		<0.005				
Zinc (Zn) (DIS)	0.008	<0.006	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (TOT)		<0.006				

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.8	0.7	1.09	1.3	0.9	1.3
pH	6.7					
Depth To Water Level (ft)	10.3	9.5	9.6	10.2	10.3	10.1
Eh (millivolts)		-14	-112	-69	-88	138
pH (Fld)	7.2	6.5	6.9	6.7	7.5	7.1
SC (umhos/cm at 25 C) (Fld)	513	638	616	606	568	588
SC (umhos/cm at 25 C)	480 J					
Total Suspended Solids		26 J	39			
TDS (Measured at 180 C)	298 J	328	366	302	340	306
Water Temperature (C) (Fld)	11.3	10.5	10.8	10.5	10.9	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-4	DH-4	DH-4	DH-4	DH-4	DH-4
Water	SAMPLE DATE	10/4/1995	10/23/1995	11/8/1995	11/8/1995	11/15/1995	12/12/1995
	SAMPLE TIME	14:40	12:00	10:40	10:40	12:30	11:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-2299004	95-2401005	95-2532013	95-6120	95-2578004	95-2775005
	SAMPLE NUMBER	EPPC-9510-103	AHCL-9510-114	AHCL-9511-115	EHC-9511-133	EPPC-9511-103	EPPC-9512-104
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Calcium (Ca) (DIS)		53				56	
Chloride (Cl)					17 J		
Magnesium (Mg) (DIS)		9.5				10	
Sulfate (SO4)		34			28 J	55	40
Total Hardness As CaCO3		158				183	
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (TRC)		<0.1				0.1	<0.1
Antimony (Sb) (TRC)		<0.02				<0.1	<0.05
Arsenic (As) (DIS)		2.1	2.3	2.5	2.4	2.5	2.3
Arsenic (As) (TOT)		1.9				2.2	2.2
Arsenic III (dis)					2.6 J		
Arsenic V (dis)					0.2 J		
Beryllium (Be) (TRC)		<0.001				0.003	<0.001
Cadmium (Cd) (DIS)		0.004	0.001	<0.001	0.002	<0.001	<0.001
Cadmium (Cd) (TOT)		0.003				<0.001	<0.001
Copper (Cu) (DIS)		<0.008	0.004	0.01	<0.004	<0.008	<0.008
Copper (Cu) (TOT)		0.01				<0.008	<0.008
Iron (Fe) (TRC)		14				14	14
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)		<0.005				<0.005	<0.005
Manganese (Mn) (TRC)		5.1				4.9	5
Mercury (Hg) (TOT)		<0.0002				<0.0002	<0.0002
Selenium (Se) (TRC)		<0.001				<0.002	<0.001
Silver (Ag) (TRC)		<0.001				<0.002	<0.002
Thallium (Tl) (TRC)		<0.003				<0.003	<0.003
Zinc (Zn) (DIS)		<0.02	<0.02	<0.02	0.007	<0.02	<0.02
Zinc (Zn) (TOT)		<0.02				<0.02	<0.02
<b>Nutrients: ppm unless noted</b>							
Total Ammonia (NH3+NH4 as N)		4.2				4.3	3.8
Nitrate + Nitrite as N		<0.05				0.1	<0.05
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)			1.1	0.8	0.8		
pH					7.1		
Depth To Water Level (ft)	10.2	10.2	10.2	10.2	10.2	10.2	10.4
Eh (millivolts)		126	93				
pH (Fld)	7.1	6.7	6.6	6.6	6.6	7.2	7.2
SC (umhos/cm at 25 C) (Fld)		511	526	526	526		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-4	DH-4	DH-4	DH-4	DH-4	DH-4
Water	SAMPLE DATE	10/4/1995	10/23/1995	11/8/1995	11/8/1995	11/15/1995	12/12/1995
	SAMPLE TIME	14:40	12:00	10:40	10:40	12:30	11:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-2299004	95-2401005	95-2532013	95-6120	95-2578004	95-2775005
	SAMPLE NUMBER	EPPC-9510-103	AHCL-9510-114	AHCL-9511-115	EHC-9511-133	EPPC-9511-103	EPPC-9512-104
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

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SC (umhos/cm at 25 C)					562 J		
TDS (Measured at 180 C)			326	369	394 J		
Water Temperature (C) (Fld)	10.5	11.7		9.9	9.9	11.4	10.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-4	DH-4	DH-4	DH-4	DH-4	DH-4
Water	SAMPLE DATE	12/12/1995	1/18/1996	2/15/1996	3/18/1996	4/17/1996	5/8/1996
	SAMPLE TIME	11:15	13:45	11:15	14:10	13:15	14:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-2775008	96-152005	96-322005	96-548005	96-751007	96-6728
	SAMPLE NUMBER	EPPC-9512-108	EPPC-9601-104	EPPC-9602-104	EPPC-9603-104	EPPC-9604-104	EHC-9605-213
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)							59
Sulfate (SO4)	40	28	39	62	60		62

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)	<0.1	<0.1	<0.1	<0.1	<0.1		
Antimony (Sb) (TRC)	<0.05	<0.05	<0.05	<0.05	<0.05		
Arsenic (As) (DIS)	2.3	2.3	2	2.4	2.2		2.3
Arsenic (As) (TOT)	2.2	2.2	2.2	2	2.2		
Arsenic III (dis)							2.09 J
Arsenic V (dis)							0.3 J
Beryllium (Be) (TRC)	<0.001	<0.001	<0.001	<0.001	<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
Cadmium (Cd) (TOT)	<0.001	<0.001	<0.001	<0.001	<0.001		
Copper (Cu) (DIS)	<0.008	<0.008	<0.008	<0.008	<0.008		<0.004
Copper (Cu) (TOT)	<0.008	<0.008	<0.008	<0.008	<0.008		
Iron (Fe) (TRC)	12	15	14	17	20		
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
Lead (Pb) (TOT)	<0.005	<0.005	<0.005	<0.005	<0.005		
Manganese (Mn) (TRC)	4.3	5.4	5.1	6.3	7.3		
Mercury (Hg) (TOT)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
Selenium (Se) (TRC)	<0.001	<0.001	<0.001	<0.001	<0.001		
Silver (Ag) (TRC)	<0.002	<0.002	<0.002	<0.002	<0.002		
Thallium (Tl) (TRC)	<0.003	<0.001	<0.003	<0.001	<0.003		
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02		<0.02
Zinc (Zn) (TOT)	<0.02	<0.02	<0.02	<0.02	<0.02		

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N)	3.9	5.1	6.3	4.9	4.9		
Nitrate + Nitrite as N	<0.05	<0.05	<0.05	<0.05	0.07		

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)							1
pH							6.8
Depth To Water Level (ft)	10.4	10.5	10.1	10.2	10.1		10.2
Eh (millivolts)							61
pH (Fld)	7.3	7.4	6.9	7	7.04		7
SC (umhos/cm at 25 C) (Fld)							839
SC (umhos/cm at 25 C)							740
TDS (Measured at 180 C)							523
Water Temperature (C) (Fld)	10.6	9.6	11.3	11	10.7		10.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-4	DH-4	DH-4	DH-4	DH-4	DH-4
Water	SAMPLE DATE	5/15/1996	6/12/1996	6/25/1996	7/16/1996	8/15/1996	9/12/1996
	SAMPLE TIME	19:10	13:10	07:50	11:45	13:00	15:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-957005	96-1136005	96-1243014	96-1375005	96-1623005	96-1853005
	SAMPLE NUMBER	EPPC-9605-104	EPPC-9606-104	EHC-9606-114	EPPC-9607-104	EPPC-9608-104	EPPC-9609-104
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Sulfate (SO4)	76	140		136	149	181
<b>Metals (mg/L): ppm unless noted</b>							
	Aluminum (Al) (TRC)	<0.1	<0.1		<0.1	<0.1	<0.1
	Antimony (Sb) (TRC)	<0.05	<0.05		<0.001	0.001	<0.001
	Arsenic (As) (DIS)	2.5	2.2	2.2	2.7	2.2	2.2
	Arsenic (As) (TOT)	2.3	2		2.4	2	1.9
	Beryllium (Be) (TRC)	<0.001	<0.001		<0.001	<0.001	<0.001
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001
	Cadmium (Cd) (TOT)	<0.001	<0.001		<0.001	<0.001	<0.001
	Copper (Cu) (DIS)	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	Copper (Cu) (TOT)	<0.008	<0.008		<0.008	<0.008	<0.008
	Iron (Fe) (TRC)	24	22		27	27	31
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Lead (Pb) (TOT)	<0.005	<0.005		<0.005	<0.005	<0.005
	Manganese (Mn) (TRC)	8.6	8.2		9.6	9.6	11
	Mercury (Hg) (TOT)	0.0003	<0.0002		<0.0002	<0.0002	<0.0002
	Selenium (Se) (TRC)	<0.001	0.001		<0.001	<0.001	<0.001
	Silver (Ag) (TRC)	<0.002	<0.002		<0.002	<0.002	<0.002
	Thallium (Tl) (TRC)	<0.003	<0.003		<0.003	<0.003	<0.003
	Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	Zinc (Zn) (TOT)	<0.02	<0.02		<0.02	<0.02	<0.02
<b>Nutrients: ppm unless noted</b>							
	Total Ammonia (NH3+NH4 as N)	4.9	5.8		5.7	5.5	6.4
	Nitrate + Nitrite as N	<0.05	<0.05		<0.05	<0.05	<0.05
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fid)			1.06			
	Depth To Water Level (ft)	10	9.7	9.8	10.04	10.2	10.1
	Eh (millivolts)			427			
	pH (Fid)	7.01	7.07	6.9	7	7.2	7.3
	SC (umhos/cm at 25 C) (Fid)			952			
	TDS (Measured at 180 C)			598			
	Water Temperature (C) (Fid)	11.4	10.6	10.4	11.3	11	11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-4	DH-4	DH-4	DH-4	DH-4	DH-4
Water	SAMPLE DATE	9/12/1996	9/19/1996	11/5/1996	5/6/1997	11/4/1997	5/13/1998
	SAMPLE TIME	15:25	17:30	15:30	14:00	15:40	09:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-1853008	96-1924024	96-7724	97-955	189-2704	263-3813
	SAMPLE NUMBER	EPPC-9609-110	EHC-9609-114	EHC-9611-213	EHC-9705-213	EHC-9711-213	EHC-9805-213
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)							266
Calcium (Ca) (DIS)							134
Chloride (Cl)				131	123	168	164
Magnesium (Mg) (DIS)							24
Potassium (K) (DIS)							13
Sodium (Na) (DIS)							200
Sulfate (SO4)	170		277	301	426		423
Total Alkalinity As CaCO3							218

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)	<0.1						
Antimony (Sb) (TRC)	<0.001						
Arsenic (As) (DIS)	2.1	2.5	2.2	2.7	3.02	3.4	
Arsenic (As) (TOT)	1.9						
Arsenic III (dis)			2.1	2.5	3.3 J	3.3	
Arsenic V (dis)			0.3 J	0.06	0.4 J	0.08	
Beryllium (Be) (TRC)	<0.001						
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)	<0.001						
Copper (Cu) (DIS)	<0.008	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)	<0.008						
Iron (Fe) (DIS)							37.5
Iron (Fe) (TRC)	31						
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	<0.005						
Manganese (Mn) (DIS)							12.05
Manganese (Mn) (TRC)	11						
Mercury (Hg) (TOT)	<0.0002						
Selenium (Se) (TRC)	<0.001						
Silver (Ag) (TRC)	0.003						
Thallium (Tl) (TRC)	<0.003						
Zinc (Zn) (DIS)	<0.02	0.02 U	<0.008	<0.02	<0.02	<0.02	0.03 J
Zinc (Zn) (TOT)	<0.02						

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N)	6.2
Nitrate + Nitrite as N	<0.05

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		1.2	1.4	1.4	3.09	1.6
pH			6.9	6.6	6.7	6.9
Depth To Water Level (ft)	10.1	10.05	10.08	9.9	10.3	9.8
Eh (millivolts)		112	214	180		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-4	DH-4	DH-4	DH-4	DH-4	DH-4
Water	SAMPLE DATE	9/12/1996	9/19/1996	11/5/1996	5/6/1997	11/4/1997	5/13/1998
	SAMPLE TIME	15:25	17:30	15:30	14:00	15:40	09:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-1853008	96-1924024	96-7724	97-955	189-2704	263-3813
	SAMPLE NUMBER	EPPC-9609-110	EHC-9609-114	EHC-9611-213	EHC-9705-213	EHC-9711-213	EHC-9805-213
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Physical/Fid-Lab: ppm unless noted**

pH (Fld)	7.2	7.3	7.03	6.5	7.3	6.9
SC (umhos/cm at 25 C) (Fld)		996	1098	1435	1770	1532
SC (umhos/cm at 25 C)			1219	1406	1695	1683
Total Suspended Solids				81	85 J	
TDS (Measured at 180 C)		800	884	1065	1189 J	1181
Water Temperature (C) (Fld)	11	10.7	10.3	11.2	11.1	11.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-4	DH-4	DH-4	DH-4	DH-4	DH-4
Water	SAMPLE DATE	5/13/1998	11/19/1998	5/12/1999	5/12/1999	11/17/1999	11/17/1999
	SAMPLE TIME	09:30	09:50	10:30	10:45	10:15	10:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	264-3824	313-4447	349-4928	349-4933	L992056001	L992056013
	SAMPLE NUMBER	EHC-9805-218	EHC-9811-213	EHC-9905-213	EHC-9905-218	EHC-9911-133	EHC-9911-181
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate		Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	264	277 J	227 J	220 J	171	161
Calcium (Ca) (DIS)	127	129	145	146	210	208
Carbonate As CO3			<1 UJ	<1 UJ	<1	<1
Chloride (Cl)	165	134	99	102	114	139
Magnesium (Mg) (DIS)	23	22	24	26	36	37
Potassium (K) (DIS)	11	13	14	15	16	16
Sodium (Na) (DIS)	186	199	193	198	190	200
Sulfate (SO4)	423	460	522	450	903 J	728 J
Total Alkalinity As CaCO3	216	227 J	186 J	180 J	140	132

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	3.2	3.2	3.05	3.2	3	3.3
Arsenic III (dis)	3.5	3.8	3.1	3.1	3.3	2.9
Arsenic V (dis)	0.07	0.05	0.1	0.1	0.2 J	0.1 J
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	35.5	34.08	36.6	37.4	59	59
Lead (Pb) (DIS)	0.006	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	11.3	10.4	11.6	11.3	17	17
Zinc (Zn) (DIS)	0.02 J	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	1.6	0.3	1.02	1.03	0.9	0.9
pH	7	7.1	7.2	7.3	7	6.9
Depth To Water Level (ft)		10.5	9.7		9.5	
Eh (millivolts)		299	224	222	101	100
pH (Fid)	6.9	6.8	6.5	6.5	7.07	7.08
SC (umhos/cm at 25 C) (Fid)	1540	1724	1644	1641	2140	2145
SC (umhos/cm at 25 C)	1684	1670	1738	1735	2160	2160
Total Suspended Solids					57 J	77 J
TDS (Measured at 180 C)	1144	1170	1273	1232	1708	1723
Water Temperature (C) (Fid)	11.4	11.2	10.7	10.7	10.2	10.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-4	DH-4	DH-4	DH-4	DH-4	DH-4
Water	SAMPLE DATE	5/9/2000	11/10/2000	5/7/2001	11/14/2001	11/14/2001	5/31/2002
	SAMPLE TIME	09:10	10:30	15:00	10:30	10:45	14:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000705021	L001897020	L010655003	L011564009	L011565013	L020412011
	SAMPLE NUMBER	EHC-0005-132	EHC-0011-133	EHC-0105-154	EHC-0111-152	EHC-0111-210	EHC-0205-157
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	156	159	198	193	188	232	
Calcium (Ca) (DIS)	255	239	235	203	208	171	
Carbonate As CO3	<1	<1		<1	<1	<1	
Chloride (Cl)	105	137	176	178	167	141	
Magnesium (Mg) (DIS)	43	40	37	31	32	25	
Potassium (K) (DIS)	15	15	18	18	17	15	
Sodium (Na) (DIS)	220	317	412	462	443	531	
Sulfate (SO4)	1213	1326	1489	1350	1367	1230	
Total Alkalinity As CaCO3	128	130	162	158	154	190	
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (DIS)		0.01	<0.05	<0.05	<0.05	<0.05	
Arsenic (As) (DIS)	0.5	2.8	2.8	3.1	2.9	3	
Arsenic III (dis)	2.5	2.8	0.2	0.5 J	0.3 J	0.5	
Arsenic V (dis)	0.2	0.2	2.6	2.6	2.7	2.4	
Beryllium (Be) (DIS)				<0.001			
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper (Cu) (DIS)	<0.004	<0.004	0.007	<0.004	<0.004	<0.004	
Iron (Fe) (DIS)	31	68	62	54	56	43	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	20	21	19	16	17	12	
Mercury (Hg) (DIS)				<0.0006			
Selenium (Se) (DIS)				0.008			
Silver (Ag) (DIS)				<0.003			
Thallium (Tl) (DIS)				<0.003			
Zinc (Zn) (DIS)	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxidation Reduction Potential				-111.7	-111	-1.3	
Oxygen (O) (DIS) (Fld)	4.5	0.6	0.6	0.3	0.3	0.2	
pH	6.8	6.6	6.9	7.1	6.9	7.8	
Silicon+Silica (Si+SiO2)		34	34	37	37	33	
Depth To Water Level (ft)	9.9	9.2	9.4	10.2		10.2	
Eh (millivolts)	279	96	122	134	135		
pH (Fld)	6.9	6.7	7.1	7.09	7.07	6.8	
SC (umhos/cm at 25 C) (Fld)	2515	3040	2880	2620	2610	2970	
SC (umhos/cm at 25 C)	2490	2990	3120	3040	3050	2820	
Total Suspended Solids			75	93	100	91	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-4	DH-4	DH-4	DH-4	DH-4	DH-4
Water	SAMPLE DATE	5/9/2000	11/10/2000	5/7/2001	11/14/2001	11/14/2001	5/31/2002
	SAMPLE TIME	09:10	10:30	15:00	10:30	10:45	14:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000705021	L001897020	L010655003	L011564009	L011565013	L020412011
	SAMPLE NUMBER	EHC-0005-132	EHC-0011-133	EHC-0105-154	EHC-0111-152	EHC-0111-210	EHC-0205-157
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Physical/Fid-Lab: ppm unless noted</b>							
	TDS (Measured at 180 C)	1989	2446	2519	2393	2342	2142
	Water Temperature (C) (Fld)	10.2	10.7	10.5	11	11	9.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-4	DH-4	DH-4	DH-4	DH-4	DH-4
Water	SAMPLE DATE	11/14/2002	5/31/2003	10/25/2003	5/17/2004	10/29/2004	5/13/2005
	SAMPLE TIME	07:30	09:15	09:45	13:40	12:00	13:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper
	LAB NUMBER	L020949001	L030243003	L030598017	H04050109-001	H04110009-009	C05050527-010
	SAMPLE NUMBER	EHC-0211-155	AEH-0306-122	AEH-0310-335	AEH-0405-100	AEH-0411-166	AEH-0505-151
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	229	273	266	380	350	372
Calcium (Ca) (DIS)	143	106	80	61	47	49
Carbonate As CO3	<1	<2	<2			
Chloride (Cl)	119	97	77	56	40	27
Magnesium (Mg) (DIS)	21	15	12	9	7	7
Potassium (K) (DIS)	14	13	10	11	10	8
Sodium (Na) (DIS)	401	353	306	254	199	208
Sulfate (SO4)	926	767	503	400	272	236
Total Alkalinity As CaCO3	188	224	218	310	290	305

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05					
Arsenic (As) (DIS)	2.7	2.5	2.2	2.264	2.328	2.49
Arsenic III (dis)	0.6	0.7	2.1	1.2 J	2.2 J	2.1
Arsenic V (dis)	2.2	1.9	0.3	0.22	<0.028 J	0.05
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	38	25	22	15.06	12.06	11.1
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	11	7.4	6.3	3.71	3.24	3.4
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	8.5	0.4	0.56	0.39	0.05	0.02
pH	7	7.1	7.7	7.2	7.5	7.26
Silicon+Silica (Si+SiO2)	35					
Depth To Water Level (ft)	10.3	9.2	10.15	9.83	9.74	9.46
pH (Fld)	6.2	6.4	7.11	6.04	7.09	7.23
SC (umhos/cm at 25 C) (Fld)	2460	2250	1830	1500	1323	1224
SC (umhos/cm at 25 C)	2470	2200	1799	1340	1170	1160
Total Suspended Solids	83	72	71	49	26	25
TDS (Measured at 180 C)	1750	1531	1205	983	836	774
TDS - Calculated						755
Salinity (G/KG) (Fld)	1.2	0.1	0.8	0.6		
Turbidity (NTU) (Fld)	1	4	1	0.0		
Water Temperature (C) (Fld)	10.3	9.5	10.2	11	10.9	10.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-4	DH-4	DH-4	DH-4	DH-4	DH-4
Water	SAMPLE DATE	11/18/2005	5/4/2006	5/4/2006	11/15/2006	5/16/2007	12/7/2007
	SAMPLE TIME	11:00	10:55	11:00	09:40	14:30	10:50
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	H05110164-007	H06050056-005	H06050056-006	H06110135-004	H07050193-002	H07120076-003
	SAMPLE NUMBER	AEH-0511-214	AEH-0605-142	AEH-0605-143	AEH-0611-186	AEH-0705-162	AEH-0711-208
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	360	380	370	390	390	
Bicarbonate (HCO3) (dis)						370
Calcium (Ca) (DIS)	33	36	36	32	32	33
Chloride (Cl)	29	22	23	16	13	13
Magnesium (Mg) (DIS)	5	5	5	5	5	5
Potassium (K) (DIS)	7	8	8	7	6	7
Sodium (Na) (DIS)	164	151	155	135	120	118
Sulfate (SO4)	126	125	121	68 J	56	34
Total Alkalinity As CaCO3	290	310	310	320	320	310

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)						<0.005
Selenium-VI (DIS)						<0.005
Arsenic (As) (DIS)	2.664	2.14	2.175	2.186	1.709	2.238
Arsenic III (dis)	2.3	2.5	2.1	2.3	2.3	2.9
Arsenic V (dis)	<0.0003	<0.01	<0.01	0.06 J-	<0.0125	<0.025 J
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	8.53	9.39	9.35	8.68	8.85	8.83
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.52	2.8	2.79	2.58	2.79	2.67
Selenium (Se) (DIS)						<0.005
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.01	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential				-176.5		
Oxygen (O) (DIS) (Fid)	0.75	1.12		0.09	0.05	0.17
pH	7.4	7.2	7.2	7.3	7.5	7.9
Depth To Water Level (ft)	9.98	9.28		9.56	9.73	9.83
pH (Fid)	7	6.88		7.15	7.19	7.13
SC (umhos/cm at 25 C) (Fid)	972	864		813	777	747
SC (umhos/cm at 25 C)	902	926	931	761	714	681
Total Suspended Solids	<10	<10	<10	<10 J	<10	<10
TDS (Measured at 180 C)	611	590	600	508	494	446
Water Temperature (C) (Fid)	12.08	11.19		11.64	10.93	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-4	DH-4	DH-4	DH-40	DH-40
Water	SAMPLE DATE	5/9/2008	11/11/2008	5/14/2009	12/16/1999	4/26/2000
	SAMPLE TIME	14:00	09:00	13:50	11:30	12:10
	LAB	ELI	ELI	ELI	TSC-SLC	TSC-SLC
	LAB NUMBER	H08050176-011	H08110126-003	H09050233-012	L992165011	L000631022
	SAMPLE NUMBER	AEH-0805-203	AEH-0811-211	AEH-0905-216	IMMW-9912-110	IMMW-0004-110
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	380	370	340	225	268
Calcium (Ca) (DIS)	36	33	33	151	142
Carbonate As CO3				<1	<1
Chloride (Cl)	9	10	9	70	63
Magnesium (Mg) (DIS)	6	6	6	54	50
Potassium (K) (DIS)	7	6	6	8.9	7.6
Sodium (Na) (DIS)	101	91	94	76	76
Sulfate (SO4)	27	27	29	541	509
Total Alkalinity As CaCO3	310	310	280	184	220

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005			
Selenium-VI (DIS)	<0.005	<0.005			
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1		
Antimony (Sb) (DIS)	<0.005	<0.005	<0.003		
Arsenic (As) (DIS)	1.642	1.88	1.73	0.9	1
Arsenic III (DIS)	1.56	1.26		<0.005	0.01 UJ
Arsenic V (DIS)	0.141	0.344		0.9	1
Barium (Ba) (DIS)	<0.1	<0.1	<0.1		
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	0.01	0.008
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001		
Cobalt (Co) (DIS)	<0.01	<0.01	<0.0005		
Copper (Cu) (DIS)	<0.004	<0.004	<0.001	<0.004	<0.004 J
Gold (Au) (DIS)			0.02		
Iron (Fe) (DIS)	9.9	8.46	8.66	0.09 J	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.09	2.73	2.65	11	11
Mercury (Hg) (DIS)	<0.006	<0.006	0.0002		
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01		
Selenium (Se) (DIS)	<0.005	<0.005	0.004		
Silver (Ag) (DIS)	<0.005	<0.005	<0.005 J		
Tellurium (Te) (DIS)			<0.1		
Thallium (Tl) (DIS)	<0.002	<0.002	<0.001		
Vanadium (V) (DIS)	0.01	0.01	0.02		
Zinc (Zn) (DIS)	<0.01	<0.02 J	<0.01	0.1	0.1

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.19	0.22	0.13	1.4	4.8
pH	7.3	7.5	7.7	7.6	7.4
Depth To Water Level (ft)	10.3	10.04	9.37	23.1	23.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-4	DH-4	DH-4	DH-40	DH-40
Water	SAMPLE DATE	5/9/2008	11/11/2008	5/14/2009	12/16/1999	4/26/2000
	SAMPLE TIME	14:00	09:00	13:50	11:30	12:10
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	TSC-SLC	TSC-SLC
	LAB NUMBER	H08050176-011	H08110126-003	H09050233-012	L992165011	L000631022
	SAMPLE NUMBER	AEH-0805-203	AEH-0811-211	AEH-0905-216	IMMW-9912-110	IMMW-0004-110
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fld-Lab: ppm unless noted**

Eh (millivolts)					363	277
pH (Fld)	7.13	7.02	7.24		6.7	7.1
SC (umhos/cm at 25 C) (Fld)	713	670	656		1410	1287
SC (umhos/cm at 25 C)	688	659	644		1447	1288
Total Suspended Solids	32	<10	23			
TDS (Measured at 180 C)	415	416	390		1082	958
Turbidity (NTU) (Fld)					19	22
Water Temperature (C) (Fld)	10.7	11.4	10.4		13.7	12.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-40	DH-40	DH-40	DH-40	DH-40	DH-40
Water	SAMPLE DATE	11/15/2000	5/4/2001	11/7/2001	5/29/2002	11/14/2002	5/31/2003
	SAMPLE TIME	14:30	12:45	16:00	16:45	12:40	11:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001922010	L010655055	L011535008	L020397013	L020949011	L030243010
	SAMPLE NUMBER	IMMW-0011-110	EHC-0105-144	EHC-0111-142	EHC-0205-147	EHC-0211-145	AEH-0306-129
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	235	244	239	257	242	232
Calcium (Ca) (DIS)	100	118	147	138	202	160
Carbonate As CO3	<1		<1	<1	<1	<2
Chloride (Cl)	47	51 J	121	94	143	147
Magnesium (Mg) (DIS)	34	41	53	49	73	60
Potassium (K) (DIS)	6.2	7.6	7.8	7.4	8.9	8.3
Sodium (Na) (DIS)	65	63	70	57	71	63
Sulfate (SO4)	259	389 J	423	369	523	404
Total Alkalinity As CaCO3	193	200	196	211	198	190

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.01	<0.05	<0.05	<0.05	<0.05	
Arsenic (As) (DIS)	1	1	1 J	1	0.9	1
Arsenic III (dis)	0.05	0.4	0.4	0.3	0.5	0.6
Arsenic V (dis)	1	0.6	0.5	0.7	0.5	0.4
Cadmium (Cd) (DIS)	0.007	0.009	0.01	0.02	0.03	0.03
Copper (Cu) (DIS)	<0.004	0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.1 UJ	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	7.5	8.2	9.5	6.5	11	6
Zinc (Zn) (DIS)	0.09	0.09	0.1	0.1	0.1	0.1

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			184	0.1		
Oxygen (O) (DIS) (Fld)	1.9	1.8	0.2	0.4	4.3	0.1
pH	7.5	7.6	7.5	7.1	7.3	7.4
Silicon+Silica (Si+SiO2)	25	26	26	24	25	
Depth To Water Level (ft)	23.5	23.5	23.5	24	23.8	22.9
Eh (millivolts)	24.5	428	432			
pH (Fld)	7.3	7.4	7.2	7.04	6.5	6.5
SC (umhos/cm at 25 C) (Fld)	810	1136	1238	1220	1580	1470
SC (umhos/cm at 25 C)	1035	1155	1386	1223	1660	1465
Total Suspended Solids		65	70	87	45	2.5
TDS (Measured at 180 C)	761	847	1015	863	1239	1037
Salinity (G/KG) (Fld)					0.7	0.6
Turbidity (NTU) (Fld)					19	1
Water Temperature (C) (Fld)	13.3	14.3	13.6	11.2	12.2	10.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-40	DH-40	DH-40	DH-40	DH-40	DH-40
Water	SAMPLE DATE	10/25/2003	5/26/2004	10/29/2004	5/18/2005	11/14/2005	5/5/2006
	SAMPLE TIME	15:45	13:10	10:10	11:10	09:10	10:15
	LAB	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel
	LAB NUMBER	L030599-014	H04050191-013	H04110009-003	C05050691-005	H05110113-002	H06050065-005
	SAMPLE NUMBER	AEH-0310-352	AEH-0405-191	AEH-0411-160	AEH-0505-189	AEH-0511-171	AEH-0605-158
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION					Fld Instr Inoper	
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	207	210	240	197	250	220
Calcium (Ca) (DIS)	174	200	192	199	206	162
Carbonate As CO3	<2					
Chloride (Cl)	123	120	200	83	167	82
Magnesium (Mg) (DIS)	67	71	73	75	84	63
Potassium (K) (DIS)	8.7	21	12	19	15	14
Sodium (Na) (DIS)	76	120	78	121	130	95
Sulfate (SO4)	433	820	269	687	591	665
Total Alkalinity As CaCO3	207	170	200	162	200	180

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.1	1.732	1.065	1.76	1.751	1.529
Arsenic III (dis)	0.36	<0.006	<0.006 J	<0.005	<0.006	<0.01
Arsenic V (dis)	0.7	1.4 J	1.3 J	1.9	1.2	1.9
Cadmium (Cd) (DIS)	0.033	0.034	0.103	0.074	0.074	0.047
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.03	<0.02	<0.02	<0.02	<0.02	0.03
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	6.6	2.01	3.53	2.08	0.82	1.53
Zinc (Zn) (DIS)	0.12	0.07	0.2	0.09	0.16	0.14

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.38	2.58	0.64	4.1		3.83
pH	7.9	7.6	7.3	7.32	7.2	7.3
Depth To Water Level (ft)	23.82	23.75	22.53	23.45	22.38	22.63
pH (Fld)	6.97	6.94	6.65	6.74		6.78
SC (umhos/cm at 25 C) (Fld)	1500	2170	1882	2183		1673
SC (umhos/cm at 25 C)	1519	1970	1540	1900	1970	1520
Total Suspended Solids	14	<10	107	14	33	<10
TDS (Measured at 180 C)	1103	1620	1300	1430	1420	1260
TDS - Calculated				1300		
Salinity (G/KG) (Fld)	0.6					
Turbidity (NTU) (Fld)	2					
Water Temperature (C) (Fld)	12	10.9	11.5	9.64		10.31

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-40	DH-40	DH-41	DH-41	DH-41
Water	SAMPLE DATE	11/15/2006	11/1/2007	12/16/1999	4/26/2000	11/15/2000
	SAMPLE TIME	15:35	00:00	13:00	13:20	15:30
	LAB	ELI	Hydrometrics	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H06110138-006	AEH-0711-DH40	L992165012	L000631002	L001922011
	SAMPLE NUMBER	AEH-0611-199	AEH-0711-DH40	IMMW-9912-111	IMMW-0004-111	IMMW-0011-111
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION		Abandoned			
	REMARKS		No Sample			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	230	<1 J	<1	<1
Calcium (Ca) (DIS)	176	156	147	139
Carbonate As CO3		<1	<1	<1
Chloride (Cl)	140	78	94	85
Magnesium (Mg) (DIS)	73	36	37	39
Potassium (K) (DIS)	14	21	19	20
Sodium (Na) (DIS)	121	141	119	132
Sulfate (SO4)	593	857	824	786
Total Alkalinity As CACO3	190	<1 J	<1	<1

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)				13
Arsenic (As) (DIS)	1.785	4.9	10	11
Arsenic III (DIS)	<0.03 J-	1.9	4.3	3.9
Arsenic V (DIS)	2.4 J-	3.1	5.6	7.7
Cadmium (Cd) (DIS)	0.042	7.6	9.1	13
Copper (Cu) (DIS)	<0.004	0.3	0.2	0.4
Iron (Fe) (DIS)	<0.02	5.6	9.8	13
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	0.007
Manganese (Mn) (DIS)	0.22	5	5.8	6.8
Zinc (Zn) (DIS)	0.13	25	30	36

**Nutrients: ppm unless noted**

Total Inorganic Carbon				11
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**Other: ppm unless noted**

No Analysis		0.0		
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**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	49.2			
Oxygen (O) (DIS) (Fld)	5.21	0.9	4.7	1.9
pH	7.3	4	3.8	3.7
Silicon+Silica (Si+SiO2)				41
Depth To Water Level (ft)	21.35	21.1	22	21.5
Eh (millivolts)		425	405	149.3
pH (Fld)	6.92	4.4	4.7	3.8
SC (umhos/cm at 25 C) (Fld)	1876	1940	1714	1783
SC (umhos/cm at 25 C)	1680	1838	1835	1720
Total Suspended Solids	82 J			
TDS (Measured at 180 C)	1350	1482	1432	1304
Turbidity (NTU) (Fld)		18.7	42	
Water Temperature (C) (Fld)	12.38	12.3	11.6	12

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-41	DH-41	DH-41	DH-41	DH-41	DH-41
Water	SAMPLE DATE	5/2/2001	11/8/2001	11/8/2001	5/29/2002	11/14/2002	5/31/2003
	SAMPLE TIME	16:00	13:30	13:45	17:40	15:45	15:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010608028	L011535009	L011538012	L020397014	L020949018	L030243018
	SAMPLE NUMBER	EHC-0105-145	EHC-0111-143	EHC-0111-198	EHC-0205-148	EHC-0211-146	AEH-0306-137
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	<1	<1	<1	<1	<1	<2
Calcium (Ca) (DIS)	230	187	198	111	130	155
Carbonate As CO3	<1	<1	<1	<1	<1	<2
Chloride (Cl)	197	180	191	110	113	80
Magnesium (Mg) (DIS)	66	53	56	33	37	46
Potassium (K) (DIS)	28	28	27	18	21	22
Sodium (Na) (DIS)	176	183	206	121	138	143
Sulfate (SO4)	1423	1109 J	901 J	820	801	956
Total Alkalinity As CaCO3	<1	<1	<1	<1	<1	<2

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		18	18	11	12	
Arsenic (As) (DIS)	7	6.8	7.1	8.4	7.9	6
Arsenic III (dis)	1.6	1	1.2	2.1	2.2	1.4
Arsenic V (dis)	5.3	5.9	5.9	6.4	5.8	4.7
Cadmium (Cd) (DIS)	18	18	21	10	9.7	15
Copper (Cu) (DIS)	0.8	0.6	0.6	0.6	0.6	1
Iron (Fe) (DIS)	15	10	11	7.4	9.5	5.5
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	10	8.7	9	5.7	6.5	7
Zinc (Zn) (DIS)	63	55	56	31	33	42

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential		196	196.2	176.1		
Oxygen (O) (DIS) (Fld)	1.5	0.3	0.3	0.2	6.4	0.3
pH	3.2	3.9	3.8	3.7	3.9	3.9
Silicon+Silica (Si+SiO2)		52	52	35	36	
Depth To Water Level (ft)	20.09	20.3		20.7	20.6	19.5
Eh (millivolts)	419	447	448			
pH (Fld)	4.1	4.3	4.3	3.8	4.2	4.2
SC (umhos/cm at 25 C) (Fld)	2410	2100	2100	2040	2070	2270
SC (umhos/cm at 25 C)	2900	2480	2470	1823	1920	2210
Total Suspended Solids	303	46	48	4.8	18	12
TDS (Measured at 180 C)	2367	1922	1940	1345	1389	1718
Salinity (G/KG) (Fld)					0.4	1
Turbidity (NTU) (Fld)					7	4
Water Temperature (C) (Fld)	10.7	12.4	12.4	9.3	11.2	9.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-41	DH-41	DH-41	DH-41	DH-41	DH-41
Water	SAMPLE DATE	10/26/2003	5/21/2004	10/28/2004	5/19/2005	11/16/2005	5/10/2006
	SAMPLE TIME	11:00	11:50	13:20	09:00	10:15	11:25
	LAB	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel
	LAB NUMBER	L030600003	H04050141-010	H04100202-012	C05050744-001	H05110136-005	H06050119-010
	SAMPLE NUMBER	AEH-0310-361	AEH-0405-149	AEH-0411-153	AEH-0505-201	AEH-0511-176	AEH-0605-212
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	<2	<4	<4	<1			
Calcium (Ca) (DIS)	86	160	133	139	146	197 J+	
Carbonate As CO3	<2						
Chloride (Cl)	52	84	70	50	25	50	
Magnesium (Mg) (DIS)	25	42	35	40	46	61 J-	
Potassium (K) (DIS)	14	22	18	18	21 J-	23	
Sodium (Na) (DIS)	101	138	125	130	148 J-	153	
Sulfate (SO4)	512	1300	652	840	1030	1190	
Total Acidity As CACO3		180	121		127	157	
Total Alkalinity As CACO3	<2	<4	<4	<1			

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	7.2	4.907	4.508	5.32	3.507	3.34 J	
Arsenic III (dis)	6.3	1.6	1.5	1.5	0.03 UJ	<0.01	
Arsenic V (dis)	<0.02	<0.028 J	3.3	3.6	4.6	1.8	
Cadmium (Cd) (DIS)	7.9	14.91	10.62	10.5	8.386	10.99	
Copper (Cu) (DIS)	0.5	1.28	0.751	1.05	0.801	1.26	
Iron (Fe) (DIS)	6.5	6.36	4	4.58	0.51	0.94	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	5.1	7.31	4.72	6.03	5.63	6.55	
Zinc (Zn) (DIS)	21	43.05	29	35.5	23.9	32.87	

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.61	0.14	0.3	1.05	1.21	1.52	
pH	4.2	4.2	4.4	3.9	4.2	4.1	
Depth To Water Level (ft)	20.44	20.23	19.29	19.88	19.15	19.07	
pH (Fld)	4.8	4.02	3.89	3.51	4.16	3.9	
SC (umhos/cm at 25 C) (Fld)	1270	2360	2078	2363	2030	2190	
SC (umhos/cm at 25 C)	1290	2140	1680	2110	1840	2000	
Total Suspended Solids	16	<10	38	<10	12 J	<10 J	
TDS (Measured at 180 C)	928	1560	1400	1630	1580	1840	
TDS - Calculated				1260			
Salinity (G/KG) (Fld)	0.5	1					
Turbidity (NTU) (Fld)	11	0.0					
Water Temperature (C) (Fld)	11	9.5	10.9	8.72	11.55	9.41	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-41	DH-41	DH-42	DH-42	DH-42
Water	SAMPLE DATE	11/17/2006	11/1/2007	12/16/1999	12/16/1999	4/26/2000
	SAMPLE TIME	12:05	00:00	13:30	13:45	13:00
	LAB	ELI	Hydrometrics	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H06110158-008	AEH-0711-DH41	L992165013	L992165029	L000631003
	SAMPLE NUMBER	AEH-0611-208	AEH-0711-DH41	IMMW-9912-112	IMMW-9912-129	IMMW-0004-112
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION		Abandoned			
	REMARKS		No Sample		Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)			33 J	24 J	52
Calcium (Ca) (DIS)	116		119	127	67
Carbonate As CO3			<1	<1	<1
Chloride (Cl)	32		51	45	52
Magnesium (Mg) (DIS)	46		31	32	17
Potassium (K) (DIS)	30		16	17	12
Sodium (Na) (DIS)	114		85	86	69
Sulfate (SO4)	698		602	539	334
Total Acidity As CACO3	83				
Total Alkalinity As CACO3			27 J	20 J	43

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	3.066		10	11	7.7
Arsenic III (DIS)	<0.1		2.5	2.5	0.02 UJ
Arsenic V (DIS)	3.1		7.2	7.4	7.6
Cadmium (Cd) (DIS)	4.046		5.4	5.3	2.6
Copper (Cu) (DIS)	0.655		0.008	0.008	<0.004 J
Iron (Fe) (DIS)	0.34		0.2 J	0.2 J	0.03
Lead (Pb) (DIS)	<0.005		<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.97		3.9	4	1.9
Zinc (Zn) (DIS)	13.5		11	12	5.8

**Other: ppm unless noted**

No Analysis		0.0			
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**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	305.2				
Oxygen (O) (DIS) (Fld)	2.73		1.3	1.2	3.6
pH	4.1		6	6	6.3
Depth To Water Level (ft)	18.08		24.2	24.2	25.9
Eh (millivolts)			387	386	346
pH (Fld)	4.07		5.6	5.5	5.9
SC (umhos/cm at 25 C) (Fld)	1702		1263	1258	846
SC (umhos/cm at 25 C)	1550		1264	1262	851
Total Suspended Solids	10				
TDS (Measured at 180 C)	1290		1039	1017	620
Turbidity (NTU) (Fld)			19.1	19.3	48
Water Temperature (C) (Fld)	11.22		13.6	13.6	13.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-42	DH-42	DH-42	DH-42	DH-42	DH-42
Water	SAMPLE DATE	11/15/2000	5/4/2001	5/4/2001	11/8/2001	5/29/2002	11/14/2002
	SAMPLE TIME	15:00	14:00	14:15	14:00	17:20	15:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001922012	L010655029	L010655036	L011535010	L020397015	L020949017
	SAMPLE NUMBER	IMMW-0011-112	EHC-0105-146	EHC-0105-214	EHC-0111-144	EHC-0205-149	EHC-0211-147
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	41	56 J	76 J	56	43	56
Calcium (Ca) (DIS)	76	89	87	98	43	104
Carbonate As CO3	<1			<1	<1	<1
Chloride (Cl)	39	81 J	91 J	98	15	74
Magnesium (Mg) (DIS)	19	23	23	25	11	25
Potassium (K) (DIS)	14	17	16	18	9.3	19
Sodium (Na) (DIS)	79	73	73	83	43	55
Sulfate (SO4)	357	397 J	389 J	405 J	220	340
Total Alkalinity As CACO3	34	46 J	62 J	46	35	46

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	0.5	0.4	0.4	0.5	0.4	0.4
Arsenic (As) (DIS)	7.4	5.6	5.7	5.4	6.4	4.9
Arsenic III (dis)	0.04	2	2	2.2	1	1.9
Arsenic V (dis)	7.1	3.7	3.8	3.7	5.9	3.6
Cadmium (Cd) (DIS)	2.8	2.8	2.7	3.2	1.1	3.3
Copper (Cu) (DIS)	0.01	0.02	0.01	0.009	0.009	0.006
Iron (Fe) (DIS)	0.1 UJ	<0.02	<0.02	0.03	<0.02	0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2	2.1	2.1	2.5	1	2.5
Zinc (Zn) (DIS)	5	4.6	4.5	6.2	2.1	6.7

**Nutrients: ppm unless noted**

Total Inorganic Carbon	13					
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**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential				120.1	47.2	
Oxygen (O) (DIS) (Fld)	1.03	1.2	1.1	0.7	0.3	0.8
pH	6.5	6.5	6.5	6.5	6	6.4
Silicon+Silica (Si+SiO2)	48	40	40	42	37	32
Depth To Water Level (ft)	25.6	26.05		25.9	26.2	26.4
Eh (millivolts)	67.6	431	429	372		
pH (Fld)	5.8	6.3	6.3	5.4	6.2	5.7
SC (umhos/cm at 25 C) (Fld)	740	1022	1028	1162	678	774
SC (umhos/cm at 25 C)	940	1060	1059	1150	591	986
Total Suspended Solids		178	179	145	17	71
TDS (Measured at 180 C)	711	775	780	837	456	677
Salinity (G/KG) (Fld)						0.3
Turbidity (NTU) (Fld)						56
Water Temperature (C) (Fld)	12.6	14.6	14.6	12.9	10.1	13.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-42	DH-42	DH-42	DH-42	DH-42	DH-42
Water	SAMPLE DATE	5/31/2003	10/26/2003	5/27/2004	10/28/2004	5/19/2005	11/16/2005
	SAMPLE TIME	15:15	10:40	12:55	13:45	09:30	11:00
	LAB	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel
	LAB NUMBER	L030243019	L030600002	H04050208-013	H04100202-013	C05050744-002	H05110136-007
	SAMPLE NUMBER	AEH-0306-138	AEH-0310-360	AEH-0405-211	AEH-0411-154	AEH-0505-202	AEH-0511-178
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	85	94	98	94	88	83	
Calcium (Ca) (DIS)	65	101	94	111	116	192	
Carbonate As CO3	<2	<2					
Chloride (Cl)	42	<1	42	40	35	83	
Magnesium (Mg) (DIS)	16	26	23	27	29	47	
Potassium (K) (DIS)	12	15	13	14	13	18 J-	
Sodium (Na) (DIS)	52	71	61	65	70	91 J-	
Sulfate (SO4)	259	333	270	288	401	710	
Total Alkalinity As CaCO3	70	77	80	77	72	68	
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)	3.7	3.6	3.482	3.329	3.41	2.737	
Arsenic III (dis)	3.3	3.4	<0.03 J	<0.03	<0.005	<0.001	
Arsenic V (dis)	0.2	0.2	4.9	3	3.7	2.7	
Cadmium (Cd) (DIS)	2.1	3.2	2.475	2.496	2.66	4.917	
Copper (Cu) (DIS)	0.01	<0.004	0.01	0.008	0.029	0.011	
Iron (Fe) (DIS)	<0.02	<0.03	<0.02	<0.02	<0.02	0.05	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	1.6	2.4	2.1	2.1	2.51	4.17	
Zinc (Zn) (DIS)	4.1	5.7	4.61	4.27	5.27	8.52	
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	0.2	0.9	0.23	0.07	0.41	0.93	
pH	7	7.3	6.5	6.3	6.51	6.2	
Depth To Water Level (ft)	25.8	26.5	26.74	24.94	26.57	24.92	
pH (Fld)	5.5	6.04	6.31	5.86	5.8	5.87	
SC (umhos/cm at 25 C) (Fld)	672	988	1000	995	1163	1587	
SC (umhos/cm at 25 C)	823	996	904	935	1110	1590	
Total Suspended Solids	4.3	6.2	<10	22	<10	38 J	
TDS (Measured at 180 C)	576	691	684	749	763	1260	
TDS - Calculated					738		
Salinity (G/KG) (Fld)	0.2	0.4					
Turbidity (NTU) (Fld)	1	8					
Water Temperature (C) (Fld)	10.7	10.6	10.2	10	9.43	11.53	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-42	DH-42	DH-42	DH-42	DH-42
Water	SAMPLE DATE	5/11/2006	11/6/2006	5/18/2007	12/7/2007	5/12/2008
	SAMPLE TIME	12:25	00:00	08:25	14:55	09:55
	LAB	ELI-Hel	Hydrometrics	ELI	ELI	ELI
	LAB NUMBER	H06050137-010	AEH-0611-DH42	H07050219-001	H07120076-007	H08050190-004
	SAMPLE NUMBER	AEH-0605-231	AEH-0611-DH42	AEH-0705-175	AEH-0711-212	AEH-0805-207
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION		No Samp-Mud			
	REMARKS		No Sample			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	120	110		99
Bicarbonate (HCO3) (dis)			120	
Calcium (Ca) (DIS)	83	64	61	66
Chloride (Cl)	23	15	17	13
Magnesium (Mg) (DIS)	20	16	15	16
Potassium (K) (DIS)	11	9	10	10
Sodium (Na) (DIS)	61	61	60	52
Sulfate (SO4)	288	201	192	210
Total Alkalinity As CaCO3	95	86	96	81

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)			0.021	0.0391 J+
Selenium-VI (DIS)			0.053	0.0155
Aluminum (Al) (DIS)				0.2
Antimony (Sb) (DIS)				0.019
Arsenic (As) (DIS)	2.79	2.958	3.628	3.845
Arsenic III (dis)	<0.01	<0.0565 J	<0.0565	<0.005
Arsenic V (dis)	3.9	2.33 J+	3.3	3.54
Barium (Ba) (DIS)				<0.1
Beryllium (Be) (DIS)				<0.001
Cadmium (Cd) (DIS)	1.894	1.512	1.409	1.649
Chromium (Cr) (DIS)				<0.001
Cobalt (Co) (DIS)				<0.01
Copper (Cu) (DIS)	0.006	0.006	0.007	0.009
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.15	1.98	1.9	2.11
Mercury (Hg) (DIS)				<0.006
Nickel (Ni) (DIS)				<0.01
Selenium (Se) (DIS)			0.072	0.067
Silver (Ag) (DIS)				<0.005
Thallium (Tl) (DIS)				0.009
Vanadium (V) (DIS)				0.02
Zinc (Zn) (DIS)	3.34	2.26	2.2	2.77

**Other: ppm unless noted**

No Analysis		0.0		
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**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.93	0.41	0.31	0.7
pH	6.7	6.8	7.1	6.3
Depth To Water Level (ft)	25.74	32.28	30.78	31.67
pH (Fld)	6.72	6.22	6.29	6.58

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-42	DH-42	DH-42	DH-42
Water	SAMPLE DATE	5/11/2006	5/18/2007	12/7/2007	5/12/2008
	SAMPLE TIME	12:25	08:25	14:55	09:55
	LAB	Hydro	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H06050137-010	H07050219-001	H07120076-007	H08050190-004
	SAMPLE NUMBER	AEH-0605-231	AEH-0705-175	AEH-0711-212	AEH-0805-207
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS				

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	1042	736	737	686
SC (umhos/cm at 25 C)	916	662	696	659
Total Suspended Solids	11	<10	<10	178 J
TDS (Measured at 180 C)	653	511	491	460
Water Temperature (C) (Fid)	10.53	10.4	8.8	9.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-43	DH-43	DH-43	DH-43	DH-43	DH-43
Water	SAMPLE DATE	12/16/1999	4/26/2000	4/26/2000	11/15/2000	5/2/2001	11/8/2001
	SAMPLE TIME	10:05	12:30	12:40	14:45	15:30	14:25
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L992165014	L000631004	L000631011	L001922013	L010608029	L011535011
	SAMPLE NUMBER	IMMW-9912-113	IMMW-0004-113	IMMW-0004-128	IMMW-0011-113	EHC-0105-147	EHC-0111-145
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	7 J	21	23	11.2	9.5	10.4
Calcium (Ca) (DIS)	16	103	95	108	105	129
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Chloride (Cl)	6.3	52	51	55	76	151
Magnesium (Mg) (DIS)	6.7	40	39	43	37	50
Potassium (K) (DIS)	5.3	10	10	9.9	9.8	11
Sodium (Na) (DIS)	25	47	49	62	61	96
Sulfate (SO4)	92	513	524	554	517	604 J
Total Alkalinity As CaCO3	6 J	17	19	9.2	7.8	8.5

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)				1.8		1.4
Arsenic (As) (DIS)	6.1	3.3	3.3	3.7	4.1	4.6
Arsenic III (dis)	0.08 U	0.02 UJ	0.009 UJ	0.03	1.9	1.5
Arsenic V (dis)	5.4	3.4	3.4	3.5	2.3	3.5
Cadmium (Cd) (DIS)	1	6.3	6.3	8.2	8.9	8.4
Copper (Cu) (DIS)	0.008	0.02 J	0.03 J	0.04	0.02	0.03
Iron (Fe) (DIS)	0.06 J	0.1	0.1	0.1 UJ	<0.05	0.03
Lead (Pb) (DIS)	0.01	<0.005	<0.005	0.006	<0.005	<0.005
Manganese (Mn) (DIS)	1.8	11	9.9	11	10	12
Zinc (Zn) (DIS)	1.8	12	11	12	11	12

**Nutrients: ppm unless noted**

Total Inorganic Carbon				11		
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**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential						105.5
Oxygen (O) (DIS) (Fld)	1.6	4	4	3.1	1.5	0.2
pH	5.8	5.9	5.9	5.7	6.3	5.8
Silicon+Silica (Si+SiO2)				31		38
Depth To Water Level (ft)	30.9	32.9		32.6	33.2	32.9
Eh (millivolts)	348	340	342	100.3	245	357
pH (Fld)	5.9	5.7	5.7	5.9	5.9	5.3
SC (umhos/cm at 25 C) (Fld)	302	1105	1104	965	1236	1398
SC (umhos/cm at 25 C)	310	1105	1107	1225	1292	1498
Total Suspended Solids					194	118
TDS (Measured at 180 C)	237	833	807	947	992	1192
Turbidity (NTU) (Fld)	19.2	26	27			
Water Temperature (C) (Fld)	13	13.1	13.1	11.7	12.8	12.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-43	DH-43	DH-43	DH-43	DH-43	DH-43
Water	SAMPLE DATE	5/30/2002	11/14/2002	5/31/2003	10/26/2003	5/26/2004	10/28/2004
	SAMPLE TIME	14:15	14:15	13:00	10:20	16:25	14:05
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	L020398001	L020949015	L030243014	L030600001	H04050191-020	H04100202-014
	SAMPLE NUMBER	EHC-0205-150	EHC-0211-148	AEH-0306-133	AEH-0310-359	AEH-0405-198	AEH-0411-155
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	<1	7.3	32	32	7	56
Calcium (Ca) (DIS)	99	90	88	100	82	111
Carbonate As CO3	<1	<1	<2	<2		
Chloride (Cl)	61	47	46	49	34	70
Magnesium (Mg) (DIS)	33	33	31	35	26	42
Potassium (K) (DIS)	9.6	9.9	9.1	9.1	8	10
Sodium (Na) (DIS)	78	85	64	86	61	112
Sulfate (SO4)	436	401	455	446	390	491
Total Alkalinity As CaCO3	<1	6	26	26	6 UJ	46

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	1.5	1.1				
Arsenic (As) (DIS)	7.6	7.1	7.1	6.6	6.76	5.65
Arsenic III (dis)	2.4	2.2	5.8	4.9	<0.045	<0.03
Arsenic V (dis)	5	5	1.2	1	7.4 J	5
Cadmium (Cd) (DIS)	8.3	5.5	8.5	8	6.389	7.342
Copper (Cu) (DIS)	0.03	0.03	0.03	0.03	0.021	0.054
Iron (Fe) (DIS)	<0.02	0.03	<0.02	<0.03	<0.02	<0.02
Lead (Pb) (DIS)	0.03	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	8.3	7	7.6	8.1	6.62	7.93
Zinc (Zn) (DIS)	9.5	7.9	10	10	8.44	9.83

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	117.2					
Oxygen (O) (DIS) (Fld)	0.3	4.2	0.02	0.91	0.4	0.57
pH	4.9	5.4	6.3	6.7	6.2	6.1
Silicon+Silica (Si+SiO2)	48	39				
Depth To Water Level (ft)	34.07	33	33.2	33.57	34.14	31.88
pH (Fld)	5.7	5.8	5.3	5.52	5.85	5.71
SC (umhos/cm at 25 C) (Fld)	1120	859	1110	1100	981	1483
SC (umhos/cm at 25 C)	1125	1072	1152	1146	940	1360
Total Suspended Solids	57 J	36	15	8.4	21	68
TDS (Measured at 180 C)	883	791	896	877	742	1100
Salinity (G/KG) (Fld)		0.3	0.4	0.4		
Turbidity (NTU) (Fld)		19	8	19		
Water Temperature (C) (Fld)	12.9	11.8	11.6	11	11.4	10.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-43	DH-43	DH-43	DH-43	DH-43
Water	SAMPLE DATE	5/19/2005	11/16/2005	5/11/2006	11/17/2006	11/1/2007
	SAMPLE TIME	09:45	11:30	13:00	11:33	00:00
	LAB	ELI-Casper	ELI-Hel	ELI-Hel	ELI	Hydrometrics
	LAB NUMBER	C05050744-003	H05110136-008	H06050137-011	H06110158-006	AEH-0711-DH43
	SAMPLE NUMBER	AEH-0505-203	AEH-0511-179	AEH-0605-232	AEH-0611-206	AEH-0711-DH43
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					Abandoned
	REMARKS					No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	20	37 J	39	42
Calcium (Ca) (DIS)	124	131	97	126
Chloride (Cl)	39	60	30	52
Magnesium (Mg) (DIS)	40	47	31	45
Potassium (K) (DIS)	9	10 J-	8	14
Sodium (Na) (DIS)	83	122 J-	71	98
Sulfate (SO4)	544	741	425	531
Total Alkalinity As CaCO3	16	30 J	32	35

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	5.55	4.961	5.01	4.338
Arsenic III (dis)	<0.005	<0.001	<0.03	<0.1
Arsenic V (dis)	5.9	4.8	7.3	4.4
Cadmium (Cd) (DIS)	8.7	8.077	6.879	7.712
Copper (Cu) (DIS)	0.055	0.019	0.019	0.023
Iron (Fe) (DIS)	<0.02	0.07	0.03	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	8.11	7.49	6.39	6.64
Zinc (Zn) (DIS)	13.4	10.95	9.17	10.78

**Other: ppm unless noted**

No Analysis				0.0
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**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				212.9
Oxygen (O) (DIS) (Fld)	0.49	1.36	0.85	0.31
pH	5.93	5.8	6	6.2
Depth To Water Level (ft)	34.15	32.5	32.89	31.31
pH (Fld)	5.27	5.64	5.46	5.66
SC (umhos/cm at 25 C) (Fld)	1201	1682	1313	1540
SC (umhos/cm at 25 C)	1310	1510	1150	1420
Total Suspended Solids	15	74 J	12	27
TDS (Measured at 180 C)	965	1280	879	1170
TDS - Calculated	890			
Water Temperature (C) (Fld)	10.82	12.15	11.64	10.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-44	DH-44	DH-44	DH-44	DH-44	DH-44
Water	SAMPLE DATE	12/16/1999	4/26/2000	11/15/2000	5/4/2001	11/7/2001	5/29/2002
	SAMPLE TIME	11:05	11:20	14:00	13:00	16:20	17:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L992165015	L000631005	L001922014	L010655028	L011535012	L020397016
	SAMPLE NUMBER	IMMW-9912-114	IMMW-0004-114	IMMW-0011-114	EHC-0105-148	EHC-0111-146	EHC-0205-151
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	264	273	256	226	262	271
Calcium (Ca) (DIS)	200	100	99	147	150	110
Carbonate As CO3	<1	<1	<1		<1	<1
Chloride (Cl)	77	34	35	48 J	145	67
Magnesium (Mg) (DIS)	76	40	39	57	63	44
Potassium (K) (DIS)	9	6.2	6.6	8.5	9	7.1
Sodium (Na) (DIS)	89	60	62	63	65	55
Sulfate (SO4)	630	306	262	524 J	431	282
Total Alkalinity As CaCO3	216	224	210	185	215	222

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			0.01 U	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	1.5	1.8	1.8	1.7	1.8 J	1.8
Arsenic III (dis)	0.3	0.3	0.08	0.7	0.9	0.4
Arsenic V (dis)	1.1	1.7	1.7	1	1.1	1.4
Cadmium (Cd) (DIS)	0.7	0.5	0.4	0.5	0.5	0.3
Copper (Cu) (DIS)	<0.004	<0.004 J	<0.004	0.006	<0.004	0.005
Iron (Fe) (DIS)	0.07 J	0.1	0.05 UJ	0.03	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	7.7	1.4	1	1.6	0.9	0.6
Zinc (Zn) (DIS)	1.1	0.8	0.5	0.7	0.7	0.5

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					-4.5	-1
Oxygen (O) (DIS) (Fld)	1.3	4	1.5	2.5	1.1	2.4
pH	7.4	7.5	7.7	7.6	8.1	7.5
Silicon+Silica (Si+SiO2)			29	29	29	27
Depth To Water Level (ft)	23.3	23.9	23.9	23.6	23.6	24.2
Eh (millivolts)	374	225	-38.8	394	243	
pH (Fld)	6.8	7.2	7.4	7.3	7.2	7.06
SC (umhos/cm at 25 C) (Fld)	1730	1024	877	1254	1267	1120
SC (umhos/cm at 25 C)	1750	1020	980	1347	1465	1089
Total Suspended Solids				324 J	111	295
TDS (Measured at 180 C)	1399	711	684	1022	1077	764
Turbidity (NTU) (Fld)	19.2	80				
Water Temperature (C) (Fld)	13.3	13	13.2	13.8	13.5	11.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-44	DH-44	DH-44	DH-44	DH-44	DH-44
Water	SAMPLE DATE	11/14/2002	5/31/2003	10/25/2003	5/26/2004	10/29/2004	5/18/2005
	SAMPLE TIME	12:00	11:30	15:15	12:55	09:30	10:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper
	LAB NUMBER	L020949009	L030243009	L030599-013	H04050191-012	H04110009-001	C05050691-003
	SAMPLE NUMBER	EHC-0211-149	AEH-0306-128	AEH-0310-351	AEH-0405-190	AEH-0411-158	AEH-0505-187
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	254	229	217	270	260	273
Calcium (Ca) (DIS)	195	263	176	181	190	157
Carbonate As CO3	<1	<2	<2			
Chloride (Cl)	178	177	113	110	100	83
Magnesium (Mg) (DIS)	80	112	72	73	84	66
Potassium (K) (DIS)	11	11	10	10	11	8
Sodium (Na) (DIS)	68	85	71	67	69	68
Sulfate (SO4)	488	955	444	570	643	400
Total Alkalinity As CaCO3	208	188	217	220	210	224

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05					
Arsenic (As) (DIS)	1.9	1.6	1.6	1.591	1.66	1.68
Arsenic III (dis)	0.9	1.5	0.38	0.014	1.8 J	0.06 UJ
Arsenic V (dis)	1	0.2	1.3	1.1 J	<0.0085 J	1.7
Cadmium (Cd) (DIS)	0.6	0.8	0.62	0.486	0.502	0.365
Copper (Cu) (DIS)	<0.004	0.007	<0.004	<0.004	<0.004	0.009
Iron (Fe) (DIS)	<0.02	<0.02	<0.03	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.6	0.4	1.5	0.22	0.48	0.55
Zinc (Zn) (DIS)	0.8	1.3	1.1	0.88	0.69	0.6

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.5	4.9	0.57	2.79	2.18	3.38
pH	7.7	7.3	7.9	7.7	7.6	7.55
Silicon+Silica (Si+SiO2)	27					
Depth To Water Level (ft)	23.9	22.9	23.98	23.92	22.69	23.52
pH (Fld)	6.6	6.5	6.98	7.11	6.52	6.87
SC (umhos/cm at 25 C) (Fld)	1690	2390	1560	1726	1892	1586
SC (umhos/cm at 25 C)	1690	2340	1556	1580	1520	1440
Total Suspended Solids	19	20	56	14	13	14
TDS (Measured at 180 C)	1235	1900	1151	1240	1330 J	1060
TDS - Calculated						943
Salinity (G/KG) (Fld)	0.7	1.1	0.7			
Turbidity (NTU) (Fld)	9	7	1			
Water Temperature (C) (Fld)	12.3	10.5	12.1	11.4	11.8	10.27

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-44	DH-44	DH-44	DH-44	DH-45
Water	SAMPLE DATE	11/14/2005	5/5/2006	11/15/2006	11/1/2007	12/15/1999
	SAMPLE TIME	08:50	09:55	15:15	00:00	16:05
	LAB	ELI-Hel	ELI-Hel	ELI	Hydrometrics	TSC-SLC
	LAB NUMBER	H05110113-001	H06050065-004	H06110138-005	AEH-0711-DH44	L992165016
	SAMPLE NUMBER	AEH-0511-170	AEH-0605-157	AEH-0611-198	AEH-0711-DH44	IMMW-9912-115
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION				Abandoned	
	REMARKS				No Sample	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	290	270	290	148
Calcium (Ca) (DIS)	225	130	180	94
Carbonate As CO3				<1
Chloride (Cl)	214	80	185	20
Magnesium (Mg) (DIS)	104	61	84	21
Potassium (K) (DIS)	12	9	12	9.3
Sodium (Na) (DIS)	126	78	117	42
Sulfate (SO4)	662	391	460	285
Total Alkalinity As CaCO3	240	220	240	121

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	2.068	1.955	1.912	4.5
Arsenic III (dis)	<0.006	<0.01	<0.03 J-	4
Arsenic V (dis)	1.8	2.3	2.4 J-	0.5
Cadmium (Cd) (DIS)	0.556	0.361	0.491	0.2
Copper (Cu) (DIS)	0.005	<0.004	0.004	<0.004
Iron (Fe) (DIS)	<0.02	0.03	<0.02	6.1
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.12	0.28	0.19	3.1
Zinc (Zn) (DIS)	0.8	0.64	0.73	3.6

**Other: ppm unless noted**

No Analysis				0.0
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**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential			20.7	
Oxygen (O) (DIS) (Fid)	3.64	3.11	2.1	1.4
pH	7.2	7.9	7.3	7.2
Depth To Water Level (ft)	22.52	22.6	21.46	9.7
Eh (millivolts)				203
pH (Fid)	6.79	6.91	6.79	6.7
SC (umhos/cm at 25 C) (Fid)	2300	1320	1973	820
SC (umhos/cm at 25 C)	2140	1230	1760	829
Total Suspended Solids	16	13	65 J	
TDS (Measured at 180 C)	1620	957	1420	609
Turbidity (NTU) (Fid)				18.9
Water Temperature (C) (Fid)	11.98	11.26	13.21	9.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-45	DH-45	DH-45	DH-45	DH-45	DH-45
Water	SAMPLE DATE	4/25/2000	4/25/2000	11/15/2000	5/1/2001	11/7/2001	11/7/2001
	SAMPLE TIME	16:15	16:30	12:30	16:45	14:30	14:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000631006	L000631009	L001922015	L010608030	L011535013	L011538009
	SAMPLE NUMBER	IMMW-0004-115	IMMW-0004-126	IMMW-0011-115	EHC-0105-149	EHC-0111-147	EHC-0111-195
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	160	157	159	201	160	163
Calcium (Ca) (DIS)	66	67	74	69	67	71
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Chloride (Cl)	17	21	25	43	41	41
Magnesium (Mg) (DIS)	16	16	20	19	16	17
Potassium (K) (DIS)	6.4	6.4	9.2	9.5	9.7	9
Sodium (Na) (DIS)	28	28	39	30	31	30
Sulfate (SO4)	173	153	184	145	114 J	91 J
Total Alkalinity As CaCO3	131	129	130	165	131	134

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.01		<0.05	<0.05
Arsenic (As) (DIS)	2.8	2.9	1.2	0.5	1.5 J	1.9 J
Arsenic III (dis)	2.2	2.3	0.4	0.3	1.2	1.3
Arsenic V (dis)	0.7	0.6	0.7	0.2	0.4	0.4
Cadmium (Cd) (DIS)	0.09	0.09	0.4	0.6	0.3	0.3
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.005	<0.004	<0.004
Iron (Fe) (DIS)	4.4	4.5	0.5	0.2	2.5	2.5
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	1.9	1.9	1	0.5	1.2	1.2
Zinc (Zn) (DIS)	1.9	1.9	3.3	3.5	2.4	2.4

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					-93.6	-92.6
Oxygen (O) (DIS) (Fld)	3.4	3.1	1.2	2.6	0.4	0.5
pH	7.4	7.2	7.1	8	7.4	7.4
Silicon+Silica (Si+SiO2)			27		27	27
Depth To Water Level (ft)	9.8		10	9.03	9.8	
Eh (millivolts)	236	234	33.8	287	154	155
pH (Fld)	7	7	7.2	5.2	7.3	7.3
SC (umhos/cm at 25 C) (Fld)	643	642	575	629	638	648
SC (umhos/cm at 25 C)	603	606	730	697	641	639
Total Suspended Solids				20	12	14
TDS (Measured at 180 C)	411	418	500	470	422	436
Turbidity (NTU) (Fld)	28.1	27.6				
Water Temperature (C) (Fld)	10.2	10.2	11	9.6	12	12

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-45	DH-45	DH-45	DH-45	DH-45	DH-45
Water	SAMPLE DATE	5/31/2002	11/13/2002	5/30/2003	10/25/2003	5/17/2004	10/29/2004
	SAMPLE TIME	10:45	15:40	17:00	14:15	16:25	10:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	L020412006	L020948013	L030242017	L030599-010	H04050109-006	H04110009-004
	SAMPLE NUMBER	EHC-0205-152	EHC-0211-150	AEH-0306-116	AEH-0310-348	AEH-0405-105	AEH-0411-161
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	177	183	176	144	180	200
Calcium (Ca) (DIS)	53	60	75	56	58	64
Carbonate As CO3	<1	<1	<2	<2		
Chloride (Cl)	14	13	53	11	25	10
Magnesium (Mg) (DIS)	12	14	22	13	15	14
Potassium (K) (DIS)	5.2	6.9	8.8	6	8	7
Sodium (Na) (DIS)	19	24	31	24	22	22
Sulfate (SO4)	77	77	126	96	76	115
Total Alkalinity As CaCO3	145	150	144	144	150	160

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05				
Arsenic (As) (DIS)	1.3	1.7	0.4	1.2	0.576	1.059
Arsenic III (dis)	0.2	1.3	0.3	0.91	0.23 J	1 J
Arsenic V (dis)	1	0.5	0.1	0.36	0.34	0.39 J
Cadmium (Cd) (DIS)	0.2	0.2	0.6	0.23	0.553	0.336
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	2.4	2.8	0.5	2.2	0.14	1.42
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.9	1	0.4	0.81	0.13	0.55
Zinc (Zn) (DIS)	1.7	2.1	4.5	2.4	5.12	2.96

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	-9.9					
Oxygen (O) (DIS) (Fld)	0.9	8.7	0.8	0.06	0.47	0.55
pH	7.4	6.9	7.4	8	7	6.9
Silicon+Silica (Si+SiO2)	25	26				
Depth To Water Level (ft)	10.4	10.4	8.9	10.18	9.63	9.61
pH (Fld)	6.9	6.3	6.5	6.91	5.97	6.75
SC (umhos/cm at 25 C) (Fld)	529	393	574	505	736	517
SC (umhos/cm at 25 C)	462	500	721	510	463	447
Total Suspended Solids	7.6 J	16	5.1	7.6	<10	38
TDS (Measured at 180 C)	298	339	478	370	324	340
Salinity (G/KG) (Fld)		0.1	0.2	0.02	0.2	
Turbidity (NTU) (Fld)		12	4	7		
Water Temperature (C) (Fld)	9.2	10.3	9	11.3	9.9	11.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-45	DH-45	DH-45	DH-45	DH-45	DH-45
Water	SAMPLE DATE	5/13/2005	11/9/2005	5/4/2006	11/15/2006	11/15/2006	4/24/2007
	SAMPLE TIME	11:25	10:00	15:20	13:35	13:35	10:45
	LAB	ELI-Casper	ELI-Hel	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	C05050527-006	H05110092-004	H06050060-006	H06110138-001	H06110138-002	H07040211-004
	SAMPLE NUMBER	AEH-0505-147	AEH-0511-146	AEH-0605-152	AEH-0611-194	AEH-0611-194	AEH-0704-103
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						No Fld Para Rcd
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	157	160	160	180		160
Calcium (Ca) (DIS)	64	58	54		54	48
Chloride (Cl)	30	11 UJ	14	9		7
Magnesium (Mg) (DIS)	18	13	13		11	9
Potassium (K) (DIS)	7	7	7		6	4
Sodium (Na) (DIS)	28	18	19		18	15
Sulfate (SO4)	114	86	78	65 J		55
Total Alkalinity As CaCO3	129	130	130	150		130

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.502	0.49	0.574		0.661	0.619
Arsenic (As) (TOT)						0.861
Arsenic III (dis)	0.2	0.2	0.3		0.3	0.315
Arsenic V (dis)	0.3	0.2	0.3		0.3 J-	0.319
Cadmium (Cd) (DIS)	0.544	0.313	0.403		0.167	0.115
Cadmium (Cd) (TOT)						0.128
Copper (Cu) (DIS)	<0.004	<0.004	<0.004		<0.004	<0.004
Copper (Cu) (TOT)						0.005
Iron (Fe) (DIS)	0.19	0.94	0.76		1.94	1.94
Iron (Fe) (TOT)						2.67
Lead (Pb) (DIS)	<0.005	<0.005	<0.005		<0.005	<0.005
Lead (Pb) (TOT)						0.017
Manganese (Mn) (DIS)	0.17	0.37	0.35		0.67	0.53
Manganese (Mn) (TOT)						0.56
Zinc (Zn) (DIS)	4.92	2.76	3.78		1.97	1.56
Zinc (Zn) (TOT)						1.74

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				-21.6		
Oxygen (O) (DIS) (Fld)	1.8	2.8	3.42	0.23		
pH	6.98	6.7	6.9	7		7.1
Depth To Water Level (ft)	9.16	9.48	8.79	8.67		10.31
pH (Fld)	6.83	6.57	6.64	6.77		
SC (umhos/cm at 25 C) (Fld)	625	570	461	454		
SC (umhos/cm at 25 C)	587	481	478	429		388
Total Suspended Solids	<10	37	<10	<10 J		13 J
TDS (Measured at 180 C)	382	306	290	279		246
TDS - Calculated	366					
Water Temperature (C) (Fld)	9.3	12.25	9.99	10.9		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-45	DH-46	DH-46	DH-46	DH-46
Water	SAMPLE DATE	11/1/2007	12/15/1999	4/25/2000	11/15/2000	5/1/2001
	SAMPLE TIME	00:00	15:45	16:50	12:45	17:00
	LAB	Hydrometrics	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	AEH-0711-DH45	L992165017	L000631007	L001922016	L010608031
	SAMPLE NUMBER	AEH-0711-DH45	IMMW-9912-116	IMMW-0004-116	IMMW-0011-116	EHC-0105-150
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	Abandoned				
	REMARKS	No Sample				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	159	181	181	198
Calcium (Ca) (DIS)	75	53	66	55
Carbonate As CO3	<1	<1	<1	<1
Chloride (Cl)	29	18	23	27
Magnesium (Mg) (DIS)	21	16	18	15
Potassium (K) (DIS)	9	7.3	7.6	7.2
Sodium (Na) (DIS)	61	45	52	47
Sulfate (SO4)	252	164	208	147
Total Alkalinity As CaCO3	130	148	148	162

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			0.04 U	
Arsenic (As) (DIS)	3.1	4.9	4.7	6
Arsenic III (dis)	2.1	3.4	3.2	5.5
Arsenic V (dis)	1	1.5	1.3	0.2
Cadmium (Cd) (DIS)	0.2	0.2	0.2	0.1
Copper (Cu) (DIS)	<0.004	<0.004	0.02	<0.004
Iron (Fe) (DIS)	4.1	4.8	6.7	6.6
Lead (Pb) (DIS)	<0.005	<0.005	0.01	<0.005
Manganese (Mn) (DIS)	4.2	3.3	4.2	3.7
Zinc (Zn) (DIS)	1.5	1.3	1.4	1.3

**Other: ppm unless noted**

No Analysis                      0.0

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.9	2.7	1.4	2.3
pH	7.1	7.3	6.9	7.9
Silicon+Silica (Si+SiO2)			32	
Depth To Water Level (ft)	6	6.1	6.3	5.4
Eh (millivolts)	232	248	-68.2	183
pH (Fld)	6.6	6.8	6.9	3.8
SC (umhos/cm at 25 C) (Fld)	877	645	664	609
SC (umhos/cm at 25 C)	840	620	765	682
Total Suspended Solids				68
TDS (Measured at 180 C)	591	422	520	468
Turbidity (NTU) (Fld)	18.9	59		
Water Temperature (C) (Fld)	8.7	9.5	10	9.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-46	DH-46	DH-46	DH-46	DH-46	DH-46
Water	SAMPLE DATE	11/7/2001	5/31/2002	11/13/2002	5/30/2003	10/25/2003	5/17/2004
	SAMPLE TIME	14:40	11:10	16:00	17:15	14:35	16:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI
	LAB NUMBER	L011535014	L020412007	L020948014	L030242018	L030599-011	H04050109-005
	SAMPLE NUMBER	EHC-0111-148	EHC-0205-153	EHC-0211-151	AEH-0306-117	AEH-0310-349	AEH-0405-104
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	207	229	234	215	176	240
Calcium (Ca) (DIS)	59	54	71	50	68	57
Carbonate As CO3	<1	<1	<1	<2	<2	
Chloride (Cl)	27	24	25	16	14	11
Magnesium (Mg) (DIS)	16	14	17	14	16	12
Potassium (K) (DIS)	7.5	6.3	7.3	6.8	6.9	7
Sodium (Na) (DIS)	59	41	42	38	45	34
Sulfate (SO4)	146	90	86	88	126	68
Total Alkalinity As CaCO3	170	188	192	176	176	200

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05	<0.05			
Arsenic (As) (DIS)	4	4.9	5	4.7	3.9	4.784
Arsenic III (dis)	2.8	0.6	2.7	2.9	2.1	2.3 J
Arsenic V (dis)	1.5	4.3	2.5	1.9	2	0.27
Cadmium (Cd) (DIS)	0.1	0.1	0.1	0.1	0.15	0.107
Copper (Cu) (DIS)	<0.004	<0.004	0.006	<0.004	0.007	<0.004
Iron (Fe) (DIS)	5	6.3	6.5	6.7	6.2	6.98
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.5	3.1	3.4	3	3.3	2.43
Zinc (Zn) (DIS)	1.1	1.1	1.2	1.2	1.3	1.25

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	-70.4	-9.9				
Oxygen (O) (DIS) (Fld)	0.2	0.1	0.9	0.3	0.56	0.96
pH	7.6	6.9	7	7.2	8.1	7.1
Silicon+Silica (Si+SiO2)	32	32	32			
Depth To Water Level (ft)	6.2	6.7	6.7	5.3	6.51	5.97
Eh (millivolts)	177					
pH (Fld)	7	6.5	6.2	6.5	6.6	6.03
SC (umhos/cm at 25 C) (Fld)	715	695	509	490	668	640
SC (umhos/cm at 25 C)	702	593	640	589	663	465
Total Suspended Solids	104	36	55	39	84	32
TDS (Measured at 180 C)	466	388	426	357	474	332
Salinity (G/KG) (Fld)			0.2	0.1	0.02	0.2
Turbidity (NTU) (Fld)			46	8	8	
Water Temperature (C) (Fld)	12.5	9.8	11.5	10	13.3	10.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-46	DH-46	DH-46	DH-46	DH-46	DH-46
Water	SAMPLE DATE	10/29/2004	10/29/2004	5/13/2005	11/9/2005	5/4/2006	11/15/2006
	SAMPLE TIME	10:45	11:00	11:40	09:45	15:35	11:55
	LAB	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel	ELI
	LAB NUMBER	H04110009-005	H04110009-006	C05050527-007	H05110092-003	H06050060-007	H06110135-011
	SAMPLE NUMBER	AEH-0411-162	AEH-0411-163	AEH-0505-148	AEH-0511-145	AEH-0605-153	AEH-0611-193
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	220	220	219	190	200	210
Calcium (Ca) (DIS)	71	69	55	62	53	55
Chloride (Cl)	10	10	8	11 UJ	9	11
Magnesium (Mg) (DIS)	16	15	12	14	12	11
Potassium (K) (DIS)	7	7	6	6	6	7
Sodium (Na) (DIS)	35	35	32	33	29	29
Sulfate (SO4)	142	148	66	120	63	74 J
Total Alkalinity As CaCO3	180	180	180	150	160	170

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	3.93	3.995	4.72	3.623	4.67	4.55
Arsenic III (dis)	2.6 J	2 J	3.1	<0.005	2.7	4.4
Arsenic V (dis)	1.4 J	2 J	1.7	2.6	1.1	1.7
Cadmium (Cd) (DIS)	0.127	0.125	0.101	0.11	0.102	0.11
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.007	<0.004	<0.004
Iron (Fe) (DIS)	6.74	6.64	6.29	5.85	6.53	6.51
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.69	2.7	2.49	2.64	2.41	2.81
Zinc (Zn) (DIS)	1.15	1.16	1.15	1.1	1.22	1.24

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential						-62.1
Oxygen (O) (DIS) (Fld)	0.09		0.1	1.1	2.25	0.12
pH	7	7.7	6.82	6.7	6.8	6.8
Depth To Water Level (ft)	5.94		5.54	5.8	5.16	5.02
pH (Fld)	6.6		6.84	6.69	6.53	6.72
SC (umhos/cm at 25 C) (Fld)	632		507	571	468	585
SC (umhos/cm at 25 C)	530	546	479	572	512	497
Total Suspended Solids	105	122	58	252	118	160
TDS (Measured at 180 C)	411	398	370	363	311	338
TDS - Calculated			320			
Water Temperature (C) (Fld)	12.6		10.2	12.95	10.94	11.63

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-46	DH-46	DH-46	DH-47	DH-47
Water	SAMPLE DATE	4/24/2007	4/24/2007	11/1/2007	12/16/1999	4/26/2000
	SAMPLE TIME	10:05	10:10	00:00	09:35	10:55
	LAB	ELI	ELI	Hydrometrics	TSC-SLC	TSC-SLC
	LAB NUMBER	H07040211-001	H07040211-002	AEH-0711-DH46	L992165018	L000631028
	SAMPLE NUMBER	AEH-0704-100	AEH-0704-101	AEH-0711-DH46	IMMW-9912-117	IMMW-0004-117
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION			Abandoned		
	REMARKS		Field Duplicate	No Sample		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	210	210	185	178
Calcium (Ca) (DIS)	58	57	314	438
Carbonate As CO3			<1	<1
Chloride (Cl)	10	11	120	269
Magnesium (Mg) (DIS)	12	12	31	44
Potassium (K) (DIS)	6	6	41	45
Sodium (Na) (DIS)	33	31	332	677
Sulfate (SO4)	92	98	1411	2400
Total Alkalinity As CACO3	170	170	152	146

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	4.521	4.599	4.7	4.9
Arsenic (As) (TOT)	8.6	8.95		
Arsenic III (DIS)	3.56	3.28	5.3	4.4
Arsenic V (DIS)	0.945	1.03	0.1	0.2 U
Cadmium (Cd) (DIS)	0.105	0.108	<0.001	<0.001
Cadmium (Cd) (TOT)	0.205	0.226		
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.03 J
Copper (Cu) (TOT)	0.311	0.348		
Iron (Fe) (DIS)	7.53	7.27	5	4.2
Iron (Fe) (TOT)	20.5	22.1		
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	1.08	1.2		
Manganese (Mn) (DIS)	2.93	2.88	3.6	3.6
Manganese (Mn) (TOT)	3.07	3.21		
Zinc (Zn) (DIS)	1.24	1.25	<0.02	0.02
Zinc (Zn) (TOT)	1.83	2.02		

**Other: ppm unless noted**

No Analysis			0.0	
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.79		1.03	3.9
pH	7	7	7.5	7.6
Depth To Water Level (ft)	6.65		7.07	7.2
Eh (millivolts)			106	207
pH (Fld)	5.4		7.2	7.5
SC (umhos/cm at 25 C) (Fld)	589		3050	4469
SC (umhos/cm at 25 C)	551	549	3040	4510
Total Suspended Solids	464 J	916 J		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-46	DH-46	DH-47	DH-47
Water	SAMPLE DATE	4/24/2007	4/24/2007	12/16/1999	4/26/2000
	SAMPLE TIME	10:05	10:10	09:35	10:55
	LAB	ELI	ELI	TSC-SLC	TSC-SLC
	LAB NUMBER	H07040211-001	H07040211-002	L992165018	L000631028
	SAMPLE NUMBER	AEH-0704-100	AEH-0704-101	IMMW-9912-117	IMMW-0004-117
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS		Field Duplicate		

**Physical/Fld-Lab: ppm unless noted**

TDS (Measured at 180 C)	348	336	2351	3683
Turbidity (NTU) (Fld)			7.9	32
Water Temperature (C) (Fld)	10.5		11.7	8.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-47	DH-47	DH-47	DH-47	DH-47	DH-47
Water	SAMPLE DATE	11/15/2000	5/1/2001	11/7/2001	5/31/2002	11/13/2002	5/30/2003
	SAMPLE TIME	13:45	17:30	15:15	11:30	16:15	17:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001922017	L010608032	L011535015	L020412008	L020948015	L030242019
	SAMPLE NUMBER	IMMW-0011-117	EHC-0105-151	EHC-0111-149	EHC-0205-154	EHC-0211-152	AEH-0306-118
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	214	98	233	234	176	171
Calcium (Ca) (DIS)	201	245	108	92	101	64
Carbonate As CO3	<1	<1	<1	<1	<1	<2
Chloride (Cl)	133	332	162	111	107	63
Magnesium (Mg) (DIS)	18	19	13	9.6	11	7.8
Potassium (K) (DIS)	36	53	31	25	26	16
Sodium (Na) (DIS)	591	1075	545	390	406	240
Sulfate (SO4)	1301	2738	1031	851	842	471
Total Alkalinity As CaCO3	175	80	191	192	144	140

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	0.01 U		<0.05	<0.05	<0.05	
Arsenic (As) (DIS)	4.1	3.1	2.7	2.5	2.9	1.8
Arsenic III (dis)	4.2	2.2	2.8	2.2	2.4	1.6
Arsenic V (dis)	0.1 U	0.6	<0.005	0.3	0.6	0.2
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.008	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	2.4	3.7	1.2	1	1.3	1.5
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.5	3	1.5	1.1	1.5	1.2
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			-41.7	-53.6		
Oxygen (O) (DIS) (Fld)	1.09	1.8	0.2	0.2	3.7	0.3
pH	7.7	7.1	8.1	7.6	7	7.1
Silicon+Silica (Si+SiO2)	27		27	24	27	
Depth To Water Level (ft)	7.4	6.6	7.2	7.7	7.8	6.4
Eh (millivolts)	-155.1	121	206			
pH (Fld)	7.7	4.7	7.5	7.6	6.6	7.1
SC (umhos/cm at 25 C) (Fld)	2920	4370	2420	2560	2430	1510
SC (umhos/cm at 25 C)	3330	6020	2930	2380	2460	1522
Total Suspended Solids		30	115	24	54	56
TDS (Measured at 180 C)	2483	4721	2051	1658	1716	999
Salinity (G/KG) (Fld)					1.1	0.6
Turbidity (NTU) (Fld)					8	9
Water Temperature (C) (Fld)	11.6	7.6	13.8	8.2	12.5	8.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-47	DH-47	DH-47	DH-47	DH-47	DH-47
Water	SAMPLE DATE	10/25/2003	5/17/2004	10/29/2004	5/13/2005	11/9/2005	5/5/2006
	SAMPLE TIME	15:00	15:40	11:05	11:55	09:10	09:00
	LAB	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel
	LAB NUMBER	L030599-012	H04050109-004	H04110009-007	C05050527-008	H05110092-001	H06050065-001
	SAMPLE NUMBER	AEH-0310-350	AEH-0405-103	AEH-0411-164	AEH-0505-149	AEH-0511-143	AEH-0605-154
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	131	250	220	232	210	240
Calcium (Ca) (DIS)	53	51	58	45	47	47
Carbonate As CO3	<2					
Chloride (Cl)	36	31	30	17	18	17
Magnesium (Mg) (DIS)	7.3	6	8	7	8	8
Potassium (K) (DIS)	13	16	13	10	8	9
Sodium (Na) (DIS)	188	179	113	112	74	92
Sulfate (SO4)	311	280	234	164	99	125
Total Alkalinity As CaCO3	131	210	180	190	170	190

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	2.1	2.151	1.984	1.78	1.619	1.788
Arsenic III (dis)	0.18	1.9 J	2 J	1.6	<0.005	1.7
Arsenic V (dis)	1.8	0.32	3 J	0.01	1.1	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	2.4	0.81	1.95	1.75	2.12	2.29
Lead (Pb) (DIS)	0.04	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	1.1	0.77	1.11	1.33	1.47	1.57
Zinc (Zn) (DIS)	0.27	<0.01	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.51	-26 R	0.06	0.03	3.81	1.78
pH	7.7	7.9	7.8	7.68	7.4	7.4
Depth To Water Level (ft)	10.56 A	7.03	7.01	6.63	6.87	6.25
pH (Fld)	7.68	7.09	7.14	7.18	6.75	6.19
SC (umhos/cm at 25 C) (Fld)	1130	1130	943	794	704	725
SC (umhos/cm at 25 C)	1123	993	823	754	648	696
Total Suspended Solids	115	<10	40	15	64	106
TDS (Measured at 180 C)	768	709	594	505	404	457
TDS - Calculated				495		
Salinity (G/KG) (Fld)	0.5	0.4				
Turbidity (NTU) (Fld)	6					
Water Temperature (C) (Fld)	12.8	9.2	12.1	8.8	8.11	9.06

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-47	DH-47	DH-47	DH-47	DH-47	DH-47
Water	SAMPLE DATE	11/15/2006	5/17/2007	12/7/2007	5/12/2008	11/11/2008	5/14/2009
	SAMPLE TIME	11:30	13:30	11:35	09:00	09:45	14:15
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110135-009	H07050209-003	H07120076-004	H08050190-002	H08110126-006	H09050233-013
	SAMPLE NUMBER	AEH-0611-191	AEH-0705-170	AEH-0711-209	AEH-0805-205	AEH-0811-214	AEH-0905-217
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	240	220		190	240	200
Bicarbonate (HCO3) (dis)			260			
Calcium (Ca) (DIS)	47	46	36	45	42	39
Chloride (Cl)	16	20	19	16	15	15
Magnesium (Mg) (DIS)	7	7	5	7	6	6
Potassium (K) (DIS)	9	9	11	12	10	12
Sodium (Na) (DIS)	110	187	165	143	109	151
Sulfate (SO4)	154 J	274	184	230	190	260
Total Alkalinity As CaCO3	200	180	210	160	200	170

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)			<0.005	<0.005	<0.005	
Selenium-VI (DIS)			<0.005	<0.005	<0.005	
Aluminum (Al) (DIS)				<0.1	<0.1	<0.1
Antimony (Sb) (DIS)				<0.005	<0.005	<0.003
Arsenic (As) (DIS)	1.752	1.937	2.295	1.943	1.82	2.95
Arsenic III (DIS)	2.2	2	3.29	1.91	1.24 J	
Arsenic V (DIS)	<0.02 J-	<0.025	<0.025 J	0.17	0.245 J	
Barium (Ba) (DIS)				<0.1	<0.1	<0.1
Beryllium (Be) (DIS)				<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)				<0.001	<0.001	<0.001
Cobalt (Co) (DIS)				<0.01	<0.01	0.0014 UJ
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.001
Gold (Au) (DIS)						<0.01
Iron (Fe) (DIS)	3.3	2.51	2.01	1.98	2.08	1.34
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.01	1.77	1.33	1.5	1.38	1.05
Mercury (Hg) (DIS)				<0.006	<0.006	0.0002
Nickel (Ni) (DIS)				<0.01	<0.01	<0.01
Selenium (Se) (DIS)			0.005	<0.005	<0.005	0.006
Silver (Ag) (DIS)				<0.005	<0.005	<0.005 J
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)				<0.002	<0.002	<0.001
Vanadium (V) (DIS)				<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.02	<0.01	<0.02	<0.01	<0.02 J	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	-140.1					
Oxygen (O) (DIS) (Fld)	0.15	0.08	0.26	0.57	0.2	0.14
pH	7.4	7.7	8	7.4	7.8	8.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-47	DH-47	DH-47	DH-47	DH-47	DH-47
Water	SAMPLE DATE	11/15/2006	5/17/2007	12/7/2007	5/12/2008	11/11/2008	5/14/2009
	SAMPLE TIME	11:30	13:30	11:35	09:00	09:45	14:15
	LAB	Hydrometrics	Hydrometrics	Hydrometrics		Hydrometrics	Hydrometrics
	LAB NUMBER	H06110135-009	H07050209-003	H07120076-004	H08050190-002	H08110126-006	H09050233-013
	SAMPLE NUMBER	AEH-0611-191	AEH-0705-170	AEH-0711-209	AEH-0805-205	AEH-0811-214	AEH-0905-217
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

	DH-47	DH-47	DH-47	DH-47	DH-47	DH-47
Depth To Water Level (ft)	6.11	7.36	6.92	7.23	8.39	7.44
pH (Fid)	7.35	7.48	7.37	7.57	7.32	7.68
SC (umhos/cm at 25 C) (Fid)	792	1145	976	929	823	963
SC (umhos/cm at 25 C)	775	1040	915	891	830	970
Total Suspended Solids	78 J	42	83	17 J	28	28
TDS (Measured at 180 C)	520	739	608	568	529	611
Water Temperature (C) (Fid)	11.88	9.32	10.3	8.8	12.3	9.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-48	DH-48	DH-48	DH-48	DH-48	DH-48
Water	SAMPLE DATE	12/15/1999	4/25/2000	11/6/2001	5/31/2002	10/29/2003	5/24/2004
	SAMPLE TIME	13:00	13:25	15:50	18:40	13:25	14:45
	LAB	HYDRO	TSC-SLC	TSC-SLC	ASARCO	TSC-SLC	ELI
	LAB NUMBER	IMMW-9912-118	L000631023	L011535016	EHC0205155	L030605003	H04050162-008
	SAMPLE NUMBER	IMMW-9912-118	IMMW-0004-118	EHC-0111-150	EHC-0205-155	AEH-0310-426	AEH-0405-157
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	160	159	149	160
Calcium (Ca) (DIS)	38	34	39	40
Carbonate As CO3	<1	<1	<2	
Chloride (Cl)	3.3	5.4 U	4.4	5 J
Magnesium (Mg) (DIS)	11	9.5	11	10
Potassium (K) (DIS)	<5	<5	<5	3
Sodium (Na) (DIS)	34	24	19	20
Sulfate (SO4)	64	42	58	56
Total Alkalinity As CaCO3	131	130	122	130

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		<0.05		
Arsenic (As) (DIS)	0.04 J	0.06	0.06	0.049
Arsenic III (dis)	0.01 U	0.02	<0.005	<0.001
Arsenic V (dis)	0.07 U	0.05	0.06	0.083
Cadmium (Cd) (DIS)	0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.08	<0.02	<0.03	<0.02 J
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.01
Zinc (Zn) (DIS)	<0.02	<0.02	<0.05	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			79.3	
Oxygen (O) (DIS) (Fld)		7.8	4.5	7.28 7.98
pH		7.9	8.1	8 7.7
Silicon+Silica (Si+SiO2)			27	
Depth To Water Level (ft)	35.8	33.5	33	0.0 32.65 35.72
Eh (millivolts)		426	300	
pH (Fld)		7.4	7.9	6.58 6.84
SC (umhos/cm at 25 C) (Fld)		404	384	316 471
SC (umhos/cm at 25 C)		403	346	369 316
Total Suspended Solids			3	41 28 J
TDS (Measured at 180 C)		260	225	262 254
Salinity (G/KG) (Fld)				0.1 0.1
Turbidity (NTU) (Fld)		7.9		61
Water Temperature (C) (Fld)		10.9	11.1	10.4 11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-48	DH-48	DH-48	DH-48	DH-48	DH-48
Water	SAMPLE DATE	10/28/2004	5/13/2005	11/11/2005	5/10/2006	11/9/2006	5/11/2007
	SAMPLE TIME	11:25	13:40	11:25	08:50	00:00	00:00
	LAB	ELI	Hydro	ASARCO	Hydro	Hydrometrics	Hydrometrics
	LAB NUMBER	H04100202-005	AEH-0505-155	AEH-0511-162	AEH-0605-203	z	z
	SAMPLE NUMBER	AEH-0411-145	AEH-0505-155	AEH-0511-162	AEH-0605-203	AEH-0611-155	AEH-0705-134
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		No Samp-Dry	No Samp-Dry	o Samp-Low SWL	o Samp-Low SWL	No Samp-Dry
	REMARKS		No Sample	No Sample	No Sample	No Sample	No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	130
Calcium (Ca) (DIS)	42
Chloride (Cl)	4
Magnesium (Mg) (DIS)	11
Potassium (K) (DIS)	3
Sodium (Na) (DIS)	18
Sulfate (SO4)	50
Total Alkalinity As CaCO3	110

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.051
Arsenic III (dis)	<0.001
Arsenic V (dis)	0.051
Cadmium (Cd) (DIS)	<0.001
Copper (Cu) (DIS)	<0.004
Iron (Fe) (DIS)	<0.02
Lead (Pb) (DIS)	<0.005
Manganese (Mn) (DIS)	<0.02
Zinc (Zn) (DIS)	<0.02

**Other: ppm unless noted**

Analyses	0.0	
No Analysis		0.0

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	8.38			
pH	7.8			
Depth To Water Level (ft)	33.76	32.51	34.39	34.02
pH (Fld)	7.28			
SC (umhos/cm at 25 C) (Fld)	328			
SC (umhos/cm at 25 C)	311			
Total Suspended Solids	185			
TDS (Measured at 180 C)	223			
Water Temperature (C) (Fld)	11.3			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-48	DH-48	DH-48	DH-49	DH-49
Water	SAMPLE DATE	11/27/2007	5/13/2008	11/17/2008	12/15/1999	4/25/2000
	SAMPLE TIME	00:00	00:00	09:45	15:00	15:45
	LAB	Hydrometrics		ELI	TSC-SLC	TSC-SLC
	LAB NUMBER	AEH-0711-163	AEH-0805-231	H08110187-002	L992165019	L000631024
	SAMPLE NUMBER	AEH-0711-163	AEH-0805-231	AEH-0811-252	IMMW-9912-119	IMMW-0004-119
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	to Samp-Low SWL	Dry			
	REMARKS	No Sample	No Sample			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	140	149	171
Calcium (Ca) (DIS)	38	152	180
Carbonate As CO3		<1	<1
Chloride (Cl)	6	58	74
Magnesium (Mg) (DIS)	10	52	64
Potassium (K) (DIS)	3	9	9.2
Sodium (Na) (DIS)	17	144	167
Sulfate (SO4)	50	695	857
Total Alkalinity As CaCO3	120	122	140

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005		
Selenium-VI (DIS)	<0.005		
Aluminum (Al) (DIS)	<0.1		
Antimony (Sb) (DIS)	0.013		
Arsenic (As) (DIS)	0.09 UJ	4.9	5.2
Arsenic III (DIS)	0.0306 UJ	0.02 U	0.01 U
Arsenic V (DIS)	0.0766	4.4	5
Barium (Ba) (DIS)	<0.1		
Beryllium (Be) (DIS)	<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.001	0.001
Chromium (Cr) (DIS)	<0.001		
Cobalt (Co) (DIS)	<0.01		
Copper (Cu) (DIS)	<0.004	0.004	0.009
Iron (Fe) (DIS)	0.05	<0.02 J	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.05	0.6	0.5
Mercury (Hg) (DIS)	<0.006		
Nickel (Ni) (DIS)	<0.01		
Selenium (Se) (DIS)	<0.005		
Silver (Ag) (DIS)	<0.005 J-		
Thallium (Tl) (DIS)	<0.002		
Vanadium (V) (DIS)	<0.01		
Zinc (Zn) (DIS)	0.02	<0.02	0.03

**Other: ppm unless noted**

No Analysis	0.0		
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**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		9.96	1.5	5.5
pH		7.7	7	6.9
Depth To Water Level (ft)	34.51	33.51	32.4	34.6
Eh (millivolts)			406	358

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-48	DH-49	DH-49
Water	SAMPLE DATE	11/17/2008	12/15/1999	4/25/2000
	SAMPLE TIME	09:45	15:00	15:45
	LAB	Hydrometrics	TSC-SLC	TSC-SLC
	LAB NUMBER	H08110187-002	L992165019	L000631024
	SAMPLE NUMBER	AEH-0811-252	IMMW-9912-119	IMMW-0004-119
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI
	DESCRIPTION			
	REMARKS			

**Physical/Fid-Lab: ppm unless noted**

	DH-48	DH-49	DH-49
pH (Fld)	7.06	6.4	6.6
SC (umhos/cm at 25 C) (Fld)	379	1602	1827
SC (umhos/cm at 25 C)	354	1662	1778
Total Suspended Solids	35		
TDS (Measured at 180 C)	227	1335	1396
Turbidity (NTU) (Fld)		12.8	183.6
Water Temperature (C) (Fld)	10.7	9.9	12

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-49	DH-49	DH-49	DH-49	DH-49	DH-49
Water	SAMPLE DATE	11/15/2000	11/15/2000	5/1/2001	11/8/2001	5/30/2002	11/13/2002
	SAMPLE TIME	11:30	11:45	13:15	10:00	12:40	15:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ASARCO	TSC-SLC
	LAB NUMBER	L001922018	L001922031	L010608033	L011535017	EHC0205156	L020943011
	SAMPLE NUMBER	IMMW-0011-119	IMMW-0011-132	EHC-0105-153	EHC-0111-151	EHC-0205-156	EHC-0211-154
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	151	153	173	159	189
Calcium (Ca) (DIS)	116	114	117	98	110
Carbonate As CO3	<1	<1	<1	<1	<1
Chloride (Cl)	38	35	40	48	60
Magnesium (Mg) (DIS)	39	38	37	32	33
Potassium (K) (DIS)	7	6.7	6.6	6.2	7
Sodium (Na) (DIS)	131	128	115	125	126
Sulfate (SO4)	499	541	620	427 J	458
Total Alkalinity As CaCO3	124	125	142	130	155

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.01	<0.01		<0.05	<0.05
Arsenic (As) (DIS)	5.2	5.3	4	4.6	4.6
Arsenic III (dis)	<0.03	<0.03	2.2	2	2.4
Arsenic V (dis)	5	4.9	1.6	3	2.1
Cadmium (Cd) (DIS)	<0.001	<0.001	0.006	<0.001	<0.001
Copper (Cu) (DIS)	0.01	0.01	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.08 UJ	<0.02	<0.05	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.4	0.5	0.07	0.3	0.07
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				170.4	
Oxygen (O) (DIS) (Fld)	3	3	3.3	0.3	0.4
pH	7	7	7.8	7.4	7
Silicon+Silica (Si+SiO2)	48	47		49	47
Depth To Water Level (ft)	34.1		35.5	32.2	36.4
Eh (millivolts)	99.1	99.1	-39	422	
pH (Fld)	6.8	6.8	6.2	6.5	5.9
SC (umhos/cm at 25 C) (Fld)	1045	1038	1253	1200	1226
SC (umhos/cm at 25 C)	1370	1361	1391	1200	1272
Total Suspended Solids			781	54	60
TDS (Measured at 180 C)	1049	1046	1066	895	925
Water Temperature (C) (Fld)	10.9	10.9	11.6	11	11.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-49	DH-49	DH-49	DH-49	DH-49	DH-49
Water	SAMPLE DATE	6/2/2003	10/29/2003	5/27/2004	11/2/2004	5/17/2005	11/17/2005
	SAMPLE TIME	13:40	15:30	08:45	15:50	10:30	10:15
	LAB	TSC-SLC	TSC-SLC	ELI	ELI	Hydro	ELI-Hel
	LAB NUMBER	L030245012	L030605010	H04050208-001	H04110029-015	AEH-0505-170	H05110153-006
	SAMPLE NUMBER	AEH-0306-174	AEH-0310-432	AEH-0405-199	AEH-0411-199	AEH-0505-170	AEH-0511-198
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION					o Samp-Low SWL	
	REMARKS					No Sample	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	223	200	240	200	210
Calcium (Ca) (DIS)	117	128	145	137	122
Carbonate As CO3	<2	<2			
Chloride (Cl)	54	69	66	50	54
Magnesium (Mg) (DIS)	37	39	40	39	38
Potassium (K) (DIS)	6.7	7.9	7	8	11
Sodium (Na) (DIS)	127	122	130	101	123
Sulfate (SO4)	392	491	470	519	468
Total Alkalinity As CaCO3	183	164	200	170	170

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	4.1	4.8	4.6	5.82	6.45
Arsenic III (dis)	4.7	2.1	<0.001 J	<0.03	0.04 UJ
Arsenic V (dis)	<0.005	2.4	7.3	5.3	7.8
Cadmium (Cd) (DIS)	<0.001	<0.001	0.004	<0.001	<0.001
Copper (Cu) (DIS)	<0.004 UJ	0.007	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.03	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.02	0.06	0.01	0.06	0.17
Zinc (Zn) (DIS)	<0.02	<0.05	<0.01	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.7	0.02	1.07	0.13	1.35
pH	7.1	7.7	7	7.5	6.4
Depth To Water Level (ft)	33.9	32.6	34.49	30.99	35.19
pH (Fld)	6.1	6.01	6.47	6.43	6.2
SC (umhos/cm at 25 C) (Fld)	1400	1400	1524	1430	1444
SC (umhos/cm at 25 C)	1454	1424	1390	1280	1360
Total Suspended Solids	40	17	<10	14 J	12 J
TDS (Measured at 180 C)	1089	1064	1120	1040	1050
Salinity (G/KG) (Fld)	0.6	0.6			
Turbidity (NTU) (Fld)	32	20			
Water Temperature (C) (Fld)	11.8	11	12.3	11.8	13.18

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-49	DH-49	DH-49	DH-49	DH-49	DH-49
Water	SAMPLE DATE	5/10/2006	11/9/2006	5/16/2007	11/27/2007	5/15/2008	11/13/2008
	SAMPLE TIME	08:40	11:45	00:00	00:00	12:30	14:38
	LAB	ELI-Hel	ELI	Hydrometrics	Hydrometrics		ELI
	LAB NUMBER	H06050119-001	H06110081-010	z	AEH-0711-164	AEH-0805-258	H08110162-011
	SAMPLE NUMBER	AEH-0605-202	AEH-0611-139	AEH-0705-160	AEH-0711-164	AEH-0805-258	AEH-0811-247
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION			No Samp-Dry	o Samp-Low SWL	o Samp-Low SWL	
	REMARKS			No Sample	No Sample	No Sample	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	240	200	210
Calcium (Ca) (DIS)	138 J+	147	124
Chloride (Cl)	52	67	38
Magnesium (Mg) (DIS)	42 J-	45	40
Potassium (K) (DIS)	9	8	8
Sodium (Na) (DIS)	124	123	119
Sulfate (SO4)	435	525	530
Total Alkalinity As CaCO3	190	170	170

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)			<0.005
Selenium-VI (DIS)			0.015
Aluminum (Al) (DIS)			0.9
Antimony (Sb) (DIS)			<0.005
Arsenic (As) (DIS)	7.41 J	7.135	5.98
Arsenic III (dis)	<0.03	<0.06	0.0106
Arsenic V (dis)	14.5	8.2	6.45 J
Barium (Ba) (DIS)			<0.1
Beryllium (Be) (DIS)			<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)			0.001
Cobalt (Co) (DIS)			<0.01
Copper (Cu) (DIS)	0.005	0.005	<0.004
Iron (Fe) (DIS)	0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.15	0.56	0.52
Mercury (Hg) (DIS)			<0.006
Nickel (Ni) (DIS)			<0.01
Selenium (Se) (DIS)			0.023
Silver (Ag) (DIS)			<0.005
Thallium (Tl) (DIS)			<0.002
Vanadium (V) (DIS)			0.01
Zinc (Zn) (DIS)	<0.02	<0.02	0.04

**Other: ppm unless noted**

No Analysis			0.0
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**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential		106.5		
Oxygen (O) (DIS) (Fld)	3.1	2.17		0.58
pH	6.5	6.7		6.6
Depth To Water Level (ft)	34.03	31.2	32.49	36.44
pH (Fld)	6.21	6.19		6.04

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-49	DH-49	DH-49
Water	SAMPLE DATE	5/10/2006	11/9/2006	11/13/2008
	SAMPLE TIME	08:40	11:45	14:38
	LAB	Hydro	Hydrometrics	Hydrometrics
	LAB NUMBER	H06050119-001	H06110081-010	H08110162-011
	SAMPLE NUMBER	AEH-0605-202	AEH-0611-139	AEH-0811-247
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI
	DESCRIPTION			
	REMARKS			

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	1280	1496	1376
SC (umhos/cm at 25 C)	1240	1400	1350
Total Suspended Solids	<10 J	<10 J	<10
TDS (Measured at 180 C)	1050	1130	1060
Water Temperature (C) (Fid)	12.81	11.8	11.28

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-49	DH-5	DH-5	DH-5	DH-5
Water	SAMPLE DATE	5/18/2009	1/17/1985	1/17/1985	1/17/1985	1/17/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	Hydrometrics	TSC-SLC	CAL	TSC-SLC	CAL
	LAB NUMBER	z	85-679	S5748	85-690	S5749
	SAMPLE NUMBER	AEH-0905-238	AEH-8501-120	AEH-8501-120	AEH-8501-129	AEH-8501-129
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	to Samp-SWL Low				
	REMARKS	No Sample		Split	Field Duplicate	Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	63	117	
Calcium (Ca) (DIS)	33	32	20.5
Chloride (Cl)	5.3	7.7	
Magnesium (Mg) (DIS)	8.2	6.7	4.4
Potassium (K) (DIS)	3.8	1.8	2.9
Sodium (Na) (DIS)	22	22.2	12.5
Sulfate (SO4)	66.4	74	
Total Alkalinity As CaCO3	51.8	96	

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		<0.2	<0.2
Antimony (Sb) (DIS)		<0.01	<0.01
Arsenic (As) (DIS)	0.9	0.7	1 0.4
Barium (Ba) (DIS)		0.03	0.02
Beryllium (Be) (DIS)		<0.0006	<0.0006
Cadmium (Cd) (DIS)	0.01	<0.004	0.01 <0.004
Chromium (Cr) (DIS)		<0.002	0.008
Cobalt (Co) (DIS)		<0.007	<0.007
Copper (Cu) (DIS)	<0.008	0.009	<0.008 0.005
Iron (Fe) (DIS)	0.03	0.01	0.03 0.1
Lead (Pb) (DIS)	0.02	0.01	0.02 0.009
Manganese (Mn) (DIS)	0.04	0.03	0.03 0.03
Mercury (Hg) (DIS)		<0.0002	<0.0002
Nickel (Ni) (DIS)		<0.03	<0.03
Selenium (Se) (DIS)		<0.002	<0.002
Silver (Ag) (DIS)		<0.003	0.02
Thallium (Tl) (DIS)		<0.002	<0.002
Tin (Sn) (DIS)		<0.04	<0.04
Vanadium (V) (DIS)		<0.004	0.005
Zinc (Zn) (DIS)	1.8	1.5	1.7 1.01

**Physical/Fld-Lab: ppm unless noted**

pH		7.5	7.8
Depth To Water Level (ft)	36.17		
SC (umhos/cm at 25 C) (Fld)		347.6	
SC (umhos/cm at 25 C)		373	220
Total Suspended Solids		36	3
TDS (Measured at 180 C)		230	150

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-5	DH-5	DH-5	DH-5	DH-5	DH-5
Water	SAMPLE DATE	4/9/1985	4/9/1985	4/9/1985	6/11/1985	6/11/1985	8/13/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	JTC	TSC-SLC	JTC	JTC	TSC-SLC	TSC-SLC
	LAB NUMBER	8504-316	85-2477	8504-316SD	73-1990	85-4508	85-6290
	SAMPLE NUMBER	AEH-8504-316	AEH-8504-316	AEH-8504-316 SD	AEH-8506-513	AEH-8506-513	AEH-8508-716
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split		Field Duplicate	Split		Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	111			71		75
Calcium (Ca) (DIS)	39.3			40.2	33.4	30
Chloride (Cl)	17.7				14.3	10.9
Magnesium (Mg) (DIS)	7.09			7.07	5.6	6.3
Potassium (K) (DIS)	6.09			5.6	5.3	6.1
Sodium (Na) (DIS)	40.3			39.5	35.3	34
Sulfate (SO4)	90.1				40.6	78.9
Total Alkalinity As CaCO3	91				58	61.5

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1			0.2	<0.1	
Antimony (Sb) (DIS)	0.2			0.2	0.1	
Arsenic (As) (DIS)	2.6	3		2.7	2.4	2.3
Barium (Ba) (DIS)	0.04			0.04	0.03	
Beryllium (Be) (DIS)	<0.004			<0.004	<0.005	
Cadmium (Cd) (DIS)	<0.004	0.003		<0.004	0.006	0.003
Chromium (Cr) (DIS)	<0.009			<0.009	<0.008	
Cobalt (Co) (DIS)	<0.01			<0.01	<0.02	
Copper (Cu) (DIS)	<0.02			0.02	<0.02	0.02
Iron (Fe) (DIS)	<0.04			0.4	<0.04	<0.02
Lead (Pb) (DIS)	0.04	0.03		0.2	0.02	0.02
Manganese (Mn) (DIS)	0.03			0.5	0.03	0.02
Mercury (Hg) (DIS)	<0.0001			<0.0001	<0.0001	
Nickel (Ni) (DIS)	0.02			<0.02	<0.02	
Selenium (Se) (DIS)	<0.004			<0.05	<0.004	
Silver (Ag) (DIS)	<0.007			<0.007	<0.01	
Thallium (Tl) (DIS)	<0.003			<0.003	0.004	
Tin (Sn) (DIS)	<0.03			0.03	<0.03	
Vanadium (V) (DIS)	<0.02			<0.02	<0.03	
Zinc (Zn) (DIS)	1.8	1.6		2.06	1.6	1.08

**Physical/Fld-Lab: ppm unless noted**

pH	7.01	7.2		7.4		7.7
SC (umhos/cm at 25 C) (Fld)		485.7				358
SC (umhos/cm at 25 C)	358	477		372		383
Total Suspended Solids	39			7		3.3
TDS (Measured at 180 C)	337	331		237		246

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-5	DH-5	DH-5	DH-5	DH-5	DH-5
Water	SAMPLE DATE	8/13/1985	11/24/1986	11/24/1986	6/3/1987	11/20/1987	11/20/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	RMAL	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	85-6295	8611-25	86-7839	87-4012	87-10567	87-10570
	SAMPLE NUMBER	AEH-8508-721	AEH-8611-25	AEH-8611-25	AEH-8706-07	AEH-8711-220	AEH-8711-251
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Split				Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		48	55	109	50	52
Calcium (Ca) (DIS)		21.7		34	13.9	13.8
Carbonate As CO3		<5		<1	<1	<1
Chloride (Cl)		4.8		6 M	2.8	2.6
Magnesium (Mg) (DIS)		4.5		7	3.6	3.7
Potassium (K) (DIS)		2.3		4	2	2
Sodium (Na) (DIS)		8.6		20	6	5.9
Sulfate (SO4)		40	37	70 M	9 M	38 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.4	0.5	0.6	0.5 M	0.4	0.4
Arsenic III (dis)			<0.008	0.6	<0.008	<0.008
Arsenic V (dis)			0.6 M	0.06	0.5	0.4
Cadmium (Cd) (DIS)	0.005	<0.005	0.001	0.003 M	0.003	0.003
Copper (Cu) (DIS)		0.01		0.02 M	0.02	0.02
Iron (Fe +2) (TOT)			0.05		<0.01	<0.01
Iron (Fe) (DIS)		<0.03	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	0.04	0.006	0.007	0.02	0.02 M	0.01
Manganese (Mn) (DIS)		0.007		0.03	0.01 M	0.01
Zinc (Zn) (DIS)	1.3	0.9	0.8	1.4	0.7	0.8

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)				6.9	9.1	9.1
pH	7.9	6.8	6.8 M	7.8	7.6	7.6
Depth To Water Level (ft)			13.5	13.7	13.4	13.4
pH (Fld)			7.02 M	6.7	6.6	6.6
SC (umhos/cm at 25 C) (Fld)	433.1		177	352.7	164	164.2
SC (umhos/cm at 25 C)	418	180	180	350	161	172
Total Suspended Solids					<1	<1
TDS (Measured at 180 C)	318	115	140	222	147.2 M	102.4 J
Water Temperature (C) (Fld)			9	10.5	4.5 M	4.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-5	DH-5	DH-5	DH-5	DH-5	DH-5
Water	SAMPLE DATE	4/27/1988	4/27/1988	12/19/1988	4/18/1989	10/18/1989	4/28/1990
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	88-3121	88-3130	89-46	89-498	89-815	90-1033
	SAMPLE NUMBER	AEH-8804-304	AEH-8804-331	AEH-8812-125	AEH-8904-204	AEH-8910-404	AEH-9005-404
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	86						
Calcium (Ca) (DIS)	49						
Carbonate As CO3	<1						
Chloride (Cl)	11 J		69 A	9	5	7.6	
Magnesium (Mg) (DIS)	9						
Potassium (K) (DIS)	8.2						
Sodium (Na) (DIS)	38.4						
Sulfate (SO4)	150 A		43	75	42	52.2	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.01	1	0.7	0.8	0.5	0.4	
Arsenic III (dis)	0.01	0.01	0.07 J	0.6	<0.008	0.02	
Arsenic V (dis)	1.2	1.2	0.02	0.2 J	0.4	0.4	
Cadmium (Cd) (DIS)	0.003	0.003	0.003	0.003	0.003	0.003	
Copper (Cu) (DIS)			0.01	0.05 J	0.02	0.02	
Iron (Fe +2) (TOT)	0.2	0.1	0.03	<0.01			
Iron (Fe) (DIS)	0.2	0.2					
Lead (Pb) (DIS)	0.05	0.05	0.03	0.02	0.02	0.03	
Zinc (Zn) (DIS)	1.6	1.6	1.3	1.4	1.4 J	1.3	

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.8	5.8	9.2	8.6	5.8	7.2	
pH	7.8		7.4	7	7.1	7.5	
Depth To Water Level (ft)	14.9	14.9	14.8	38.5 A	13.6	13.4	
pH (Fld)	7.4	7.4	7.6	6.7	7.1	7.3	
SC (umhos/cm at 25 C) (Fld)	509.9	510.6	225.9	312.9	259.7	267.2	
SC (umhos/cm at 25 C)	520		210	180	240	255	
TDS (Measured at 180 C)	315		175 J	216	164	165	
Water Temperature (C) (Fld)			6.6	5.2	13	6.7	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-5	DH-5	DH-5	DH-5	DH-5	DH-5
Water	SAMPLE DATE	12/3/1990	5/7/1991	11/19/1991	4/27/1992	11/15/1992	5/4/1993
	SAMPLE TIME	00:00	00:00	10:15	12:30	15:35	15:25
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	90-2235	91-2690	91-3871	92-4363	92-6792	93-7775
	SAMPLE NUMBER	AEH-9011-711	AEH-9105-140	AEH-9111-350	AEH-9204-157	EHC-9211-175	EHC-9305-142
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)					26 J	30
Chloride (Cl)	4.6 J	6.6	6.8 J	3.6 J	4.8	10
Magnesium (Mg) (Dis)					5.8	6.3
Potassium (K) (Dis)					<5	<5
Sodium (Na) (Dis)					9.1	19
Sulfate (SO4)	37 J	42	45	40	41	53
Total Hardness As CaCO3						101

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.3	0.4	0.3	0.4	0.3 J	1.07 J
Arsenic III (dis)	0.7	0.2 J	0.2 U	0.02	0.005 U	0.004
Arsenic V (dis)	0.03	0.2 U	0.3 U	0.2	0.3 J	1.4 J
Cadmium (Cd) (DIS)	0.006	0.002	0.003	0.002	0.002	0.002
Copper (Cu) (DIS)	0.02	0.01	0.01	0.01	0.02	0.02
Lead (Pb) (DIS)	0.02	0.009	0.02	0.01	0.02 J	0.01
Zinc (Zn) (DIS)		1.1	1.5	0.9	1.3	1.4 J

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	6.4	10	8	8.5	8.6	8
pH	7.8	7.7	7.2	7.4	7.6	
Depth To Water Level (ft)	13.5	13.4	13.3	13.3	13.3	13.02
pH (Fld)	7.4	7.3	7.4	6.9	6.9	7.2
SC (umhos/cm at 25 C) (Fld)	241	265.4	265	225	215	294
SC (umhos/cm at 25 C)	228	268	221	221	220	280
TDS (Measured at 180 C)	149 J	182	176 J	141 J	190	187
Water Temperature (C) (Fld)	7.7	7.8	9.9	11.5	9.1	5.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-5	DH-5	DH-5	DH-5	DH-5	DH-5
Water	SAMPLE DATE	11/10/1993	11/10/1993	3/28/1994	4/11/1994	5/6/1994	5/6/1994
	SAMPLE TIME	15:10	17:30	11:30	13:30	12:20	12:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-9219	93-9218	94-502005	94-591004	94-747005	94-1319
	SAMPLE NUMBER	EHC-9311-127	EHC-9311-172	AHCL-9403-115	AHCL-9404-153	AHCL-9405-204	EHC-9405-132
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	7 J	7.1 J				4
	Sulfate (SO4)	42	42				32 J
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.5	0.5	0.3	0.3	0.4	0.05
	Arsenic III (dis)	<0.004	<0.004				0.01 U
	Arsenic V (dis)	0.6 J	0.5 J				0.4 J
	Cadmium (Cd) (DIS)	0.003	0.003	0.004	0.005 U	0.004	0.003 U
	Copper (Cu) (DIS)	0.02	0.02	0.02	0.01	0.02	0.01
	Lead (Pb) (DIS)	0.02	0.02	0.01	0.01	0.01 J	0.01
	Zinc (Zn) (DIS)	1.2	1.1	0.8	0.9	1	1
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	7.8	7.8	9.1	6.4	6.8	6.8
	Depth To Water Level (ft)	13.3	13.3	13.02	13.07	13.1	13.1
	pH (Fld)	7.3	7.3	7.5	6.4	7.5	7.5
	SC (umhos/cm at 25 C) (Fld)	236	236	202	201	185	234
	SC (umhos/cm at 25 C)	238 J	238 J				215
	TDS (Measured at 180 C)	156	152	135	151	142	141
	Water Temperature (C) (Fld)	9.3	9.3	4.5	7.1	7.5	7.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-5	DH-5	DH-5	DH-5	DH-5	DH-5
Water	SAMPLE DATE	5/17/1994	5/19/1994	5/24/1994	5/26/1994	5/31/1994	6/2/1994
	SAMPLE TIME	10:00	10:30	10:30	11:30	11:00	10:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-798005	94-816005	94-831005	94-851005	94-873005	94-893005
	SAMPLE NUMBER	AHCL-9405-219	AHCL-9405-233	AHCL-9405-244	AHCL-9405-259	AHCL-9405-104	AHCL-9406-104
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.5	0.5	0.4	0.5	0.4	0.4
Cadmium (Cd) (DIS)	0.004 U	0.003	0.003	0.003	0.004 U	0.001
Copper (Cu) (DIS)	0.02 U	0.01	0.02	0.03 U	0.02	0.02
Lead (Pb) (DIS)	0.02	0.02	0.01	0.01	0.01	0.02
Zinc (Zn) (DIS)	0.7	1	0.8	1	0.8	0.8

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	8.8	8.4	5.2	5	5.8	7.7
Depth To Water Level (ft)	13.1	13.1	13.1	13.2	13.2	13.2
pH (Fld)	6.8	6.9	7.6	6.8	7.2	7.04
SC (umhos/cm at 25 C) (Fld)	188	218	195	2010 A	195	189
TDS (Measured at 180 C)	147	148	151	148	132	135
Water Temperature (C) (Fld)	6.8	6.8	7.9	9.6	8.5	8.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-5	DH-5	DH-5	DH-5	DH-5	DH-5
Water	SAMPLE DATE	6/6/1994	6/13/1994	7/12/1994	8/19/1994	9/26/1994	10/20/1994
	SAMPLE TIME	10:40	10:30	11:00	11:20	11:15	11:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-917005	94-959005	94-1209005	94-1504029	94-1778019	94-1932006
	SAMPLE NUMBER	AHCL-9406-204	AHCL-9406-304	AHCL-9407-104	AHCL-9408-316	AHCL-9409-416	AHCL-9410-315
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
REMARKS							

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.4	0.4	0.4	0.4	0.4	0.3
Cadmium (Cd) (DIS)	0.001	0.001	0.003 U	0.005 U	0.004	0.004
Copper (Cu) (DIS)	0.01	0.01	0.02	0.01	0.01	0.01
Lead (Pb) (DIS)	0.02	0.01	0.02	0.01	0.01	0.01
Zinc (Zn) (DIS)	0.9	0.9	0.9	0.9	0.9	0.8

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	7.3	7	6.2	5.5	6.3	6.9
Depth To Water Level (ft)	13.1	13.2	13.3	13.4	13.3	13.2
Eh (millivolts)					138	94
pH (Fid)	7.6	7.7	6.7	7.1	7.3	7.4
SC (umhos/cm at 25 C) (Fid)	195	194	215	240	203	205
TDS (Measured at 180 C)	151	153	161	106 J	127	135 J
Water Temperature (C) (Fid)	9.1	9.4	11.9	14.9	14.9	11.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-5	DH-5	DH-5	DH-5	DH-5	DH-5
Water	SAMPLE DATE	11/11/1994	4/1/1995	4/25/1995	4/25/1995	5/10/1995	5/22/1995
	SAMPLE TIME	15:35	16:30	14:40	14:55	18:30	16:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-3279	95-651004	95-826021	95-826023	95-4483	95-1057003
	SAMPLE NUMBER	EHC-9411-132	AHCL-9503-115	AHCL-9504-122	AHCL-9504-124	EHC-9505-132	AHCL-9505-117
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)		23	20.3	19.5		25.9
Chloride (Cl)	5.1				6.8	
Magnesium (Mg) (DIS)		5.5	4.8	4.6		5.2
Potassium (K) (DIS)		2.3	1.8	1.8		3.4
Sodium (Na) (DIS)		6	6.4	6		14.1
Sulfate (SO4)	35 J	32	31	31	36	58

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.4	0.3	0.2	0.2	0.3	0.3
Arsenic (As) (TOT)						0.3
Arsenic III (dis)	0.004 U	<0.004	<0.004	<0.004	<0.004	0.008
Arsenic V (dis)	0.4	0.2	0.2	0.2	0.3 J	0.3
Cadmium (Cd) (DIS)	0.002	0.001	0.002	0.002	0.002	0.002
Cadmium (Cd) (TOT)						0.002
Copper (Cu) (DIS)	0.02	0.02	0.02	0.02	0.03	0.03
Copper (Cu) (TOT)						0.03
Iron (Fe) (DIS)						<0.02
Iron (Fe) (TOT)		<0.02	<0.02	<0.02		<0.02
Lead (Pb) (DIS)	0.02 J	0.02	0.02 J	0.02 J	0.02 J	0.03
Lead (Pb) (TOT)						0.03
Zinc (Zn) (DIS)	0.9	1.04	0.9	1	1.09	1.08
Zinc (Zn) (TOT)						1.1

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	8.6	9.9	10	9.9	8.5	7.4
pH					7	
Depth To Water Level (ft)	13.3	13.06	13.1	13.1	13.08	13.09
Eh (millivolts)		108	31	31		232
pH (Fid)	7.4	6.6	7.6	7.6	7.2	6.1
SC (umhos/cm at 25 C) (Fid)	223	210	203	203	201	385
SC (umhos/cm at 25 C)	222 J				198 J	
Total Suspended Solids		<1 J				<1 JU
TDS (Measured at 180 C)	136 J	161	132	124	110 J	182
Water Temperature (C) (Fid)	10.1	7.4	6	6.1	7.3	9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-5	DH-5	DH-5	DH-5	DH-5	DH-5
Water	SAMPLE DATE	6/20/1995	7/18/1995	8/16/1995	9/16/1995	10/24/1995	11/8/1995
	SAMPLE TIME	13:35	08:10	08:40	08:00	08:00	11:25
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-1280025	95-1523016	95-1778016	95-2070022	95-2401019	95-2532014
	SAMPLE NUMBER	AHCL-9506-115	AHCL-9507-115	AHCL-9508-115	AHCL-9509-115	AHCL-9510-115	AHCL-9511-116
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)	44
Magnesium (Mg) (DIS)	6.1
Potassium (K) (DIS)	6.9
Sodium (Na) (DIS)	28
Sulfate (SO4)	93

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1	0.8	0.5	0.5	0.4	0.4
Arsenic III (dis)	<0.004					
Arsenic V (dis)	1.05					
Cadmium (Cd) (DIS)	0.002	0.002	0.002	0.002	0.002	0.002
Copper (Cu) (DIS)	0.03	0.02	0.02	0.03	0.02	0.02
Iron (Fe) (TOT)	<0.1					
Lead (Pb) (DIS)	0.03	0.03	0.04	0.04	0.03	0.03
Zinc (Zn) (DIS)	1.9	1.5	1.5	1.6	1.2	1.4

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.3	4.3	6.3	7.5	6.6	3.6
Depth To Water Level (ft)	13.05	13.2	13.3	13.2	13.2	13.2
Eh (millivolts)	-4	-18	-7	80	270	101
pH (Fld)	7.2	7.2	7.9	7.05	6.6	6.9
SC (umhos/cm at 25 C) (Fld)	478	356	265	298	219	211
Total Suspended Solids	<1					
TDS (Measured at 180 C)	284	197	169	199	148	164
Water Temperature (C) (Fld)	10	11.8	13.4	13.5	10.6	9.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-5	DH-5	DH-5	DH-5	DH-5	DH-5
Water	SAMPLE DATE	11/8/1995	5/8/1996	6/25/1996	9/19/1996	11/5/1996	5/6/1997
	SAMPLE TIME	11:25	14:45	09:15	14:45	15:00	15:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-6125	96-6729	96-1243004	96-1924026	96-7725	97-956
	SAMPLE NUMBER	EHC-9511-134	EHC-9605-214	EHC-9606-115	EHC-9609-115	EHC-9611-214	EHC-9705-214
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	6.6 J	13			14	17
	Sulfate (SO4)	35 J	55			68	88
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.4	0.4	0.7	0.5 J	0.4	0.5
	Arsenic III (dis)	<0.004	<0.005 UJ			<0.004	<0.005
	Arsenic V (dis)	0.4 J	0.3 J			0.4 J	0.4
	Cadmium (Cd) (DIS)	0.002	0.001	0.002	0.002	0.002	0.001
	Copper (Cu) (DIS)	0.01	0.02	0.03	0.02	0.02	0.02
	Lead (Pb) (DIS)	0.03	0.02	0.03 U	0.03	0.03	0.02
	Zinc (Zn) (DIS)	1.2	1.2	1.4	1.2	1.2	1.1
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	3.6	7.6	6.01	6.7	6.8	6.9
	pH	7.8 J	7.1			7.3	7.1
	Depth To Water Level (ft)	13.2	13.1	13.05	13.2	13.2	13.06
	Eh (millivolts)		116	238	113	280	222
	pH (Fld)	6.9	7.4	6.9	7.4	7.6	6.7
	SC (umhos/cm at 25 C) (Fld)	211	487	462	290	293	362
	SC (umhos/cm at 25 C)	239 J	255			299	359
	Total Suspended Solids						<1
	TDS (Measured at 180 C)	187 J	167	294	196	189	240
	Water Temperature (C) (Fld)	9.5	7.6	9.8	12.7	9.7	5.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-5	DH-5	DH-5	DH-5	DH-5	DH-5
Water	SAMPLE DATE	11/5/1997	5/13/1998	11/19/1998	5/12/1999	11/17/1999	5/9/2000
	SAMPLE TIME	10:40	09:50	13:45	11:15	10:45	09:35
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	189-2705	263-3814	313-4448	349-4929	L992056002	L000705022
	SAMPLE NUMBER	EHC-9711-214	EHC-9805-214	EHC-9811-214	EHC-9905-214	EHC-9911-134	EHC-0005-133
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		61	56 J	27 J	2.2 U	55
Calcium (Ca) (DIS)		50	71	85	104	64
Carbonate As CO3				<1 UJ	<1	<1
Chloride (Cl)	18	34	22	25	57	43
Magnesium (Mg) (DIS)		7	6	6	5.9	6.3
Potassium (K) (DIS)		8	7.3	9.4	15	11
Sodium (Na) (DIS)		35 J	41	58	180	153
Sulfate (SO4)	69	128	214	270	604 J	412
Total Alkalinity As CACO3		50	46 J	22 J	1.8 U	45

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.6 J	0.4	0.5	0.4	0.8	0.5
Arsenic III (dis)	<0.005	0.01	<0.005 J	<0.005	0.007	0.01 UJ
Arsenic V (dis)	0.6 J	0.4	0.6	0.4	0.7	0.5
Cadmium (Cd) (DIS)	0.002	0.003	0.008	0.008	0.01	0.006
Copper (Cu) (DIS)	0.02	0.02	0.02	0.03	0.04	0.03
Iron (Fe) (DIS)		<0.05 J	<0.02	0.1 U	<0.02	0.03 UJ
Lead (Pb) (DIS)	0.02	0.02	0.03	0.05	0.06	0.05
Manganese (Mn) (DIS)		0.2 J	0.8	0.8	1.4	0.8
Zinc (Zn) (DIS)	1.02 J	1.7	2.09	2.5	2.8	1.8

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	8	6.7	2.9	4.4	3.4	9.8
pH	7.1	7	6.9	7	5.5	6.8
Depth To Water Level (ft)	13.3	13.03	13.07	13	13.07	13.05
Eh (millivolts)			140	215	299	326
pH (Fid)	7.8	7.2	6.5	6.9	7.08	6.8
SC (umhos/cm at 25 C) (Fid)	318	484	697	765	1460	1138
SC (umhos/cm at 25 C)	330	519	615	805	1463	1181
Total Suspended Solids	<1 JU				<1 J	
TDS (Measured at 180 C)	216 J	348	408	596	1043	816
Water Temperature (C) (Fid)	9.6	10.8	9.1	6.9	9.1	8.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-5	DH-5	DH-5	DH-5	DH-5	DH-5
Water	SAMPLE DATE	5/9/2000	11/10/2000	5/7/2001	11/14/2001	5/31/2002	11/14/2002
	SAMPLE TIME	09:50	11:25	15:45	10:50	17:30	10:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000705036	L001897021	L010655018	L011564010	L020412021	L020949006
	SAMPLE NUMBER	EHC-0005-171	EHC-0011-134	EHC-0105-160	EHC-0111-158	EHC-0205-168	EHC-0211-166
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	56	39	61	81	52	98
Calcium (Ca) (DIS)	62	61	46	31	20	34
Carbonate As CO3	<1	<1		<1	<1	<1
Chloride (Cl)	44	58	79	16	5.4	7.6
Magnesium (Mg) (DIS)	6.4	6.1	5.3	5.7	<5	6.9
Potassium (K) (DIS)	11	12	16	<5	<5	<5
Sodium (Na) (DIS)	141	199	271	52	20	23
Sulfate (SO4)	440	542	724	137	56	58
Total Alkalinity As CaCO3	46	32	50	66	43	80

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		0.05	0.06	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	0.5	0.4	0.9	0.3	0.3	0.3
Arsenic III (dis)	0.008 UJ	<0.02	0.3	0.1 J	0.1	0.2
Arsenic V (dis)	0.5 U	0.4	0.6	0.2	0.2	0.2
Cadmium (Cd) (DIS)	0.006	0.008	0.006	0.003	0.002	0.002
Copper (Cu) (DIS)	0.03	0.03	0.04	0.03	0.02	0.02
Iron (Fe) (DIS)	0.06 UJ	0.3 U	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	0.05	0.07	0.05	0.04	0.02	0.03
Manganese (Mn) (DIS)	0.8	1.3	1	0.4	0.1	0.09
Zinc (Zn) (DIS)	1.6	2.7	2.3	1.2	0.9	1.1

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				-37.5	-6.8	
Oxygen (O) (DIS) (Fld)	9.7	0.6	0.7	4.5	6.8	7.2
pH	6.9	7	7.1	7	6.4	6.8
Silicon+Silica (Si+SiO2)		19	17	20	16	19
Depth To Water Level (ft)		13.2	12.9	13.3	13.2	13.2
Eh (millivolts)	326	297	233	208		
pH (Fld)	6.8	6.6	7.3	7.3	6.7	6.4
SC (umhos/cm at 25 C) (Fld)	1138	1393	1457	638	266	261
SC (umhos/cm at 25 C)	1176	1430	1686	480	238	325
Total Suspended Solids			1.6	<1	<1 J	<1
TDS (Measured at 180 C)	799	1008	1156	324	187	211
Salinity (G/KG) (Fld)						0.1
Turbidity (NTU) (Fld)						1
Water Temperature (C) (Fld)	8.5	10.5	7.7	12.1	7.5	10.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-5	DH-5	DH-5	DH-5	DH-5	DH-5
Water	SAMPLE DATE	5/31/2003	5/31/2003	10/25/2003	10/25/2003	5/17/2004	5/17/2004
	SAMPLE TIME	09:30	09:45	10:15	10:20	15:05	15:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	L030243004	L030243005	L030598018	L030598019	H04050109-002	H04050109-003
	SAMPLE NUMBER	AEH-0306-123	AEH-0306-124	AEH-0310-336	AEH-0310-337	AEH-0405-101	AEH-0405-102
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	63	63	73	74	68	68	
Calcium (Ca) (DIS)	23	22	22	23	23	24	
Carbonate As CO3	<2	<2	<2	<2			
Chloride (Cl)	11	12	2.6	2.3	5 UJ	6 UJ	
Magnesium (Mg) (DIS)	<5	<5	<5	<5	5	5	
Potassium (K) (DIS)	<5	<5	<5	<5	3	3	
Sodium (Na) (DIS)	58	57	14	15	21	21	
Sulfate (SO4)	138	137	34	35	57	54	
Total Alkalinity As CaCO3	52	52	60	61	56	56	
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)	0.4	0.4	0.3	0.3	0.273	0.268	
Arsenic III (dis)	0.3	0.3	0.006	0.005	0.083 J	0.042 J	
Arsenic V (dis)	0.09	0.1	0.4	0.4	0.36	0.33	
Cadmium (Cd) (DIS)	0.002	0.002	0.001	0.001	0.001	0.001	
Copper (Cu) (DIS)	0.02	0.02	0.02	0.02	0.015	0.015	
Iron (Fe) (DIS)	<0.02	<0.02	<0.03	<0.03	<0.02	<0.02	
Lead (Pb) (DIS)	0.02	0.02	0.03	0.03	0.016	0.017	
Manganese (Mn) (DIS)	0.04	0.04	0.02	0.02	<0.01	<0.01	
Zinc (Zn) (DIS)	1.1	1.1	1	1	0.96	0.98	
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	6.06		7.32		5.42		
pH	7.4	7.3	7.8	7.8	7.3	7.2	
Depth To Water Level (ft)	12.9		13		12.94		
pH (Fld)	6.4		6.84		6.12		
SC (umhos/cm at 25 C) (Fld)	373		211		312		
SC (umhos/cm at 25 C)	452	447	221	221	229	228	
Total Suspended Solids	2.9	3.7	<1	<1	<10	<10	
TDS (Measured at 180 C)	294	292	133	155	172	164	
Salinity (G/KG) (Fld)	0.1		0.0		0.1		
Turbidity (NTU) (Fld)	1		1				
Water Temperature (C) (Fld)	8.4		13.2		10		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-5	DH-5	DH-5	DH-5	DH-5	DH-5
Water	SAMPLE DATE	10/29/2004	5/13/2005	11/18/2005	5/8/2006	11/15/2006	5/21/2007
	SAMPLE TIME	11:30	12:50	10:40	08:50	08:55	09:55
	LAB	ELI	ELI-Casper	ELI-Hel	ELI-Hel	ELI	ELI
	LAB NUMBER	H04110009-008	C05050527-009	H05110164-006	H06050082-001	H06110135-002	H07050232-003
	SAMPLE NUMBER	AEH-0411-165	AEH-0505-150	AEH-0511-213	AEH-0605-170	AEH-0611-184	AEH-0705-193
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	78	64	71	75	77	67
Calcium (Ca) (DIS)	25	25	22	26	22	18
Chloride (Cl)	4 UJ	4	8 UJ	5	4	2
Magnesium (Mg) (DIS)	5	5	5	5	4	4
Potassium (K) (DIS)	3	<5	2	3	3	2
Sodium (Na) (DIS)	21	20	15	29	24	7
Sulfate (SO4)	47	59	38	68	52 J	26
Total Alkalinity As CaCO3	64	52	58	62	63	55

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.383	0.293	0.418	0.502	0.49	0.198 UJ
Arsenic III (dis)	0.15 J	<0.005	<0.0003	<0.005	<0.005 J-	<0.005
Arsenic V (dis)	0.48 J	0.4	0.4	0.5	0.6 J-	0.212 J+
Cadmium (Cd) (DIS)	0.001	0.001	0.001	0.002	0.001	<0.001
Copper (Cu) (DIS)	0.018	0.018	0.017	0.019	0.021	0.016
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	0.023	0.018	0.02	0.017	0.019	0.012
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	0.93	1.06	0.91	1.04	0.99	0.84

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					149.8	
Oxygen (O) (DIS) (Fld)	5.41	7.16	4.9	5.72	6.08	6.12
pH	7.4	7.21	7.4	7	7.1	7.6
Depth To Water Level (ft)	12.95	12.88	13	12.78	12.89	12.99
pH (Fld)	7.07	7.44	6.73	6.11	6.97	6.88
SC (umhos/cm at 25 C) (Fld)	263	260	360	383	273	168
SC (umhos/cm at 25 C)	263	258	236	300	269	173
Total Suspended Solids	<10	<10	<10	<10	<10 J	<10
TDS (Measured at 180 C)	161 J	170	164	182	188	145
TDS - Calculated		165				
Water Temperature (C) (Fld)	12.3	7.6	11.01	8.28	10.6	8.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-5	DH-5	DH-5	DH-5	DH-50
Water	SAMPLE DATE	12/4/2007	5/7/2008	11/6/2008	5/13/2009	12/15/1999
	SAMPLE TIME	13:40	16:15	11:54	12:00	14:05
	LAB	ELI	ELI	ELI	ELI	TSC-SLC
	LAB NUMBER	H07120019-005	H08050154-002	H08110088-007	H09050210-010	L992165020
	SAMPLE NUMBER	AEH-0711-191	AEH-0805-179	AEH-0811-186	AEH-0905-197	IMMW-9912-120
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		69	70	77	280
Bicarbonate (HCO3) (dis)	72				
Calcium (Ca) (DIS)	21	25	19	20	145
Carbonate As CO3					<1
Chloride (Cl)	2	3	2	2	114
Magnesium (Mg) (DIS)	4	5	4	4	38
Potassium (K) (DIS)	2	2	2	2	14
Sodium (Na) (DIS)	13	8	6	10	333
Sulfate (SO4)	37	30	24	33	827
Total Alkalinity As CaCO3	59	56	58	63	229

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005	<0.005		
Selenium-VI (DIS)	<0.005	<0.005	<0.005		
Aluminum (Al) (DIS)		<0.1	<0.1	<0.1	
Antimony (Sb) (DIS)		0.009	0.009	0.021	
Arsenic (As) (DIS)	0.329	0.199	0.194	0.213	13
Arsenic III (DIS)	0.0053	<0.005	<0.005		2.3
Arsenic V (DIS)	0.367	0.242	0.198		9
Barium (Ba) (DIS)		<0.1	<0.1	<0.1	
Beryllium (Be) (DIS)		<0.001	<0.001	<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.001	<0.001	<0.001	
Cobalt (Co) (DIS)		<0.01	<0.01	<0.0005 J	
Copper (Cu) (DIS)	0.015 UJ	0.016	0.016	0.018 UJ	<0.004
Gold (Au) (DIS)				<0.01	
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02 J
Lead (Pb) (DIS)	0.013	0.014	0.018	0.015	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	1.4
Mercury (Hg) (DIS)		<0.006	<0.006	<0.0001	
Nickel (Ni) (DIS)		<0.01	<0.01	<0.01	
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	0.002	
Silver (Ag) (DIS)		<0.005	<0.005	<0.005	
Tellurium (Te) (DIS)				<0.1	
Thallium (Tl) (DIS)		<0.002	0.002	0.001	
Vanadium (V) (DIS)		<0.01	<0.01	<0.01	
Zinc (Zn) (DIS)	0.88	1.03	0.87	0.84	0.3

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.35	7.4	6.06	8.82	2.4
pH	7.4	7.2	7.3	7.4	7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-5	DH-5	DH-5	DH-5	DH-50
Water	SAMPLE DATE	12/4/2007	5/7/2008	11/6/2008	5/13/2009	12/15/1999
	SAMPLE TIME	13:40	16:15	11:54	12:00	14:05
	LAB	Hydrometrics		Hydrometrics	Hydrometrics	TSC-SLC
	LAB NUMBER	H07120019-005	H08050154-002	H08110088-007	H09050210-010	L992165020
	SAMPLE NUMBER	AEH-0711-191	AEH-0805-179	AEH-0811-186	AEH-0905-197	IMMW-9912-120
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

	DH-5	DH-5	DH-5	DH-5	DH-50
Depth To Water Level (ft)	13.03	13.02	13.1	12.89	31.1
Eh (millivolts)					407
pH (Fld)	6.89	6.92	6.59	6.88	6.6
SC (umhos/cm at 25 C) (Fld)	213	186	168	194	2290
SC (umhos/cm at 25 C)	223	186	170	201	2280
Total Suspended Solids	<10	<10	<10	<10	
TDS (Measured at 180 C)	139	126	114	140	1695
Turbidity (NTU) (Fld)					17.7
Water Temperature (C) (Fld)	9.12	6.2	11.22	7.1	10.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-50	DH-50	DH-50	DH-50	DH-50	DH-50
Water	SAMPLE DATE	4/25/2000	5/18/2000	5/18/2000	5/30/2000	6/6/2000	6/13/2000
	SAMPLE TIME	15:15	12:45	13:00	10:15	09:30	10:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000630001	L000759008	L000759009	L000825001	L000882001	L000910001
	SAMPLE NUMBER	IMMW-0004-120	EHST-0005-117	EHST-0005-118	EHST-0005-120	EHST-0006-100	EHST-0006-200
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	339
Calcium (Ca) (DIS)	126
Carbonate As CO3	<1
Chloride (Cl)	138
Magnesium (Mg) (DIS)	35
Potassium (K) (DIS)	14
Sodium (Na) (DIS)	408
Sulfate (SO4)	874
Total Alkalinity As CaCO3	278

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	11	12	12	12	11	11
Arsenic III (dis)	1.4				1.5 J	
Arsenic V (dis)	9.1				12	
Cadmium (Cd) (DIS)	0.002	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.01					
Iron (Fe) (DIS)	1.2	<0.05	<0.05	<0.02	<0.05	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005 J	<0.005
Manganese (Mn) (DIS)	2.6	2.2	2.3	2.2	2.2	2.1
Zinc (Zn) (DIS)	0.3	0.5	0.5	0.5	0.5	0.5

**Physical/Fid-Lab: ppm unless noted**

Iron (Fe) (Fid)		0.01		0.0	<0.01	0.02
Iron (Fe+2) (Fid)		0.01		0.0	<0.01	<0.01
Oxygen (O) (DIS) (Fid)	5.6	1	1	1.3	0.7	0.9
pH	6.8					
Depth To Water Level (ft)	33.7	33.7		33.6	33.4	33.1
Eh (millivolts)	453	331	329	367	413	435
pH (Fid)	6.8	6.8	6.8	6.5	6.4	6.4
SC (umhos/cm at 25 C) (Fid)	2550	2540	2540	2690	2620	2820
SC (umhos/cm at 25 C)	2390					
TDS (Measured at 180 C)	1688					
Turbidity (NTU) (Fid)	186.3					
Water Temperature (C) (Fid)	12.5	13.9	13.9	12.4	13.3	12.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-50	DH-50	DH-50	DH-50	DH-50	DH-50
Water	SAMPLE DATE	6/21/2000	6/29/2000	7/13/2000	7/24/2000	8/3/2000	8/16/2000
	SAMPLE TIME	10:45	09:45	09:40	11:45	09:00	10:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000964003	L001003001	L001116001	L001190001	L001239002	L001333002
	SAMPLE NUMBER	EHST-0006-302	EHST-0006-400	EHST-0007-100	EHST-0007-200	EHST-0008-101	EHST-0008-201
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	207					92
Calcium (Ca) (DIS)	113					107
Carbonate As CO3	<1					<1
Chloride (Cl)	162					150
Magnesium (Mg) (DIS)	31					27
Potassium (K) (DIS)	11					10
Sodium (Na) (DIS)	382					340
Sulfate (SO4)	836					908 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	11	9.1	7.8	7.6	7.8	7.8
Arsenic III (dis)	1.2	0.4	0.01 UJ	0.009 U	0.02 U	<0.02
Arsenic V (dis)	10	8.2	7.5	7.6	8.7 J	7.9
Cadmium (Cd) (DIS)	<0.001				<0.001	
Iron (Fe) (DIS)	<0.03				0.04 U	
Lead (Pb) (DIS)	<0.005				<0.005	
Manganese (Mn) (DIS)	2				0.7	
Zinc (Zn) (DIS)	0.4				0.2	

**Physical/Fid-Lab: ppm unless noted**

Iron (Fe) (Fid)	<0.01	<0.01	<0.01	0.02		0.01
Iron (Fe+2) (Fid)	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Oxygen (O) (DIS) (Fid)	1.5	2.1	3.8	3.2	3.4	2.8
pH	7.3				7.2	
Depth To Water Level (ft)	32.6	32.4	32.3	32.4	32.3	32.5
Eh (millivolts)	436	408	401	390	412	433
pH (Fid)	6.5	6.5	6.5	6.5	6.8	6.4
SC (umhos/cm at 25 C) (Fid)	2510	2610	2410	2440	2450	2040
SC (umhos/cm at 25 C)	2500				2330	
Water Temperature (C) (Fid)	13.3	14.5	13.9	14.1	13.2	13.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-50	DH-50	DH-50	DH-50	DH-50	DH-50
Water	SAMPLE DATE	8/31/2000	9/13/2000	10/3/2000	11/3/2000	11/15/2000	12/20/2000
	SAMPLE TIME	10:00	11:10	10:50	12:05	11:10	10:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001441002	L001513002	L001649002	L001861003	L001922019	L002044003
	SAMPLE NUMBER	EHST-0008-301	EHST-0009-101	EHST-0010-101	EHST-0011-102	IMMW-0011-120	EHST-0012-102
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)					226	244
Calcium (Ca) (DIS)					104	97
Carbonate As CO3					<1	<1
Chloride (Cl)					101	189
Magnesium (Mg) (DIS)					26	25
Potassium (K) (DIS)					12	12
Sodium (Na) (DIS)					456	492
Sulfate (SO4)					885	1014
Total Alkalinity As CACO3					185	200

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)					<0.03	
Arsenic (As) (DIS)	8.5	12	14	15	14	15
Arsenic III (dis)	0.08 U	<0.02	<0.02	0.2	0.03	0.07 U
Arsenic V (dis)	8.6	11	13	52 R	14	15
Cadmium (Cd) (DIS)					0.001	0.001
Copper (Cu) (DIS)					0.02	0.008
Iron (Fe) (DIS)					<0.02 J	0.1
Lead (Pb) (DIS)					0.008	<0.005
Manganese (Mn) (DIS)					1.4	1.3
Zinc (Zn) (DIS)					0.3	0.3

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)	0.01		0.01	<0.01		
Iron (Fe+2) (Fld)	<0.01		0.03			0.01
Oxygen (O) (DIS) (Fld)	2.2	2	0.8	0.7	1	1.2
pH					7.2	7.6
Silicon+Silica (Si+SiO2)					25	
Depth To Water Level (ft)	32.8	33.1	33.6	33.1	33.2	34.05
Eh (millivolts)	333	379		382	74.1	421
pH (Fld)	6.9	7.2	6.4	6.8	6.9	6.9
SC (umhos/cm at 25 C) (Fld)	2360	2500	2260	2580	1928	2890
SC (umhos/cm at 25 C)					2660	2720
TDS (Measured at 180 C)					1966	1930
Water Temperature (C) (Fld)	12.9	13	12.3	12.5	11.4	12.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-50	DH-50	DH-50	DH-50	DH-50	DH-50
Water	SAMPLE DATE	2/7/2001	2/7/2001	5/1/2001	9/26/2001	10/19/2001	11/2/2001
	SAMPLE TIME	11:25	11:35	14:30	09:35	11:50	10:07
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	HYDRO	HYDRO
	LAB NUMBER	L010183005	L010183006	L010608017	L011367001	FIELD ONLY	FIELD ONLY
	SAMPLE NUMBER	EHST-0102-104	EHST-0102-105	EHC-0105-155	EHST-0109-100	EHST-0110-110	EHST-0111-111
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)			237	183
Calcium (Ca) (DIS)			93	
Carbonate As CO3			<1	<1
Chloride (Cl)			199	
Magnesium (Mg) (DIS)			24	
Potassium (K) (DIS)			13	
Sodium (Na) (DIS)			434	
Sulfate (SO4)			973	727
Total Alkalinity As CaCO3			194	150

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			0.07	
Arsenic (As) (DIS)	16	17	17	10
Arsenic III (dis)	<0.02	<0.02	19	4.3
Arsenic V (dis)	16	16	<0.005	5.7
Cadmium (Cd) (DIS)			<0.001	<0.001
Copper (Cu) (DIS)			0.03	
Iron (Fe) (DIS)	<0.1	<0.1	<0.05	<0.02
Lead (Pb) (DIS)			<0.005	0.007
Manganese (Mn) (DIS)			0.8	0.4
Zinc (Zn) (DIS)			0.3	0.1

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)			<0.01	<0.01	<0.01
Iron (Fe+2) (Fld)			<0.01	<0.01	<0.01
Oxygen (O) (DIS) (Fld)	1.2		2.09	2.7	2
pH			8		
Silicon+Silica (Si+SiO2)			23		
Depth To Water Level (ft)	34.8		34.7	30.6	31.3
Eh (millivolts)	323		394	347	411
pH (Fld)	7.01		6.9	6.8	6.9
SC (umhos/cm at 25 C) (Fld)	2450		2280	2000	2030
SC (umhos/cm at 25 C)			2730		
Total Suspended Solids			85		
TDS (Measured at 180 C)			1990		
Water Temperature (C) (Fld)	12.2		12.3	12.5	12.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-50	DH-50	DH-50	DH-50	DH-50	DH-50
Water	SAMPLE DATE	11/8/2001	11/20/2001	12/7/2001	12/14/2001	12/19/2001	12/27/2001
	SAMPLE TIME	09:40	00:00	11:45	10:45	11:40	12:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011535018	L011587003	L011626003	L011652001	L011661003	L011677001
	SAMPLE NUMBER	EHC-0111-153	EHST-0111-202	EHST-0112-202	EHST-0112-300	EHST-0112-402	EHST-0112-500
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	145	142	120	134	129	134
Calcium (Ca) (DIS)	90					
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Chloride (Cl)	103					
Magnesium (Mg) (DIS)	23					
Potassium (K) (DIS)	10					
Sodium (Na) (DIS)	320					
Sulfate (SO4)	669 J	542	475	814	777	871
Total Alkalinity As CaCO3	119	116	98	110	106	110

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05					
Arsenic (As) (DIS)	8.8	12	11	15	16	15
Arsenic III (dis)	4.9	7	5.4		6.8	
Arsenic V (dis)	4.5	5	6.6		9.2	
Cadmium (Cd) (DIS)	<0.001		<0.001		<0.001	
Copper (Cu) (DIS)	<0.004					
Iron (Fe) (DIS)	<0.02		<0.02	0.04	<0.02	<0.02
Lead (Pb) (DIS)	<0.005		<0.005		<0.005	
Manganese (Mn) (DIS)	0.2		0.3		0.5	
Zinc (Zn) (DIS)	0.09		0.1		0.2	

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)		<0.01				
Iron (Fe+2) (Fld)		<0.01		<0.01		
Oxidation Reduction Potential	182.2					
Oxygen (O) (DIS) (Fld)	2.5	1.6	2.5	0.6	0.4	0.4
pH	7.6					
Silicon+Silica (Si+SiO2)	24					
Depth To Water Level (ft)	31.6	32.1	32.7	32.8	33	35.2
Eh (millivolts)	434					
pH (Fld)	7.4	6.6	6.9	6.8	6.7	6.8
SC (umhos/cm at 25 C) (Fld)	1796	2070	2180	2380	2350	2400
SC (umhos/cm at 25 C)	1849					
Total Suspended Solids	<1					
TDS (Measured at 180 C)	1323					
Water Temperature (C) (Fld)	12.3	12.9	12.7	12.4	12.7	12.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-50	DH-50	DH-50	DH-50	DH-50	DH-50
Water	SAMPLE DATE	1/11/2002	1/16/2002	1/23/2002	2/5/2002	2/19/2002	2/27/2002
	SAMPLE TIME	10:40	10:45	13:00	13:15	13:30	11:35
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020024003	L020027001	L020042010	L020075003	L020110003	L020142004
	SAMPLE NUMBER	EHST-0201-111	EHST-0201-200	EHST-0201-309	EHST-0202-402	EHST-0202-902	EHST-0202-203
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	146	165	142	149	159	166	
Carbonate As CO3	<1	<1	<1	<1	<1	<1	
Sulfate (SO4)	764	813	828	932	911	876	
Total Alkalinity As CaCO3	120	135	116	122	130	136	
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)	15	16	16	17	17	17	
Arsenic III (dis)	5.8		4.6	5.2	5.2		
Arsenic V (dis)	10		11	12	12		
Cadmium (Cd) (DIS)	0.002		<0.001	<0.001	<0.001		
Copper (Cu) (DIS)					0.01		
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	0.08	<0.02	
Lead (Pb) (DIS)	<0.005		<0.005	<0.005	<0.005		
Manganese (Mn) (DIS)	0.6		0.7	0.7	0.8		
Zinc (Zn) (DIS)	0.2		0.2	0.2	0.2		
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	0.4	0.5	0.6	1.1	1.6	0.9	
pH					7.3		
Depth To Water Level (ft)	33.6	33.7	33.9	34.3	34.7	34.9	
pH (Fld)	6.7	6.6	6.5	6.7	7	6.7	
SC (umhos/cm at 25 C) (Fld)	2440	2430	2420	2430	2540	2510	
SC (umhos/cm at 25 C)					2530		
Water Temperature (C) (Fld)	12.7	12.5	12.5	12.4	12.5	11.9	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-50	DH-50	DH-50	DH-50	DH-50	DH-50
Water	SAMPLE DATE	5/10/2002	5/30/2002	8/8/2002	9/26/2002	11/13/2002	6/2/2003
	SAMPLE TIME	00:00	12:10	16:30	15:25	12:30	09:30
	LAB	ASARCO	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	205111	L020398002	L020642002	L020829003	L020943008	L030245002
	SAMPLE NUMBER	EHST-0205-111	EHC-0205-158	EHST-0208-109	EHST-0209-602	EHC-0211-156	AEH-0306-164
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

### Common Ions (mg/L): ppm unless noted

Bicarbonate (HCO3)	139	92	92	92	188
Calcium (Ca) (DIS)	88			104	76
Carbonate As CO3	<1	<1	<1	<1	<2
Chloride (Cl)	212			135	132
Magnesium (Mg) (DIS)	21			26	21
Potassium (K) (DIS)	12			11	15
Sodium (Na) (DIS)	587			309	361
Sulfate (SO4)	996	581	609	704	781
Total Alkalinity As CaCO3	114	75	75	75	154

### Metals (mg/L): ppm unless noted

Aluminum (Al) (DIS)	<0.05			<0.05	
Arsenic (As) (DIS)	18	8.6	8.9	7.7	14
Arsenic III (dis)	2.4	6.3	9.9	4.2	15
Arsenic V (dis)	17	2.2	<0.005	3.2	<0.005
Cadmium (Cd) (DIS)	0.003			<0.001	<0.001
Copper (Cu) (DIS)	0.008			0.006	0.007 J
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005			<0.005	<0.005
Manganese (Mn) (DIS)	0.2			<0.02	<0.02
Zinc (Zn) (DIS)	0.2			0.05	0.1

### Physical/Fld-Lab: ppm unless noted

Oxidation Reduction Potential	18.5				
Oxygen (O) (DIS) (Fld)	2.5	7.7	4.6	3.9	2.6
pH	6.9			7.2	7.3
Silicon+Silica (Si+SiO2)	27			21	
Depth To Water Level (ft)	35.6	35.6	30.5	30.7	32.04
pH (Fld)	6.8	7.2	6.7	6.1	6.5
SC (umhos/cm at 25 C) (Fld)	2600	1587	1769	1852	2150
SC (umhos/cm at 25 C)	2610			1973	2220
Total Suspended Solids	2.5 J			1.6	5.7
TDS (Measured at 180 C)	1890			1402	1536
Salinity (G/KG) (Fld)					1
Turbidity (NTU) (Fld)					9
Water Temperature (C) (Fld)	12.2	12	12.1	12.4	11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-50	DH-50	DH-50	DH-50	DH-50	DH-50
Water	SAMPLE DATE	10/29/2003	5/20/2004	11/3/2004	5/16/2005	11/17/2005	5/9/2006
	SAMPLE TIME	14:50	10:00	09:05	13:15	09:50	13:40
	LAB	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel
	LAB NUMBER	L030605008	H04050133-002	H04110037-002	C05050640-007	H05110153-005	H06050103-009
	SAMPLE NUMBER	AEH-0310-430	AEH-0405-125	AEH-0411-204	AEH-0505-163	AEH-0511-197	AEH-0605-196
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	151	200	170	205	210	220
Calcium (Ca) (DIS)	83	91	78	92	77	71 J+
Carbonate As CO3	<2					
Chloride (Cl)	93	99	70	70	53	65
Magnesium (Mg) (DIS)	21	22	19	23	19	17 J-
Potassium (K) (DIS)	11	13	10	12	13	11
Sodium (Na) (DIS)	258	328	231	283	208	260
Sulfate (SO4)	580	770	489	638	433	458
Total Alkalinity As CaCO3	124	160	140	168	180	180

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	8.2	8.705	8.48	9.84	5.548	9.95
Arsenic III (dis)	0.4	<0.006 J	<0.06	<0.005	0.02 UJ	<0.06 J
Arsenic V (dis)	7.6	14 J	6.5	11.1	7.7	10.4
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.006	0.004	<0.004	0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.03	0.41	<0.02	<0.02	0.05	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	0.01	<0.02	0.03	<0.02	0.08
Zinc (Zn) (DIS)	0.06	0.16	0.08	0.16	0.06	0.15

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.71	0.27	3.93	0.62	3.9	0.93
pH	7.8	7.2	7.1	7.39	7	7.1
Depth To Water Level (ft)	31.9	33.51	30.09	34.29	31.03	33.45
pH (Fld)	6.45	6.28	6.83	7.39	6.81	6.57
SC (umhos/cm at 25 C) (Fld)	1690	2110	1643	1880	1473	1510
SC (umhos/cm at 25 C)	1769	2260	1350	1850	1400	1390
Total Suspended Solids	9.9	<10	13	<10	<10 J	<10
TDS (Measured at 180 C)	1224	1440	1130	1290	991	1020
TDS - Calculated				1240		
Salinity (G/KG) (Fld)	0.7	1				
Turbidity (NTU) (Fld)	7	0.0				
Water Temperature (C) (Fld)	12.1	12.4	12.3	13	13.21	12.82

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-50	DH-50	DH-50	DH-50	DH-50	DH-50
Water	SAMPLE DATE	11/10/2006	5/14/2007	11/28/2007	5/12/2008	11/12/2008	5/15/2009
	SAMPLE TIME	09:30	13:35	11:50	16:00	11:41	14:15
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110088-001	H07050154-007	H07110218-007	H08050222-006	H08110140-006	H09050242-008
	SAMPLE NUMBER	AEH-0611-144	AEH-0705-150	AEH-0711-174	AEH-0805-218	AEH-0811-228	AEH-0905-234
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		o Fld Para-Unstable				
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	280	250		240	270	230
Bicarbonate (HCO3) (dis)			270			
Calcium (Ca) (DIS)	82	69	70	55	72	50
Chloride (Cl)	57	47	55	38	59	31
Magnesium (Mg) (DIS)	20	16	17	13	17	12
Potassium (K) (DIS)	11	10	10	9	9	9
Sodium (Na) (DIS)	243	245	214	207	177	178
Sulfate (SO4)	410	436	409	380	310	320
Total Alkalinity As CaCO3	230	210	220	190	220	190

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)			<0.005	0.0089 J+	<0.005	
Selenium-VI (dis)			0.0209	<0.005	0.022	
Aluminum (Al) (DIS)				<0.1	<0.1	<0.1
Antimony (Sb) (DIS)				<0.005	<0.005	<0.003
Arsenic (As) (DIS)	7.735	8.645	8.475	7.88	5.59	7.1
Arsenic III (DIS)	<0.06 J	<0.005 J-	0.25 J-	<0.005	0.313	
Arsenic V (DIS)	9.6	9.41 J+	8.98	9.54	6.24	
Barium (Ba) (DIS)				<0.1	<0.1	<0.1
Beryllium (Be) (DIS)				<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)				<0.001	<0.001	<0.001
Cobalt (Co) (DIS)				<0.01	<0.01	0.0008 UJ
Copper (Cu) (DIS)	<0.004	0.005	<0.004	<0.004	0.005 UJ	0.003
Gold (Au) (DIS)						<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.01	0.09	0.08	0.06	<0.01	<0.01
Mercury (Hg) (DIS)				<0.006	<0.006	0.0002
Nickel (Ni) (DIS)				<0.01	<0.01	<0.01
Selenium (Se) (DIS)			0.027	0.014	0.027	0.027
Silver (Ag) (DIS)				<0.005	<0.005	<0.005 J
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)				<0.002	<0.002	<0.001
Vanadium (V) (DIS)				0.02	0.01	0.02
Zinc (Zn) (DIS)	0.09	0.16	0.11	0.07	0.06	0.11 UJ

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	26.7					
Oxygen (O) (DIS) (Fld)	4		1.98	1.25	2.78	2.15
pH	7.2	7.2	6.9	6.9	7.3	7.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-50	DH-50	DH-50	DH-50	DH-50	DH-50
Water	SAMPLE DATE	11/10/2006	5/14/2007	11/28/2007	5/12/2008	11/12/2008	5/15/2009
	SAMPLE TIME	09:30	13:35	11:50	16:00	11:41	14:15
	LAB	Hydrometrics	Hydrometrics	Hydrometrics		Hydrometrics	Hydrometrics
	LAB NUMBER	H06110088-001	H07050154-007	H07110218-007	H08050222-006	H08110140-006	H09050242-008
	SAMPLE NUMBER	AEH-0611-144	AEH-0705-150	AEH-0711-174	AEH-0805-218	AEH-0811-228	AEH-0905-234
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		o Fld Para-Unstable				
	REMARKS						

**Physical/Fld-Lab: ppm unless noted**

	DH-50	DH-50	DH-50	DH-50	DH-50	DH-50
Depth To Water Level (ft)	30.89	34.52	31.79	35.74	31.92	35.33
pH (Fld)	6.73		6.97	6.71	6.61	6.85
SC (umhos/cm at 25 C) (Fld)	2073		1345	1286	1220	1136
SC (umhos/cm at 25 C)	1460	1450	1390	1230	1220	1140
Total Suspended Solids	48	14	<10	<10 J	<10	<10
TDS (Measured at 180 C)	1030	1020	967	867	803	758
Water Temperature (C) (Fld)	9.08		12.53	12.4	12.43	12.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-51	DH-51	DH-51	DH-51	DH-51	DH-51
Water	SAMPLE DATE	12/15/1999	12/15/1999	4/25/2000	6/21/2000	11/15/2000	5/1/2001
	SAMPLE TIME	13:30	13:45	14:35	10:15	10:50	14:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L992165021	L992165025	L000630002	L000964002	L001922020	L010608018
	SAMPLE NUMBER	IMMW-9912-121	IMMW-9912-125	IMMW-0004-121	EHST-0006-301	IMMW-0011-121	EHC-0105-156
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

	DH-51	DH-51	DH-51	DH-51	DH-51	DH-51
Bicarbonate (HCO3)	185	184	155	151	150	159
Calcium (Ca) (DIS)	251	236	160	155	153	159
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Chloride (Cl)	166	150	114	114	105	118
Magnesium (Mg) (DIS)	56	57	36	35	33	35
Potassium (K) (DIS)	14	15	13	12	12	12
Sodium (Na) (DIS)	194	199	203	185	198	174
Sulfate (SO4)	821	720	726	725	664	745
Total Alkalinity As CaCO3	152	151	127		123	130

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)					<0.01	<0.05
Arsenic (As) (DIS)	0.2	0.2	0.5	0.7	0.8	1
Arsenic III (dis)	<0.005	0.01 U	0.006 U	0.02 U	<0.03	1
Arsenic V (dis)	0.2	0.2	0.6	0.6	0.8	<0.005
Cadmium (Cd) (DIS)	<0.001	0.001	0.003	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.005	0.006	0.008		0.008	0.02
Iron (Fe) (DIS)	0.06 J	<0.02 J	0.04	<0.03	0.2 UJ	<0.05
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.8	0.8	2.1	1.5	1.4	1.6
Zinc (Zn) (DIS)	0.03	0.03	0.04	0.03	0.03	0.03

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)				<0.01		
Iron (Fe+2) (Fld)				<0.01		
Oxygen (O) (DIS) (Fld)	4	4	5.3	1.9	3.1	3
pH	7.3	7.3	7.6	7.2	7.2	8.1
Silicon+Silica (Si+SiO2)					24	24
Depth To Water Level (ft)	29.8	29.8	32.4	31.6	32	33.4
Eh (millivolts)	380	383	441	426	112.8	340
pH (Fld)	6.7	6.7	7	6.4	6.9	7.05
SC (umhos/cm at 25 C) (Fld)	2280	2240	1975	1761	1313	1649
SC (umhos/cm at 25 C)	2270	2280	1914	1843	1805	1889
Total Suspended Solids						342
TDS (Measured at 180 C)	1799	1773	1397		1351	1431
Turbidity (NTU) (Fld)	18.4	18.6	183.2			
Water Temperature (C) (Fld)	11.1	11.1	12.2	12.7	11.2	11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-51	DH-51	DH-51	DH-51	DH-51	DH-51
Water	SAMPLE DATE	11/8/2001	5/30/2002	11/13/2002	6/2/2003	10/29/2003	5/20/2004
	SAMPLE TIME	09:15	11:45	15:15	09:15	14:35	11:55
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI
	LAB NUMBER	L011539001	L020398003	L020943012	L030245001	L030605007	H04050133-009
	SAMPLE NUMBER	EHC-0111-154	EHC-0205-159	EHC-0211-157	AEH-0306-163	AEH-0310-429	AEH-0405-132
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	172	168	171	176	173	190
Calcium (Ca) (DIS)	209	214	234	191	215	221
Carbonate As CO3	<1	<1	<1	<2	<2	
Chloride (Cl)	166	145	155	123	118	100
Magnesium (Mg) (DIS)	46	46	49	43	46	44
Potassium (K) (DIS)	14	15	16	15	16	16
Sodium (Na) (DIS)	230	256	228	215	208	209
Sulfate (SO4)	662 J	887	997	880	917	910
Total Alkalinity As CaCO3	141	138	140	144	142	150

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05	<0.05			
Arsenic (As) (DIS)	0.7	0.9	0.7	0.8	0.8	0.783
Arsenic III (dis)	0.3	0.3	0.2	0.9	0.005	<0.006 J
Arsenic V (dis)	0.4	0.6	0.5	<0.005	0.8	1.2 J
Cadmium (Cd) (DIS)	0.002 U	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.005	0.006	0.007	0.009 J	0.005	0.005
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.03	0.46
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	1.2	2.3	1.3	1.6	1.2	1.26
Zinc (Zn) (DIS)	0.03	0.02	<0.02	<0.02	<0.05	0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	204.1	21.1				
Oxygen (O) (DIS) (Fld)	1.7	1.2	1.1	0.0	0.78	0.21
pH	7.3	6.8	7	7	7.9	7.1
Silicon+Silica (Si+SiO2)	27	24	25			
Depth To Water Level (ft)	30.6	34.3		31.7	30.81	32.24
Eh (millivolts)	456					
pH (Fld)	7.5	6.8	6.4	6.3	6.27	6.21
SC (umhos/cm at 25 C) (Fld)	2100	2170	2230	2080	2140	2160
SC (umhos/cm at 25 C)	2100	2170	2280	2160	2180	2230
Total Suspended Solids	100	532	15	55	30	51
TDS (Measured at 180 C)	1595	1698	1768	1659	1660	1660
Salinity (G/KG) (Fld)				0.9	1	1.6
Turbidity (NTU) (Fld)				7	32	10
Water Temperature (C) (Fld)	11.5	12.1	11.6	11.5	11.5	12.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-51	DH-51	DH-51	DH-51	DH-51	DH-51
Water	SAMPLE DATE	11/3/2004	11/3/2004	5/16/2005	11/16/2005	5/9/2006	11/10/2006
	SAMPLE TIME	09:20	09:45	10:15	13:20	09:40	11:40
	LAB	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel	ELI
	LAB NUMBER	H04110037-003	H04110037-004	C05050640-001	H05110136-013	H06050103-002	H06110088-008
	SAMPLE NUMBER	AEH-0411-205	AEH-0411-206	AEH-0505-157	AEH-0511-185	AEH-0605-189	AEH-0611-151
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	200	200	189	210	190	220
Calcium (Ca) (DIS)	220	221	212	185	166 J+	152
Chloride (Cl)	90	90	78	84	57	52
Magnesium (Mg) (DIS)	47	46	43	40	34 J-	31
Potassium (K) (DIS)	15	15	14	13 J-	13	13
Sodium (Na) (DIS)	190	192	203	189 J-	196	182
Sulfate (SO4)	735	808	852	785	660	545
Total Alkalinity As CaCO3	170	160	155	180	160	180

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.533	0.539	0.712	0.526	0.7	0.64
Arsenic III (dis)	<0.003	<0.003	<0.005	0.009 UJ	<0.005 J	0.1 J
Arsenic V (dis)	0.41	0.42	0.7	0.6	0.8	0.8
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	0.004	<0.004	0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	0.1	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.64	0.65	0.77	0.12	0.34	0.13
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential						45.4
Oxygen (O) (DIS) (Fld)	2.86		0.93	2.57	1.27	1.39
pH	7.5	7.4	7.17	6.9	7.1	7.1
Depth To Water Level (ft)	28.91		33.01	29.94	32.31	29.82
pH (Fld)	6.66		6.18	6.74	6.45	6.65
SC (umhos/cm at 25 C) (Fld)	2146		1868	1974	1810	1613
SC (umhos/cm at 25 C)	1680	1720	2090	1800	1720	1530
Total Suspended Solids	12	11	20	<10 J	<10	14
TDS (Measured at 180 C)	1560	1600	1650	1430	1350	1180
TDS - Calculated			1520			
Water Temperature (C) (Fld)	11.5		11.8	12.36	12.11	11.68

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-51	DH-51	DH-51	DH-51	DH-51	DH-51
Water	SAMPLE DATE	5/14/2007	11/28/2007	11/28/2007	5/9/2008	11/10/2008	5/13/2009
	SAMPLE TIME	13:00	10:30	10:45	08:50	12:50	08:55
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07050154-006	H07110218-003	H07110218-004	H08050176-001	H08110106-008	H09050210-002
	SAMPLE NUMBER	AEH-0705-149	AEH-0711-170	AEH-0711-171	AEH-0805-193	AEH-0811-202	AEH-0905-189
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	200			200	220	200
Bicarbonate (HCO3) (dis)		200	210			
Calcium (Ca) (DIS)	143	127	132	129	128	115
Chloride (Cl)	47	50	50	38	40	29
Magnesium (Mg) (DIS)	29	26	27	25	27	23
Potassium (K) (DIS)	13	10	11	12	11	11
Sodium (Na) (DIS)	178	152	161	161	147	151
Sulfate (SO4)	546	522	520	510	550	500
Total Alkalinity As CaCO3	160	170	170	160	180	170

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)		<0.005	<0.005	<0.005	<0.005	
Selenium-VI (dis)		0.0465	0.0461	0.0398	0.046	
Aluminum (Al) (DIS)				<0.1	<0.1	<0.1
Antimony (Sb) (DIS)				<0.005	<0.005	<0.003
Arsenic (As) (DIS)	0.726	0.65	0.66	0.839	0.566	0.846
Arsenic III (DIS)	<0.005 J-	0.0203 J-	0.0185 J-	<0.005	0.0352 J	
Arsenic V (DIS)	0.85 J+	0.752	0.75	1.02	0.742 J	
Barium (Ba) (DIS)				<0.1	<0.1	<0.1
Beryllium (Be) (DIS)				<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)				<0.001	<0.001	<0.001
Cobalt (Co) (DIS)				<0.01	<0.01	0.0017 J
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.003 UJ
Gold (Au) (DIS)						<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.3	0.12	0.13	0.15	0.06	0.19
Mercury (Hg) (DIS)				<0.006	<0.006	<0.0001
Nickel (Ni) (DIS)				<0.01	<0.01	<0.01
Selenium (Se) (DIS)		0.056	0.055	0.052	0.058	0.057
Silver (Ag) (DIS)				<0.005	<0.005	<0.005
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)				<0.002	<0.002	<0.001
Vanadium (V) (DIS)				<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	0.02	<0.02	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.56	1.97		1.14	3.47	1.32
pH	7.1	6.7	6.8	6.8	7.2	7
Depth To Water Level (ft)	33.35	30.71		34.52	30.85	17.97

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-51	DH-51	DH-51	DH-51	DH-51	DH-51
Water	SAMPLE DATE	5/14/2007	11/28/2007	11/28/2007	5/9/2008	11/10/2008	5/13/2009
	SAMPLE TIME	13:00	10:30	10:45	08:50	12:50	08:55
	LAB	Hydrometrics	Hydrometrics	ELI	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H07050154-006	H07110218-003	H07110218-004	H08050176-001	H08110106-008	H09050210-002
	SAMPLE NUMBER	AEH-0705-149	AEH-0711-170	AEH-0711-171	AEH-0805-193	AEH-0811-202	AEH-0905-189
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			

**Physical/Fld-Lab: ppm unless noted**

	DH-51	DH-51	DH-51	DH-51	DH-51	DH-51
pH (Fld)	6.76	6.96			6.89	6.68
SC (umhos/cm at 25 C) (Fld)	1597	1418			1458	1489
SC (umhos/cm at 25 C)	1500	1450	1450		1390	1510
Total Suspended Solids	10	<10	<10		21	<10
TDS (Measured at 180 C)	1160	1100	1120		1040	1080
Water Temperature (C) (Fld)	11.49	11.38			11.9	11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-52	DH-52	DH-52	DH-52	DH-52	DH-52
Water	SAMPLE DATE	12/15/1999	4/25/2000	11/15/2000	5/1/2001	11/6/2001	5/29/2002
	SAMPLE TIME	12:30	13:00	10:15	12:20	15:30	14:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L992165022	L000631025	L001922021	L010608019	L011539002	L020397001
	SAMPLE NUMBER	IMMW-9912-122	IMMW-0004-122	IMMW-0011-122	EHC-0105-157	EHC-0111-155	EHC-0205-160
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	159	149	174	151	128	173
Calcium (Ca) (DIS)	36	34	92	98	121	128
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Chloride (Cl)	23	31	20	76	84 J	74
Magnesium (Mg) (DIS)	5.2	<5	13	14	19	19
Potassium (K) (DIS)	111	107	161	158	170	168
Sodium (Na) (DIS)	129	109	168	159	195	233
Sulfate (SO4)	348	304	641	663	598	794
Total Alkalinity As CaCO3	130	122	143	124	105	142

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.01	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	3.3	2.5	1.4	1.3	1.3	1.3
Arsenic III (dis)	0.006 U	0.01 U	<0.03	0.9	0.6	0.6
Arsenic V (dis)	2.9	2.5	1.3	0.5	0.8	0.8
Beryllium (Be) (DIS)					<0.001	
Cadmium (Cd) (DIS)	<0.001	0.002	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	0.005	0.005	0.005	<0.004	0.005
Iron (Fe) (DIS)	0.04 J	0.05	0.08 UJ	<0.05	0.03	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.8	0.7	2	2.5	2.3	2.6
Mercury (Hg) (DIS)					<0.0006	
Selenium (Se) (DIS)					0.2	
Silver (Ag) (DIS)					<0.003	
Thallium (Tl) (DIS)					<0.003	
Zinc (Zn) (DIS)	<0.02	0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential					315.5	25.2
Oxygen (O) (DIS) (Fid)	1.3	2.5	1.7	1.6	0.2	0.2
pH	7.9	8	7.8	8.3	7.5	7.6
Silicon+Silica (Si+SiO2)			18	16	18	16
Depth To Water Level (ft)	4.9	5.8	5.4	4.5	6.8	5.9
Eh (millivolts)	375	444	109.8	407	536	
pH (Fid)	7.7	7.5	7.2	7.1	7.6	7.4
SC (umhos/cm at 25 C) (Fid)	1270	1003	1288	1494	1832	2080
SC (umhos/cm at 25 C)	1166	977	1713	1866	1961	2090
Total Suspended Solids				52	62	121

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-52	DH-52	DH-52	DH-52	DH-52	DH-52
Water	SAMPLE DATE	12/15/1999	4/25/2000	11/15/2000	5/1/2001	11/6/2001	5/29/2002
	SAMPLE TIME	12:30	13:00	10:15	12:20	15:30	14:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L992165022	L000631025	L001922021	L010608019	L011539002	L020397001
	SAMPLE NUMBER	IMMW-9912-122	IMMW-0004-122	IMMW-0011-122	EHC-0105-157	EHC-0111-155	EHC-0205-160
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Physical/Fld-Lab: ppm unless noted</b>							
	TDS (Measured at 180 C)	801	651	1254	1370	1423	1545
	Turbidity (NTU) (Fld)	18	15.9				
	Water Temperature (C) (Fld)	8.1	9.5	10.2	8.2	11.2	8.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-52	DH-52	DH-52	DH-52	DH-52	DH-52
Water	SAMPLE DATE	11/16/2002	6/3/2003	10/27/2003	5/24/2004	11/2/2004	5/12/2005
	SAMPLE TIME	11:45	08:20	09:45	13:25	09:45	10:25
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper
	LAB NUMBER	L020956007	L030245017	L030601003	H04050162-005	H04110029-003	C05050485-004
	SAMPLE NUMBER	EHC-0211-158	AEH-0306-180	AEH-0310-383	AEH-0405-154	AEH-0411-187	AEH-0505-130
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	157	168	156	140	130	150
Calcium (Ca) (DIS)	144	93	73	24	60	32
Carbonate As CO3	<1	<2	<2			
Chloride (Cl)	80	61	32	14 J	20	13
Magnesium (Mg) (DIS)	22	17	12	3	9	5
Potassium (K) (DIS)	182	156	130	69	81	74
Sodium (Na) (DIS)	242	198	176	94	118	103
Sulfate (SO4)	989	700	592	250	446	244
Total Alkalinity As CaCO3	129	138	128	110	100	123

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05					
Arsenic (As) (DIS)	1.4	1.5	1.8	2.032	1.432	1.86
Arsenic III (dis)	0.6	1.5	2	<0.001	<0.0063	<0.005
Arsenic V (dis)	0.8	<0.005	<0.005	3.3	1.4	1.8
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.006	0.007	0.006	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.03	<0.02	<0.02	0.02 J	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.4	1.6	1	0.01	<0.01	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.05	<0.01	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.1	0.1	0.0	2.77	1.84	0.13
pH	7.5	7.4	8.1	7.7	7.7	7.87
Silicon+Silica (Si+SiO2)	16					
Depth To Water Level (ft)	6.3	3.9	5.5	4.68	4.54	5.07
pH (Fld)	6.6	6.5	6.81	6.74	7.19	7.43
SC (umhos/cm at 25 C) (Fld)	2260	2100	1590	1010	1182	873
SC (umhos/cm at 25 C)	2300	1968	1619	687	999	853
Total Suspended Solids	224	12	67	63 J	27 J	33
TDS (Measured at 180 C)	1685	1408	1139	557	788	566
TDS - Calculated						560
Salinity (G/KG) (Fld)	1	0.9	0.7	0.4		
Turbidity (NTU) (Fld)	312	1	9			
Water Temperature (C) (Fld)	9.2	8.9	10.9	10.1	9.1	8.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-52	DH-52	DH-52	DH-52	DH-52	DH-52
Water	SAMPLE DATE	11/17/2005	5/8/2006	11/14/2006	5/23/2007	5/23/2007	7/27/2007
	SAMPLE TIME	12:00	10:25	15:20	14:00	14:00	16:00
	LAB	ELI-Hel	ELI-Hel	ELI	EPA-R8	ELI	ELI
	LAB NUMBER	H05110153-010	H06050082-006	H06110122-006	8705007-27	H07050276-001	H07070291-012
	SAMPLE NUMBER	AEH-0511-202	AEH-0605-175	AEH-0611-181	AEH-0705-222	AEH-0705-222	AEH-0707-147
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION				AEH-0705-222-S	EPA Split	
	REMARKS				Split		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	140	180	210		170	220
Calcium (Ca) (DIS)	62	75	83		44	67
Chloride (Cl)	26	27	30		16	52
Magnesium (Mg) (DIS)	10	12	12		7	10
Potassium (K) (DIS)	94	87	110		78	104
Sodium (Na) (DIS)	137	159	184		114	171
Sulfate (SO4)	464	419	641		321	465
Total Alkalinity As CaCO3	120	150	170		140	180

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)					<0.005	
Selenium-VI (DIS)					0.0683	
Aluminum (Al) (DIS)				<0.1		
Antimony (Sb) (DIS)				0.0422		
Arsenic (As) (DIS)	1.422	1.274	1.323	0.945	1	1.303
Arsenic III (dis)	<0.0003	<0.07	<0.03 J-		<0.0141 J	
Arsenic V (dis)	1.5	1.8	1.8 J-		1.1	
Barium (Ba) (DIS)				0.043		
Beryllium (Be) (DIS)				<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.0002	<0.001	<0.001
Chromium (Cr) (DIS)				<0.002		
Cobalt (Co) (DIS)				<0.002		
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.01	<0.004	<0.004
Iron (Fe) (DIS)	0.03	0.03 UJ	<0.02	<0.1	<0.02	0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	0.03	0.07	0.041	0.04	0.03
Mercury (Hg) (DIS)				<0.0001		
Nickel (Ni) (DIS)				0.002		
Selenium (Se) (DIS)				0.0858	0.08	0.109
Silver (Ag) (DIS)				<0.0005		
Thallium (Tl) (DIS)				0.0008		
Tin (Sn) (DIS)				<0.2		
Vanadium (V) (DIS)				<0.01		
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.04	<0.01	<0.01

**Nutrients: ppm unless noted**

Total Organic Carbon					1	
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**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential			67			
Oxygen (O) (DIS) (Fld)	1.35	1.07	0.12		0.26	0.18
pH	7.4	7.5	7.6		7.9	7.8
Depth To Water Level (ft)	5.96	5.02	9.03		5.75	5.74

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-52	DH-52	DH-52	DH-52	DH-52
Water	SAMPLE DATE	11/17/2005	5/8/2006	11/14/2006	5/23/2007	7/27/2007
	SAMPLE TIME	12:00	10:25	15:20	14:00	16:00
	LAB	ASARCO	Hydro	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H05110153-010	H06050082-006	H06110122-006	H07050276-001	H07070291-012
	SAMPLE NUMBER	AEH-0511-202	AEH-0605-175	AEH-0611-181	AEH-0705-222	AEH-0707-147
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION				EPA Split	
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

pH (Fld)	6.94	7.1	7.24	7.26	7.38
SC (umhos/cm at 25 C) (Fld)	1443	1350	1670	1108	1423
SC (umhos/cm at 25 C)	1320	1310	1570	1040	1380
Total Suspended Solids	32 J	29	12	26	<10
TDS (Measured at 180 C)	944	945	1160	715	963
Water Temperature (C) (Fld)	10.5	8.45	9.41	9.2	12.56

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-52	DH-52	DH-52	DH-52	DH-52	DH-52
Water	SAMPLE DATE	11/28/2007	2/1/2008	5/9/2008	7/18/2008	11/6/2008	2/9/2009
	SAMPLE TIME	09:15	11:45	09:45	14:30	14:30	10:35
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07110218-001	H08020014-007	H08050176-003	H08070391-003	H08110092-003	H09020078-007
	SAMPLE NUMBER	AEH-0711-168	AEH-0801-146	AEH-0805-195	AEH-0807-176	AEH-0811-192	AEH-0902-168
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		160	140	210	180	170
Bicarbonate (HCO3) (dis)	190					
Calcium (Ca) (dis)	40	16	24	67	33	34
Chloride (Cl)	16	8	8	16	11	9
Magnesium (Mg) (dis)	6	2	4	10	5	6
Potassium (K) (dis)	78	47	55	97	60	69
Sodium (Na) (dis)	111	55	40	125	104	89
Sulfate (SO4)	270	83	100	450	300	260
Total Alkalinity As CaCO3	150	130	120	170	150	140

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)	<0.005		<0.005		<0.005	
Selenium-VI (dis)	0.042		0.0166		0.069	
Aluminum (Al) (DIS)			<0.1		<0.1	
Antimony (Sb) (DIS)			0.032		0.042	
Arsenic (As) (DIS)	1.09	1.31	0.682	0.778	1.28	0.991
Arsenic III (dis)	0.108 J-		<0.005		<0.005	
Arsenic V (dis)	1.16		0.874		1.19	
Barium (Ba) (DIS)			<0.1		<0.1	
Beryllium (Be) (DIS)			<0.001		<0.001	
Cadmium (Cd) (dis)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)			<0.001		<0.001	
Cobalt (Co) (DIS)			<0.01		<0.01	
Copper (Cu) (dis)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.05	0.02	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)			<0.006		<0.006	
Nickel (Ni) (DIS)			<0.01		<0.01	
Selenium (Se) (DIS)	0.043	0.029	0.018	0.102 J	0.071	0.078
Silver (Ag) (DIS)			<0.005		<0.005	
Thallium (Tl) (DIS)			<0.002		<0.002	
Vanadium (V) (DIS)			<0.01		<0.01	
Zinc (Zn) (dis)	<0.02	<0.01	<0.01	<0.01	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.6	0.36	0.41	0.2	0.28	1.82
pH	7.5	7.7	7.3	7.6	7.7	7.6
Depth To Water Level (ft)	5.92	6.15	5.84	8.94	5.97	5.35
pH (Fld)	7.41	7.38	7.08	7.08	7.17	7.04
SC (umhos/cm at 25 C) (Fld)	932	534	512	1354	967	858

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-52	DH-52	DH-52	DH-52	DH-52	DH-52
Water	SAMPLE DATE	11/28/2007	2/1/2008	5/9/2008	7/18/2008	11/6/2008	2/9/2009
	SAMPLE TIME	09:15	11:45	09:45	14:30	14:30	10:35
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07110218-001	H08020014-007	H08050176-003	H08070391-003	H08110092-003	H09020078-007
	SAMPLE NUMBER	AEH-0711-168	AEH-0801-146	AEH-0805-195	AEH-0807-176	AEH-0811-192	AEH-0902-168
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Physical/Fid-Lab: ppm unless noted</b>							
	SC (umhos/cm at 25 C)	982	471	511	1270	1010	846
	Total Suspended Solids	17	<10	<10	<10	<10	10
	TDS (Measured at 180 C)	664	337	324	920	644	554
	Water Temperature (C) (Fid)	9.77	7	5.7	12.1	9.86	6.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-52	DH-53	DH-53	DH-53	DH-53
Water	SAMPLE DATE	5/13/2009	12/15/1999	4/25/2000	11/15/2000	5/1/2001
	SAMPLE TIME	15:50	11:55	12:00	09:50	12:00
	LAB	ELI	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050210-017	L992165023	L000631026	L001922022	L010608020
	SAMPLE NUMBER	AEH-0905-204	IMMW-9912-123	IMMW-0004-123	IMMW-0011-123	EHC-0105-158
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	150	145	140	149	139
Calcium (Ca) (DIS)	32	45	26	104	70
Carbonate As CO3		<1	<1	<1	<1
Chloride (Cl)	8	24	10	38	34
Magnesium (Mg) (DIS)	6	7.2	<5	16	11
Potassium (K) (DIS)	67	57	45	99	74
Sodium (Na) (DIS)	80	112	79	138	95
Sulfate (SO4)	230	285	174	548	389
Total Alkalinity As CaCO3	120	119	115	122	114

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1			0.01 U	<0.05
Antimony (Sb) (DIS)	0.036				
Arsenic (As) (DIS)	0.864	0.7	0.9	0.5	0.4
Arsenic III (dis)		<0.005	0.01 U	<0.03	0.3
Arsenic V (dis)		0.7	0.9	0.4	0.2
Barium (Ba) (DIS)	<0.1				
Beryllium (Be) (DIS)	<0.001				
Cadmium (Cd) (DIS)	<0.001	<0.001	0.003	<0.001	<0.001
Chromium (Cr) (DIS)	0.002				
Cobalt (Co) (DIS)	0.0012 J				
Copper (Cu) (DIS)	0.002 UJ	<0.004	<0.004	0.005	<0.004
Gold (Au) (DIS)	<0.01				
Iron (Fe) (DIS)	0.02	<0.02 J	0.08	0.05 UJ	<0.05
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	1.7	1	3.9	2.6
Mercury (Hg) (DIS)	<0.0001				
Nickel (Ni) (DIS)	<0.01				
Selenium (Se) (DIS)	0.09				
Silver (Ag) (DIS)	<0.005				
Tellurium (Te) (DIS)	<0.1				
Thallium (Tl) (DIS)	<0.001				
Vanadium (V) (DIS)	<0.01				
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.31	2.3	2.4	1.3	1.2
pH	7.8	7.8	8	7.6	8.2
Silicon+Silica (Si+SiO2)				20	17
Depth To Water Level (ft)	5.08	8.6	7.9	9	7.6
Eh (millivolts)		414	468	172.5	428

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-52	DH-53	DH-53	DH-53	DH-53
Water	SAMPLE DATE	5/13/2009	12/15/1999	4/25/2000	11/15/2000	5/1/2001
	SAMPLE TIME	15:50	11:55	12:00	09:50	12:00
	LAB	Hydrometrics	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050210-017	L992165023	L000631026	L001922022	L010608020
	SAMPLE NUMBER	AEH-0905-204	IMMW-9912-123	IMMW-0004-123	IMMW-0011-123	EHC-0105-158
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

pH (Fld)	7.36	7.4	6.9	7.01	7.8
SC (umhos/cm at 25 C) (Fld)	802	878	683	1174	962
SC (umhos/cm at 25 C)	810	968	615	1491	1156
Total Suspended Solids	13				5.6
TDS (Measured at 180 C)	537	673	412	1084	829
Turbidity (NTU) (Fld)		18.6	18.8		
Water Temperature (C) (Fld)	7.7	8.9	9.3	12.1	7.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-53	DH-53	DH-53	DH-53	DH-53	DH-53
Water	SAMPLE DATE	11/6/2001	5/29/2002	11/16/2002	6/2/2003	10/27/2003	5/24/2004
	SAMPLE TIME	15:05	14:15	11:30	08:00	09:30	13:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI
	LAB NUMBER	L011539003	L020397002	L020956006	L030245016	L030601002	H04050162-006
	SAMPLE NUMBER	EHC-0111-156	EHC-0205-161	EHC-0211-159	AEH-0306-179	AEH-0310-382	AEH-0405-155
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	124	161	154	188	142	130
Calcium (Ca) (DIS)	89	150	110	143	60	24
Carbonate As CO3	<1	<1	<1	<2	<2	
Chloride (Cl)	48 J	66	54	80	18	10 J
Magnesium (Mg) (DIS)	14	22	16	23	9	3
Potassium (K) (DIS)	94	103	104	116	82	45
Sodium (Na) (DIS)	132	167	151	182	116	68
Sulfate (SO4)	429	760	540	802	411	170
Total Alkalinity As CaCO3	102	132	126	154	116	100

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05	<0.05			
Arsenic (As) (DIS)	0.4	0.4	0.4	0.5	0.6	0.695
Arsenic III (dis)	0.2	0.2	0.3	0.3	0.6	0.0013
Arsenic V (dis)	0.2	0.2	0.2	0.1	<0.005	1.1
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	0.004	0.004	0.007 J	<0.004	<0.004
Iron (Fe) (DIS)	0.02	<0.02	<0.02	<0.02	<0.02	<0.02 J
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.4	5.6	3.9	4.9	1.7	0.68
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.05	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	125.5	0.6				
Oxygen (O) (DIS) (Fld)	0.3	0.2	8.7	0.4	0.0	1.59
pH	7.6	7.3	7.2	7.6	7.8	7.6
Silicon+Silica (Si+SiO2)	20	18	19			
Depth To Water Level (ft)	10.4	9.02	9.6	7.2	9.11	8.07
Eh (millivolts)	346					
pH (Fld)	7.7	7.5	6.6	6	6.67	6.74
SC (umhos/cm at 25 C) (Fld)	1288	1720	1550	2120	1120	820
SC (umhos/cm at 25 C)	1330	1740	1570	1991	1140	538
Total Suspended Solids	365	14	290	15	92	62 J
TDS (Measured at 180 C)	946	1295	1143	1477	814	414
Salinity (G/KG) (Fld)			0.7	0.9	0.4	0.3
Turbidity (NTU) (Fld)			16	6	26	
Water Temperature (C) (Fld)	11.8	7.9	10.9	8.1	11.8	8.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-53	DH-53	DH-53	DH-53	DH-53	DH-53
Water	SAMPLE DATE	11/2/2004	11/2/2004	5/12/2005	11/17/2005	5/8/2006	11/14/2006
	SAMPLE TIME	09:15	09:40	10:45	12:30	10:40	15:05
	LAB	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel	ELI
	LAB NUMBER	H04110029-001	H04110029-002	C05050485-005	H05110153-011	H06050082-007	H06110122-005
	SAMPLE NUMBER	AEH-0411-185	AEH-0411-186	AEH-0505-131	AEH-0511-203	AEH-0605-176	AEH-0611-180
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	98	110	117	150	150	190
Calcium (Ca) (DIS)	47	47	25	49	76	45
Chloride (Cl)	10	10	8	23	27	16
Magnesium (Mg) (DIS)	7	7	<5	7	11	6
Potassium (K) (DIS)	60	61	48	70	69	64
Sodium (Na) (DIS)	77	76	62	83	96	79
Sulfate (SO4)	282	300	149	275	344	194
Total Alkalinity As CaCO3	80	89	96	120	120	150

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.438	0.45	0.572	0.484	0.351	0.504
Arsenic III (dis)	<0.0033	<0.0033	<0.005	0.01 UJ	<0.005	<0.01 J-
Arsenic V (dis)	0.49	0.5	0.5	0.5	0.4	0.7 J-
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.01	<0.01	0.007	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.03	<0.03	<0.02	0.02	<0.02	0.03
Lead (Pb) (DIS)	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.78	0.78	0.39	0.85	1.88	1.49
Zinc (Zn) (DIS)	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential						64
Oxygen (O) (DIS) (Fld)	0.17		0.23	1.52	1.1	0.06
pH	7.3	7.4	7.63	7.2	7.4	7.4
Depth To Water Level (ft)	8.29		7.95	9.08	7.94	9.18
pH (Fld)	7.2		7.44	6.98	6.86	7.03
SC (umhos/cm at 25 C) (Fld)	856		578	1000	1062	833
SC (umhos/cm at 25 C)	730	722	573	949	1030	800
Total Suspended Solids	290 J	140 J	62	45 J	21	22
TDS (Measured at 180 C)	560	566	369	652	727	551
TDS - Calculated			369			
Water Temperature (C) (Fld)	10.7		7.1	11.7	7.76	11.22

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-53	DH-53	DH-53	DH-53	DH-53
Water	SAMPLE DATE	5/14/2007	11/28/2007	5/7/2008	11/6/2008	5/13/2009
	SAMPLE TIME	11:25	09:40	16:50	13:52	15:30
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07050154-004	H07110218-002	H08050154-003	H08110092-001	H09050210-016
	SAMPLE NUMBER	AEH-0705-147	AEH-0711-169	AEH-0805-180	AEH-0811-190	AEH-0905-203
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	120		110	190	190
Bicarbonate (HCO3) (dis)		130			
Calcium (Ca) (DIS)	19	18	26	59	55
Chloride (Cl)	6	6	5	14	12
Magnesium (Mg) (DIS)	3	3	4	9	9
Potassium (K) (DIS)	38	37	30	58	55
Sodium (Na) (DIS)	32	26	19	70	72
Sulfate (SO4)	70	55	54	280	240
Total Alkalinity As CaCO3	99	110	92	150	160

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)		<0.005	<0.005	<0.005	
Selenium-VI (dis)		<0.005	0.0106	<0.005	
Aluminum (Al) (DIS)			<0.1	<0.1	<0.1
Antimony (Sb) (DIS)			0.012	0.019	0.018
Arsenic (As) (DIS)	0.42	0.372	0.228	0.319	0.314
Arsenic III (DIS)	<0.005 J-	0.0131 J-	<0.005 J	<0.005	
Arsenic V (DIS)	0.647 J+	0.44	0.194 J	0.311	
Barium (Ba) (DIS)			<0.1	<0.1	<0.1
Beryllium (Be) (DIS)			<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)			<0.001	<0.001	0.002
Cobalt (Co) (DIS)			<0.01	<0.01	0.0008 J
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	0.003 UJ
Gold (Au) (DIS)					0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	0.03	0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.81	0.85	1.37	2.43	2.7
Mercury (Hg) (DIS)			<0.006	<0.006	<0.0001
Nickel (Ni) (DIS)			<0.01	<0.01	<0.01
Selenium (Se) (DIS)		<0.005	0.013	0.005	0.007
Silver (Ag) (DIS)			<0.005	<0.005	<0.005
Tellurium (Te) (DIS)					<0.1
Thallium (Tl) (DIS)			<0.002	<0.002	<0.001
Vanadium (V) (DIS)			<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	<0.02	0.01	<0.02	0.02 UJ

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.76	0.47	0.3	0.38	0.22
pH	7.7	7.2	7.3	7.6	7.6
Depth To Water Level (ft)	8.53	8.51	8.29	9.14	7.97

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-53	DH-53	DH-53	DH-53	DH-53
Water	SAMPLE DATE	5/14/2007	11/28/2007	5/7/2008	11/6/2008	5/13/2009
	SAMPLE TIME	11:25	09:40	16:50	13:52	15:30
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H07050154-004	H07110218-002	H08050154-003	H08110092-001	H09050210-016
	SAMPLE NUMBER	AEH-0705-147	AEH-0711-169	AEH-0805-180	AEH-0811-190	AEH-0905-203
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fld-Lab: ppm unless noted**

	DH-53	DH-53	DH-53	DH-53	DH-53
pH (Fld)	7.16	7.26	6.81	6.74	7.06
SC (umhos/cm at 25 C) (Fld)	397	345	320	916	847
SC (umhos/cm at 25 C)	397	372	328	904	852
Total Suspended Solids	12	140	21	<10	19
TDS (Measured at 180 C)	256	246	227	627	578
Water Temperature (C) (Fld)	6.56	10.32	5	10.58	7.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-54	DH-54	DH-54	DH-54	DH-54	DH-54
Water	SAMPLE DATE	12/16/1999	4/25/2000	11/15/2000	5/1/2001	11/6/2001	5/30/2002
	SAMPLE TIME	14:00	13:50	10:35	12:45	11:15	07:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L992165024	L000630003	L001922023	L010608021	L011539004	L020398004
	SAMPLE NUMBER	IMMW-9912-124	IMMW-0004-124	IMMW-0011-124	EHC-0105-159	EHC-0111-157	EHC-0205-162
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	198	200	195	176	201	206
Calcium (Ca) (DIS)	238	216	161	151	171	193
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Chloride (Cl)	167	138	75	74	113 J	102
Magnesium (Mg) (DIS)	56	48	36	32	38	37
Potassium (K) (DIS)	14	12	9.4	9.4	10	10
Sodium (Na) (DIS)	185	180	165	140	157	177
Sulfate (SO4)	859	743	600	618	555	704
Total Alkalinity As CaCO3	162	164	160	144	165	169

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.01	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	0.006	<0.005	0.03 U	<0.005	<0.005	<0.005
Arsenic III (dis)	0.008 U	0.006 U	<0.03	<0.005	<0.005	<0.005
Arsenic V (dis)	0.008 U	0.01 U	<0.02	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	0.002	0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	0.004	0.02	<0.004	<0.004
Iron (Fe) (DIS)	0.03 J	0.1	0.1 UJ	<0.05	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.6	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					104.5	17.7
Oxygen (O) (DIS) (Fld)	5.5	4.5	3.7	2.6	3.03	4.5
pH	7.6	7.9	7.1	8.3	7.5	6.9
Silicon+Silica (Si+SiO2)			27	26	29	29
Depth To Water Level (ft)	21.6	23.6	22.8	24.1	20.8	24.9
Eh (millivolts)	345	448	107.7	419	325	
pH (Fld)	6.5	7	7.04	5.9	7.2	6.3
SC (umhos/cm at 25 C) (Fld)	2400	2070	1276	1377	1608	1700
SC (umhos/cm at 25 C)	2230	2050	1665	1623	1679	1725
Total Suspended Solids				106	9.7	126 J
TDS (Measured at 180 C)	1749	1545	1271	1231	1244	1313
Turbidity (NTU) (Fld)	181	119.6				
Water Temperature (C) (Fld)	11.6	11.7	12	11.2	12.5	10.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-54	DH-54	DH-54	DH-54	DH-54	DH-54	
Water	SAMPLE DATE	5/30/2002	11/16/2002	6/3/2003	10/29/2003	5/25/2004	10/27/2004	
	SAMPLE TIME	07:45	14:00	15:15	10:00	15:05	15:30	
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI	
	LAB NUMBER	L020398011	L020951007	L030247011	L030604017	H04050175-012	H04100192-015	
	SAMPLE NUMBER	EHC-0205-231	EHC-0211-160	AEH-0306-194	AEH-0310-419	AEH-0405-176	AEH-0411-140	
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
	GROUP	RI	RI	RI	RI	RI	RI	
	DESCRIPTION							
	REMARKS	Field Duplicate						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	210	227	210	224	200	230
Calcium (Ca) (DIS)	179	181	182	216	240	222
Carbonate As CO3	<1	<1	<2	<2		
Chloride (Cl)	104	91	110	116	140	100
Magnesium (Mg) (DIS)	35	39	39	48	47	48
Potassium (K) (DIS)	10	11	11	12	12	10
Sodium (Na) (DIS)	195	160	156	161	166	156
Sulfate (SO4)	700	539	556	657	670	683
Total Alkalinity As CaCO3	172	186	172	184	170	190

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05				
Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001
Arsenic V (dis)	<0.005	<0.005	<0.005	<0.005	0.0024	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	0.006	<0.004	<0.004	0.005
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.03	0.07	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.01	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.05	<0.01	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		8.9	4.01	4.29	3.2	2.72
pH	7	7.2	7.1	7.6	7.1	7.2
Silicon+Silica (Si+SiO2)	25	27				
Depth To Water Level (ft)		21.5	22.4	21.03	23.04	19.85
pH (Fld)		6.6	6.5	6.21	6.27	6.65
SC (umhos/cm at 25 C) (Fld)		1560	1840	1840	2540	2019
SC (umhos/cm at 25 C)	1732	1718	1775	1908	1530	1850
Total Suspended Solids	77 J	40	16	51	72	50
TDS (Measured at 180 C)	1333	1302	1342	1453	1350	1540
Salinity (G/KG) (Fld)		0.7	0.8	0.8	1.2	
Turbidity (NTU) (Fld)		72	8	16		
Water Temperature (C) (Fld)		12.7	11.1	12.4	11.9	12.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-54	DH-54	DH-54	DH-54	DH-54	DH-54
Water	SAMPLE DATE	5/19/2005	11/9/2005	5/3/2006	6/21/2006	11/7/2006	5/9/2007
	SAMPLE TIME	14:40	10:15	09:35	09:15	15:20	13:10
	LAB	ELI-Casper	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI
	LAB NUMBER	C05050744-012	H05110081-004	H06050038-001	H06060217-001	H06110064-013	H07050114-010
	SAMPLE NUMBER	AEH-0505-212	AEH-0511-128	AEH-0605-125	AEH-0606-123	AEH-0611-114	AEH-0705-119
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	241	240	250	240	270	260
Calcium (Ca) (DIS)	268	208	200	171 J	207	210
Chloride (Cl)	97	96	97	80	110	97
Magnesium (Mg) (DIS)	55	45	42	35 J	42	43
Potassium (K) (DIS)	12	12	12	9 J	11	11
Sodium (Na) (DIS)	183	147	163	134	153	166
Sulfate (SO4)	937	656	653	544	563	626
Total Alkalinity As CaCO3	198	190	200	200	220	210

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.004	<0.002	0.002	0.003	0.005	0.007
Arsenic III (dis)	0.01 UJ	<0.005	<0.005 J	<0.005	<0.005	<0.001
Arsenic V (dis)	0.006 UJ	<0.005	<0.005 J	<0.005	<0.005	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	0.005	<0.004	0.006	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02 J	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.01	<0.01 J	<0.01	<0.01
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02 J	0.03	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					77.6	
Oxygen (O) (DIS) (Fld)	3.02	3.63	3.96	5.63	3.35	2.46
pH	7.11	6.9	7.1	7	7.1	6.9
Depth To Water Level (ft)	23.87	20.48	22.76	19.68	20.11	23.63
pH (Fld)	6.39	6.55	6.22	6.3	6.61	6.69
SC (umhos/cm at 25 C) (Fld)	2230	1995	1664	1604	1809	2017
SC (umhos/cm at 25 C)	2160	1740	1680	1500	1720	1830
Total Suspended Solids	53	100	22	15	20 J	34
TDS (Measured at 180 C)	1630	1330	1400	1170	1390	1490
TDS - Calculated	1700					
Water Temperature (C) (Fld)	10.94	12.04	11.11	11.57	13.37	11.78

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-54	DH-54	DH-54	DH-54	DH-55
Water	SAMPLE DATE	11/16/2007	5/5/2008	11/4/2008	5/8/2009	7/10/2001
	SAMPLE TIME	10:50	17:45	09:05	15:05	13:30
	LAB	ELI	ELI	ELI	ELI	TSC-SLC
	LAB NUMBER	H07110140-003	H08050097-004	H08110046-001	H09050167-010	L011005001
	SAMPLE NUMBER	AEH-0711-138	AEH-0805-153	AEH-0811-157	AEH-0905-161	EHC-0107-100
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		260	270	250	178
Bicarbonate (HCO3) (dis)	250				
Calcium (Ca) (DIS)	193	220	226	202	218
Carbonate As CO3					<1
Chloride (Cl)	85	80	87	63	151
Magnesium (Mg) (DIS)	40	44	46	42	35
Potassium (K) (DIS)	11	12	12	11	193
Sodium (Na) (DIS)	152	159	157	159	284
Sulfate (SO4)	564	780	740	720	1064
Total Alkalinity As CaCO3	210	210	220	200	146

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005 J	<0.005		
Selenium-VI (DIS)	0.103	0.13	0.111		
Aluminum (Al) (DIS)		<0.1	<0.1		<0.05
Antimony (Sb) (DIS)		<0.005	<0.005	<0.003	
Arsenic (As) (DIS)	0.005	0.006	0.004	0.016	0.3
Arsenic III (DIS)	<0.001	<0.005	<0.005		0.07
Arsenic V (DIS)	<0.001	<0.005	<0.005		0.2
Barium (Ba) (DIS)		<0.1	<0.1	<0.1	
Beryllium (Be) (DIS)		<0.001	<0.001	<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.001	<0.001	<0.001	
Cobalt (Co) (DIS)		<0.01	<0.01	0.0009	
Copper (Cu) (DIS)	0.004	0.004	<0.004	0.005	0.009
Gold (Au) (DIS)				<0.01	
Iron (Fe) (DIS)	<0.01	0.12	<0.02	<0.02	0.04
Lead (Pb) (DIS)	<0.003	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	2.2
Mercury (Hg) (DIS)		<0.006	<0.006	<0.0001	
Nickel (Ni) (DIS)		<0.01	<0.01	<0.01	
Selenium (Se) (DIS)	0.103	0.179	0.13	0.233	
Silver (Ag) (DIS)		<0.005	<0.005 J-	<0.005	
Tellurium (Te) (DIS)				<0.1	
Thallium (Tl) (DIS)		<0.002	<0.002	<0.001	
Vanadium (V) (DIS)		<0.01	<0.01	<0.01	
Zinc (Zn) (DIS)	<0.01	0.02	<0.02	<0.01	0.03

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.35	2.56	3.87	4.13	1.6
pH	7.3	6.9	6.8	7.3	8.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-54	DH-54	DH-54	DH-54	DH-55
Water	SAMPLE DATE	11/16/2007	5/5/2008	11/4/2008	5/8/2009	7/10/2001
	SAMPLE TIME	10:50	17:45	09:05	15:05	13:30
	LAB	Hydrometrics		Hydrometrics	Hydrometrics	TSC-SLC
	LAB NUMBER	H07110140-003	H08050097-004	H08110046-001	H09050167-010	L011005001
	SAMPLE NUMBER	AEH-0711-138	AEH-0805-153	AEH-0811-157	AEH-0905-161	EHC-0107-100
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

Silicon+Silica (Si+SiO2)						20
Depth To Water Level (ft)	21.07	24.91	21.12	24.64		79.6
Eh (millivolts)						414.4
pH (Fld)	6.96	6.71	6.45	6.67		7.3
SC (umhos/cm at 25 C) (Fld)	1766	1951	1821	1899		2930
SC (umhos/cm at 25 C)	1650	1870	1890	1860		2840
Total Suspended Solids	28	60	<10	<10		126
TDS (Measured at 180 C)	1360	1530	1390	1300		2162
Water Temperature (C) (Fld)	13.18	15.6	12.48	11.5		12

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-55	DH-55	DH-55	DH-55	DH-55	DH-55
Water	SAMPLE DATE	7/10/2001	12/7/2001	12/7/2001	5/31/2002	11/15/2002	6/2/2003
	SAMPLE TIME	13:45	11:35	11:45	09:00	12:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ASARCO
	LAB NUMBER	L011005014	L011627014	L011627015	L020412002	L020950009	0306-232
	SAMPLE NUMBER	EHC-0107-114	EHC-0111-233	EHC-0111-234	EHC-0205-163	EHC-0211-161	AEH-0306-232
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	172	178	200	171	195
Calcium (Ca) (DIS)	215	272	299	220	313
Carbonate As CO3	<1	3.6 J	7 J	<1	<1
Chloride (Cl)	130	153	152	126	148 J
Magnesium (Mg) (DIS)	35	44	46	33	48
Potassium (K) (DIS)	206	216	213	192	266
Sodium (Na) (DIS)	309	509	519	373	643
Sulfate (SO4)	1126	1655	1537	1465	2055
Total Alkalinity As CaCO3	141	152	176	140	160

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	0.3	0.2	0.2	0.1	0.1
Arsenic III (dis)	0.07	0.04	0.04	0.02	0.03
Arsenic V (dis)	0.2	0.1	0.1	0.1	0.09
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.009	0.007	0.007	0.008	0.02 UJ
Iron (Fe) (DIS)	0.05	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.1	3.3	3.5	3	4.7
Zinc (Zn) (DIS)	0.03	0.05	0.05	0.06	0.2

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential		62.9	52.5	-18.3	
Oxygen (O) (DIS) (Fld)	1.6	0.1	0.1	0.7	8.02
pH	8.2	8.4	8.5	7.1	7.3
Silicon+Silica (Si+SiO2)	21	22	23	21	21
Depth To Water Level (ft)		81.9		79.8	79.9
Eh (millivolts)	414.2	299	288		
pH (Fld)	7.3	8.3	8.2	7.08	6.6
SC (umhos/cm at 25 C) (Fld)	2940	2850	2890	3290	4380
SC (umhos/cm at 25 C)	2840	3640	3640	3230	4430
Total Suspended Solids	118	15	17	<1 J	5.3 J
TDS (Measured at 180 C)	2115	2968	2957	2260	3592 J
Salinity (G/KG) (Fld)					2.2
Turbidity (NTU) (Fld)					4
Water Temperature (C) (Fld)	12	8.9	8.5	9.4	10.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-55	DH-55	DH-55	DH-55	DH-55	DH-55
Water	SAMPLE DATE	10/26/2003	5/13/2004	10/22/2004	5/9/2005	11/3/2005	4/28/2006
	SAMPLE TIME	00:00	12:40	00:00	15:21	14:07	09:28
	LAB	TSC-SLC	ASARCO	ASARCO	ELI-Casper	ASARCO	Hydro
	LAB NUMBER	AEH-0310-455	AEH-0405-238	z	AEH-0505-DH55	AEH-0511-249	AEH-0605-DH55
	SAMPLE NUMBER	AEH-0310-455	AEH-0405-238	AEH-0411-248	AEH-0505-DH55	AEH-0511-249	AEH-0605-DH55
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only Req	SWL Only Req	SWL Only Req	SWL Only Req	SWL Only	SWL Only
	REMARKS	No Sample	No Sample	No Sample	No Sample	No Sample	No Sample
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Depth To Water Level (ft)	78.86	78.79	78.53	79.52	79.75	79.41

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-55	DH-55	DH-56	DH-56	DH-56
Water	SAMPLE DATE	11/6/2006	12/7/2007	7/10/2001	12/7/2001	5/31/2002
	SAMPLE TIME	00:00	13:45	12:30	10:50	10:15
	LAB	Hydrometrics	ELI	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	z	H07120076-006	L011005002	L011627012	L020412005
	SAMPLE NUMBER	AEH-0611-DH55	AEH-0711-211	EHC-0107-101	EHC-0111-231	EHC-0205-164
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only				
	REMARKS	No Sample				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		142	176	154
Bicarbonate (HCO3) (dis)	310			
Calcium (Ca) (DIS)	66	166	163	195
Carbonate As CO3		<1	<1	<1
Chloride (Cl)	42	125	99	100
Magnesium (Mg) (DIS)	9	26	26	28
Potassium (K) (DIS)	355	182	194	169
Sodium (Na) (DIS)	480	255	282	275
Sulfate (SO4)	1360	988	939	1382
Total Alkalinity As CaCO3	250	116	144	126

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	0.0372			
Selenium-VI (DIS)	0.307			
Aluminum (Al) (DIS)		<0.05	<0.05	<0.05
Arsenic (As) (DIS)	0.491	0.4	0.5	0.5
Arsenic III (DIS)	<0.0056	0.2	0.2	0.2
Arsenic V (DIS)	0.474 J	0.3	0.3	0.3
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.009	0.007	<0.004	0.006
Iron (Fe) (DIS)	0.03	0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.58	0.03	<0.02	<0.02
Selenium (Se) (DIS)	0.346			
Zinc (Zn) (DIS)	0.04	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential			107.6	-11.3
Oxygen (O) (DIS) (Fld)	0.2	3.7	1.4	3.9
pH	8.2	7.9	7.9	7.4
Silicon+Silica (Si+SiO2)		19	18	19
Depth To Water Level (ft)	79.85	79.92	77.6	81.3
Eh (millivolts)		409.6	343	
pH (Fld)	7.56	7.3	8.7	7
SC (umhos/cm at 25 C) (Fld)	3282	2500	1760	2600
SC (umhos/cm at 25 C)	3180	2420	2540	2590
Total Suspended Solids	32	89	4195	169
TDS (Measured at 180 C)	2390	1784	1904	1983

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-55	DH-56	DH-56	DH-56
Water	SAMPLE DATE	12/7/2007	7/10/2001	12/7/2001	5/31/2002
	SAMPLE TIME	13:45	12:30	10:50	10:15
	LAB	Hydrometrics	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H07120076-006	L011005002	L011627012	L020412005
	SAMPLE NUMBER	AEH-0711-211	EHC-0107-101	EHC-0111-231	EHC-0205-164
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS				

**Physical/Fid-Lab: ppm unless noted**

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Water Temperature (C) (Fld)	10	12.5	9.5	10.4
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-56	DH-56	DH-56	DH-56	DH-56	DH-56
Water	SAMPLE DATE	11/15/2002	6/2/2003	10/26/2003	5/13/2004	10/22/2004	5/9/2005
	SAMPLE TIME	12:50	00:00	00:00	12:46	00:00	15:27
	LAB	TSC-SLC	ASARCO	TSC-SLC	ASARCO	ASARCO	ELI-Casper
	LAB NUMBER	L020950011	0306-233	AEH-0310-456	AEH-0405-240	z	AEH-0505-DH56
	SAMPLE NUMBER	EHC-0211-162	AEH-0306-233	AEH-0310-456	AEH-0405-240	AEH-0411-250	AEH-0505-DH56
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION			SWL Only Req	SWL Only Req	SWL Only Req	SWL Only Req
	REMARKS			No Sample	No Sample	No Sample	No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	153
Calcium (Ca) (DIS)	228
Carbonate As CO3	<1
Chloride (Cl)	98 J
Magnesium (Mg) (DIS)	35
Potassium (K) (DIS)	197
Sodium (Na) (DIS)	316
Sulfate (SO4)	1125
Total Alkalinity As CACO3	125

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05
Arsenic (As) (DIS)	0.6
Arsenic III (dis)	0.4
Arsenic V (dis)	0.1
Cadmium (Cd) (DIS)	<0.001
Copper (Cu) (DIS)	0.008 UJ
Iron (Fe) (DIS)	0.02
Lead (Pb) (DIS)	<0.005
Manganese (Mn) (DIS)	<0.02
Zinc (Zn) (DIS)	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	6.6					
pH	7.5					
Silicon+Silica (Si+SiO2)	19					
Depth To Water Level (ft)	78.7	77.5	77.73	77.65	75.69	78.85
pH (Fld)	6.8					
SC (umhos/cm at 25 C) (Fld)	2760					
SC (umhos/cm at 25 C)	2790					
Total Suspended Solids	1285					
TDS (Measured at 180 C)	1565 J					
Salinity (G/KG) (Fld)	1.3					
Turbidity (NTU) (Fld)	9					
Water Temperature (C) (Fld)	10.6					

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-56	DH-56	DH-56	DH-56	DH-57
Water	SAMPLE DATE	11/3/2005	4/28/2006	11/6/2006	12/12/2007	7/11/2001
	SAMPLE TIME	14:16	09:20	00:00	11:45	13:30
	LAB	ASARCO	Hydro	Hydrometrics	ELI	TSC-SLC
	LAB NUMBER	AEH-0511-251	AEH-0605-DH56	z	H07120134-007	L011005003
	SAMPLE NUMBER	AEH-0511-251	AEH-0605-DH56	AEH-0611-DH56	AEH-0711-241	EHC-0107-102
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only	SWL Only	SWL Only		
	REMARKS	No Sample	No Sample	No Sample		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		168
Bicarbonate (HCO3) (dis)	360	
Calcium (Ca) (dis)	170	387
Carbonate As CO3		<1
Chloride (Cl)	125	262
Magnesium (Mg) (dis)	25	50
Potassium (K) (dis)	470	72 J
Sodium (Na) (dis)	653	461
Sulfate (SO4)	1830	1629
Total Alkalinity As CaCO3	290	138

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)	0.0133	
Selenium-VI (dis)	1.47	
Aluminum (Al) (DIS)		<0.05 J
Arsenic (As) (DIS)	1.038	1.6
Arsenic III (dis)	0.0122 UJ	1
Arsenic V (dis)	1.09	0.6
Cadmium (Cd) (dis)	<0.001	0.05
Copper (Cu) (dis)	0.004	0.01
Iron (Fe) (dis)	0.05	3
Lead (Pb) (dis)	<0.005	<0.005
Manganese (Mn) (dis)	<0.01	8.3
Selenium (Se) (DIS)	1.381	
Zinc (Zn) (dis)	<0.02	0.4

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		2.11	4
pH		7.4	8.2
Silicon+Silica (Si+SiO2)			28
Depth To Water Level (ft)	78	79.09	78.08
Eh (millivolts)			132.3
pH (Fld)		7.35	6.6
SC (umhos/cm at 25 C) (Fld)		4412	3960
SC (umhos/cm at 25 C)		4410	3980
Total Suspended Solids		514	183
TDS (Measured at 180 C)		3490	3267
Water Temperature (C) (Fld)		10.1	15.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-57	DH-57	DH-57	DH-57	DH-57	DH-57
Water	SAMPLE DATE	5/30/2002	11/16/2002	6/1/2003	10/27/2003	5/27/2004	11/1/2004
	SAMPLE TIME	17:50	08:40	12:45	08:00	11:35	13:20
	LAB	ASARCO	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	EHC0205165	L020951015	L030244013	L030600019	H04050208-008	H04110018-006
	SAMPLE NUMBER	EHC-0205-165	EHC-0211-163	AEH-0306-153	AEH-0310-378	AEH-0405-206	AEH-0411-176
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	181	205	181	210	220
Calcium (Ca) (DIS)	174	134	154	112	107
Carbonate As CO3	<1	<2	<2		
Chloride (Cl)	158	129	113	92	80
Magnesium (Mg) (DIS)	24	19	22	14	15
Potassium (K) (DIS)	51	45	41	32	39
Sodium (Na) (DIS)	404	360	388	281	278
Sulfate (SO4)	1064	938	708	620	623
Total Alkalinity As CACO3	148	168	148	170	180

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05				
Arsenic (As) (DIS)	2.3	2.3	2.6	2.52	2.616
Arsenic III (dis)	1.8	2.2	2.4	0.55 J	1.8
Arsenic V (dis)	0.5	1	0.02	2.8	0.58
Cadmium (Cd) (DIS)	0.009	0.01	0.008	0.006	0.003
Copper (Cu) (DIS)	0.007	0.009	<0.004	0.005	<0.004
Iron (Fe) (DIS)	0.9	0.5	1.2	1.12	1.91
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.3	3.3	3.4	2.67	3.54
Zinc (Zn) (DIS)	0.1	0.2	0.09	0.13	0.04

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		2.8	0.2	0.37	0.45	0.11
pH		7.3	7	7.7	7.6	7.6
Silicon+Silica (Si+SiO2)		24				
Depth To Water Level (ft)	29.1	28.05	27.1	27.61	27.22	26.11
pH (Fld)		6.1	7.03	6.64	7.35	6.92
SC (umhos/cm at 25 C) (Fld)		2740	2450	232 R	2070	2097
SC (umhos/cm at 25 C)		2790	2480	2340	1920	1770
Total Suspended Solids		24	13	22	22	41 J
TDS (Measured at 180 C)		2045	1806	1721	1460	1430
Salinity (G/KG) (Fld)		1.3	1.1	1.1		
Turbidity (NTU) (Fld)		21	6	3		
Water Temperature (C) (Fld)		11	11.3	11.6	11.7	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-57	DH-57	DH-57	DH-57	DH-57	DH-57
Water	SAMPLE DATE	11/1/2004	5/19/2005	11/18/2005	5/10/2006	11/20/2006	5/18/2007
	SAMPLE TIME	13:35	13:15	13:45	14:25	14:25	00:00
	LAB	ELI	ELI-Casper	ELI-Hel	ELI-Hel	ELI	Hydrometrics
	LAB NUMBER	H04110018-007	C05050744-010	H05110164-012	H06050126-003	H06110172-002	z
	SAMPLE NUMBER	AEH-0411-177	AEH-0505-210	AEH-0511-220	AEH-0605-216	AEH-0611-223	AEH-0705-185
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						io Samp-Low SWL
	REMARKS	Field Duplicate					No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	220	215	210	420	220
Calcium (Ca) (DIS)	110	86	75	64	66
Chloride (Cl)	80	53	55	40	32
Magnesium (Mg) (DIS)	15	13	11	9	8
Potassium (K) (DIS)	40	29	28	24	28
Sodium (Na) (DIS)	280	240	222	197	200
Sulfate (SO4)	578	543	383	362	353
Total Alkalinity As CaCO3	180	176	170	350	180

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	2.623	2.53	2.48	2.443 J	2.636
Arsenic III (dis)	2	1.1	1.3	1	1.6
Arsenic V (dis)	0.65	1.1	1.5	1.2	1 J
Cadmium (Cd) (DIS)	0.003	0.002	0.002	0.003	0.002
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.006	<0.004
Iron (Fe) (DIS)	1.98	0.96	0.62	0.3	1.14
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.58	1.86	1.42	0.98	2.23
Zinc (Zn) (DIS)	0.04	0.05	0.04	0.1	0.03

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					-129.7
Oxygen (O) (DIS) (Fld)		0.82	0.72	0.28	0.24
pH	7.6	7.85	8	7.6	7.6
Depth To Water Level (ft)		27.74	27.69	27.38	27.3
pH (Fld)		7.5	7.4	7	7.34
SC (umhos/cm at 25 C) (Fld)		1980	1378	1203	1339
SC (umhos/cm at 25 C)	1800	1600	1470	1280	1310
Total Suspended Solids	72 J	<10	<10	15 J	22
TDS (Measured at 180 C)	1430	1070	1010	893	905
TDS - Calculated		1090			
Water Temperature (C) (Fld)		10.58	12.42	11.85	12.42

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-57	DH-57	DH-57	DH-57	DH-57
Water	SAMPLE DATE	12/12/2007	5/12/2008	11/11/2008	11/11/2008	5/14/2009
	SAMPLE TIME	09:50	09:25	08:30	08:45	15:05
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07120134-003	H08050190-003	H08110126-001	H08110126-002	H09050233-015
	SAMPLE NUMBER	AEH-0711-237	AEH-0805-206	AEH-0811-209	AEH-0811-210	AEH-0905-219
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		220	250	250	230
Bicarbonate (HCO3) (dis)	230				
Calcium (Ca) (dis)	52	61	49	48	52
Chloride (Cl)	21	19	16	16	13
Magnesium (Mg) (dis)	8	9	8	7	8
Potassium (K) (dis)	24	23	21	21	20
Sodium (Na) (dis)	158	139	121	121	112
Sulfate (SO4)	275	270	250	250	230
Total Alkalinity As CaCO3	190	180	210	200	180

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)	<0.005	0.0147 J+	<0.005	<0.005	
Selenium-VI (dis)	0.01	0.0088	<0.005	<0.005	
Aluminum (Al) (DIS)		<0.1	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)		0.117	0.064	0.064	0.073
Arsenic (As) (DIS)	2.507	1.636	2.33	2.33	1.89
Arsenic III (dis)	1.08	0.502	0.924 J	0.897 J	
Arsenic V (dis)	1.45	1.08	0.899 J	1 J	
Barium (Ba) (DIS)		<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)		<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (dis)	<0.001	<0.001	0.001	0.001	0.001
Chromium (Cr) (DIS)		<0.001	<0.001	<0.001	<0.001
Cobalt (Co) (DIS)		<0.01	<0.01	<0.01	0.0005 UJ
Copper (Cu) (dis)	<0.004	0.004	<0.004	<0.004	0.003 UJ
Gold (Au) (DIS)					<0.01
Iron (Fe) (dis)	0.48	0.56	0.62	0.61	0.51
Lead (Pb) (dis)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (dis)	0.91	0.91	1.32	1.32	1.16
Mercury (Hg) (DIS)		<0.006	<0.006	<0.006	<0.0001
Nickel (Ni) (DIS)		<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.014	0.028	0.008	0.008	0.01
Silver (Ag) (DIS)		<0.005	<0.005	<0.005	<0.005 J
Tellurium (Te) (DIS)					<0.1
Thallium (Tl) (DIS)		0.002	0.003	0.002	0.001
Vanadium (V) (DIS)		0.01	<0.01	<0.01	<0.01
Zinc (Zn) (dis)	0.04	<0.01	0.02 J	0.05 J	0.05 UJ

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.55	0.6	0.4		0.25
pH	7.5	7.4	7.7	7.7	8
Depth To Water Level (ft)	27.67	28.77	27.69		27.66

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-57	DH-57	DH-57	DH-57	DH-57
Water	SAMPLE DATE	12/12/2007	5/12/2008	11/11/2008	11/11/2008	5/14/2009
	SAMPLE TIME	09:50	09:25	08:30	08:45	15:05
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	ELI	Hydrometrics
	LAB NUMBER	H07120134-003	H08050190-003	H08110126-001	H08110126-002	H09050233-015
	SAMPLE NUMBER	AEH-0711-237	AEH-0805-206	AEH-0811-209	AEH-0811-210	AEH-0905-219
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS				Field Duplicate	

**Physical/Fld-Lab: ppm unless noted**

pH (Fld)	7.16	7.41	7.2		7.42
SC (umhos/cm at 25 C) (Fld)	1301	991	945		859
SC (umhos/cm at 25 C)	1050	948	978	975	876
Total Suspended Solids	11	10 J	<10	<10	<10
TDS (Measured at 180 C)	726	644	626	626	556
Water Temperature (C) (Fld)	9.7	10.8	10.5		10.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-58	DH-58	DH-58	DH-58	DH-58	DH-58
Water	SAMPLE DATE	7/11/2001	12/6/2001	6/1/2002	11/16/2002	6/1/2003	10/27/2003
	SAMPLE TIME	14:00	15:40	13:45	09:00	13:30	08:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011005004	L011627009	L020412034	L020956001	L030244015	L030600020
	SAMPLE NUMBER	EHC-0107-103	EHC-0111-228	EHC-0205-166	EHC-0211-164	AEH-0306-155	AEH-0310-380
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	166	171	244	171	200	167
Calcium (Ca) (DIS)	366	357	191	228	144	177
Carbonate As CO3	<1	<1	<1	<1	<2	<2
Chloride (Cl)	186	199	123	161	88	109
Magnesium (Mg) (DIS)	52	51	28	32	22	25
Potassium (K) (DIS)	43 J	50	32	36	33	34
Sodium (Na) (DIS)	303	379	409	309	242	343
Sulfate (SO4)	1285	1449	975	1095	732	730
Total Alkalinity As CaCO3	136	140	200	140	164	137

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05 J	<0.05	<0.05	<0.05		
Arsenic (As) (DIS)	1.7	1.8	2.2	1.9	2	2.2
Arsenic III (dis)	0.7	0.7	1.3	1	2.2	2.3
Arsenic V (dis)	1	2	0.9	0.9	<0.005 UJ	<0.02
Cadmium (Cd) (DIS)	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.02	0.009	0.02	0.01	0.009	0.005
Iron (Fe) (DIS)	0.02	<0.02	<0.02	<0.02	<0.02	<0.03
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	1.2	1.5	2.2	1.5	1.1	1.2
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential		34.9	11.4			
Oxygen (O) (DIS) (Fld)	3.01	1.1	2.4	0.04	1.03	0.25
pH	8	7.6	6.8	7.3	7.3	7.6
Silicon+Silica (Si+SiO2)	29	30	26	29		
Depth To Water Level (ft)	16.5	21.7	19.6	17.6	15.8	17.1
Eh (millivolts)	317.8	281				
pH (Fld)	6.6	6.6	6.5	6.1	6.7	6.27
SC (umhos/cm at 25 C) (Fld)	3080	2270	2370	2450	1940	2210
SC (umhos/cm at 25 C)	3060	3240	2420	2530	1994	2260
Total Suspended Solids	138	355	28	27	28	22
TDS (Measured at 180 C)	2503	2711	1822	1973	1446	1744
Salinity (G/KG) (Fld)				1.1	0.9	1
Turbidity (NTU) (Fld)				44	8	28
Water Temperature (C) (Fld)	13	12.3	10	13.7	10.3	13.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-58	DH-58	DH-58	DH-58	DH-58	DH-58
Water	SAMPLE DATE	5/27/2004	5/27/2004	11/1/2004	5/18/2005	11/16/2005	5/10/2006
	SAMPLE TIME	11:50	12:10	14:50	10:15	11:45	10:30
	LAB	ELI	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel
	LAB NUMBER	H04050208-009	H04050208-011	H04110018-010	C05050691-002	H05110136-009	H06050119-006
	SAMPLE NUMBER	AEH-0405-207	AEH-0405-209	AEH-0411-180	AEH-0505-186	AEH-0511-180	AEH-0605-208
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	220	230	160	202	180	230
Calcium (Ca) (DIS)	113	116	136	106	95	74 J+
Chloride (Cl)	74	76	70	118	44	35
Magnesium (Mg) (DIS)	14	15	18	14	13	9 J-
Potassium (K) (DIS)	24	23	30	24	25 J-	22
Sodium (Na) (DIS)	217	215	181	205	170 J-	175
Sulfate (SO4)	540	520	487	485	445	323
Total Alkalinity As CaCO3	180	190	140	165	150	190

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	2.077	2.068	1.906	2.08	2.207	2.21 J
Arsenic III (dis)	0.41 J	<0.03 J	<0.006	<0.005	<0.001	<0.01
Arsenic V (dis)	3.3	3.3	2	2.5	2.2	1
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	0.001	<0.001
Copper (Cu) (DIS)	0.006	0.006	0.004	<0.004	<0.004	0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	0.03	0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	1.34	1.31	0.54	0.36	0.06	0.02
Zinc (Zn) (DIS)	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.57		0.74	2.13	1.23	2.11
pH	7.2	7.3	7	7.18	6.9	7.1
Depth To Water Level (ft)	17.07		14.66	18.12	16.94	17.9
pH (Fld)	6.93		6.96	6.5	6.58	6.63
SC (umhos/cm at 25 C) (Fld)	1700		1698	1537	1270	1137
SC (umhos/cm at 25 C)	1610	1590	1460	1500	1310	1100
Total Suspended Solids	24	27	116 J	<10	156 J	22 J
TDS (Measured at 180 C)	1250	1260	1220	1040	958	860
TDS - Calculated				1080		
Water Temperature (C) (Fld)	10.7		13.1	9.42	14.22	10.53

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-58	DH-58	DH-58	DH-58	DH-58	DH-58
Water	SAMPLE DATE	11/20/2006	3/29/2007	5/21/2007	7/27/2007	9/12/2007	12/7/2007
	SAMPLE TIME	14:05	14:20	08:45	16:30	09:25	12:05
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110172-001	H07030246-003	H07050232-001	H07070291-013	H07090115-003	H07120076-005
	SAMPLE NUMBER	AEH-0611-222	AEH-0703-135	AEH-0705-190	AEH-0707-148	AEH-0709-143	AEH-0711-210
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	230	220	230	220	210	
Bicarbonate (HCO3) (dis)						210
Calcium (Ca) (DIS)	83	80	65	78	68	76
Chloride (Cl)	35	32	26	25	21	22
Magnesium (Mg) (DIS)	10	11	9	10	10	10
Potassium (K) (DIS)	21	22	18	21	25	23
Sodium (Na) (DIS)	140	181	184	148	157	141
Sulfate (SO4)	357	334	362	317	342	282
Total Alkalinity As CaCO3	190	180	180	180	170	170

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)						<0.005
Selenium-VI (DIS)						0.0404
Arsenic (As) (DIS)	2.166	2.36	2.322	1.974	2.002	2.016
Arsenic III (DIS)	<0.03	<0.03	<0.0071			<0.0282 A
Arsenic V (DIS)	2.3 J	2.4	2.38 J+			3.06 A
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	0.05	<0.02	<0.02	0.02 UJ	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)		0.059	0.052	0.062	0.072	0.056
Zinc (Zn) (DIS)	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	-40	-7				
Oxygen (O) (DIS) (Fid)	1.04	1.58	1.67	2.55	1.71	0.68
pH	7	7.3	7.6	7.3	7.1	7.7
Depth To Water Level (ft)	16.57	19.48	19.73	17.24	17.22	17.48
pH (Fid)	7.58	6.66	6.88	6.76	6.69	6.87
SC (umhos/cm at 25 C) (Fid)	1420	1250	1192	1126	1067	1077
SC (umhos/cm at 25 C)	1210	1170	1160	1100	1080	1030
Total Suspended Solids	206	382	80	25	32	41
TDS (Measured at 180 C)	864	806	808	770	756	719
Water Temperature (C) (Fid)	14.39	11.4	10.61	13.26	13.9	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-58	DH-58	DH-58	DH-58	DH-58	DH-58
Water	SAMPLE DATE	2/1/2008	5/9/2008	7/18/2008	11/11/2008	2/9/2009	5/6/2009
	SAMPLE TIME	13:20	13:20	15:35	10:10	11:15	10:00
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08020014-011	H08050176-010	H08070391-005	H08110126-007	H09020078-009	H09050142-005
	SAMPLE NUMBER	AEH-0801-151	AEH-0805-202	AEH-0807-178	AEH-0811-215	AEH-0902-170	AEH-0905-127
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	210	210	230	210	220	110
Calcium (Ca) (DIS)	68	65	70	66	57	32
Chloride (Cl)	27	20	15	15	15	5
Magnesium (Mg) (DIS)	9	9	9	9	8	7
Potassium (K) (DIS)	19	20	20	20	18	3
Sodium (Na) (DIS)	149	158	115	118	120	16
Sulfate (SO4)	331	310	310	260	270	53
Total Alkalinity As CaCO3	170	170	190	170	180	87

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005		<0.005		
Selenium-VI (DIS)		0.0534		0.053		
Aluminum (Al) (DIS)		<0.1		<0.1		<0.1
Antimony (Sb) (DIS)		0.086		0.091		<0.003
Arsenic (As) (DIS)	2.2	2.176	1.641	2.06	2.17	<0.005
Arsenic III (DIS)		<0.005		0.0249		
Arsenic V (DIS)		2.23		2.18		
Barium (Ba) (DIS)		<0.1		<0.1		<0.1
Beryllium (Be) (DIS)		<0.001		<0.001		<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.001		<0.001		<0.001
Cobalt (Co) (DIS)		<0.01		<0.01		<0.0005
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.001
Gold (Au) (DIS)						<0.01 UJ
Iron (Fe) (DIS)	0.04	<0.02	0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)		<0.006		<0.006		<0.0001
Nickel (Ni) (DIS)		<0.01		<0.01		<0.01
Selenium (Se) (DIS)	0.06	0.063	0.058 J	0.054	0.051	0.001
Silver (Ag) (DIS)		<0.005		<0.005		<0.005
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)		<0.002		<0.002		<0.001
Vanadium (V) (DIS)		<0.01		<0.01		<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.02 J	<0.02	<0.01 J

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.78	1.12	2.77	1.21	1.26	3.12
pH	7.2	7.2	7.2	7.4	7.2	7.1
Depth To Water Level (ft)	19.88	20.16	15.98	17.78	19.03	17.85
pH (Fld)	6.94	7.24	6.61	6.86	6.74	6.38

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-58	DH-58	DH-58	DH-58	DH-58	DH-58
Water	SAMPLE DATE	2/1/2008	5/9/2008	7/18/2008	11/11/2008	2/9/2009	5/6/2009
	SAMPLE TIME	13:20	13:20	15:35	10:10	11:15	10:00
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H08020014-011	H08050176-010	H08070391-005	H08110126-007	H09020078-009	H09050142-005
	SAMPLE NUMBER	AEH-0801-151	AEH-0805-202	AEH-0807-178	AEH-0811-215	AEH-0902-170	AEH-0905-127
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	1139	1042	1045	909	938	300
SC (umhos/cm at 25 C)	1010	1040	997	936	928	307
Total Suspended Solids	162	220	29	23	<10	<10
TDS (Measured at 180 C)	772	702	697	628	626	194
Water Temperature (C) (Fid)	12.4	11.8	13.1	12.8	11	10.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-58	DH-59	DH-59	DH-59	DH-59
Water	SAMPLE DATE	5/14/2009	7/11/2001	12/7/2001	5/30/2002	11/16/2002
	SAMPLE TIME	14:35	13:00	13:35	15:00	08:20
	LAB	ELI	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050233-014	L011005005	L011627019	L020398005	L020951014
	SAMPLE NUMBER	AEH-0905-218	EHC-0107-104	EHC-0111-240	EHC-0205-167	EHC-0211-165
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	210	43 U	79	61	93
Calcium (Ca) (DIS)	54	44	34	43	40
Carbonate As CO3		<1	<1	<1	<1
Chloride (Cl)	12	58	43	37	25
Magnesium (Mg) (DIS)	8	8.1	6.6	7.6	7.2
Potassium (K) (DIS)	17	46 J	28	25	25
Sodium (Na) (DIS)	119	83	79	77	64
Sulfate (SO4)	250	279	192	268	193
Total Alkalinity As CaCO3	170	35 U	65	50	76

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	1.3	0.8	1	0.7
Antimony (Sb) (DIS)	0.082				
Arsenic (As) (DIS)	1.99	14	20	17	19
Arsenic III (dis)		14	20	12	15
Arsenic V (dis)		<0.005	<0.005	5	3
Barium (Ba) (DIS)	<0.1				
Beryllium (Be) (DIS)	<0.001				
Cadmium (Cd) (DIS)	0.002	0.03	0.01	0.1	0.08
Chromium (Cr) (DIS)	<0.001				
Cobalt (Co) (DIS)	<0.0005				
Copper (Cu) (DIS)	0.003 UJ	0.004	<0.004	0.007	<0.004
Gold (Au) (DIS)	<0.01				
Iron (Fe) (DIS)	<0.02	5.3	3	2.5	1.8
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	2.7	1.8	2.3	2
Mercury (Hg) (DIS)	<0.0001				
Nickel (Ni) (DIS)	<0.01				
Selenium (Se) (DIS)	0.055				
Silver (Ag) (DIS)	<0.005 J				
Tellurium (Te) (DIS)	<0.1				
Thallium (Tl) (DIS)	<0.001				
Vanadium (V) (DIS)	<0.01				
Zinc (Zn) (DIS)	<0.01	1.3	0.6	1	0.6

**Nutrients: ppm unless noted**

Total Inorganic Carbon		11			
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**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential			-11.3	55	
Oxygen (O) (DIS) (Fld)	1.47	3.1	0.2	0.1	2.5
pH	7.6	6.1	7.1	6.3	6.7
Silicon+Silica (Si+SiO2)		16	18	20	18

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-58	DH-59	DH-59	DH-59	DH-59
Water	SAMPLE DATE	5/14/2009	7/11/2001	12/7/2001	5/30/2002	11/16/2002
	SAMPLE TIME	14:35	13:00	13:35	15:00	08:20
	LAB	Hydrometrics	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050233-014	L011005005	L011627019	L020398005	L020951014
	SAMPLE NUMBER	AEH-0905-218	EHC-0107-104	EHC-0111-240	EHC-0205-167	EHC-0211-165
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

Depth To Water Level (ft)	19.15	15	19.2	15.9	15.6
Eh (millivolts)		265.1	224		
pH (Fld)	6.92	6.08	7.7	6.01	5.2
SC (umhos/cm at 25 C) (Fld)	880	3960	691	909	577
SC (umhos/cm at 25 C)	897	911	735	762	693
Total Suspended Solids	12	119	70	18 J	37
TDS (Measured at 180 C)	576	582	467	522	458
Salinity (G/KG) (Fld)					0.2
Turbidity (NTU) (Fld)					81
Water Temperature (C) (Fld)	10.6	15.4	11.5	10	11.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-59	DH-59	DH-59	DH-59	DH-59	DH-59
Water	SAMPLE DATE	5/31/2003	10/26/2003	5/27/2004	11/2/2004	5/19/2005	5/19/2005
	SAMPLE TIME	15:45	11:40	12:35	14:25	10:10	10:15
	LAB	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Casper
	LAB NUMBER	L030243020	L030600005	H04050208-012	H04110029-013	C05050744-004	C05050744-005
	SAMPLE NUMBER	AEH-0306-139	AEH-0310-363	AEH-0405-210	AEH-0411-197	AEH-0505-204	AEH-0505-205
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)		102.5	115	130	130	140	139
Calcium (Ca) (DIS)		41	50	49	64	48	48
Carbonate As CO3		<2	<2				
Chloride (Cl)		18	21	22 UJ	20	6	12
Magnesium (Mg) (DIS)		7.1	8.5	7	10	8	8
Potassium (K) (DIS)		22	25	21	24	19	19
Sodium (Na) (DIS)		59	66	55	52	52	52
Sulfate (SO4)		200	166	160	248	147	145
Total Alkalinity As CaCO3		84	94	110	110	115	114
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)		14	18	12.07	16.4	13.4	13.8
Arsenic III (dis)		15	16	11	10	11.8	10.9
Arsenic V (dis)		<0.005	<0.02	3.2	5.3	1.9	2.1
Cadmium (Cd) (DIS)		0.3	0.03	0.509	0.108	0.158	0.166
Copper (Cu) (DIS)		0.05	<0.004	0.166	0.026	0.047	0.053
Iron (Fe) (DIS)		1.2	1.4	0.46	0.73	0.47	0.49
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		2.1	2.1	2.44	2.33	1.89	1.94
Zinc (Zn) (DIS)		2.2	0.3	3.77	0.56	1.2	1.28
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)		0.01	0.86	0.26	0.1	0.27	
pH		6.7	7.4	6.7	6.6	6.94	6.85
Depth To Water Level (ft)		15.4	16.08	16.3	14.51	16.14	
pH (Fld)		3.9	6.24	6.48	6.41	6.18	
SC (umhos/cm at 25 C) (Fld)		507	689	708	767	584	
SC (umhos/cm at 25 C)		705	690	648	700	607	609
Total Suspended Solids		15	11	17	36 J	<10	15
TDS (Measured at 180 C)		450	435	459	519	379	386
TDS - Calculated						370	373
Salinity (G/KG) (Fld)		0.2	0.2				
Turbidity (NTU) (Fld)		2	45				
Water Temperature (C) (Fld)		12.3	12.1	9.7	12.2	9.35	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-59	DH-59	DH-59	DH-59	DH-59	DH-59
Water	SAMPLE DATE	11/18/2005	5/10/2006	11/9/2006	4/4/2007	5/18/2007	5/18/2007
	SAMPLE TIME	09:10	14:00	00:00	14:30	09:00	09:05
	LAB	ELI-Hel	ELI-Hel	Hydrometrics	ELI	ELI	ELI
	LAB NUMBER	H05110164-002	H06050126-002	AEH-0611-DH59	H07040049-006	H07050219-002	H07050219-003
	SAMPLE NUMBER	AEH-0511-209	AEH-0605-215	AEH-0611-DH59	AEH-0703-154	AEH-0705-176	AEH-0705-177
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION			o Samp-No Access	No ORP-Pumping		
	REMARKS			No Sample			Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	120	130	140	130	130
Calcium (Ca) (DIS)	61	44	41	41	41
Chloride (Cl)	39	12	11	9	11
Magnesium (Mg) (DIS)	10	7	6	7	7
Potassium (K) (DIS)	21	18	15	15	16
Sodium (Na) (DIS)	64	51	46	48	49
Sulfate (SO4)	209	128	99	95	99
Total Alkalinity As CaCO3	98	110	110	110	110

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	15.44	14.06 J	14.85	14.15	14.38
Arsenic III (dis)	7.5	10	14.3	12.7 J	5.73 J
Arsenic V (dis)	12.3	3.2	1.8	2.05 J+	0.784 J
Cadmium (Cd) (DIS)	0.132	0.135	0.016	0.025	0.029
Copper (Cu) (DIS)	0.011	0.079	<0.004	0.005	0.005
Iron (Fe) (DIS)	0.66	0.43	0.53	0.5	0.52
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.56	1.72	1.71	1.81	1.82
Selenium (Se) (DIS)			<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	0.64	0.76	0.1	0.12	0.12

**Other: ppm unless noted**

No Analysis			0.0		
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.74	0.47	0.96	0.15	
pH	7.2	6.6	6.7	6.8	6.8
Depth To Water Level (ft)	15.55	15.17	16.37	18.48	
pH (Fld)	6.29	6.08	4.95	6.43	
SC (umhos/cm at 25 C) (Fld)	897	544	544	518	
SC (umhos/cm at 25 C)	790	587	534	476	475
Total Suspended Solids	114	404 J	80	28	24
TDS (Measured at 180 C)	533	371	356	330	333
Water Temperature (C) (Fld)	12.73	11.63	10.4	10.14	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-59	DH-59	DH-59	DH-59	DH-59	DH-59
Water	SAMPLE DATE	7/30/2007	9/13/2007	12/11/2007	2/4/2008	5/14/2008	7/23/2008
	SAMPLE TIME	13:30	11:00	09:45	10:40	12:35	14:15
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07070302-006	H07090135-007	H07120112-001	H08020017-003	H08050243-010	H08070463-011
	SAMPLE NUMBER	AEH-0707-154	AEH-0709-159	AEH-0711-225	AEH-0801-155	AEH-0805-246	AEH-0807-189
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	140	140		170	130	130
Bicarbonate (HCO3) (dis)			160			
Calcium (Ca) (DIS)	51	53	42	42	45 J+	46
Chloride (Cl)	22	10	10	9	8	8
Magnesium (Mg) (DIS)	8	8	6	6	7 J+	7
Potassium (K) (DIS)	18	20	17	18	17	19
Sodium (Na) (DIS)	46	50	43	44	38	42
Sulfate (SO4)	140	128	103	95	88	150
Total Alkalinity As CaCO3	110	110	130	140	110	110

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)			<0.005		0.0068	
Selenium-VI (dis)			0.005		<0.005	
Aluminum (Al) (DIS)					0.2	
Antimony (Sb) (DIS)					0.006	
Arsenic (As) (DIS)	13.49	14.16	14.58	14.85	12.87	12.8
Arsenic III (dis)			12.7		9.98	
Arsenic V (dis)			1.74		3.42	
Barium (Ba) (DIS)					<0.1	
Beryllium (Be) (DIS)					<0.001	
Cadmium (Cd) (DIS)	0.077	0.074	0.083	0.065	0.063 J+	0.176
Chromium (Cr) (DIS)					<0.001	
Cobalt (Co) (DIS)					<0.01	
Copper (Cu) (DIS)	0.005 J	0.004	<0.004	<0.004	<0.004	0.01
Iron (Fe) (DIS)	0.51	0.55	0.41	0.33	0.28	0.24
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.26	1.92	1.72	1.8	1.82	2.2
Mercury (Hg) (DIS)					<0.006	
Nickel (Ni) (DIS)					<0.01	
Selenium (Se) (DIS)	0.005	0.007	0.008	0.007	0.005	0.026
Silver (Ag) (DIS)					<0.005	
Thallium (Tl) (DIS)					0.129	
Vanadium (V) (DIS)					<0.01	
Zinc (Zn) (DIS)	0.28	0.23	0.22	0.17	0.15	0.55

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.22	0.34	0.41	0.33	0.23	0.16
pH	6.8	6.6	6.5	6.9	6.7	6.7
Depth To Water Level (ft)	16.6	17.34	17.01	17.42	17.75	16.15
pH (Fld)	6.4	6.44	6.4	6.68	6.55	6.27
SC (umhos/cm at 25 C) (Fld)	649	618	579	564	497	607

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-59	DH-59	DH-59	DH-59	DH-59	DH-59
Water	SAMPLE DATE	7/30/2007	9/13/2007	12/11/2007	2/4/2008	5/14/2008	7/23/2008
	SAMPLE TIME	13:30	11:00	09:45	10:40	12:35	14:15
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07070302-006	H07090135-007	H07120112-001	H08020017-003	H08050243-010	H08070463-011
	SAMPLE NUMBER	AEH-0707-154	AEH-0709-159	AEH-0711-225	AEH-0801-155	AEH-0805-246	AEH-0807-189
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C)	631	598	572	565	503	564
Total Suspended Solids	<10	<10	<10	13	59 J+	17
TDS (Measured at 180 C)	414	392	352	366	323	393
Water Temperature (C) (Fid)	11.25	11.9	11.6	10.5	10.7	10.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-59	DH-59	DH-59	DH-59	DH-6
Water	SAMPLE DATE	11/13/2008	2/10/2009	2/10/2009	5/18/2009	1/16/1985
	SAMPLE TIME	12:36	08:30	08:50	16:15	00:00
	LAB	ELI	ELI	ELI	ELI	TSC-SLC
	LAB NUMBER	H08110162-007	H09020089-001	H09020089-002	H09050256-015	85-680
	SAMPLE NUMBER	AEH-0811-243	AEH-0902-177	AEH-0902-178	AEH-0905-253	AEH-8501-121
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	100	170	170	140	266
Calcium (Ca) (DIS)	55	44	44	43	83
Chloride (Cl)	12	8	8	8	102
Magnesium (Mg) (DIS)	9	7	7	7	16
Potassium (K) (DIS)	24	19	19	19	89
Sodium (Na) (DIS)	43	38	38	36	230
Sulfate (SO4)	230	110	110	110	545
Total Alkalinity As CaCO3	82	140	140	120	218

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005				
Selenium-VI (DIS)	0.058				
Aluminum (Al) (DIS)	0.6			0.4	
Antimony (Sb) (DIS)	0.018			0.013	
Arsenic (As) (DIS)	12.2	13.5	13.5	11.7	8.4
Arsenic III (DIS)	8.7				
Arsenic V (DIS)	5.97 J				
Barium (Ba) (DIS)	<0.1			<0.1	
Beryllium (Be) (DIS)	<0.001			<0.001	
Cadmium (Cd) (DIS)	1.1	0.158	0.149	0.273	<0.001
Chromium (Cr) (DIS)	<0.001			<0.001	
Cobalt (Co) (DIS)	0.03			0.0073	
Copper (Cu) (DIS)	0.077	0.014	0.014	0.008	0.01
Gold (Au) (DIS)				<0.01	
Iron (Fe) (DIS)	0.2	0.24	0.23	0.15 UJ	0.04
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.48	1.92	1.9	2.12	0.05
Mercury (Hg) (DIS)	<0.006			<0.0001	
Nickel (Ni) (DIS)	0.06			0.01	
Selenium (Se) (DIS)	0.071	0.008	0.008	0.025	
Silver (Ag) (DIS)	<0.005			<0.005	
Tellurium (Te) (DIS)				<0.1	
Thallium (Tl) (DIS)	0.182			0.144	
Vanadium (V) (DIS)	<0.01			<0.01	
Zinc (Zn) (DIS)	12.3	0.43	0.42	0.82	0.03

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.48	1.09		0.16	
pH	6.6	6.7	6.8	7	7.7
Depth To Water Level (ft)	8.19	17.33		16.93	
pH (Fld)	5.93	6.29		6.33	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-59	DH-59	DH-59	DH-59	DH-6
Water	SAMPLE DATE	11/13/2008	2/10/2009	2/10/2009	5/18/2009	1/16/1985
	SAMPLE TIME	12:36	08:30	08:50	16:15	00:00
	LAB	Hydrometrics	Hydrometrics	ELI	Hydrometrics	TSC-SLC
	LAB NUMBER	H08110162-007	H09020089-001	H09020089-002	H09050256-015	85-680
	SAMPLE NUMBER	AEH-0811-243	AEH-0902-177	AEH-0902-178	AEH-0905-253	AEH-8501-121
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Field Duplicate		
<b>Physical/Fid-Lab: ppm unless noted</b>						
	SC (umhos/cm at 25 C) (Fld)	819	538		556	1668
	SC (umhos/cm at 25 C)	716	549	546	545	1800
	Total Suspended Solids	134	13	18	13	1650
	TDS (Measured at 180 C)	501	349	348	350	1220
	Water Temperature (C) (Fld)	11.36	10.5		9.3	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-6	DH-6	DH-6	DH-6	DH-6	DH-6
Water	SAMPLE DATE	1/16/1985	1/16/1985	4/8/1985	6/13/1985	6/13/1985	8/12/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	CAL	CAL	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	S5710	S5759	85-2478	85-4507	85-4497	85-6296
	SAMPLE NUMBER	AEH-8501-121	AEH-8501-121	AEH-8504-317	AEH-8506-514	AEH-8506-525	AEH-8508-722
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split	Field Duplicate			Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)				250			
Calcium (Ca) (DIS)	79.8	75.3		62			
Chloride (Cl)	54			41			
Magnesium (Mg) (DIS)	12.4	11.7		11			
Potassium (K) (DIS)	73.4	69.8		83			
Sodium (Na) (DIS)	192	186		200			
Sulfate (SO4)	540			351			
Total Alkalinity As CaCO3	220			205			

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.2	0.2					
Antimony (Sb) (DIS)	<0.01	0.01					
Arsenic (As) (DIS)	13	7.2	10.5	10.5	9.5	11.1	
Barium (Ba) (DIS)	0.05	0.05					
Beryllium (Be) (DIS)	<0.0006	<0.0006					
Cadmium (Cd) (DIS)	<0.004	<0.004	<0.001	0.001	<0.001	0.003	
Chromium (Cr) (DIS)	<0.002	0.006					
Cobalt (Co) (DIS)	<0.007	<0.007					
Copper (Cu) (DIS)	0.01	0.01		0.01			
Iron (Fe) (DIS)	0.05	0.03		0.04			
Lead (Pb) (DIS)	<0.003	0.004	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	0.1	0.05		0.005			
Mercury (Hg) (DIS)	<0.0002	<0.0002					
Nickel (Ni) (DIS)	<0.03	<0.03					
Selenium (Se) (DIS)	0.005	0.003					
Silver (Ag) (DIS)	<0.003	<0.003					
Thallium (Tl) (DIS)	<0.002	<0.002					
Tin (Sn) (DIS)	<0.04	<0.04					
Vanadium (V) (DIS)	0.01	0.02					
Zinc (Zn) (DIS)	0.04	0.03	0.02	0.02	0.02	0.02	0.02

**Physical/Fld-Lab: ppm unless noted**

pH	7.8		7.5	7.9		7.8
SC (umhos/cm at 25 C) (Fld)			1493	1364		1279
SC (umhos/cm at 25 C)	1000		1460	1430		1240
Total Suspended Solids	24			2		
TDS (Measured at 180 C)	1200		1020	953		826

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-6	DH-6	DH-6	DH-6	DH-6	DH-6
Water	SAMPLE DATE	11/25/1986	11/25/1986	11/25/1986	11/25/1986	6/4/1987	6/4/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	RMAL	TSC-SLC	RMAL	TSC-SLC	CHMTC	TSC-SLC
	LAB NUMBER	8611-26	86-7832	8611-36	86-7833	8706-08	87-4018
	SAMPLE NUMBER	AEH-8611-26	AEH-8611-26	AEH-8611-36	AEH-8611-36	AEH-8706-08	AEH-8706-08
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split		Field Duplicate	Field Duplicate	Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	182	242				237
Calcium (Ca) (DIS)	114		118		95.9	89.5
Carbonate As CO3	<5					<1
Chloride (Cl)	36				50	38 M
Magnesium (Mg) (DIS)	16.5		17		13.7	13
Potassium (K) (DIS)	97.1		99.5		84.6	86
Sodium (Na) (DIS)	198		204		174	202
Sulfate (SO4)	614	630			504.5	625 M

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	4.6	5.3	4.6	5	5.2	4.7 M
Arsenic III (dis)		4.7		3.8		4.7
Arsenic V (dis)		0.3		0.3		0.1
Cadmium (Cd) (DIS)	<0.005	<0.001	<0.005	<0.001	<0.004	0.001 M
Copper (Cu) (DIS)	<0.004		0.006		0.03	0.02 M
Iron (Fe +2) (TOT)		0.01		<0.01		<0.01
Iron (Fe) (DIS)	<0.03	0.02	<0.03	0.02	<0.1	<0.02
Lead (Pb) (DIS)	<0.05	<0.005	<0.05	<0.005	<0.003	<0.005
Manganese (Mn) (DIS)	0.005		0.006		<0.01	0.004
Zinc (Zn) (DIS)	0.002	0.01	<0.002	0.009	0.03	0.008

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)		1		1		1.4
pH	7.1	7.1 M				7.8
Depth To Water Level (ft)		13.2		13.2		13.5
pH (Fid)		7.4 M		7.4		7.1
SC (umhos/cm at 25 C) (Fid)		1668		1582		1529
SC (umhos/cm at 25 C)	1750	1750				1500
TDS (Measured at 180 C)	1200	1212			1024	1084
Water Temperature (C) (Fid)		11.2 M		11.2		13.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-6	DH-6	DH-6	DH-6	DH-6	DH-6
Water	SAMPLE DATE	11/20/1987	4/29/1988	12/19/1988	4/18/1989	4/18/1989	10/17/1989
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-10568	88-3122	88-3122	89-501	89-543	89-816
	SAMPLE NUMBER	AEH-8711-221	AEH-8804-305	AEH-8812-126	AEH-8904-205	AEH-8904-271	AEH-8910-405
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	229	186				
Calcium (Ca) (DIS)	148 M	116				
Carbonate As CO3	<1	<1				
Chloride (Cl)	32	35 J	27	41		22.6
Magnesium (Mg) (DIS)	20 M	14				
Potassium (K) (DIS)	122 M	95				
Sodium (Na) (DIS)	216	186				
Sulfate (SO4)	790 M	561	590	670		64

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	4.9	3.9	3.6	3.3	3.8	4.08 J
Arsenic III (dis)	<0.008	0.02	0.03 J	0.04 J	1.1	<0.008
Arsenic V (dis)	4.6	4.6	3.5	3.2 J	2.2 J	3
Cadmium (Cd) (DIS)	0.001	<0.001	<0.001	<0.002	<0.002 UJ	<0.001
Copper (Cu) (DIS)	0.01		0.008	0.01 J	0.03 J	<0.008
Iron (Fe +2) (TOT)	<0.01	0.04	<0.01	<0.01	<0.01	
Iron (Fe) (DIS)	0.03	0.03				
Lead (Pb) (DIS)	<0.005	<0.005	0.04	<0.02	<0.02	<0.01 UJ
Manganese (Mn) (DIS)	0.004					
Zinc (Zn) (DIS)	0.008	0.02 J	0.009	0.009	0.008	<0.008 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.4	2.5	3	2		1.8
pH	8.1	7.7	7.8	7		7.7
Depth To Water Level (ft)	15.4	15.2	15.8	14.8		13
pH (Fld)	7.2	7.1	7.6	6.4		7.5
SC (umhos/cm at 25 C) (Fld)	1931 M	1594	1673	1886		1665
SC (umhos/cm at 25 C)	1980	1600	1580	1700		1600
Total Suspended Solids	<1					
TDS (Measured at 180 C)	1495 M	1046	1204 J	1506		1224 J
Water Temperature (C) (Fld)	12.4	11.7	11.8	11.2		13

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-6	DH-6	DH-6	DH-6	DH-6	DH-6
Water	SAMPLE DATE	4/29/1990	12/3/1990	5/8/1991	11/19/1991	4/27/1992	11/15/1992
	SAMPLE TIME	00:00	00:00	00:00	12:30	13:50	13:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	90-1055	90-2240	91-2693	91-3869	92-4367	92-6789
	SAMPLE NUMBER	AEH-9005-405	AEH-9011-712	AEH-9105-141	AEH-9111-302	AEH-9204-177	EHC-9211-184
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)							119 J
Chloride (Cl)	27.7	22 J	22	20 J	190 JA		27
Magnesium (Mg) (Dis)							17
Potassium (K) (Dis)							117 J
Sodium (Na) (Dis)							207
Sulfate (SO4)	629	444 J	488	373	681 J		565

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	3.6	4.3	3.5	4	2.4		2.4
Arsenic III (dis)	0.05 U	4.4	0.004 UJ	0.02 U	0.02		<0.004
Arsenic V (dis)	3.2	0.08	3.4 J	4.5	2.2		2.9 J
Cadmium (Cd) (DIS)	0.001	0.003	0.001	0.001	0.001		0.001
Copper (Cu) (DIS)	0.008	<0.008	0.004	<0.004	0.004		0.006
Lead (Pb) (DIS)	<0.005 UJ	<0.005 UJ	<0.005	<0.005	<0.005		<0.005
Zinc (Zn) (DIS)	0.009 U		0.008	0.01	0.01		<0.006

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.8	2.2	4	2.9	2		2.1
pH	8.2	7.9	8.03	7.6	7.8		8.4
Depth To Water Level (ft)	15.7	16.6	15.9	12.4	14.4		13.02
pH (Fld)	7.5	7.7	7.5	6.9	7.2		7.3
SC (umhos/cm at 25 C) (Fld)	1678	1357	1395	1210	1826		1671
SC (umhos/cm at 25 C)	1590	1320	1400	1120	1800		1680
TDS (Measured at 180 C)	1199	921 J	1003	887 J	1299 J		1290
Water Temperature (C) (Fld)	10.8	11	11.8	16.5	14.7		12.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-6	DH-6	DH-6	DH-6	DH-6	DH-6
Water	SAMPLE DATE	5/5/1993	5/5/1993	11/10/1993	5/11/1994	11/11/1994	5/10/1995
	SAMPLE TIME	10:00	12:10	14:20	09:30	10:30	12:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-7780	93-7782	93-9221	94-1348	94-3280	95-4484
	SAMPLE NUMBER	EHC-9305-147	EHC-9305-149	EHC-9311-128	EHC-9405-133	EHC-9411-133	EHC-9505-133
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)	66	64				
Chloride (Cl)	17	17	38 J	31	27	31
Magnesium (Mg) (Dis)	8.7	8.6				
Potassium (K) (Dis)	83	81				
Sodium (Na) (Dis)	145	143				
Sulfate (SO4)	461	453	1250 J	895 J	713 J	790
Total Hardness As CaCO3	201	195				

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	3.2	3.1	1.7	2.6 J	2.6	2.5
Arsenic III (dis)	0.004	<0.004	<0.004	0.006	0.004 U	0.006
Arsenic V (dis)	2.6 J	2.9 J	2.01 J	2.04 J	2.2 J	2.5
Cadmium (Cd) (DIS)	0.001	0.001	<0.001	0.001	0.001	0.002
Copper (Cu) (DIS)	0.005	0.004	0.007	0.004	0.004	0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005 JU	<0.005 UJ	<0.005 J
Zinc (Zn) (DIS)	0.008	0.009	<0.006	0.006	<0.006	0.009

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3	3	2	3.1	3.6	4
pH						7.6
Depth To Water Level (ft)	12.8	12.8	11.8	12.9	13.8	14.7
pH (Fld)	7.3	7.3	6.8	6.9	7.6	7.1
SC (umhos/cm at 25 C) (Fld)	1249	1257	2190	2230	1967	2080
SC (umhos/cm at 25 C)	1300	1250	2280 J	2490 J	2030 J	2100 J
TDS (Measured at 180 C)	890	876	1746	1673	1453 J	1420 J
Water Temperature (C) (Fld)	10.5	10.5	13.6	11.6	13.4	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-6	DH-6	DH-6	DH-6	DH-6	DH-6
Water	SAMPLE DATE	11/8/1995	11/8/1995	5/9/1996	11/11/1996	11/11/1996	5/6/1997
	SAMPLE TIME	17:00	17:15	15:20	09:15	09:30	18:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-6126	95-6134	96-6783	96-7782	96-7781	97-905
	SAMPLE NUMBER	EHC-9511-135	EHC-9511-171	EHC-9605-119	EHC-9611-119	EHC-9611-153	EHC-9705-118
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	29 J	30 J	30	46	47	54
	Sulfate (SO4)	797 J	605 J	970	1805	1792	970
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	2.7 J	2.7	1.9	1.9	2	2.07
	Arsenic III (dis)	<0.004	<0.004	<0.005 UJ	<0.004	<0.004	<0.005
	Arsenic V (dis)	2.9 J	2.9 J	2.3 J	1.9 J	2	1.8
	Cadmium (Cd) (DIS)	<0.001	0.001	<0.005	<0.001	<0.001	0.002
	Copper (Cu) (DIS)	0.004	<0.004	0.006	0.01	0.01	0.05
	Lead (Pb) (DIS)	<0.005 JU	<0.005 J	<0.005	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	0.006	0.007	<0.02	0.02	0.01	0.02
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	2.4	2.2	4.9	3	3	4.5
	pH	7.6	7.5	7.4	7.7	7.7	7.2
	Depth To Water Level (ft)	12.4	12.4	13	14.4	14.4	14.3
	pH (Fld)	7.3	7.3	6.8	7.07	7.07	7.3
	SC (umhos/cm at 25 C) (Fld)	1822	1819	2170	3380	3380	2600
	SC (umhos/cm at 25 C)	1877 J	1875	2200	3080	3070	2570
	TDS (Measured at 180 C)	1342 J	1360 J	1695	2548	2473	1961
	Water Temperature (C) (Fld)	12.8	12.8	8.5	11	11	10.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-6	DH-6	DH-6	DH-6	DH-6	DH-6
Water	SAMPLE DATE	11/6/1997	11/6/1997	5/6/1998	11/19/1998	5/10/1999	11/11/1999
	SAMPLE TIME	14:30	14:45	16:35	14:30	16:50	14:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	192-2751	192-2757	260-3757	312-4441	347-4889	L992007015
	SAMPLE NUMBER	EHC-9711-119	EHC-9711-152	EHC-9805-120	EHC-9811-119	EHC-9905-119	EHC-9911-135
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)			210	216	183 J	201
Calcium (Ca) (DIS)			216	145	145	128
Carbonate As CO3					<1 UJ	<1
Chloride (Cl)	81	81	167	127	114	120
Magnesium (Mg) (DIS)			30	19	20	18
Potassium (K) (DIS)			247 J	225	191	187
Sodium (Na) (DIS)			436	352	343	312
Sulfate (SO4)	1098	1067	1361	1037	1238	1015
Total Alkalinity As CaCO3			172	177	150 J	165

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	2.3	2.3	1.7	1.9	1.7	1.8
Arsenic III (dis)	<0.005	<0.005	<0.005	0.01	<0.005	0.005
Arsenic V (dis)	2.04	2.07	1.7	1.8 J	1.9	1.9
Cadmium (Cd) (DIS)	0.001	0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.009	0.01	0.01	0.01	0.008	0.008 J
Iron (Fe) (DIS)			0.05	0.1	0.05 UJ	<0.02 J
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)			<0.02	<0.02 UJ	<0.02	<0.02
Zinc (Zn) (DIS)	0.02	0.02	0.03 J	0.03	<0.02	<0.02 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	2.5	2.3	2.6	1.8	2.5	1.7
pH	7.5	7.5	7.3	7.4	7.7	8.1
Depth To Water Level (ft)	11.5	11.5	14.1	13.3	14.8	12.7
Eh (millivolts)				392	323	405
pH (Fid)	7.7	7.7	6.9	8.2	7.2	7.4
SC (umhos/cm at 25 C) (Fid)	2550	2550	3060	2677	2450	2660
SC (umhos/cm at 25 C)	2510	2510	3390	2720	2770	2660
Total Suspended Solids	1 J	1 J				<1
TDS (Measured at 180 C)	1930 J	1916 J	2749	1968	2074	2059
Water Temperature (C) (Fid)	13.6	13.8	12.6	11.9	9	12.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-6	DH-6	DH-6	DH-6	DH-6	DH-6
Water	SAMPLE DATE	5/8/2000	11/13/2000	5/7/2001	11/13/2001	5/30/2002	11/16/2002
	SAMPLE TIME	12:10	16:00	13:45	16:50	10:15	12:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000705023	L001897022	L010655019	L011564011	L020398010	L020951004
	SAMPLE NUMBER	EHC-0005-134	EHC-0011-135	EHC-0105-161	EHC-0111-159	EHC-0205-175	EHC-0211-173
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	172	171	171	168	168	168
Calcium (Ca) (DIS)	52	71	93	138	144	236
Carbonate As CO3	<1	<1		<1	<1	<1
Chloride (Cl)	44	19	73	102	94	103
Magnesium (Mg) (DIS)	7.9	9.9	13	19	22	34
Potassium (K) (DIS)	115	148	182	243	179	270
Sodium (Na) (DIS)	177	209	220	251	249	301
Sulfate (SO4)	559	7.3	725	2037	995	1255
Total Alkalinity As CaCO3	141	140	140	138	138	138

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		<0.01	<0.05	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	2.2	1.9	1.6	1.5	1.4	1.2
Arsenic III (dis)	0.02 UJ	<0.02	0.6	0.6	0.4	0.5
Arsenic V (dis)	2.6	1.9	1	1	1	0.6
Cadmium (Cd) (DIS)	<0.001 J	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004 J	0.007	0.004	0.005	0.008
Iron (Fe) (DIS)	<0.02	0.2 U	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005 J	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02 J	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				67.5	-4.5	
Oxygen (O) (DIS) (Fld)	6.9	1.9	1.2	0.8	2.5	3.9
pH	7.7	8	8	7.6	7.5	7
Silicon+Silica (Si+SiO2)		18	17	20	18	18
Depth To Water Level (ft)	15.6	15.3	16.4	14.5	17.2	14.6
Eh (millivolts)	410	357	301	302		
pH (Fld)	7.3	7.01	7.5	7.4	7.2	6.3
SC (umhos/cm at 25 C) (Fld)	1487	2010	1848	2190	2270	2970
SC (umhos/cm at 25 C)	1521	1855	1974	2460	2270	3050
Total Suspended Solids			1.2	<1	3.4 J	1.6
TDS (Measured at 180 C)	1026	1333	1430	1847	1665	2399
Salinity (G/KG) (Fld)						1.4
Turbidity (NTU) (Fld)						1
Water Temperature (C) (Fld)	10	9.9	11.1	12.5	9.4	11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-6	DH-6	DH-6	DH-6	DH-6	DH-6
Water	SAMPLE DATE	6/3/2003	10/28/2003	5/24/2004	11/2/2004	5/12/2005	11/17/2005
	SAMPLE TIME	10:35	15:40	12:40	10:25	08:40	10:55
	LAB	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel
	LAB NUMBER	L030247002	L030604008	H04050162-003	H04110029-005	C05050485-001	H05110153-007
	SAMPLE NUMBER	AEH-0306-185	AEH-0310-408	AEH-0405-152	AEH-0411-189	AEH-0505-127	AEH-0511-199
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	168	183	190	180	200	200
Calcium (Ca) (DIS)	142	248	146	119	116	230
Carbonate As CO3	<2	<2				
Chloride (Cl)	84	107	67 J	60	45	80
Magnesium (Mg) (DIS)	23	37	21	17	18	33
Potassium (K) (DIS)	163	249	147	156	148	238
Sodium (Na) (DIS)	249	386	308	304	324	467
Sulfate (SO4)	1022	1573	1200	979	924	1760
Total Alkalinity As CaCO3	138	150	160	150	164	170

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.2	1.2	1.04	1.518	1.5	1.373
Arsenic III (dis)	1.3	1.4	<0.001	<0.0063	<0.005	<0.0003
Arsenic V (dis)	<0.005	<0.02 J	2	1.6	1.5	1.4
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.01	<0.004	<0.004	0.005	<0.004	0.006
Iron (Fe) (DIS)	<0.02	<0.03	0.22 J	<0.02	<0.02	0.03
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.01	<0.01	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.05	0.01	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.6	0.9	5.89	1.55	4.3	1.55
pH	7	7.6	7.4	7.6	7.69	7.2
Depth To Water Level (ft)	14	14.15	14.68	12.49	15.58	13.84
pH (Fld)	6.5	6.42	6.47	7.12	6.65	6.91
SC (umhos/cm at 25 C) (Fld)	2550	3380	2700	2544	2411	3790
SC (umhos/cm at 25 C)	2410	3440	2270	2140	2370	3680
Total Suspended Solids	4.2	7.5 J	<10 J	<10 J	<10	<10 J
TDS (Measured at 180 C)	1802	2680	1920	1810	1710	3010
TDS - Calculated					1690	
Salinity (G/KG) (Fld)	1.2	1.6	1.2			
Turbidity (NTU) (Fld)	1	2				
Water Temperature (C) (Fld)	9.3	11.9	8.9	11.6	8.4	12.11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-6	DH-6	DH-6	DH-6	DH-6	DH-6
Water	SAMPLE DATE	5/8/2006	11/14/2006	11/27/2007	2/1/2008	5/9/2008	5/9/2008
	SAMPLE TIME	09:20	13:50	13:45	12:10	10:15	10:30
	LAB	ELI-Hel	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06050082-002	H06110122-002	H07110199-002	H08020014-008	H08050176-004	H08050176-005
	SAMPLE NUMBER	AEH-0605-171	AEH-0611-177	AEH-0711-165	AEH-0801-147	AEH-0805-196	AEH-0805-197
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	230	260		290	270	270	
Bicarbonate (HCO3) (dis)			280				
Calcium (Ca) (DIS)	108	247	165	149	87	87	
Chloride (Cl)	62	90	62	55	30	29	
Magnesium (Mg) (DIS)	15	32	22	19	12	12	
Potassium (K) (DIS)	151	285	252	242	136	137	
Sodium (Na) (DIS)	349	544	473	449	304	305	
Sulfate (SO4)	961	1870	1530	1320	830	820	
Total Alkalinity As CaCO3	180	220	230	240	220	220	
<b>Metals (mg/L): ppm unless noted</b>							
Selenium-IV (DIS)			0.0053		<0.005 J	<0.005	
Selenium-VI (DIS)			0.629		0.287 J	0.275	
Aluminum (Al) (DIS)					<0.1	<0.1	
Antimony (Sb) (DIS)					0.064	0.065	
Arsenic (As) (DIS)	1.629	1.433	1.538	1.59	1.772	1.797	
Arsenic III (dis)	<0.005	<0.03	0.132 J-		<0.005	<0.005	
Arsenic V (dis)	1.8	1.6	1.67		2	2.14	
Barium (Ba) (DIS)					<0.1	<0.1	
Beryllium (Be) (DIS)					<0.001	<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chromium (Cr) (DIS)					<0.001	<0.001	
Cobalt (Co) (DIS)					<0.01	<0.01	
Copper (Cu) (DIS)	0.005	0.006 UJ	0.007 UJ	0.004 UJ	<0.004	<0.004	
Iron (Fe) (DIS)	<0.02	0.02	<0.03	0.03	<0.02	<0.02	
Lead (Pb) (DIS)	<0.005	<0.005	<0.003	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Mercury (Hg) (DIS)					<0.006	<0.006	
Nickel (Ni) (DIS)					<0.01	<0.01	
Selenium (Se) (DIS)			0.608	0.588	0.347	0.351	
Silver (Ag) (DIS)					<0.005	0.006	
Thallium (Tl) (DIS)					<0.002	<0.002	
Vanadium (V) (DIS)					0.01	<0.01	
Zinc (Zn) (DIS)	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxidation Reduction Potential		99					
Oxygen (O) (DIS) (Fld)	3.34	0.68	0.7	1.5	2.53		
pH	7.4	7.3	7.3	7.5	7.4	7.4	
Depth To Water Level (ft)	15.25	13.9	14.52	16.74	17.53		
pH (Fld)	6.93	6.93	7.29	7.11	7.24		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-6	DH-6	DH-6	DH-6	DH-6	DH-6
Water	SAMPLE DATE	5/8/2006	11/14/2006	11/27/2007	2/1/2008	5/9/2008	5/9/2008
	SAMPLE TIME	09:20	13:50	13:45	12:10	10:15	10:30
	LAB	Hydro	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	ELI
	LAB NUMBER	H06050082-002	H06110122-002	H07110199-002	H08020014-008	H08050176-004	H08050176-005
	SAMPLE NUMBER	AEH-0605-171	AEH-0611-177	AEH-0711-165	AEH-0801-147	AEH-0805-196	AEH-0805-197
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
<b>Physical/Fid-Lab: ppm unless noted</b>							
	SC (umhos/cm at 25 C) (Fid)	2682	4317	3127	3510	2215	
	SC (umhos/cm at 25 C)	2240	3910	3340	2970	2220	2240
	Total Suspended Solids	<10	<10	<10	<10	<10	<10
	TDS (Measured at 180 C)	1770	3330	2680	2540	1600	1630
	Water Temperature (C) (Fid)	9.4	11.92	11.59	10.3	8.7	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-6	DH-6	DH-6	DH-6	DH-60
Water	SAMPLE DATE	7/18/2008	11/5/2008	2/9/2009	5/14/2009	7/11/2001
	SAMPLE TIME	15:05	11:11	10:50	10:55	11:50
	LAB	ELI	ELI	ELI	ELI	TSC-SLC
	LAB NUMBER	H08070391-004	H08110073-005	H09020078-008	H09050233-006	L011005006
	SAMPLE NUMBER	AEH-0807-177	AEH-0811-173	AEH-0902-169	AEH-0905-210	EHC-0107-105
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	230	290	280	250	259
Calcium (Ca) (DIS)	78	154	114	67	290
Carbonate As CO3					<1
Chloride (Cl)	39	49	33	22	219
Magnesium (Mg) (DIS)	10	23	17	10	72
Potassium (K) (DIS)	150	183	193	152	22 J
Sodium (Na) (DIS)	278	443	367	278	134
Sulfate (SO4)	860	1400	1200	700	1766
Total Alkalinity As CaCO3	190	240	230	210	212

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		0.011 J-			
Selenium-VI (DIS)		0.727			
Aluminum (Al) (DIS)		<0.1 J		<0.1	<0.05 J
Antimony (Sb) (DIS)		0.061		0.064	
Arsenic (As) (DIS)	1.65	1.61	1.73	1.91	0.4
Arsenic III (DIS)		<0.005 J			0.1
Arsenic V (DIS)		1.22 J-			0.2
Barium (Ba) (DIS)		<0.1		<0.1	
Beryllium (Be) (DIS)		<0.001		<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	0.001
Chromium (Cr) (DIS)		<0.001		<0.001	
Cobalt (Co) (DIS)		<0.01		<0.0005	
Copper (Cu) (DIS)	<0.004	0.011	0.006	0.004 UJ	0.005
Gold (Au) (DIS)				<0.01	
Iron (Fe) (DIS)	<0.03	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	0.3
Mercury (Hg) (DIS)		<0.006		<0.0001	
Nickel (Ni) (DIS)		<0.01		<0.01	
Selenium (Se) (DIS)	0.44	0.68	0.52	0.319	
Silver (Ag) (DIS)		<0.005		<0.005 J	
Tellurium (Te) (DIS)				<0.1	
Thallium (Tl) (DIS)		<0.002		<0.001	
Vanadium (V) (DIS)		0.01		0.01	
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.01	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.48	1.36	1.76	2.54	5.7
pH	7.6	7.6	7.4	7.8	8
Silicon+Silica (Si+SiO2)					51

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-6	DH-6	DH-6	DH-6	DH-60
Water	SAMPLE DATE	7/18/2008	11/5/2008	2/9/2009	5/14/2009	7/11/2001
	SAMPLE TIME	15:05	11:11	10:50	10:55	11:50
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	TSC-SLC
	LAB NUMBER	H08070391-004	H08110073-005	H09020078-008	H09050233-006	L011005006
	SAMPLE NUMBER	AEH-0807-177	AEH-0811-173	AEH-0902-169	AEH-0905-210	EHC-0107-105
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

Depth To Water Level (ft)	14.16	14.9	16.31	16.79	28.8
Eh (millivolts)					327
pH (Fld)	7.01	7.01	7.06	7.34	6.8
SC (umhos/cm at 25 C) (Fld)	2304	3285	2863	2014	2300
SC (umhos/cm at 25 C)	2150	3230	2750	2010	2270
Total Suspended Solids	<10	<10	<10	<10	745
TDS (Measured at 180 C)	1600	2530	2050	1380	1866
Water Temperature (C) (Fld)	9.6	10.85	9.8	8.6	15.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-60	DH-60	DH-60	DH-60	DH-60	DH-60
Water	SAMPLE DATE	12/7/2001	5/30/2002	11/14/2002	5/31/2003	10/26/2003	5/26/2004
	SAMPLE TIME	12:10	13:45	13:00	12:40	08:00	13:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI
	LAB NUMBER	L011627018	L020398006	L020949012	L030243013	L030599-017	H04050191-015
	SAMPLE NUMBER	EHC-0111-239	EHC-0205-169	EHC-0211-167	AEH-0306-132	AEH-0310-355	AEH-0405-193
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	281	277	271	276	218	250
Calcium (Ca) (DIS)	291	290	342	366	385	361
Carbonate As CO3	2.4	<1	<1	<2	<2	
Chloride (Cl)	99	108	141	240	198	200
Magnesium (Mg) (DIS)	70	72	83	93	93	82
Potassium (K) (DIS)	17	17	20	22	19	17
Sodium (Na) (DIS)	137	144	149	153	168	141
Sulfate (SO4)	875	1008	1099	1159	1086	1200
Total Alkalinity As CaCO3	234	227	222	226	218	200

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05	<0.05			
Arsenic (As) (DIS)	0.8	0.8	0.8	0.7	0.86	0.762
Arsenic III (dis)	0.3	0.2	0.4	0.7	0.39	<0.0015
Arsenic V (dis)	0.5	0.6	0.4	0.07	0.55	0.59 J
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	0.004	0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	0.004	0.008	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.05	<0.02	<0.02	<0.02	<0.015	<0.01
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	21.1	-3.1				
Oxygen (O) (DIS) (Fld)	2.1	2.4	3.1	4.9	4.53	5.7
pH	8.4	7	7.3	7.6	7.8	7.7
Silicon+Silica (Si+SiO2)	56	55	51			
Depth To Water Level (ft)	31.05	30.2	28.5	27.9	29.3	30.32
Eh (millivolts)	257					
pH (Fld)	7.9	7.3	6.6	6.4	7.13	7.36
SC (umhos/cm at 25 C) (Fld)	1641	2170	2470	2950	2640	2470
SC (umhos/cm at 25 C)	2150	2160	2460	3070	2720	2470
Total Suspended Solids	879	1920	256	518	284 J	447
TDS (Measured at 180 C)	1803	1866	2068	2649	2303	2110
Salinity (G/KG) (Fld)			1.1	1.4	1.2	
Turbidity (NTU) (Fld)			22	328	300	
Water Temperature (C) (Fld)	11.2	14.9	13.5	14.5	13.3	14.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-60	DH-60	DH-60	DH-60	DH-60	DH-60
Water	SAMPLE DATE	10/28/2004	5/18/2005	11/16/2005	5/5/2006	11/17/2006	9/13/2007
	SAMPLE TIME	15:15	13:10	09:50	11:05	00:00	09:25
	LAB	ELI	ELI-Casper	ELI-Hel	ELI-Hel	Hydrometrics	ELI
	LAB NUMBER	H04100202-016	C05050691-009	H05110136-004	H06050065-008	AEH-061 1-201	H07090135-002
	SAMPLE NUMBER	AEH-0411-157	AEH-0505-193	AEH-0511-175	AEH-0605-161	AEH-061 1-201	AEH-0709-154
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		No As+3/+5			o Samp-Low SWL	
	REMARKS					No Sample	Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	270	256	280	290	310
Calcium (Ca) (DIS)	422	377	463	472	95
Chloride (Cl)	300	208	285	272	87
Magnesium (Mg) (DIS)	98	85	108	108	26
Potassium (K) (DIS)	22	18	21 J-	21	12
Sodium (Na) (DIS)	164	156	205 J-	204	240
Sulfate (SO4)	1100	994	1440	1290	401
Total Alkalinity As CaCO3	220	210	230	240	260

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.659	0.762	0.663	0.691	7.145
Arsenic III (dis)	<0.006		<0.001	<0.005	
Arsenic V (dis)	0.64		0.7	0.9	
Cadmium (Cd) (DIS)	<0.001	<0.001	0.002	<0.001	<0.001
Copper (Cu) (DIS)	0.004	0.017	<0.004	0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	0.12
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	8.27
Selenium (Se) (DIS)					0.013
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential					137.3
Oxygen (O) (DIS) (Fld)	5.3	3.02	2.92	2.99	8.35
pH	7.4	7.47	7.1	8	6.8
Depth To Water Level (ft)	27.74	29.89	27.33	29.31	26.46
pH (Fld)	6.97	6.96	6.98	6.99	7.08
SC (umhos/cm at 25 C) (Fld)	3097	3471	3370	3220	1601
SC (umhos/cm at 25 C)	2770	2780	3130	3010	1560
Total Suspended Solids	1040	64	68 J	320	<10
TDS (Measured at 180 C)	2560	2320	2800	2840	1110
TDS - Calculated		2010			
Water Temperature (C) (Fld)	13.4	14.33	16.48	15.81	12.03

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-60	DH-61	DH-61	DH-61	DH-61
Water	SAMPLE DATE	11/1/2007	5/30/2002	5/9/2005	11/3/2005	4/25/2006
	SAMPLE TIME	00:00	00:00	14:06	12:37	14:39
	LAB	Hydrometrics	ASARCO	ELI-Casper	ASARCO	Hydro
	LAB NUMBER	AEH-0711-DH60	EHC0205170	AEH-0505-DH61	AEH-0511-245	AEH-0605-DH61
	SAMPLE NUMBER	AEH-0711-DH60	EHC-0205-170	AEH-0505-DH61	AEH-0511-245	AEH-0605-DH61
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	Abandoned		No SWL-Dry	SWL Only	No SWL-Dry
	REMARKS	No Sample		No Sample	No Sample	No Sample

**Other: ppm unless noted**

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Analyses			0.0		
No Analysis	0.0			0.0	0.0
No Analysis					0.0

**Physical/Fid-Lab: ppm unless noted**

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Depth To Water Level (ft)			0.0		
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-61	DH-61	DH-62	DH-62	DH-62
Water	SAMPLE DATE	11/6/2006	11/1/2007	7/11/2001	7/11/2001	12/7/2001
	SAMPLE TIME	00:00	00:00	11:25	11:40	12:40
	LAB	Hydrometrics	Hydrometrics	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	z	AEH-0711-DH61	L011005007	L011005017	L011627016
	SAMPLE NUMBER	AEH-0611-DH61	AEH-0711-DH61	EHC-0107-107	EHC-0107-117	EHC-0111-236
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	No Samp-Dry	Dry			
	REMARKS	No Sample	No Sample		Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	275	273	261
Calcium (Ca) (DIS)	235	229	240
Carbonate As CO3	<1	<1	7
Chloride (Cl)	57	53	59
Magnesium (Mg) (DIS)	49	52	53
Potassium (K) (DIS)	20 J	9.1 J	11
Sodium (Na) (DIS)	50	49	45
Sulfate (SO4)	538	589	524
Total Alkalinity As CaCO3	225	224	226

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	0.1 J	<0.05 J	<0.05
Arsenic (As) (DIS)	0.02 U	0.01 U	0.007
Arsenic III (dis)	<0.005	0.008 U	<0.005
Arsenic V (dis)	0.01	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.03	<0.02	0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.05	0.04	0.04
Zinc (Zn) (DIS)	0.02	<0.02	<0.02

**Other: ppm unless noted**

No Analysis	0.0	0.0
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**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			-73.9
Oxygen (O) (DIS) (Fld)	3.03	3.04	1.09
pH	7.9	7.7	8.5
Silicon+Silica (Si+SiO2)	48	51	49
Depth To Water Level (ft)	41.7		44.4
Eh (millivolts)	321.6	321.9	162
pH (Fld)	6.7	6.8	8.2
SC (umhos/cm at 25 C) (Fld)	1546	1548	1353
SC (umhos/cm at 25 C)	1527	1530	1542
Total Suspended Solids	2.3 J	1.2 J	84
TDS (Measured at 180 C)	1243	1252	1236
Water Temperature (C) (Fld)	12.1	12.1	10.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-62	DH-62	DH-62	DH-62	DH-62	DH-62
Water	SAMPLE DATE	5/30/2002	11/14/2002	5/31/2003	10/26/2003	5/26/2004	10/28/2004
	SAMPLE TIME	13:10	13:30	13:30	09:00	15:15	14:35
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	L020398007	L020949013	L030243015	L030599-018	H04050191-017	H04100202-015
	SAMPLE NUMBER	EHC-0205-171	EHC-0211-169	AEH-0306-134	AEH-0310-356	AEH-0405-195	AEH-0411-156
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	288	276	271	216	280	260
Calcium (Ca) (DIS)	238	268	209	244	237	245
Carbonate As CO3	<1	<1	<2	<2		
Chloride (Cl)	58	64	51	55	62	60
Magnesium (Mg) (DIS)	54	58	48	55	50	52
Potassium (K) (DIS)	12	13	11	12	11	13
Sodium (Na) (DIS)	49	46	41	46	42	42
Sulfate (SO4)	564	616	599	518	550	499
Total Alkalinity As CaCO3	236	226	222	216	230	220

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05				
Arsenic (As) (DIS)	0.02	<0.005	0.007	<0.005	<0.005	<0.005
Arsenic III (dis)	0.007	<0.005	0.006	<0.005	<0.001	<0.001
Arsenic V (dis)	<0.005	<0.005	<0.005	<0.005	0.0061 J	0.0051
Cadmium (Cd) (DIS)	<0.001	<0.001	0.002	<0.001	<0.001	0.002
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.035
Iron (Fe) (DIS)	0.05	<0.02	<0.02	<0.03	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.1	0.05	0.06	<0.015	<0.01	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.01	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	-3.7					
Oxygen (O) (DIS) (Fld)	2.6	1.9	3.4	2.01	2.26	2.26
pH	7.2	7.4	7.7	7.8	7.6	7.6
Silicon+Silica (Si+SiO2)	47	45				
Depth To Water Level (ft)	44.9	43.3	42.6	43.62	45.78	42.61
pH (Fld)	7.2	6.6	6.4	6.97	7	6.78
SC (umhos/cm at 25 C) (Fld)	1560	1580	1510	1520	1570	1580
SC (umhos/cm at 25 C)	1528	1610	1550	1568	1490	1440
Total Suspended Solids	2 J	2.8	1.8	2.2	<10	11
TDS (Measured at 180 C)	1277	1292	1225	1286	1210	1180 J
Salinity (G/KG) (Fld)		0.7	0.6	0.6		
Turbidity (NTU) (Fld)		4	1	6		
Water Temperature (C) (Fld)	11.1	10.7	11.3	10.9	11.4	11.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-62	DH-62	DH-62	DH-62	DH-62	DH-62
Water	SAMPLE DATE	5/18/2005	11/11/2005	5/5/2006	5/5/2006	11/17/2006	11/17/2006
	SAMPLE TIME	12:00	13:30	12:05	12:15	10:08	10:15
	LAB	ELI-Casper	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI
	LAB NUMBER	C05050691-008	H05110105-012	H06050065-010	H06050065-011	H06110158-002	H06110158-003
	SAMPLE NUMBER	AEH-0505-192	AEH-0511-167	AEH-0605-163	AEH-0605-164	AEH-0611-202	AEH-0611-203
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	258	250	270	260	270	260
Calcium (Ca) (DIS)	255	254	250	247	241	243
Chloride (Cl)	57	65	72	75	70	75
Magnesium (Mg) (DIS)	54	56	54	53	52	52
Potassium (K) (DIS)	11	13	12	12	17	17
Sodium (Na) (DIS)	43	45	46	44	44	43
Sulfate (SO4)	578	575	549	553	543	561
Total Alkalinity As CaCO3	211	210	220	220	220	220

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.003	<0.002	<0.002	<0.002	0.006	0.003
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.005 J-	<0.005 J-
Arsenic V (dis)	<0.005 J	<0.005	0.009	<0.005	<0.005 J-	<0.005 J-
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					162.5	
Oxygen (O) (DIS) (Fld)	2.32	2.51	6.11		2.36	
pH	7.44	7.1	7.3	7.3	7.5	7.5
Depth To Water Level (ft)	45.3	42.26	44.14		40.86	
pH (Fld)	6.91	6.94	6.84		6.94	
SC (umhos/cm at 25 C) (Fld)	1660	1840	403		1682	
SC (umhos/cm at 25 C)	1600	1610	1560	1500	1550	1560
Total Suspended Solids	<10	10	<10	10	16	14
TDS (Measured at 180 C)	1310	1260	1300	1290	1330	1330
TDS - Calculated	1170					
Water Temperature (C) (Fld)	11.25	12.01	11.28		11.06	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-62	DH-62	DH-62	DH-62	DH-62	DH-62
Water	SAMPLE DATE	5/17/2007	11/29/2007	11/29/2007	5/6/2008	11/4/2008	5/11/2009
	SAMPLE TIME	14:45	10:33	10:40	11:00	12:27	11:10
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07050209-005	H07110229-002	H07110229-003	H08050097-009	H08110046-008	H09050178-002
	SAMPLE NUMBER	AEH-0705-172	AEH-0711-183	AEH-0711-184	AEH-0805-158	AEH-0811-164	AEH-0905-163
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	270			270	270	260
Bicarbonate (HCO3) (dis)		270	270			
Calcium (Ca) (DIS)	247	261	263	267	285	262
Chloride (Cl)	65	75	75	70	75	66
Magnesium (Mg) (DIS)	54	56	57	58	60	57
Potassium (K) (DIS)	11	12	12	13	13	13
Sodium (Na) (DIS)	46	46	47	47	46	53
Sulfate (SO4)	555	610	598	620	700	630
Total Alkalinity As CaCO3	220	220	220	220	220	220

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)		<0.005	<0.005	<0.005 J	<0.005	
Selenium-VI (dis)		0.135	0.134	0.104	0.132	
Aluminum (Al) (DIS)				<0.1	<0.1	<0.1
Antimony (Sb) (DIS)				<0.005	<0.005	<0.003
Arsenic (As) (DIS)	0.005	0.006	0.006	0.007	0.005	0.009
Arsenic (As) (TOT)		0.006	0.007			
Arsenic III (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	
Arsenic V (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	
Barium (Ba) (DIS)				<0.1	<0.1	<0.1
Beryllium (Be) (DIS)				<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)		<0.001	<0.001			
Chromium (Cr) (DIS)				<0.001	0.001	<0.001
Cobalt (Co) (DIS)				<0.01	<0.01	0.0011 UJ
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.002
Copper (Cu) (TOT)		<0.004	0.005			
Gold (Au) (DIS)						<0.01
Iron (Fe) (DIS)	<0.02	<0.02 J	<0.02 J	<0.02	<0.02	<0.02
Iron (Fe) (TOT)		0.27 J	1.93 J			
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)		<0.005	0.008			
Manganese (Mn) (DIS)	<0.01	<0.01 J	<0.01 J	<0.01	<0.01	<0.01
Manganese (Mn) (TOT)		0.01 J	0.06 J			
Mercury (Hg) (DIS)				<0.006	<0.006	<0.0001
Nickel (Ni) (DIS)				0.01	<0.01	<0.01
Selenium (Se) (DIS)		0.135	0.136	0.146	0.147	0.187
Selenium (Se) (TOT)		0.127	0.134			
Silver (Ag) (DIS)				<0.005	<0.005 J-	<0.005 R

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-62	DH-62	DH-62	DH-62	DH-62	DH-62
Water	SAMPLE DATE	5/17/2007	11/29/2007	11/29/2007	5/6/2008	11/4/2008	5/11/2009
	SAMPLE TIME	14:45	10:33	10:40	11:00	12:27	11:10
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07050209-005	H07110229-002	H07110229-003	H08050097-009	H08110046-008	H09050178-002
	SAMPLE NUMBER	AEH-0705-172	AEH-0711-183	AEH-0711-184	AEH-0805-158	AEH-0811-164	AEH-0905-163
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			

**Metals (mg/L): ppm unless noted**

Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)				<0.002	<0.002	<0.001
Vanadium (V) (DIS)				<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.01	<0.02	<0.01
Zinc (Zn) (TOT)		<0.02	<0.02			

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.3	2.35		2.15	2.2	2.3
pH	7.5	7.4	7.3	7.1	7.2	7.2
Depth To Water Level (ft)	44.29	42.02		45.08	42.58	45.11
pH (Fld)	7.01	7.08		6.78	6.74	7.03
SC (umhos/cm at 25 C) (Fld)	1670	1634		1619	1670	1692
SC (umhos/cm at 25 C)	1570	1570	1560	1520	1740	1660
Total Suspended Solids	<10	92 J	143 J	<10	<10	<10
TDS (Measured at 180 C)	1310	1330	1320	1310	1340	1320
Water Temperature (C) (Fld)	11.74	10.8		11.8	11.3	11.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-63	DH-63	DH-63	DH-63	DH-63	DH-63
Water	SAMPLE DATE	7/10/2001	12/6/2001	5/30/2002	11/16/2002	6/2/2003	10/28/2003
	SAMPLE TIME	16:10	14:45	08:00	13:40	15:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011005008	L011627006	L020398008	L020951006	L030245014	AEH-0310-409
	SAMPLE NUMBER	EHC-0107-108	EHC-0111-225	EHC-0205-172	EHC-0211-192	AEH-0306-176	AEH-0310-409
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						No Samp-Damaged
	REMARKS						No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	300	539	283	526	351
Calcium (Ca) (DIS)	192	163	168	184	139
Carbonate As CO3	<1	<1	<1	<1	<2
Chloride (Cl)	108	47	113	64	114
Magnesium (Mg) (DIS)	52	45	46	50	47
Potassium (K) (DIS)	9.8	5.9	6.7	8.6	7.1
Sodium (Na) (DIS)	169	179	152	181	146
Sulfate (SO4)	632	443	545	507	403
Total Alkalinity As CaCO3	246	442	232	431	288

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05	<0.05	<0.05	
Arsenic (As) (DIS)	<0.005	0.007	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	<0.005	0.005	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.008	0.004	0.006	0.005	0.007 J
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.07	0.03	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential		159.4	8.4		
Oxygen (O) (DIS) (Fld)	5.07	4.9	5.4	6.2	5.7
pH	7.9	8.2	7.2	7.6	7.7
Silicon+Silica (Si+SiO2)	32	30	32	28	
Depth To Water Level (ft)	32.5	38.8	38.7	35.1	34.5
Eh (millivolts)	536.6	406			
pH (Fld)	6.8	6.9	6.8	6.5	6.6
SC (umhos/cm at 25 C) (Fld)	1929	1266	1690	1830	1670
SC (umhos/cm at 25 C)	1876	1689	1662	1875	1731
Total Suspended Solids	37	567	5.8 J	67	3.7
TDS (Measured at 180 C)	1407	1234	1276	1419	1231
Salinity (G/KG) (Fld)				0.8	0.7
Turbidity (NTU) (Fld)				36	4
Water Temperature (C) (Fld)	12.7	9.9	11.6	11.5	12.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-63	DH-63	DH-63	DH-63	DH-63	DH-63
Water	SAMPLE DATE	5/24/2004	10/28/2004	5/20/2005	11/18/2005	5/8/2006	11/9/2006
	SAMPLE TIME	15:00	11:35	12:15	08:45	13:30	11:25
	LAB	ASARCO	ASARCO	ELI-Casper	ELI-Hel	ELI-Hel	ELI
	LAB NUMBER	AEH-0405-158	AEH-0411-146	C05050789-007	H05110164-001	H06050086-003	H06110081-009
	SAMPLE NUMBER	AEH-0405-158	AEH-0411-146	AEH-0505-225	AEH-0511-208	AEH-0605-182	AEH-0611-138
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	No Samp-Damaged	No Samp-Damaged				
	REMARKS	No Sample	No Sample				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	317	540	360	470
Calcium (Ca) (DIS)	151	169	151 J+	143
Chloride (Cl)	71	70	72	52
Magnesium (Mg) (DIS)	43	47	43 J-	39
Potassium (K) (DIS)	6	6	6	6
Sodium (Na) (DIS)	124	196	159	180
Sulfate (SO4)	442	397	432	388
Total Alkalinity As CaCO3	259	440	300	380

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.002	<0.002	0.006	0.005
Arsenic III (dis)	<0.005	0.004	<0.005	<0.005
Arsenic V (dis)	<0.005 J	<0.0003	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.01	<0.01
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				98
Oxygen (O) (DIS) (Fld)		6.08	5.33	3.85
pH			7.34	7.3
Depth To Water Level (ft)	36.87	33.2	37.69	33.88
pH (Fld)			6.7	6.66
SC (umhos/cm at 25 C) (Fld)			1465	1783
SC (umhos/cm at 25 C)			1460	1740
Total Suspended Solids			<10	70
TDS (Measured at 180 C)			980	1290
TDS - Calculated			1030	
Water Temperature (C) (Fld)			12.67	10.95
				12.81
				11.53

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-63	DH-63	DH-63	DH-63	DH-63
Water	SAMPLE DATE	5/11/2007	11/27/2007	5/6/2008	11/3/2008	5/8/2009
	SAMPLE TIME	09:00	13:10	09:10	15:30	14:35
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07050137-001	H07110199-001	H08050097-006	H08110021-007	H09050167-009
	SAMPLE NUMBER	AEH-0705-133	AEH-0711-162	AEH-0805-155	AEH-0811-153	AEH-0905-160
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	300		270	420	280
Bicarbonate (HCO3) (dis)		380			
Calcium (Ca) (DIS)	151	117	111 J-	149	115
Chloride (Cl)	92	52	60	53	39
Magnesium (Mg) (DIS)	44	33	31	40	31
Potassium (K) (DIS)	7	5	5	6	5
Sodium (Na) (DIS)	154	152	100	174	101
Sulfate (SO4)	453	367	340	390	300
Total Alkalinity As CaCO3	250	310	220	340	230

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005	<0.005	<0.005	
Selenium-VI (DIS)		0.189	0.16	0.14	
Aluminum (Al) (DIS)			<0.1	<0.1	0.2
Antimony (Sb) (DIS)			<0.005	<0.005	<0.003
Arsenic (As) (DIS)	0.005	0.005	0.005	0.003	0.008
Arsenic III (DIS)	<0.001	0.0014 J-	<0.005	<0.005 R	
Arsenic V (DIS)	<0.001	<0.001	<0.005	<0.005 R	
Barium (Ba) (DIS)			<0.1	<0.1	<0.1
Beryllium (Be) (DIS)			<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)			<0.001	<0.001	<0.001
Cobalt (Co) (DIS)			<0.01	<0.01	0.0008
Copper (Cu) (DIS)	<0.004	0.002 UJ	<0.004	<0.004	0.004
Gold (Au) (DIS)					<0.01
Iron (Fe) (DIS)	<0.02	<0.01	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.003	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)			<0.006	<0.006	<0.0001
Nickel (Ni) (DIS)			<0.01	<0.01	<0.01
Selenium (Se) (DIS)		0.209	0.2	0.148	0.218
Silver (Ag) (DIS)			<0.005	<0.005	<0.005
Tellurium (Te) (DIS)					<0.1
Thallium (Tl) (DIS)			<0.002	<0.002	<0.001
Vanadium (V) (DIS)			<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	0.01	<0.02	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.65	6.76	5.59	6.88	5.31
pH	7.2	7.4	7.1	7.7	7.5
Depth To Water Level (ft)	37.58	34.64	38.79	34.72	38.55

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-63	DH-63	DH-63	DH-63	DH-63
Water	SAMPLE DATE	5/11/2007	11/27/2007	5/6/2008	11/3/2008	5/8/2009
	SAMPLE TIME	09:00	13:10	09:10	15:30	14:35
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H07050137-001	H07110199-001	H08050097-006	H08110021-007	H09050167-009
	SAMPLE NUMBER	AEH-0705-133	AEH-0711-162	AEH-0805-155	AEH-0811-153	AEH-0905-160
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fld-Lab: ppm unless noted**

pH (Fld)	6.93	7.19	6.9	6.59	6.91
SC (umhos/cm at 25 C) (Fld)	1606	1255	1264	1548	1313
SC (umhos/cm at 25 C)	1420	1330	1190	1540	1160
Total Suspended Solids	<10	<10	<10	100	<10
TDS (Measured at 180 C)	1180	979	850	1060	801
Water Temperature (C) (Fld)	12.48	11.15	13.6	11.56	13.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-64	DH-64	DH-64	DH-64	DH-64	DH-64
Water	SAMPLE DATE	7/11/2001	8/27/2001	12/6/2001	5/30/2002	11/4/2002	11/5/2002
	SAMPLE TIME	11:00	17:10	15:20	12:30	15:30	11:55
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011005009	L011254001	L011627008	L020398009	L020925001	L020926001
	SAMPLE NUMBER	EHC-0107-109	EHC-0108-200	EHC-0111-227	EHC-0205-173	EHC-0211-100	EHMP-0211-100
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	87	122	121	137	171	161
Calcium (Ca) (DIS)	77	66	99	126	105	104
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Chloride (Cl)	148	138	189	237	187	187
Magnesium (Mg) (DIS)	28	25	37	45	38	37
Potassium (K) (DIS)	17 J	17	22	22	22	22
Sodium (Na) (DIS)	308	277	385	547	479	481
Sulfate (SO4)	742	668	835	1193	1092	1033
Total Alkalinity As CaCO3	71	100	99	112	140	132

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	0.3 J	0.4	0.3	0.3	0.2	
Arsenic (As) (DIS)	31	34	36	39	36	35
Arsenic III (dis)	31	40	32	24	34	38
Arsenic V (dis)	<0.005	<0.005	2	14	2	<0.005
Cadmium (Cd) (DIS)	0.07	0.06	0.09	0.1	0.08	0.09
Copper (Cu) (DIS)	0.008	<0.004	0.008	0.02	<0.004	<0.004
Iron (Fe) (DIS)	11	9.6	14	16	12	13
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	8.9	7.6	11	13	11	11
Zinc (Zn) (DIS)	3.7	3.2	4.6	4.6	3.7	3.8

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			-7.6	49.4		
Oxygen (O) (DIS) (Fld)	2.9	0.8	0.9	0.04	0.3	0.3
pH	6.5	7.1	7.5	7.2	7.4	7.4
Silicon+Silica (Si+SiO2)	35	29	30	27	25	
Depth To Water Level (ft)	30.2	29.7	35.7	35.2	31.4	31.5
Eh (millivolts)	36.5		239			
pH (Fld)	6.5	6.2	6.7	6.3	6.4	5.9
SC (umhos/cm at 25 C) (Fld)	2020	1887	1800	2990	2980	887 A
SC (umhos/cm at 25 C)	1992	1936	2450	2980	2990	2980
Total Suspended Solids	56	24	21	28 J	24	
TDS (Measured at 180 C)	1407	1366	1783	2233	2160	2138
Water Temperature (C) (Fld)	13.5	14.1	10.8	12.3	12.3	12.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-64	DH-64	DH-64	DH-64	DH-64	DH-64
Water	SAMPLE DATE	11/5/2002	11/5/2002	11/5/2002	12/11/2002	12/11/2002	12/11/2002
	SAMPLE TIME	12:25	12:50	13:15	10:00	10:05	10:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020926002	L020926003	L020926004	L021012001	L021012002	L021012003
	SAMPLE NUMBER	EHMP-0211-101	EHMP-0211-102	EHMP-0211-103	EHDM-0212-100	EHDM-0212-101	EHDM-0212-102
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	153	167	156
Calcium (Ca) (DIS)	105	106	104
Carbonate As CO3	<1	<1	<1
Chloride (Cl)	189	196	197
Magnesium (Mg) (DIS)	38	38	37
Potassium (K) (DIS)	23	22	22
Sodium (Na) (DIS)	471	476	487
Sulfate (SO4)	981	1093	1097
Total Alkalinity As CaCO3	125	137	128

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	36	37	36	16	17	17
Arsenic III (dis)	37	38	38			
Arsenic V (dis)	2	<0.005	<0.005			
Cadmium (Cd) (DIS)	0.08	0.08	0.08			
Copper (Cu) (DIS)	<0.004	<0.004	<0.004			
Iron (Fe) (DIS)	13	13	13			
Lead (Pb) (DIS)	<0.005	<0.005	<0.005			
Manganese (Mn) (DIS)	11	11	11			
Zinc (Zn) (DIS)	3.8	3.8	3.8			

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.2	0.1	0.1
pH	7.3	7.1	6.8
pH (Fld)	5.9	5.7	5.8
SC (umhos/cm at 25 C) (Fld)	896 A	866 A	868 A
SC (umhos/cm at 25 C)	2970	2980	2980
TDS (Measured at 180 C)	2118	2159	2156
Water Temperature (C) (Fld)	13.4	12.5	12.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-64	DH-64	DH-64	DH-64	DH-64	DH-64
Water	SAMPLE DATE	12/11/2002	6/2/2003	10/29/2003	5/20/2004	11/2/2004	5/18/2005
	SAMPLE TIME	10:15	12:15	15:10	09:15	16:50	15:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper
	LAB NUMBER	L021012004	L030245008	L030605009	H04050133-001	H04110029-018	C05050691-014
	SAMPLE NUMBER	EHDM-0212-103	AEH-0306-170	AEH-0310-431	AEH-0405-124	AEH-0411-202	AEH-0505-198
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		204	238	260	300	272
Calcium (Ca) (DIS)		62	73	44	45	35
Carbonate As CO3		<2	<2			
Chloride (Cl)		158	147	120	100	76
Magnesium (Mg) (DIS)		24	26	15	15	12
Potassium (K) (DIS)		18	20	15	15	11
Sodium (Na) (DIS)		439	463	398	336	367
Sulfate (SO4)		824	972	800	749	559
Total Alkalinity As CACO3		167	195	210	250	223

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	17	36	38	33.76	37.7	34.7
Arsenic III (dis)		35	43	3.2 J	38	41.8
Arsenic V (dis)		1	<0.05	38 J	2.7	3.1
Cadmium (Cd) (DIS)		0.05	0.05	0.026	0.034	0.01
Copper (Cu) (DIS)		0.004 J	0.007	<0.004	<0.004	<0.004
Iron (Fe) (DIS)		6.5	6.5	3.4	3.23	1.98
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		6.4	7.1	3.94	4.14	3.04
Zinc (Zn) (DIS)		2	1.8	0.8	0.75	0.56

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		0.3	0.3	0.29	0.09	0.07
pH		6.8	7.6	7	7.1	7.05
Depth To Water Level (ft)		32.7	31.55	33.23	29.77	34.02
pH (Fld)		6.2	5.98	6.04	6.51	6.12
SC (umhos/cm at 25 C) (Fld)		2560	2660	2310	2257	2081
SC (umhos/cm at 25 C)		2640	2710	2440	1980	1960
Total Suspended Solids		23	79	14	29 J	15
TDS (Measured at 180 C)		1795	1919	1520	1500	1280
TDS - Calculated						1210
Salinity (G/KG) (Fld)		1.2	1.2	1.1		
Turbidity (NTU) (Fld)		7	9	0.0		
Water Temperature (C) (Fld)		12.6	11.5	12.3	12.6	12.73

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-64	DH-64	DH-64	DH-64	DH-64	DH-64
Water	SAMPLE DATE	11/17/2005	11/17/2005	5/9/2006	5/9/2006	11/9/2006	3/29/2007
	SAMPLE TIME	09:25	09:30	14:10	14:15	15:05	14:00
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI
	LAB NUMBER	H05110153-003	H05110153-004	H06050103-011	H06050103-012	H06110083-004	H07030246-001
	SAMPLE NUMBER	AEH-0511-195	AEH-0511-196	AEH-0605-198	AEH-0605-199	AEH-0611-143	AEH-0703-133
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	330	320	350	350	410	420
Calcium (Ca) (DIS)	39	39	41 J+	40 J+	44	40
Chloride (Cl)	79	79	72	72	67	57
Magnesium (Mg) (DIS)	13	13	13 J-	13 J-	14	14
Potassium (K) (DIS)	19	20	14	14	14	13
Sodium (Na) (DIS)	457	464	443	437	427	452
Sulfate (SO4)	608	632	664	678	558	528
Total Alkalinity As CaCO3	270	270	290	290	330	350

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	33.66	33.6	36.26	36.16	35.2	33.12
Arsenic III (dis)	20	21.4	2.5 J	32.7 J	35.2	31.6
Arsenic V (dis)	25.6	27.7	<0.02	<0.1	3.2	6.3
Cadmium (Cd) (DIS)	0.022	0.022	0.019	0.019	0.023	0.019
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	2.37	2.36	2.15	2.14	2.35	1.84
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.58	3.57	3.63	3.61	3.81	3.55
Selenium (Se) (DIS)						0.012
Zinc (Zn) (DIS)	0.6	0.6	0.59	0.59	0.6	0.52

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential					-6.1	-8.8
Oxygen (O) (DIS) (Fid)	1.29		0.57		2.01	0.33
pH	6.7	6.7	7	7	7	7.2
Depth To Water Level (ft)	30.65		33.13		30.61	33.65
pH (Fid)	6.51		6.48		6.55	6.66
SC (umhos/cm at 25 C) (Fid)	2210		2080		2189	2035
SC (umhos/cm at 25 C)	2120	2120	1950	1910	2070	2000
Total Suspended Solids	91 J	137 J	<10	<10	23 J	12
TDS (Measured at 180 C)	1480	1510	1440	1480	1510	1340
Water Temperature (C) (Fid)	13.22		13.15		12.18	12.43

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-64	DH-64	DH-64	DH-64	DH-64	DH-64
Water	SAMPLE DATE	5/23/2007	5/23/2007	7/30/2007	7/30/2007	9/13/2007	12/11/2007
	SAMPLE TIME	15:15	15:15	09:15	09:30	11:30	15:45
	LAB	EPA-R8	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	8705007-28	H07050276-002	H07070302-001	H07070302-002	H07090135-008	H07120112-009
	SAMPLE NUMBER	AEH-0705-223	AEH-0705-223	AEH-0707-149	AEH-0707-150	AEH-0709-160	AEH-0711-234
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	AEH-0705-223-S	EPA Split				
	REMARKS	Split			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	350	380	380	360	
Bicarbonate (HCO3) (dis)					420
Calcium (Ca) (DIS)	33	34	34	36	36
Chloride (Cl)	57	52	49	47	50
Magnesium (Mg) (DIS)	11	11	11	12	12
Potassium (K) (DIS)	12	12	12	13	11
Sodium (Na) (DIS)	401	380	385	396	369
Sulfate (SO4)	540	575	565	494	506
Total Alkalinity As CaCO3	290	310	310	300	350

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005				<0.005
Selenium-VI (DIS)		<0.005				<0.005
Aluminum (Al) (DIS)	<0.5					
Antimony (Sb) (DIS)	<0.001					
Arsenic (As) (DIS)	29.7	33	34.9	34.6	32.6	35.1
Arsenic III (DIS)		38.8 J				34.6
Arsenic V (DIS)		2.09				1.22
Barium (Ba) (DIS)	0.016					
Beryllium (Be) (DIS)	0.002					
Cadmium (Cd) (DIS)	0.0154	0.016	0.016	0.016	0.017	0.016
Chromium (Cr) (DIS)	<0.002					
Cobalt (Co) (DIS)	0.005					
Copper (Cu) (DIS)	<0.01	<0.004	<0.004 J	<0.004 J	<0.004	<0.004
Iron (Fe) (DIS)	1.5	1.51	1.5	1.52	1.58	1.51
Lead (Pb) (DIS)	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.98	2.91	3.06	3.06	2.55	2.78
Mercury (Hg) (DIS)	<0.0001					
Nickel (Ni) (DIS)	0.0034					
Selenium (Se) (DIS)	0.0365	0.017	0.009	0.008	0.015	0.011
Silver (Ag) (DIS)	<0.0005					
Thallium (Tl) (DIS)	<0.0003					
Tin (Sn) (DIS)	<0.2					
Vanadium (V) (DIS)	<0.01					
Zinc (Zn) (DIS)	0.433	0.41	0.44	0.44	0.41	0.38

**Nutrients: ppm unless noted**

Total Organic Carbon	2.1
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.29	0.18		0.28	0.23
pH	7.5	7.1	7.1	6.9	6.9
Depth To Water Level (ft)	34.18	29.12		30.18	31.41

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-64	DH-64	DH-64	DH-64	DH-64
Water	SAMPLE DATE	5/23/2007	7/30/2007	7/30/2007	9/13/2007	12/11/2007
	SAMPLE TIME	15:15	09:15	09:30	11:30	15:45
	LAB	Hydrometrics	Hydrometrics	ELI	Hydrometrics	Hydrometrics
	LAB NUMBER	H07050276-002	H07070302-001	H07070302-002	H07090135-008	H07120112-009
	SAMPLE NUMBER	AEH-0705-223	AEH-0707-149	AEH-0707-150	AEH-0709-160	AEH-0711-234
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	EPA Split				
	REMARKS			Field Duplicate		

**Physical/Fid-Lab: ppm unless noted**

pH (Fld)	6.66	6.66		6.69	6.64
SC (umhos/cm at 25 C) (Fld)	2095	2031		1961	1997
SC (umhos/cm at 25 C)	1940	1960	1960	1890	1980
Total Suspended Solids	14	<10	<10	<10	<10
TDS (Measured at 180 C)	1370	1350	1340	1320	1380
Water Temperature (C) (Fld)	13.3	12.84		12.5	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-64	DH-64	DH-64	DH-64	DH-64	DH-64
Water	SAMPLE DATE	2/11/2008	5/15/2008	5/15/2008	7/23/2008	11/13/2008	2/10/2009
	SAMPLE TIME	09:50	11:20	11:30	13:45	15:56	09:15
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08020076-001	H08050268-005	H08050268-006	H08070463-009	H08110162-014	H09020089-003
	SAMPLE NUMBER	AEH-0801-160	AEH-0805-254	AEH-0805-255	AEH-0807-187	AEH-0811-250	AEH-0902-179
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	440	340	340	310	390	400
Calcium (Ca) (DIS)	33	27	27	20	26	25
Chloride (Cl)	45	37	36	37	42	40
Magnesium (Mg) (DIS)	11	9	9	7	9	9
Potassium (K) (DIS)	12	12	11	10	11	11
Sodium (Na) (DIS)	392	349	346	299	355	334
Sulfate (SO4)	512	470	470	430	480	500
Total Alkalinity As CaCO3	360	280	280	250	320	330

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005	<0.005		<0.005	
Selenium-VI (DIS)		<0.005	<0.005		<0.005	
Aluminum (Al) (DIS)		<0.1	<0.1		<0.1	
Antimony (Sb) (DIS)		<0.005	<0.005		<0.005	
Arsenic (As) (DIS)	33.7	33.08	32.5	30.5	32	30.3
Arsenic III (DIS)		26.4	26		29.7	
Arsenic V (DIS)		1.24	1.02		4.05 J	
Barium (Ba) (DIS)		<0.1	<0.1		<0.1	
Beryllium (Be) (DIS)		0.001	0.001		0.001	
Cadmium (Cd) (DIS)	0.014	0.012	0.011	0.007	0.011	0.011
Chromium (Cr) (DIS)		<0.001	<0.001		<0.001	
Cobalt (Co) (DIS)		<0.01	<0.01		<0.01	
Copper (Cu) (DIS)	0.01	<0.004	<0.004	0.006	<0.004	<0.004
Iron (Fe) (DIS)	1.32	0.98	0.97	0.72	0.86	0.82
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.61	2.18	2.19	1.74	1.99	2.05
Mercury (Hg) (DIS)		<0.006	<0.006		<0.006	
Nickel (Ni) (DIS)		<0.01	<0.01		<0.01	
Selenium (Se) (DIS)	0.009	0.007	0.007	0.009	0.012	0.008
Silver (Ag) (DIS)		<0.005	<0.005		<0.005	
Thallium (Tl) (DIS)		<0.002	<0.002		<0.002	
Vanadium (V) (DIS)		<0.01	<0.01		<0.01	
Zinc (Zn) (DIS)	0.34	0.27	0.27	0.21	0.24	0.23

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.56	0.54		0.12	0.21	0.5
pH	7	6.9	6.9	6.9	7.2	7.1
Depth To Water Level (ft)	34.37	35.37		32	31.54	33.91
pH (Fld)	6.95	6.4		6.74	6.63	6.72
SC (umhos/cm at 25 C) (Fld)	1989	1767		1625	1736	1733
SC (umhos/cm at 25 C)	1910	1690	1670	1500	1720	1730

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-64	DH-64	DH-64	DH-64	DH-64	DH-64
Water	SAMPLE DATE	2/11/2008	5/15/2008	5/15/2008	7/23/2008	11/13/2008	2/10/2009
	SAMPLE TIME	09:50	11:20	11:30	13:45	15:56	09:15
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08020076-001	H08050268-005	H08050268-006	H08070463-009	H08110162-014	H09020089-003
	SAMPLE NUMBER	AEH-0801-160	AEH-0805-254	AEH-0805-255	AEH-0807-187	AEH-0811-250	AEH-0902-179
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Total Suspended Solids	13	<10	<10	<10	<10	<10
	TDS (Measured at 180 C)	1290	1170	1170	1050	1170	1140
	Water Temperature (C) (Fld)	11.8	13		13.7	12.03	12.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-64	DH-65	DH-65	DH-65	DH-65
Water	SAMPLE DATE	5/19/2009	7/10/2001	12/7/2001	5/31/2002	5/31/2002
	SAMPLE TIME	16:25	12:45	11:15	09:30	09:45
	LAB	ELI	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050287-012	L011005010	L011627013	L020412003	L020412004
	SAMPLE NUMBER	AEH-0905-267	EHC-0107-110	EHC-0111-232	EHC-0205-174	EHC-0205-233
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	310	133	185	148	146
Calcium (Ca) (DIS)	23	112	148	114	112
Carbonate As CO3		<1	<1	<1	<1
Chloride (Cl)	33	63	82	67	66
Magnesium (Mg) (DIS)	8	19	24	19	18
Potassium (K) (DIS)	11	113	138	123	113
Sodium (Na) (DIS)	334	170	236	180	169
Sulfate (SO4)	460	621	887	796	837
Total Alkalinity As CaCO3	260	109	152	121	120

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.05	<0.05	<0.05	<0.05
Antimony (Sb) (DIS)	<0.003				
Arsenic (As) (DIS)	28.4	0.9	0.7	0.7	0.7
Arsenic III (dis)		0.3	0.2	0.2	0.2
Arsenic V (dis)		0.5	0.4	0.5	0.5
Barium (Ba) (DIS)	<0.1				
Beryllium (Be) (DIS)	<0.001				
Cadmium (Cd) (DIS)	0.011	0.001	0.006	0.009	0.009
Chromium (Cr) (DIS)	<0.001				
Cobalt (Co) (DIS)	0.0029				
Copper (Cu) (DIS)	0.002	0.004	<0.004	0.004	0.004
Gold (Au) (DIS)	0.02				
Iron (Fe) (DIS)	0.75	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	1.85	0.05	0.07	<0.02	<0.02
Mercury (Hg) (DIS)	<0.0001				
Nickel (Ni) (DIS)	<0.01				
Selenium (Se) (DIS)	0.019				
Silver (Ag) (DIS)	<0.005				
Tellurium (Te) (DIS)	<0.1				
Thallium (Tl) (DIS)	<0.001				
Vanadium (V) (DIS)	<0.01				
Zinc (Zn) (DIS)	0.2	0.05	0.2	0.1	0.2

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential			104.7	-33.2	
Oxygen (O) (DIS) (Fld)	0.07	3.9	2.8	6.2	
pH	7.3	8.2	8.2	7.3	7.1
Silicon+Silica (Si+SiO2)		20	19	17	18
Depth To Water Level (ft)	35.03	61.05	65.05	62	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-64	DH-65	DH-65	DH-65	DH-65
Water	SAMPLE DATE	5/19/2009	7/10/2001	12/7/2001	5/31/2002	5/31/2002
	SAMPLE TIME	16:25	12:45	11:15	09:30	09:45
	LAB	Hydrometrics	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050287-012	L011005010	L011627013	L020412003	L020412004
	SAMPLE NUMBER	AEH-0905-267	EHC-0107-110	EHC-0111-232	EHC-0205-174	EHC-0205-233
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					Field Duplicate
<b>Physical/Fid-Lab: ppm unless noted</b>						
	Eh (millivolts)		447.8	340		
	pH (Fid)	6.87	7.3	8.5	7.3	
	SC (umhos/cm at 25 C) (Fid)	1647	1847	1827	1790	
	SC (umhos/cm at 25 C)	1640	1636	2160	1772	1771
	Total Suspended Solids	<10	216	71	8.9 J	6.6 J
	TDS (Measured at 180 C)	1100	1185	1605	1298	1301
	Water Temperature (C) (Fid)	13.6	11.8	8.9	9.8	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-65	DH-65	DH-65	DH-65	DH-65	DH-65
Water	SAMPLE DATE	11/15/2002	6/2/2003	10/26/2003	5/13/2004	10/22/2004	5/9/2005
	SAMPLE TIME	12:30	00:00	00:00	12:44	00:00	15:25
	LAB	TSC-SLC	ASARCO	TSC-SLC	ASARCO	ASARCO	ELI-Casper
	LAB NUMBER	L020950010	0306-234	AEH-0310-457	AEH-0405-239	z	AEH-0505-DH65
	SAMPLE NUMBER	EHC-0211-172	AEH-0306-234	AEH-0310-457	AEH-0405-239	AEH-0411-249	AEH-0505-DH65
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION			SWL Only Req	SWL Only Req	SWL Only Req	SWL Only Req
	REMARKS			No Sample	No Sample	No Sample	No Sample

### Common Ions (mg/L): ppm unless noted

Bicarbonate (HCO3)	155
Calcium (Ca) (DIS)	143
Carbonate As CO3	<1
Chloride (Cl)	66 J
Magnesium (Mg) (DIS)	22
Potassium (K) (DIS)	175
Sodium (Na) (DIS)	277
Sulfate (SO4)	1005
Total Alkalinity As CaCO3	127

### Metals (mg/L): ppm unless noted

Aluminum (Al) (DIS)	<0.05
Arsenic (As) (DIS)	0.6
Arsenic III (dis)	0.2
Arsenic V (dis)	0.5
Cadmium (Cd) (DIS)	0.02
Copper (Cu) (DIS)	0.008 UJ
Iron (Fe) (DIS)	<0.02
Lead (Pb) (DIS)	<0.005
Manganese (Mn) (DIS)	<0.02
Zinc (Zn) (DIS)	0.3

### Physical/Fld-Lab: ppm unless noted

Oxygen (O) (DIS) (Fld)	5.1					
pH	7.3					
Silicon+Silica (Si+SiO2)	18					
Depth To Water Level (ft)	62.4	59.3	60.56	59.9	59.56	81.08
pH (Fld)	6.9					
SC (umhos/cm at 25 C) (Fld)	2250					
SC (umhos/cm at 25 C)	2310					
Total Suspended Solids	19 J					
TDS (Measured at 180 C)	1675 J					
Salinity (G/KG) (Fld)	1					
Turbidity (NTU) (Fld)	6					
Water Temperature (C) (Fld)	9.6					

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-65	DH-65	DH-65	DH-65	DH-66
Water	SAMPLE DATE	11/3/2005	4/28/2006	11/6/2006	12/12/2007	11/15/2002
	SAMPLE TIME	14:11	09:25	00:00	11:15	15:00
	LAB	ASARCO	Hydro	Hydrometrics	ELI	TSC-SLC
	LAB NUMBER	AEH-0511-250	AEH-0605-DH65	z	H07120134-006	L020950019
	SAMPLE NUMBER	AEH-0511-250	AEH-0605-DH65	AEH-0611-DH65	AEH-0711-240	EHC-0211-236
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only	SWL Only	SWL Only		
	REMARKS	No Sample	No Sample	No Sample		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		226
Bicarbonate (HCO3) (dis)	230	
Calcium (Ca) (dis)	50	510
Carbonate As CO3		<1
Chloride (Cl)	18	415 J
Magnesium (Mg) (dis)	8	178
Potassium (K) (dis)	100	18
Sodium (Na) (dis)	172	195
Sulfate (SO4)	409	1437
Total Alkalinity As CaCO3	190	185

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)	<0.005	
Selenium-VI (dis)	0.0571	
Aluminum (Al) (DIS)		<0.05
Arsenic (As) (DIS)	0.768	0.06
Arsenic III (dis)	0.0214 UJ	0.006
Arsenic V (dis)	0.755	0.04
Cadmium (Cd) (dis)	0.011	0.3
Copper (Cu) (dis)	0.004	0.02 UJ
Iron (Fe) (dis)	<0.02	<0.02
Lead (Pb) (dis)	<0.005	<0.005
Manganese (Mn) (dis)	<0.01	0.1
Selenium (Se) (DIS)	0.059	
Zinc (Zn) (dis)	0.14	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		1.76	7.6
pH		7.6	7.1
Silicon+Silica (Si+SiO2)			38
Depth To Water Level (ft)	62.04	60.95	62.14
pH (Fld)		7.68	6.6
SC (umhos/cm at 25 C) (Fld)		1422	3510
SC (umhos/cm at 25 C)		1340	3660
Total Suspended Solids		11	418
TDS (Measured at 180 C)		923	3125 J
Salinity (G/KG) (Fld)			1.7
Turbidity (NTU) (Fld)			546

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-65	DH-66
Water	SAMPLE DATE	12/12/2007	11/15/2002
	SAMPLE TIME	11:15	15:00
	LAB	Hydrometrics	TSC-SLC
	LAB NUMBER	H07120134-006	L020950019
	SAMPLE NUMBER	AEH-0711-240	EHC-0211-236
	TYPE	Groundwater	Groundwater
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS		

Physical/Fid-Lab: ppm unless noted

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Water Temperature (C) (Fid)

9.2

12.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-66	DH-66	DH-66	DH-66	DH-66	DH-66
Water	SAMPLE DATE	5/31/2003	10/26/2003	5/26/2004	11/2/2004	5/18/2005	11/11/2005
	SAMPLE TIME	14:30	10:00	16:05	13:25	13:45	12:40
	LAB	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel
	LAB NUMBER	L030243017	L030599-020	H04050191-019	H04110029-012	C05050691-010	H05110105-009
	SAMPLE NUMBER	AEH-0306-136	AEH-0310-358	AEH-0405-197	AEH-0411-196	AEH-0505-194	AEH-0511-164
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	224	186	230	240	224	240	
Calcium (Ca) (DIS)	362	488	353	498	370	528	
Carbonate As CO3	<2	<2					
Chloride (Cl)	355	397	300	400	313	407	
Magnesium (Mg) (DIS)	129	170	114	154	123	173	
Potassium (K) (DIS)	14	14	12	14	12	13	
Sodium (Na) (DIS)	189	217	168	191	206	239	
Sulfate (SO4)	1234	1325	1200	1580	1070	1390	
Total Alkalinity As CaCO3	184	186	190	200	183	200	
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)	0.01	<0.05	<0.005	<0.005	0.006	<0.002	
Arsenic III (dis)	<0.005	<0.05	<0.001	<0.001	<0.005	<0.005	
Arsenic V (dis)	0.01	<0.05	0.004 J	<0.001	<0.005 J	<0.005	
Cadmium (Cd) (DIS)	0.3	0.39	0.437	0.493	0.408	0.69	
Copper (Cu) (DIS)	0.01	0.009	0.008	0.01	0.009	0.01	
Iron (Fe) (DIS)	<0.02	<0.03	<0.02	<0.02	<0.02	<0.02	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	0.06	0.082	0.07	0.07	0.07	0.09	
Zinc (Zn) (DIS)	<0.02	<0.02	<0.01	<0.02	0.03	0.07	
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	4.4	4.55	1.78	4.18	2.51	5.21	
pH	7.3	7.6	7.1	6.8	6.94	6.7	
Depth To Water Level (ft)	40.5	39.4	40.99	37.71	41.71	38.3	
pH (Fld)	6.2	6.48	6.64	6.43	6.38	6.4	
SC (umhos/cm at 25 C) (Fld)	3220	3600	2870	3713	3121	4110	
SC (umhos/cm at 25 C)	3320	3680	2750	3140	3160	3860	
Total Suspended Solids	91	180 J	53	64 J	52	33	
TDS (Measured at 180 C)	2711	3118	2320	2980	2570	3300	
TDS - Calculated					2240		
Salinity (G/KG) (Fld)	1.5	1.7					
Turbidity (NTU) (Fld)	40	211					
Water Temperature (C) (Fld)	13.5	12.5	12.6	12.2	11.93	12.57	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-66	DH-66	DH-66	DH-66	DH-66	DH-66
Water	SAMPLE DATE	5/10/2006	5/10/2006	11/17/2006	5/21/2007	12/4/2007	5/7/2008
	SAMPLE TIME	10:50	11:00	14:09	10:20	10:05	10:00
	LAB	ELI-Hel	ELI-Hel	ELI	ELI	ELI	ELI
	LAB NUMBER	H06050119-007	H06050119-008	H06110160-001	H07050232-004	H07120019-001	H08050136-006
	SAMPLE NUMBER	AEH-0605-209	AEH-0605-210	AEH-0611-209	AEH-0705-194	AEH-0711-187	AEH-0805-170
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	260	260	290	280		270
Bicarbonate (HCO3) (dis)					300	
Calcium (Ca) (DIS)	396 J+	392 J+	556	357	483	390
Chloride (Cl)	337	315	475	305	437	330
Magnesium (Mg) (DIS)	127 J-	127 J-	172	119	159	132
Potassium (K) (DIS)	14	13	20	11	14	13
Sodium (Na) (DIS)	231	229	232	244	249	209
Sulfate (SO4)	1180	1140	1360	1220	1550	1200
Total Alkalinity As CaCO3	220	210	240	230	240	220

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)					0.0171	<0.005 J
Selenium-VI (DIS)					2.8	0.665 J
Aluminum (Al) (DIS)						<0.1
Antimony (Sb) (DIS)						<0.005
Arsenic (As) (DIS)	0.036 J	0.028 J	0.087	0.027 UJ	0.05	0.025
Arsenic III (dis)	<0.005	<0.005	<0.005 J-	<0.005	0.0037 A	<0.005
Arsenic V (dis)	<0.005	<0.005	<0.005 J-	<0.005	0.0013 A	<0.005
Barium (Ba) (DIS)						<0.1
Beryllium (Be) (DIS)						<0.001
Cadmium (Cd) (DIS)	0.579	0.57	0.751	0.56	0.626	0.567
Chromium (Cr) (DIS)						0.002
Cobalt (Co) (DIS)						<0.01
Copper (Cu) (DIS)	0.008	0.008	0.012	0.009	0.009 UJ	0.006
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.06	0.06	0.06	0.05	0.04	0.04
Mercury (Hg) (DIS)						<0.006
Nickel (Ni) (DIS)						0.02
Selenium (Se) (DIS)					2.578	0.879
Silver (Ag) (DIS)						<0.005
Thallium (Tl) (DIS)						<0.002
Vanadium (V) (DIS)						<0.01
Zinc (Zn) (DIS)	0.09	0.09	0.14	0.16	0.17	0.16

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential			183.2			
Oxygen (O) (DIS) (Fld)	2.16		5.21	3.87	3.84	4.23
pH	6.7	6.7	7.2	7.4	7.1	6.9
Depth To Water Level (ft)	40.99		38.15	42.03	39.11	43.22
pH (Fld)	6.45		6.39	6.59	6.46	6.47

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-66	DH-66	DH-66	DH-66	DH-66	DH-66
Water	SAMPLE DATE	5/10/2006	5/10/2006	11/17/2006	5/21/2007	12/4/2007	5/7/2008
	SAMPLE TIME	10:50	11:00	14:09	10:20	10:05	10:00
	LAB	Hydro	ELI-Hel	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H06050119-007	H06050119-008	H06110160-001	H07050232-004	H07120019-001	H08050136-006
	SAMPLE NUMBER	AEH-0605-209	AEH-0605-210	AEH-0611-209	AEH-0705-194	AEH-0711-187	AEH-0805-170
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)	3010		4275	3191	3791	3103
SC (umhos/cm at 25 C)	2690	2680	3680	2820	4800	1750 R
Total Suspended Solids	55 J	71 J	48	622	25	<10
TDS (Measured at 180 C)	2710	2680	3580	2550	3240	2610
Water Temperature (C) (Fld)	12.64		11.12	12.84	11.1	11.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-66	DH-66	DH-67	DH-67	DH-67
Water	SAMPLE DATE	11/5/2008	5/12/2009	10/7/2002	11/16/2002	6/2/2003
	SAMPLE TIME	13:50	16:25	13:15	13:20	14:40
	LAB	ELI	ELI	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H08110073-011	H09050193-013	L020846001	L020951005	L030245013
	SAMPLE NUMBER	AEH-0811-179	AEH-0905-187	EHIM-0210-200	EHC-0211-237	AEH-0306-175
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	280	270	239	195	181
Calcium (Ca) (DIS)	547	376	224	183	187
Carbonate As CO3			<1	<1	<2
Chloride (Cl)	410	270	152	135	194
Magnesium (Mg) (DIS)	188	125	71	59	67
Potassium (K) (DIS)	14	13	9.1	8.1	8.6
Sodium (Na) (DIS)	189	181	147	133	131
Sulfate (SO4)	1600	1100	602	578	581
Total Alkalinity As CaCO3	230	220	196	160	148

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	0.062 J				
Selenium-VI (DIS)	1.3 J				
Aluminum (Al) (DIS)	<0.1 J	<0.1		<0.05	
Antimony (Sb) (DIS)	<0.005	<0.003			
Arsenic (As) (DIS)	0.06	0.037	0.009	0.01	0.006
Arsenic III (DIS)	0.0107 J		<0.005	<0.005	<0.005
Arsenic V (DIS)	0.0161 J		0.01	0.008	<0.005
Barium (Ba) (DIS)	<0.1	<0.1			
Beryllium (Be) (DIS)	<0.001	<0.001			
Cadmium (Cd) (DIS)	0.955	0.631	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	0.007	0.004			
Cobalt (Co) (DIS)	<0.01	0.0075			
Copper (Cu) (DIS)	0.013	0.01 UJ	0.01	0.007	0.009 J
Gold (Au) (DIS)		<0.03			
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.06	0.04	<0.02	<0.02	<0.02
Mercury (Hg) (DIS)	0.006	0.0026			
Nickel (Ni) (DIS)	0.04	0.04			
Selenium (Se) (DIS)	3.35	1.3			
Silver (Ag) (DIS)	<0.005	<0.005			
Tellurium (Te) (DIS)		<0.1			
Thallium (Tl) (DIS)	<0.002	<0.001			
Vanadium (V) (DIS)	<0.01	<0.01			
Zinc (Zn) (DIS)	0.33	0.24	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.62	4.79	3.3	3.5	1.4
pH	7	7	7.8	6.9	7.3
Silicon+Silica (Si+SiO2)				39	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-66	DH-66	DH-67	DH-67	DH-67
Water	SAMPLE DATE	11/5/2008	5/12/2009	10/7/2002	11/16/2002	6/2/2003
	SAMPLE TIME	13:50	16:25	13:15	13:20	14:40
	LAB	Hydrometrics	Hydrometrics	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H08110073-011	H09050193-013	L020846001	L020951005	L030245013
	SAMPLE NUMBER	AEH-0811-179	AEH-0905-187	EHIM-0210-200	EHC-0211-237	AEH-0306-175
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fld-Lab: ppm unless noted**

	DH-66	DH-66	DH-67	DH-67	DH-67
Depth To Water Level (ft)	39.32	42.87	29.08	30.6	31.8
pH (Fld)	6.38	6.65	6.3	6.4	6.2
SC (umhos/cm at 25 C) (Fld)	3916	3148	1829	1700	1920
SC (umhos/cm at 25 C)	3840	3150	2060	1772	1996
Total Suspended Solids	24	119		157	11
TDS (Measured at 180 C)	3370	2610	1582	1371	1485
Salinity (G/KG) (Fld)				0.7	0.9
Turbidity (NTU) (Fld)				246	7
Water Temperature (C) (Fld)	11.19	11.8	11.6	11.5	12.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-67	DH-67	DH-67	DH-67	DH-67	DH-67
Water	SAMPLE DATE	10/27/2003	5/24/2004	5/24/2004	10/28/2004	5/18/2005	11/11/2005
	SAMPLE TIME	12:00	14:20	14:55	10:55	15:30	11:40
	LAB	TSC-SLC	ELI	ELI	ELI	ELI-Casper	ELI-Hel
	LAB NUMBER	L030601008	H04050162-007	H04050162-009	H04100202-004	C05050691-015	H05110105-008
	SAMPLE NUMBER	AEH-0310-388	AEH-0405-156	AEH-0405-159	AEH-0411-144	AEH-0505-199	AEH-0511-163
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	232	220	220	230	204	240
Calcium (Ca) (DIS)	236	211	201	185	225	201
Carbonate As CO3	<2					
Chloride (Cl)	184	260 J	170 J	100	167	122
Magnesium (Mg) (DIS)	79	62	60	59	69	67
Potassium (K) (DIS)	8.7	8	8	7	7	7
Sodium (Na) (DIS)	147	126	121	120	133	155
Sulfate (SO4)	684	650	630	581	650	596
Total Alkalinity As CaCO3	190	180	180	190	168	200

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	0.008	<0.002
Arsenic III (dis)	<0.005	<0.001	<0.001	<0.001	0.06 UJ	<0.005
Arsenic V (dis)	<0.005	9.699999E-03	0.0061	<0.001	<0.005 J	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
Copper (Cu) (DIS)	0.01	<0.004	0.005	0.009	0.006	0.007
Iron (Fe) (DIS)	<0.02	0.06 J	0.11 J	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.01	<0.01	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.05	<0.01	<0.01	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	6.17	2.71		5.21	1.74	6.69
pH	7.9	7	7	7.1	6.93	7.1
Depth To Water Level (ft)	29.86	32.33		28.66	33.16	29.22
pH (Fld)	6.22	6.1		6.79	6.4	7.07
SC (umhos/cm at 25 C) (Fld)	2110	1940		1662	2313	2030
SC (umhos/cm at 25 C)	2200	1620	1640	1560	2000	1850
Total Suspended Solids	414	113 J	63 J	107	65	35
TDS (Measured at 180 C)	1717	1400	1400	1270	1520	1380
TDS - Calculated					1390	
Salinity (G/KG) (Fld)	0.9	0.09				
Turbidity (NTU) (Fld)	41					
Water Temperature (C) (Fld)	11.6	11.7		11.1	11.87	11.74

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-67	DH-67	DH-67	DH-67	DH-67	DH-67
Water	SAMPLE DATE	5/8/2006	11/15/2006	5/10/2007	11/29/2007	5/7/2008	11/5/2008
	SAMPLE TIME	11:25	08:20	15:00	09:40	09:25	09:26
	LAB	ELI-Hel	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06050082-009	H06110135-001	H07050134-007	H07110229-001	H08050136-005	H08110073-002
	SAMPLE NUMBER	AEH-0605-178	AEH-0611-183	AEH-0705-132	AEH-0711-182	AEH-0805-169	AEH-0811-170
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	240	240	260		250	240
Bicarbonate (HCO3) (dis)				230		
Calcium (Ca) (DIS)	285	220	281	170	227	153
Chloride (Cl)	202	152	185	120	130	82 J+
Magnesium (Mg) (DIS)	95	68	87	55	74	51
Potassium (K) (DIS)	9	8	9	7	8	7
Sodium (Na) (DIS)	163	151	164	138	139	113
Sulfate (SO4)	828	655	864	534	630	490
Total Alkalinity As CaCO3	200	200	210	190	200	200

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)				0.0098	<0.005 J	0.009 J-
Selenium-VI (dis)				0.758	0.407 J	0.688
Aluminum (Al) (DIS)					<0.1	<0.1 J
Antimony (Sb) (DIS)					<0.005	<0.005
Arsenic (As) (DIS)	<0.002	0.035	0.012	0.017	0.013	0.012
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005 A	<0.005	<0.005
Arsenic V (dis)	<0.005	<0.005 J-	<0.005	<0.005 A	<0.005	0.0096
Barium (Ba) (DIS)					<0.1	<0.1
Beryllium (Be) (DIS)					<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)					0.002	0.001
Cobalt (Co) (DIS)					<0.01	<0.01
Copper (Cu) (DIS)	0.007	0.007	0.006	0.005 UJ	0.005	0.007
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02 J	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01 J	<0.01	<0.01
Mercury (Hg) (DIS)					<0.006	<0.006
Nickel (Ni) (DIS)					<0.01	<0.01
Selenium (Se) (DIS)				0.733	0.626	0.746
Silver (Ag) (DIS)					<0.005	<0.005
Thallium (Tl) (DIS)					<0.002	<0.002
Vanadium (V) (DIS)					<0.01	<0.01
Zinc (Zn) (DIS)	<0.02	<0.02	<0.01	<0.02	<0.01	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential		192.5				
Oxygen (O) (DIS) (Fld)	2.28	5.93	2.2	6.33	2.48	6.87
pH	6.9	7.1	7.1	7.2	6.9	7.2
Depth To Water Level (ft)	31.91	28.98	32.97	29.99	34.16	30.01
pH (Fld)	6.52	6.74	6.56	6.58	6.57	6.62

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-67	DH-67	DH-67	DH-67	DH-67	DH-67
Water	SAMPLE DATE	5/8/2006	11/15/2006	5/10/2007	11/29/2007	5/7/2008	11/5/2008
	SAMPLE TIME	11:25	08:20	15:00	09:40	09:25	09:26
	LAB	Hydro	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H06050082-009	H06110135-001	H07050134-007	H07110229-001	H08050136-005	H08110073-002
	SAMPLE NUMBER	AEH-0605-178	AEH-0611-183	AEH-0705-132	AEH-0711-182	AEH-0805-169	AEH-0811-170
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

	DH-67	DH-67	DH-67	DH-67	DH-67	DH-67
SC (umhos/cm at 25 C) (Fld)	2240	2041	2354	1608	1831	1446
SC (umhos/cm at 25 C)	2080	1880	2180	1630	392 R	1460
Total Suspended Solids	95	38 J	16	34 J	<10	<10
TDS (Measured at 180 C)	1860	1540	1860	1240	1380	1100
Water Temperature (C) (Fld)	11.92	10.77	11.99	10.9	11.5	10.96

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-67	DH-68	DH-68	DH-68	DH-68
Water	SAMPLE DATE	5/12/2009	5/14/2008	5/14/2008	11/10/2008	5/14/2009
	SAMPLE TIME	13:15	09:20	09:40	12:15	10:00
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H09050193-007	H08050243-004	H08050243-005	H08110106-007	H09050233-003
	SAMPLE NUMBER	AEH-0905-181	AEH-0805-240	AEH-0805-241	AEH-0811-201	AEH-0905-207
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	240	400	400	400	380
Calcium (Ca) (DIS)	190	30 J+	30 J+	26	26
Chloride (Cl)	110	14	13	12	11
Magnesium (Mg) (DIS)	61	6 J+	6 J+	5	5
Potassium (K) (DIS)	8	4	4	3	4
Sodium (Na) (DIS)	119	125	125	111	122
Sulfate (SO4)	600	36	35	29	23
Total Alkalinity As CaCO3	200	330	330	330	310

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005	<0.005	<0.005	
Selenium-VI (DIS)		<0.005	<0.005	<0.005	
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.005	<0.005	<0.005	<0.003
Arsenic (As) (DIS)	0.014	0.671	0.672	0.634	0.675
Arsenic III (DIS)		0.579	0.613	0.596	
Arsenic V (DIS)		0.158	0.169	0.0394	
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	0.001	<0.001	<0.001	0.001	<0.001
Cobalt (Co) (DIS)	0.0024	<0.01	<0.01	<0.01	0.0008 UJ
Copper (Cu) (DIS)	0.007 UJ	<0.004	<0.004	<0.004	<0.001
Gold (Au) (DIS)	<0.01				0.02
Iron (Fe) (DIS)	<0.02	10.57	10.66	9.83	9.65
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	3.15	3.15	2.84	2.71
Mercury (Hg) (DIS)	0.0003	<0.006	<0.006	<0.006	0.0002
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.733	<0.005	<0.005	<0.005	0.006
Silver (Ag) (DIS)	<0.005 R	<0.005	<0.005	<0.005	<0.005 J
Tellurium (Te) (DIS)	<0.1				<0.1
Thallium (Tl) (DIS)	<0.001	<0.002	<0.002	<0.002	<0.001
Vanadium (V) (DIS)	<0.01	0.03	0.03	0.03	0.03
Zinc (Zn) (DIS)	<0.01	0.02 UJ	0.02 UJ	<0.02	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.87	0.16		0.17	0.2
pH	7	7.2	7.2	7.5	7.6
Depth To Water Level (ft)	33.94	42.47		42.36	42.05
pH (Fld)	6.66	7.05		7	7.21

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-67	DH-68	DH-68	DH-68	DH-68
Water	SAMPLE DATE	5/12/2009	5/14/2008	5/14/2008	11/10/2008	5/14/2009
	SAMPLE TIME	13:15	09:20	09:40	12:15	10:00
	LAB	Hydrometrics	Hydrometrics	ELI	Hydrometrics	Hydrometrics
	LAB NUMBER	H09050193-007	H08050243-004	H08050243-005	H08110106-007	H09050233-003
	SAMPLE NUMBER	AEH-0905-181	AEH-0805-240	AEH-0805-241	AEH-0811-201	AEH-0905-207
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Field Duplicate		

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)	1793	744		735	696
SC (umhos/cm at 25 C)	1800	699	701	703	683
Total Suspended Solids	41	72 J+	68 J+	<10	29
TDS (Measured at 180 C)	1350	488	473	464	445
Water Temperature (C) (Fld)	11.7	11.1		10.8	11.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-69	DH-69	DH-69	DH-69	DH-69
Water	SAMPLE DATE	5/14/2008	7/18/2008	11/6/2008	2/5/2009	5/13/2009
	SAMPLE TIME	10:25	13:10	12:18	11:35	14:15
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08050243-006	H08070391-001	H08110088-008	H09020058-015	H09050210-013
	SAMPLE NUMBER	AEH-0805-242	AEH-0807-174	AEH-0811-187	AEH-0902-148	AEH-0905-200
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	250	320	320	340	320
Calcium (Ca) (DIS)	30 J+	24	26	25	26
Chloride (Cl)	9	10	10	9	8
Magnesium (Mg) (DIS)	5 J+	4	4	4	5
Potassium (K) (DIS)	4	3	3	3	4
Sodium (Na) (DIS)	75	93	101	90	88
Sulfate (SO4)	26	20	15	13	8
Total Alkalinity As CaCO3	210	270	260	280	260

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005		<0.005		
Selenium-VI (DIS)	<0.005		<0.005		
Aluminum (Al) (DIS)	<0.1		<0.1		<0.1
Antimony (Sb) (DIS)	0.009		<0.005		<0.003
Arsenic (As) (DIS)	0.262	0.225	0.228	0.241	0.237
Arsenic III (DIS)	0.161		0.196		
Arsenic V (DIS)	0.101		0.017 J-		
Barium (Ba) (DIS)	<0.1		<0.1		<0.1
Beryllium (Be) (DIS)	<0.001		<0.001		<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001		<0.001		0.004
Cobalt (Co) (DIS)	<0.01		<0.01		0.0008 J
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.001
Gold (Au) (DIS)					0.01
Iron (Fe) (DIS)	4.82	7.01	8.42	7.67	7.88
Lead (Pb) (DIS)	0.007	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	1.56	2.1	2.15	2.24	2.36
Mercury (Hg) (DIS)	<0.006		<0.006		0.0004
Nickel (Ni) (DIS)	<0.01		<0.01		<0.01
Selenium (Se) (DIS)	<0.005	<0.005 J	<0.005	<0.005	0.004
Silver (Ag) (DIS)	<0.005		<0.005		<0.005
Tellurium (Te) (DIS)					<0.1
Thallium (Tl) (DIS)	<0.002		<0.002		<0.001
Vanadium (V) (DIS)	0.01		0.01		0.01
Zinc (Zn) (DIS)	0.33	<0.01	<0.02	<0.02	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.65	0.18	0.32	0.55	0.2
pH	7.3	7.4	7.5	7.5	7.6
Depth To Water Level (ft)	33.35	33.01	33.08	33	32.78
pH (Fld)	7.08	6.77	6.79	6.91	7.25

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-69	DH-69	DH-69	DH-69	DH-69
Water	SAMPLE DATE	5/14/2008	7/18/2008	11/6/2008	2/5/2009	5/13/2009
	SAMPLE TIME	10:25	13:10	12:18	11:35	14:15
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H08050243-006	H08070391-001	H08110088-008	H09020058-015	H09050210-013
	SAMPLE NUMBER	AEH-0805-242	AEH-0807-174	AEH-0811-187	AEH-0902-148	AEH-0905-200
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	528	622	580	628	561
SC (umhos/cm at 25 C)	474	573	548	545	547
Total Suspended Solids	235 J+	26	16	90	12
TDS (Measured at 180 C)	313	389	373	360	377
Water Temperature (C) (Fid)	12.6	12.2	10.15	10.3	11.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-7	DH-7	DH-7	DH-7	DH-7	DH-7
Water	SAMPLE DATE	1/18/1985	1/18/1985	1/18/1985	4/8/1985	6/14/1985	8/14/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	CAL	CAL	TSC-SLC	TSC-SLC	JTC
	LAB NUMBER	88-682	S5708	S5756	85-2479	85-4506	73-2880
	SAMPLE NUMBER	AEH-8501-122	AEH-8501-122	AEH-8501-122	AEH-8504-318	AEH-8506-515	AEH-8508-706
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Split	Field Duplicate			Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	132				118	146
Calcium (Ca) (DIS)	41	39.3	52.1		42	51.7
Chloride (Cl)	<1	5.6			4.9	5.6
Magnesium (Mg) (DIS)	10	8.3	23.6		9.8	10.4
Potassium (K) (DIS)	3.9	2.8	11.7		3.4	3.6
Sodium (Na) (DIS)	17	17.9	19.1		18.6	15.6
Sulfate (SO4)	74.7	82			54.6	72.6
Total Alkalinity As CaCO3	108	110			97	119.5

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		<0.2	71.2			<0.2
Antimony (Sb) (DIS)		<0.01	<0.01			<0.05
Arsenic (As) (DIS)	0.005	<0.004	0.1	0.006	0.006	<0.006
Barium (Ba) (DIS)		0.04	0.8			0.05
Beryllium (Be) (DIS)		<0.0006	0.002			<0.004
Cadmium (Cd) (DIS)	<0.001	<0.004	<0.004	0.003	<0.001	<0.004
Chromium (Cr) (DIS)		0.004	0.06			<0.008
Cobalt (Co) (DIS)		<0.007	0.04			<0.008
Copper (Cu) (DIS)	<0.008	0.01	0.3		0.009	<0.02
Iron (Fe) (DIS)	0.03	0.06	62.5		0.04	<0.05
Lead (Pb) (DIS)	<0.005	0.01	0.05	<0.005	<0.005	<0.002
Manganese (Mn) (DIS)	0.04	0.05	4.4		0.003	0.02
Mercury (Hg) (DIS)		<0.0002	0.0008			0.0001
Nickel (Ni) (DIS)		<0.03	0.05			<0.02
Selenium (Se) (DIS)		<0.002	<0.002			<0.004
Silver (Ag) (DIS)		0.004	0.01			<0.006
Thallium (Tl) (DIS)		<0.002	<0.002			<0.002
Tin (Sn) (DIS)		<0.04	<0.04			<0.03
Vanadium (V) (DIS)		<0.004	0.1			0.03
Zinc (Zn) (DIS)	0.01	0.03	0.3	0.03	0.02	0.02

**Physical/Fld-Lab: ppm unless noted**

pH	7.6	7.6		7.3	7.9	7.07
SC (umhos/cm at 25 C) (Fld)	374.7			423.1	334.3	
SC (umhos/cm at 25 C)	405	230		415	309	323
Total Suspended Solids	1730	13			1.5	1163
TDS (Measured at 180 C)	271	950		293	241	266

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-7	DH-7	DH-7	DH-7	DH-7	DH-7
Water	SAMPLE DATE	8/14/1985	8/14/1985	8/14/1985	8/14/1985	8/14/1985	11/19/1986
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	JTC	TSC-SLC	TSC-SLC	TSC-SLC	RMAL
	LAB NUMBER	85-6284	73-2879	85-6297	85-6304	85-6305	8611-27
	SAMPLE NUMBER	AEH-8508-706	AEH-8508-723	AEH-8508-723	AEH-8508-732	AEH-8508-733	AEH-8611-27
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate	Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	148					
Calcium (Ca) (DIS)	54					46.5
Chloride (Cl)	3.9					
Magnesium (Mg) (DIS)	<1.2					9.4
Potassium (K) (DIS)	4.3					4.2
Sodium (Na) (DIS)	17					14.8
Sulfate (SO4)	78.5					
Total Alkalinity As CaCO3	121					

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.2					
Antimony (Sb) (DIS)	<0.05					
Arsenic (As) (DIS)	<0.004	0.007	0.004	<0.004	<0.004	<0.01
Barium (Ba) (DIS)		0.05				
Beryllium (Be) (DIS)		<0.004				
Cadmium (Cd) (DIS)	0.001	<0.004	0.003	0.004	0.003	<0.005
Chromium (Cr) (DIS)		<0.008				
Cobalt (Co) (DIS)		<0.008				
Copper (Cu) (DIS)		<0.02				<0.004
Iron (Fe) (DIS)		<0.05				<0.03
Lead (Pb) (DIS)	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		<0.01				0.1
Mercury (Hg) (DIS)		0.0002				
Nickel (Ni) (DIS)		<0.02				
Selenium (Se) (DIS)		0.005				
Silver (Ag) (DIS)		0.01				
Thallium (Tl) (DIS)		<0.002				
Tin (Sn) (DIS)		<0.03				
Vanadium (V) (DIS)		<0.03				
Zinc (Zn) (DIS)	0.009	<0.01	0.01	0.01	0.01	0.002

**Physical/Fld-Lab: ppm unless noted**

pH	7.5	7.08	7.9			7.2
SC (umhos/cm at 25 C) (Fld)	349.7		359.5	359.1	357.3	
SC (umhos/cm at 25 C)	346	323	344			345
Total Suspended Solids		3				
TDS (Measured at 180 C)	258	267	271			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-7	DH-7	DH-7	DH-7	DH-7	DH-7
Water	SAMPLE DATE	11/19/1986	11/19/1986	11/19/1986	5/21/1987	5/21/1987	11/20/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	RMAL	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	86-7788	8611-34	86-7789	87-3820	87-3821	87-10569
	SAMPLE NUMBER	AEH-8611-27	AEH-8611-34	AEH-8611-34	AEH-8705-19	AEH-8705-46	AEH-8711-222
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate	Field Duplicate		Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	146			117		143
Calcium (Ca) (DIS)		47.4		47.8		31 M
Carbonate As CO3				<1		<1
Chloride (Cl)				2		2.7
Magnesium (Mg) (DIS)		9.7		9.4		7.6
Potassium (K) (DIS)		4.2		3.5		4.1
Sodium (Na) (DIS)		15.2		13.5		13.5
Sulfate (SO4)	56			76		46 M

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.008	<0.01	0.004	0.01	0.008	<0.006
Arsenic III (dis)			<0.008 M	0.09 M	0.1 M	<0.008
Arsenic V (dis)			0.03 M	0.03 M	0.04 M	0.03
Cadmium (Cd) (DIS)	<0.001	<0.005	<0.001	0.004	0.004	0.001
Copper (Cu) (DIS)		<0.004	<0.008	<0.008	<0.008	<0.008
Iron (Fe +2) (TOT)			0.02			<0.01
Iron (Fe) (DIS)	0.04	<0.03	0.03	0.02	0.03	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		0.1	0.1	0.02	0.02	0.1
Zinc (Zn) (DIS)	0.008 M	0.003	<0.008 M	0.02	0.03	0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.7		1.7	3 M	3	2.1
pH	7.2			7.6	6.6	8.3 M
Depth To Water Level (ft)	19		19	19.8	19.8	20.1
pH (Fld)	6.8		6.8	6.2 M	6.2	6.8
SC (umhos/cm at 25 C) (Fld)	350		351	372.9	375	307.5
SC (umhos/cm at 25 C)	345			375	370.7	305
Total Suspended Solids						2
TDS (Measured at 180 C)	318			278		197.2 M
Water Temperature (C) (Fld)	10.4		10.4		278	10.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-7	DH-7	DH-7	DH-7	DH-7	DH-7
Water	SAMPLE DATE	11/20/1987	4/27/1988	12/9/1988	12/9/1988	4/11/1989	10/12/1989
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8711-222	88-3123	88-22	89-31	89-477	89-801
	SAMPLE NUMBER	AEH-8711-222	AEH-8804-306	AEH-8812-127	AEH-8812-153	AEH-8904-206	AEH-8910-406
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	100	90				
Calcium (Ca) (DIS)	36.7	50.5				
Carbonate As CO3	<5	<1				
Chloride (Cl)	<3	5.1 J	2.9		3.8	2.4
Magnesium (Mg) (DIS)	7.7	8.5				
Potassium (K) (DIS)	3.3	3.5				
Sodium (Na) (DIS)	14.6	13.9				
Sulfate (SO4)	44	90 J	57		155	53

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.003	<0.006	<0.006	0.006	0.007 J	<0.008
Arsenic III (dis)		0.05	0.03 J	0.03 J	<0.008	<0.008
Arsenic V (dis)		0.09	0.05 J	0.03	0.02 J	0.03
Cadmium (Cd) (DIS)	0.0003	<0.001	<0.001	<0.001	<0.002	<0.001
Copper (Cu) (DIS)	0.004		<0.008	<0.008	<0.008	<0.008
Iron (Fe +2) (TOT)		0.05	<0.01	<0.01	<0.01	
Iron (Fe) (DIS)	0.008	0.07				
Lead (Pb) (DIS)	0.006	<0.001	<0.005 UJ	<0.005	<0.02	<0.005 UJ
Manganese (Mn) (DIS)	0.1					
Zinc (Zn) (DIS)	0.02	0.1 AJ	<0.008	<0.008	<0.008	<0.008

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		4.1	3.02		3.6	2.4
pH		7.5	7.1		7	7.3
Depth To Water Level (ft)		20.9	21.3		20.5	19.2
pH (Fld)		7	7.2		5.9	6.4
SC (umhos/cm at 25 C) (Fld)		344.1	326.9	328.5	519.3	312.3
SC (umhos/cm at 25 C)		348	340		500	300
TDS (Measured at 180 C)	190	167	228		345 J	210 J
Water Temperature (C) (Fld)		8	11.5		11.6	12.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-7	DH-7	DH-7	DH-7	DH-7	DH-7
Water	SAMPLE DATE	4/27/1990	11/27/1990	5/3/1991	11/12/1991	4/15/1992	11/11/1992
	SAMPLE TIME	00:00	00:00	00:00	15:15	09:00	12:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	90-1034	90-2220	91-2668	91-3612	92-4277	92-6767
	SAMPLE NUMBER	AEH-9005-406	AEH-9011-713	AEH-9105-142	AEH-9111-315	AEH-9204-142	EHC-9211-120
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)						40 J
Chloride (Cl)	3	1.5 J	3.1	2.7 U	2.3 J	5.3 J
Magnesium (Mg) (Dis)						8
Potassium (K) (Dis)						<5
Sodium (Na) (Dis)						15
Sulfate (SO4)	65.6	44 J	61	59	70	54 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.008	0.008	0.008	0.004	<0.004	<0.004
Arsenic III (dis)	<0.008	0.04 U	0.007 UJ	0.02 U	<0.004	0.007 UJ
Arsenic V (dis)	0.02 U	0.008	0.03 UJ	0.03 U	0.004	0.004 UJ
Cadmium (Cd) (DIS)	0.001	<0.001	0.001	0.001	0.001	0.001
Copper (Cu) (DIS)	<0.008	<0.008	<0.004	<0.004	<0.004	0.005
Lead (Pb) (DIS)	<0.005	<0.005	<0.005 UJ	<0.005 J	<0.005	<0.005
Zinc (Zn) (DIS)	0.006 U		<0.008	0.01	0.007	<0.006

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.6	4.4	6.4	3.6	3.4	2.2
pH	7.3	7.9	8.02	7.1	7.3	7.8
Depth To Water Level (ft)	20.9	22.4	22.6	20.03	21.2	20.2
pH (Fld)	6.3	6.6	7.04	6.4	7.1	7.2
SC (umhos/cm at 25 C) (Fld)	322.6	298.9	335.2	304	336	310
SC (umhos/cm at 25 C)	315	289	335	288	340	260
TDS (Measured at 180 C)	210	203 J	243	202 J	220 J	206
Water Temperature (C) (Fld)	8.2	9.8	8.9	8.7	9.2	10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-7	DH-7	DH-7	DH-7	DH-7	DH-7
Water	SAMPLE DATE	4/30/1993	11/4/1993	5/4/1994	11/10/1994	5/5/1995	11/6/1995
	SAMPLE TIME	12:45	14:50	13:30	09:15	11:00	15:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-7736	93-9155	94-1099	94-3271	95-4453	95-6092
	SAMPLE NUMBER	EHC-9305-124	EHC-9311-129	EHC-9405-134	EHC-9411-134	EHC-9505-134	EHC-9511-136
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)	64 J					
Chloride (Cl)	3	3.6 J	3.6	3.7	3.3	2.9
Magnesium (Mg) (Dis)	12 J					
Potassium (K) (Dis)	<5					
Sodium (Na) (Dis)	17 J					
Sulfate (SO4)	117	156 J	70	59	64	70
Total Hardness As CaCO3	209					

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic III (dis)	<0.004	<0.004 J	<0.004	0.004 U	<0.004	<0.004
Arsenic V (dis)	0.1 UJ	<0.004 J	<0.004	0.01 U	<0.004	0.004 J
Cadmium (Cd) (DIS)	0.001 UJ	<0.001	0.001	0.001	0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005 UJ	<0.005	<0.005
Zinc (Zn) (DIS)	<0.006	0.007	0.006	0.006 U	0.008	0.006

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.7	1.8	3.1	2.9	4.9	1.8
pH					7	7.4
Depth To Water Level (ft)	20.4	18.8	20.02	20.9	21	20.2
pH (Fld)	5.6	7.4	7.1	7.4	7.4	6.9
SC (umhos/cm at 25 C) (Fld)	471	498	351	352	347	331
SC (umhos/cm at 25 C)	390 J	510 J	342	355 J	340	340 J
TDS (Measured at 180 C)	325	346	225	224	226	209
Water Temperature (C) (Fld)	8.5	8	7.7	10.6	9.4	10.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-7	DH-7	DH-7	DH-7	DH-7	DH-7
Water	SAMPLE DATE	5/7/1996	11/6/1996	5/2/1997	11/3/1997	5/4/1998	11/17/1998
	SAMPLE TIME	19:45	11:15	11:00	12:30	11:15	08:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-6709	96-7737	97-906	187-2666	260-3758	310-4402
	SAMPLE NUMBER	EHC-9605-120	EHC-9611-120	EHC-9705-119	EHC-9711-120	EHC-9805-121	EHC-9811-120
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)						106	121
Calcium (Ca) (DIS)						42	36
Chloride (Cl)	4.5	4.5	5	4	5	4.3	J
Magnesium (Mg) (DIS)						8	7.1
Potassium (K) (DIS)						<5	J
Sodium (Na) (DIS)						17	16
Sulfate (SO4)	106	75	J	79	67	78	67
Total Alkalinity As CaCO3						87	99

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	<0.004	<0.005	<0.005	<0.005	<0.005	0.006
Arsenic III (dis)	<0.005	UJ	<0.004	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	0.007	J	0.004	0.006	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)						<0.05	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)						<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.008	<0.02	<0.02	<0.02	<0.02	J

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.6	2.9	3.7	3.05	5	2
pH	7	7.7	6.9	7.3	7.1	7.1
Depth To Water Level (ft)	20.2	19.6	21.4	20	21.8	20.2
Eh (millivolts)						460
pH (Fld)	6.8	7.2	7.6	6.7	6.5	7.4
SC (umhos/cm at 25 C) (Fld)	396	403	371	332	367	351
SC (umhos/cm at 25 C)	320	388	392	326	359	333
Total Suspended Solids				<1		<1
TDS (Measured at 180 C)	249	272	251	232	264	222
Water Temperature (C) (Fld)	8.7	9.4	7.6	10.4	9.5	10.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-7	DH-7	DH-7	DH-7	DH-7	DH-7
Water	SAMPLE DATE	5/7/1999	11/8/1999	11/8/1999	5/1/2000	11/6/2000	11/6/2000
	SAMPLE TIME	10:40	16:00	16:15	16:00	14:00	14:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	346-4872	L992008001	L992009004	L000703011	L001873004	L001873011
	SAMPLE NUMBER	EHC-9905-120	EHC-9911-136	EHC-9911-168	EHC-0005-135	EHC-0011-136	EHC-0011-168
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	110 J	104	112	115	128	123	
Calcium (Ca) (DIS)	37	47	48	43	43	45	
Carbonate As CO3	<1 UJ	<1	<1	<1	<1	<1	
Chloride (Cl)	8	9.4 J	7.2 J	5.1	5.4 J	5.7 J	
Magnesium (Mg) (DIS)	7.9	9.4	9.5	8.9	8.8	9.2	
Potassium (K) (DIS)	<5	<5	<5	<5	<5	<5	
Sodium (Na) (DIS)	18	19	18	19	22	23	
Sulfate (SO4)	62	102	97	90	92 J	92 J	
Total Alkalinity As CaCO3	90 J	85	92	94	105	101	
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (DIS)					0.03 UJ	<0.01 J	
Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	
Arsenic III (dis)	<0.005	0.006	<0.005	0.02 U	0.02	<0.02	
Arsenic V (dis)	<0.005	0.008	0.007	0.01 U	<0.02	0.02 U	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004 J	<0.004 J	
Iron (Fe) (DIS)	0.07 UJ	<0.02	<0.02	<0.02	0.05 UJ	<0.02 J	
Lead (Pb) (DIS)	<0.005	<0.005	0.01 U	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Zinc (Zn) (DIS)	<0.02	<0.02 J	<0.02 UJ	<0.02	<0.02	<0.02	
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	4.3	1.3	1.3	5.2	10	9.9	
pH	7.6	7.5	7.5	7.2	7.2	7.7	
Silicon+Silica (Si+SiO2)					21	21	
Depth To Water Level (ft)	21.5	19.6		22.05	21.8		
Eh (millivolts)	404	483	482	357	460	454	
pH (Fld)	7.7	7.4	7.4	7.7	7.7	7.8	
SC (umhos/cm at 25 C) (Fld)	339	423	419	386	428	431	
SC (umhos/cm at 25 C)	334	401	401	376	414	416	
Total Suspended Solids		6.8 J	<1 JU				
TDS (Measured at 180 C)	227	315 J	289 J	238	274	283	
Water Temperature (C) (Fld)	9.7	11.8	11.8	10.8	10.4	10.5	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-7	DH-7	DH-7	DH-7	DH-7	DH-7
Water	SAMPLE DATE	5/9/2001	11/13/2001	5/29/2002	11/14/2002	5/31/2003	10/25/2003
	SAMPLE TIME	11:20	15:40	16:00	09:45	08:00	08:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010691027	L011564012	L020397003	L020949005	L030243001	L030598015
	SAMPLE NUMBER	EHC-0105-162	EHC-0111-160	EHC-0205-176	EHC-0211-174	AEH-0306-120	AEH-0310-333
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	107	127	101	124	110	134
Calcium (Ca) (DIS)	51	40	39	45	52	48
Carbonate As CO3		<1	<1	<1	<2	<2
Chloride (Cl)	5	5	4.7	4.9	4.1	4
Magnesium (Mg) (DIS)	10	8	7.8	8.5	10	9.2
Potassium (K) (DIS)	<5	<5	<5	6	5	5.5
Sodium (Na) (DIS)	24	21	21	23	21	23
Sulfate (SO4)	111	71	83	81	127	83
Total Alkalinity As CaCO3	88	104	83	102	90	110

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05	<0.05	<0.05		
Arsenic (As) (DIS)	0.01 U	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)	0.02 U	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.05	0.03	<0.02	<0.02	<0.02	<0.03
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential		36.9	8.8			
Oxygen (O) (DIS) (Fld)	6.2	3.4	7.2	4.7	4.9	4.28
pH	7.9	7.2	6.5	6.9	7.4	8
Silicon+Silica (Si+SiO2)	22	23	19	22		
Depth To Water Level (ft)	22.09	21.7	23.1	21.2	19.9	20.37
Eh (millivolts)	404	272				
pH (Fld)	7.3	7.5	6.7	6.3	5.7	6.61
SC (umhos/cm at 25 C) (Fld)	349	404	397	318	375	401
SC (umhos/cm at 25 C)	426	376	360	389	448	412
Total Suspended Solids	<1	<1	4.1	<1	3.6	3.1
TDS (Measured at 180 C)	293	261	231	287	303	269
Salinity (G/KG) (Fld)				0.1	0.1	0.01
Turbidity (NTU) (Fld)				2	1	1
Water Temperature (C) (Fld)	9.7	12.4	8.6	11.5	8	11.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-7	DH-7	DH-7	DH-7	DH-7	DH-7
Water	SAMPLE DATE	5/24/2004	10/29/2004	5/17/2005	11/9/2005	5/4/2006	11/8/2006
	SAMPLE TIME	10:30	12:45	11:00	13:40	09:40	10:45
	LAB	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel	ELI
	LAB NUMBER	H04050162-001	H04110009-010	C05050640-014	H05110081-011	H06050056-002	H06110070-008
	SAMPLE NUMBER	AEH-0405-150	AEH-0411-167	AEH-0505-171	AEH-0511-135	AEH-0605-139	AEH-0611-122
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION			No DO-Malf. Instr.			
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	110	120	104	120	110	130
Calcium (Ca) (DIS)	41	45	42	49	43	43
Chloride (Cl)	4 J	4 UJ	2	8 UJ	6	5
Magnesium (Mg) (DIS)	7	8	8	9	8	8
Potassium (K) (DIS)	5	6	5	6	6	6
Sodium (Na) (DIS)	20	20	20	21	19	20
Sulfate (SO4)	74	77	84	76	85	80
Total Alkalinity As CaCO3	88	94	85	98	90	110

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	<0.005	<0.002	<0.002	<0.002	<0.002
Arsenic III (dis)	0.0015	<0.001 J	<0.005	0.0063	<0.005	<0.005
Arsenic V (dis)	0.0051	<0.001 J	<0.005	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02 J	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential						78.4
Oxygen (O) (DIS) (Fld)		0.73		2.4	5.08	3.14
pH	7.4	7.2	7.47	7.1	7	7.4
Depth To Water Level (ft)	21.62	20.46	22	20.81	21.53	20.91
pH (Fld)		6.98	5.07 R	6.54	6.2	6.66
SC (umhos/cm at 25 C) (Fld)		372	323	345	360	393
SC (umhos/cm at 25 C)	310	342	364	378	392	345
Total Suspended Solids	<10 J	<10	<10 J	<10	<10	<10
TDS (Measured at 180 C)	231	256	270 UJ	235	234	259
TDS - Calculated				233		
Water Temperature (C) (Fld)		11.5	8.29	11.99	9.5	12.25

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-7	DH-7	DH-7	DH-7	DH-7	DH-7
Water	SAMPLE DATE	3/29/2007	5/10/2007	7/27/2007	9/4/2007	9/4/2007	11/14/2007
	SAMPLE TIME	09:00	13:55	14:00	12:10	12:15	13:52
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07030242-001	H07050134-005	H07070291-010	H07090010-002	H07090010-003	H07110122-007
	SAMPLE NUMBER	AEH-0703-125	AEH-0705-130	AEH-0707-145	AEH-0709-101	AEH-0709-102	AEH-0711-124
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						EPA Split
	REMARKS					Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	110	110	94	120	120	
	Bicarbonate (HCO3) (dis)						140
	Calcium (Ca) (DIS)	53	41	41	40	41	39
	Chloride (Cl)	7	5	5	4	5	6
	Magnesium (Mg) (DIS)	10	8	8	7	8	7
	Potassium (K) (DIS)	6	6	5	5	5	6
	Sodium (Na) (DIS)	20	18	18	19	18	19
	Sulfate (SO4)	85	73	70	63	64	64
	Total Alkalinity As CaCO3	92	92	77	98	99	110
<b>Metals (mg/L): ppm unless noted</b>							
	Selenium-IV (DIS)						<0.005
	Selenium-VI (DIS)						<0.005
	Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	Arsenic III (DIS)	<0.005	<0.005				0.0012
	Arsenic V (DIS)	<0.005	<0.005				<0.001
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.001
	Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.003
	Manganese (Mn) (DIS)	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
	Selenium (Se) (DIS)	0.006	0.006	<0.005	<0.005	<0.005	<0.003
	Zinc (Zn) (DIS)	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxidation Reduction Potential	224.4			91.4		
	Oxygen (O) (DIS) (Fid)	5.06	3.94	0.91	1.6		3.02
	pH	7.4	7.1	7.5	7.4	7.2	7.2
	Depth To Water Level (ft)	22.34	22.04	20.49	20.83		21.04
	pH (Fid)	6.18	6.79	6.94	6.67		9.45 R
	SC (umhos/cm at 25 C) (Fid)	411	374	370	349		386
	SC (umhos/cm at 25 C)	409	373	369	354	354	360
	Total Suspended Solids	<10	<10	<10	<10	<10	<10
	TDS (Measured at 180 C)	256	250	229	228	225	231
	Water Temperature (C) (Fid)	9.16	8.81	9.85	10.65		11.81

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-7	DH-7	DH-7	DH-7	DH-7	DH-7
Water	SAMPLE DATE	1/25/2008	4/30/2008	7/15/2008	10/28/2008	2/3/2009	5/6/2009
	SAMPLE TIME	13:00	14:45	11:10	14:15	13:30	11:50
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08010206-005	H08040470-009	H08070318-012	H08100377-008	H09020036-001	H09050142-009
	SAMPLE NUMBER	AEH-0801-104	AEH-0805-117	AEH-0807-124	AEH-0811-115	AEH-0902-120	AEH-0905-131
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	130	120	110	120	130	110	
Calcium (Ca) (DIS)	40	46	38	40	40	39	
Chloride (Cl)	6	6	5	5	4	5	
Magnesium (Mg) (DIS)	8	9	7	8	8	8	
Potassium (K) (DIS)	5	4	5	5	5	5	
Sodium (Na) (DIS)	19	18	17	17	19	17	
Sulfate (SO4)	70	71	77	68	69	69	
Total Alkalinity As CaCO3	100	96	93	100	100	93	
<b>Metals (mg/L): ppm unless noted</b>							
Selenium-IV (DIS)		<0.005		<0.005			
Selenium-VI (DIS)		<0.005 J		<0.005			
Aluminum (Al) (DIS)		<0.1		<0.1		<0.1	
Antimony (Sb) (DIS)		<0.005		<0.005		<0.003	
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	
Arsenic III (DIS)		<0.005		<0.005			
Arsenic V (DIS)		<0.005		<0.005 J-			
Barium (Ba) (DIS)		<0.1		<0.1		<0.1	
Beryllium (Be) (DIS)		<0.001		<0.001		<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chromium (Cr) (DIS)		<0.001		<0.001		<0.001	
Cobalt (Co) (DIS)		<0.01		<0.01		<0.0005	
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.001	
Gold (Au) (DIS)						<0.01 UJ	
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Mercury (Hg) (DIS)		<0.006		<0.006		<0.0001	
Nickel (Ni) (DIS)		<0.01		<0.01		<0.01	
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	0.004	
Silver (Ag) (DIS)		<0.005		<0.005		<0.005	
Tellurium (Te) (DIS)						<0.1	
Thallium (Tl) (DIS)		<0.002		<0.002		<0.001	
Vanadium (V) (DIS)		<0.01		<0.01		<0.01	
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01 J	
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	3.56	3.46	1.31	1.46	3.78	3.56	
pH	7.1	7.8	7	7.2	7.1	7.3	
Depth To Water Level (ft)	22.6	22.94	20.34	21.24	22.31	22.42	
pH (Fld)	6.86	7.28	6.63	7.19	6.62	6.34	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-7	DH-7	DH-7	DH-7	DH-7	DH-7
Water	SAMPLE DATE	1/25/2008	4/30/2008	7/15/2008	10/28/2008	2/3/2009	5/6/2009
	SAMPLE TIME	13:00	14:45	11:10	14:15	13:30	11:50
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H08010206-005	H08040470-009	H08070318-012	H08100377-008	H09020036-001	H09050142-009
	SAMPLE NUMBER	AEH-0801-104	AEH-0805-117	AEH-0807-124	AEH-0811-115	AEH-0902-120	AEH-0905-131
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	372	369	371	337	358	340
SC (umhos/cm at 25 C)	374	354	352	333	362	348
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	227	234	251	218	220	224
Water Temperature (C) (Fid)	10.7	9.2	8.81	11.2	10.5	8.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-70	DH-70	DH-70	DH-71	DH-71
Water	SAMPLE DATE	5/14/2008	11/11/2008	5/14/2009	5/14/2008	11/11/2008
	SAMPLE TIME	11:10	09:25	13:15	11:50	10:25
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08050243-007	H08110126-005	H09050233-011	H08050243-008	H08110126-008
	SAMPLE NUMBER	AEH-0805-243	AEH-0811-213	AEH-0905-215	AEH-0805-244	AEH-0811-216
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					
<b>Common Ions (mg/L): ppm unless noted</b>						
Bicarbonate (HCO3)		260	270	250	220	210
Calcium (Ca) (DIS)		62 J+	51	50	100 J+	134
Chloride (Cl)		9	9	7	47	78
Magnesium (Mg) (DIS)		12 J+	10	10	35 J+	48
Potassium (K) (DIS)		4	4	4	10	12
Sodium (Na) (DIS)		40	37	40	72	86
Sulfate (SO4)		39	40	47	260	430
Total Alkalinity As CaCO3		220	220	200	180	170
<b>Metals (mg/L): ppm unless noted</b>						
Selenium-IV (DIS)		<0.005	<0.005		<0.005	<0.005
Selenium-VI (DIS)		<0.005	<0.005		0.0791	0.149
Aluminum (Al) (DIS)		<0.1	<0.1	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)		<0.005	<0.005	<0.003	0.008	0.007
Arsenic (As) (DIS)		1.614	1.41	1.36	2.398	2.88
Arsenic III (DIS)		1.4	0.959		<0.005	0.0632
Arsenic V (DIS)		0.189	0.255		2.06	2.63
Barium (Ba) (DIS)		<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)		<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)		<0.001	<0.001	<0.001	0.015 J+	0.009
Chromium (Cr) (DIS)		<0.001	<0.001	<0.001	<0.001	0.001
Cobalt (Co) (DIS)		<0.01	<0.01	0.0015 UJ	<0.01	<0.01
Copper (Cu) (DIS)		<0.004	<0.004	<0.001	<0.004	<0.004
Gold (Au) (DIS)				0.02		
Iron (Fe) (DIS)		7.68	6.15	6.47	0.19	0.04
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		3.16	3.17	3.22	1.13	0.22
Mercury (Hg) (DIS)		<0.006	<0.006	<0.0001	<0.006	<0.006
Nickel (Ni) (DIS)		<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)		<0.005	<0.005	<0.001	0.089	0.152
Silver (Ag) (DIS)		<0.005	<0.005	<0.005 J	<0.005	<0.005
Tellurium (Te) (DIS)				<0.1		
Thallium (Tl) (DIS)		<0.002	<0.002	<0.001	<0.002	<0.002
Vanadium (V) (DIS)		<0.01	<0.01	<0.01	<0.01	0.01
Zinc (Zn) (DIS)		<0.01 UJ	<0.02 J	<0.01	0.02 UJ	<0.02 J
<b>Physical/Fid-Lab: ppm unless noted</b>						
Oxygen (O) (DIS) (Fld)		0.15	0.19	0.17	4.23	4.25
pH		7.1	7.5	7.7	6.9	7.2
Depth To Water Level (ft)		14.61	14.35	13.81	32.46	30.98
pH (Fld)		7.05	6.98	7.18	6.81	6.55

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-70	DH-70	DH-70	DH-71	DH-71
Water	SAMPLE DATE	5/14/2008	11/11/2008	5/14/2009	5/14/2008	11/11/2008
	SAMPLE TIME	11:10	09:25	13:15	11:50	10:25
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H08050243-007	H08110126-005	H09050233-011	H08050243-008	H08110126-008
	SAMPLE NUMBER	AEH-0805-243	AEH-0811-213	AEH-0905-215	AEH-0805-244	AEH-0811-216
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	520	521	519	961	1313
SC (umhos/cm at 25 C)	494	518	514	951	1340
Total Suspended Solids	378 J+	20	42	496 J+	1500
TDS (Measured at 180 C)	327	320	314	674	907
Water Temperature (C) (Fid)	11.5	10.5	10.7	13.8	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-71	DH-8	DH-8	DH-8	DH-8
Water	SAMPLE DATE	5/14/2009	1/17/1985	1/17/1985	4/10/1985	6/14/1985
	SAMPLE TIME	16:00	00:00	00:00	00:00	00:00
	LAB	ELI	TSC-SLC	CAL	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050233-017	85-684	S5750	85-2480	85-4505
	SAMPLE NUMBER	AEH-0905-221	AEH-8501-123	AEH-8501-123	AEH-8504-319	AEH-8506-516
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Split		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	200	311	317	289
Calcium (Ca) (DIS)	95	302	253	275
Chloride (Cl)	43	140	170	110
Magnesium (Mg) (DIS)	35	96	71.4	90
Potassium (K) (DIS)	10	12	6.3	12.7
Sodium (Na) (DIS)	70	197	151	181
Sulfate (SO4)	290	1020	1100	894
Total Alkalinity As CaCO3	170	255	260	237

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1		0.2	
Antimony (Sb) (DIS)	0.011		<0.01	
Arsenic (As) (DIS)	3.34	0.01	0.007	0.005
Barium (Ba) (DIS)	<0.1		0.06	
Beryllium (Be) (DIS)	<0.001		<0.0006	
Cadmium (Cd) (DIS)	0.006	0.003	<0.004	0.003
Chromium (Cr) (DIS)	<0.001		0.01	
Cobalt (Co) (DIS)	0.0011 UJ		<0.007	
Copper (Cu) (DIS)	0.003 UJ	0.01	0.005	0.01
Gold (Au) (DIS)	<0.1			
Iron (Fe) (DIS)	<0.02	0.06	0.01	0.03
Lead (Pb) (DIS)	<0.005	<0.005	0.004	<0.005
Manganese (Mn) (DIS)	0.01	0.05	0.04	0.1
Mercury (Hg) (DIS)	<0.0001		<0.0002	
Nickel (Ni) (DIS)	<0.01		<0.03	
Selenium (Se) (DIS)	0.096		0.01	
Silver (Ag) (DIS)	<0.005 J		<0.003	
Tellurium (Te) (DIS)	<0.1			
Thallium (Tl) (DIS)	<0.001		<0.002	
Tin (Sn) (DIS)			<0.04	
Vanadium (V) (DIS)	0.01		0.006	
Zinc (Zn) (DIS)	<0.01	0.09	0.08	0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.48			
pH	7.3	7.4	7.8	7.2
Depth To Water Level (ft)	32.09			
pH (Fld)	6.66			
SC (umhos/cm at 25 C) (Fld)	1035	2525		2613
SC (umhos/cm at 25 C)	1050	2690	1600	2580

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-71	DH-8	DH-8	DH-8	DH-8
Water	SAMPLE DATE	5/14/2009	1/17/1985	1/17/1985	4/10/1985	6/14/1985
	SAMPLE TIME	16:00	00:00	00:00	00:00	00:00
	LAB	ELI	TSC-SLC	CAL	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050233-017	85-684	S5750	85-2480	85-4505
	SAMPLE NUMBER	AEH-0905-221	AEH-8501-123	AEH-8501-123	AEH-8504-319	AEH-8506-516
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Split		
<b>Physical/Fid-Lab: ppm unless noted</b>						
	Total Suspended Solids	18	5540	16		213
	TDS (Measured at 180 C)	702	2030	2000	2210	2020
	Water Temperature (C) (Fld)	11.8				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-8	DH-8	DH-8	DH-8	DH-8	DH-8
Water	SAMPLE DATE	8/15/1985	8/15/1985	8/15/1985	8/15/1985	11/24/1986	11/24/1986
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	JTC	TSC-SLC	JTC	TSC-SLC	RMAL	TSC-SLC
	LAB NUMBER	73-2887	85-6285	73-2888	85-6298	8611-28	86-7837
	SAMPLE NUMBER	AEH-8508-707	AEH-8508-707	AEH-8508-724	AEH-8508-724	AEH-8611-28	AEH-8611-28
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split		Field Duplicate	Field Duplicate	Split	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	268		305		273	366 M
	Calcium (Ca) (DIS)	466		433		446	
	Carbonate As CO3					<5	
	Chloride (Cl)	266		244		260	
	Magnesium (Mg) (DIS)	129		120		129	
	Potassium (K) (DIS)	10.7		10		11.3	
	Sodium (Na) (DIS)	185		177		214	
	Sulfate (SO4)	1080		496		1350	1340
	Total Alkalinity As CaCO3	220		250			
<b>Metals (mg/L): ppm unless noted</b>							
	Aluminum (Al) (DIS)	<0.2		<0.2			
	Antimony (Sb) (DIS)	<0.05		<0.05			
	Arsenic (As) (DIS)	0.02	0.05	0.01	0.006	0.04	0.04
	Arsenic III (dis)						<0.008
	Arsenic V (dis)						0.05 M
	Barium (Ba) (DIS)	0.09		0.08			
	Beryllium (Be) (DIS)	<0.04		<0.004			
	Cadmium (Cd) (DIS)	0.006	0.003	<0.004	0.005	<0.005	<0.001
	Chromium (Cr) (DIS)	<0.008		<0.008			
	Cobalt (Co) (DIS)	<0.008		<0.008			
	Copper (Cu) (DIS)	<0.02		<0.02		<0.004	
	Iron (Fe +2) (TOT)						0.03
	Iron (Fe) (DIS)	<0.05		<0.05		<0.03	0.04
	Lead (Pb) (DIS)	<0.002	<0.005	<0.03	<0.005	<0.05	<0.005
	Manganese (Mn) (DIS)	0.04		0.01		<0.004	
	Mercury (Hg) (DIS)	0.0002		0.0003			
	Nickel (Ni) (DIS)	<0.02		<0.02			
	Selenium (Se) (DIS)	0.06		0.1			
	Silver (Ag) (DIS)	<0.006		<0.006			
	Thallium (Tl) (DIS)	<0.05		<0.05			
	Tin (Sn) (DIS)	<0.03		<0.03			
	Vanadium (V) (DIS)	<0.03		<0.03			
	Zinc (Zn) (DIS)	0.03	0.06	<0.01	0.02	0.006	0.02
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)						5
	pH	7.07	7.9	7.06	7.3	7	7
	Depth To Water Level (ft)						37.2
	pH (Fld)						6.9 M
	SC (umhos/cm at 25 C) (Fld)		3041		2848		3120

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-8	DH-8	DH-8	DH-8	DH-8	DH-8
Water	SAMPLE DATE	8/15/1985	8/15/1985	8/15/1985	8/15/1985	11/24/1986	11/24/1986
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	JTC	TSC-SLC	JTC	TSC-SLC	RMAL	TSC-SLC
	LAB NUMBER	73-2887	85-6285	73-2888	85-6298	8611-28	86-7837
	SAMPLE NUMBER	AEH-8508-707	AEH-8508-707	AEH-8508-724	AEH-8508-724	AEH-8611-28	AEH-8611-28
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split		Field Duplicate	Field Duplicate	Split	
<b>Physical/Fld-Lab: ppm unless noted</b>							
	SC (umhos/cm at 25 C)	272	2950	223	2720	3180	3180
	Total Suspended Solids	1063		4			
	TDS (Measured at 180 C)	2736	2433	2221	2379	2780	2768
	Water Temperature (C) (Fld)						10.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-8	DH-8	DH-8	DH-8	DH-8	DH-8
Water	SAMPLE DATE	6/3/1987	11/23/1987	5/2/1988	12/15/1988	4/18/1989	10/18/1989
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-4013	87-10780	88-3201	89-10	89-497	89-817
	SAMPLE NUMBER	AEH-8706-09	AEH-8711-223	AEH-8804-307	AEH-8812-128	AEH-8904-207	AEH-8910-407
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	336	314	262			
Calcium (Ca) (DIS)	380	482	310			
Carbonate As CO3	<1	<1	<1			
Chloride (Cl)	225 M	406 M	269	240	180	220
Magnesium (Mg) (DIS)	120	160	105			
Potassium (K) (DIS)	11.5	15.8	13.4			
Sodium (Na) (DIS)	220	252 M	203			
Sulfate (SO4)	1313 M	1580	1184 J	1500 R	1050	1500 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.05 M	0.04	0.1 J	0.06	0.02 J	0.05
Arsenic III (dis)	0.008	<0.008	<0.008	0.08 J	0.1	<0.008
Arsenic V (dis)	0.05	0.08		<0.008 J	<0.008 UJ	0.1
Cadmium (Cd) (DIS)	0.003 M	0.001	<0.001	0.001 J	<0.002	<0.001
Copper (Cu) (DIS)	0.02 M	0.02		0.01	0.03 J	<0.008
Iron (Fe +2) (TOT)	<0.01	<0.01	<0.01	0.06	<0.01	
Iron (Fe) (DIS)	0.02	0.06	<0.02			
Lead (Pb) (DIS)	<0.005	0.01	0.02 J	0.08	<0.02	0.02
Manganese (Mn) (DIS)	0.003	0.003				
Zinc (Zn) (DIS)	0.02 M	<0.008	<0.008	<0.008	0.009	0.01 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5	3.8	4.7		4	5.2
pH	7.8	8.08	7.8	8	6.8	7.8
Depth To Water Level (ft)	40.6	40.09	42.3	41.08	41.2	37.8
pH (Fld)	6.6	6.7	6.7	6.8	6.01	6.5
SC (umhos/cm at 25 C) (Fld)	3142	3883 M	3053	3074	2728	3295
SC (umhos/cm at 25 C)	3100	3980	3150	3050 J	2050	3180
Total Suspended Solids		2				
TDS (Measured at 180 C)	2158	3238 M	2680 J	2918 J	2531	2928
Water Temperature (C) (Fld)	13.5	8	11	9.7	13.1	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-8	DH-8	DH-8	DH-8	DH-8	DH-8
Water	SAMPLE DATE	4/28/1990	12/4/1990	5/8/1991	11/18/1991	4/27/1992	11/19/1992
	SAMPLE TIME	00:00	00:00	00:00	15:00	16:00	09:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	90-1035	90-2242	91-2678	91-3863	92-4368	92-6814
	SAMPLE NUMBER	AEH-9005-407	AEH-9011-714	AEH-9105-143	AEH-9111-320	AEH-9204-108	EHC-9211-122
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)							612
Chloride (Cl)	246	215 J	249	258 J	173 J		298
Magnesium (Mg) (Dis)							167
Potassium (K) (Dis)							8.8
Sodium (Na) (Dis)							294
Sulfate (SO4)	1075	1377 J	685	1565	1419		1575

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.07	0.05	0.06	0.04	0.06		0.04 J
Arsenic III (dis)	0.3 A	0.08 U	0.07 J	<0.004	0.01		<0.004
Arsenic V (dis)	0.01 U	<0.004	0.01 UJ	0.04 U	0.04		0.04 J
Cadmium (Cd) (DIS)	0.001	<0.001	0.002	0.002	0.001		0.002
Copper (Cu) (DIS)	<0.008	<0.008	<0.004	<0.004	0.005		0.006
Lead (Pb) (DIS)	0.03	<0.005 UJ	<0.005	<0.005 J	<0.005		<0.005
Zinc (Zn) (DIS)	0.006		<0.02	0.03	0.02		0.006

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	6.2	5.3	8	6.9	6.2		6.2
pH	7.4	8	7.8	7.2	7.4		7.6
Depth To Water Level (ft)	43.01	41.9	42.9	37.3	40.3		37.2
pH (Fld)	6.8	7.3	7.1	7.2	6.7		6.8
SC (umhos/cm at 25 C) (Fld)	2886	3186	3385	3570	3400		4165
SC (umhos/cm at 25 C)	2920	3120	3350	3080	3320		4300
TDS (Measured at 180 C)	2325	2790 J	3045	3418 J	2859 J		3710
Water Temperature (C) (Fld)	9.8	11	12.4	13.1	13		10.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-8	DH-8	DH-8	DH-8	DH-8	DH-8
Water	SAMPLE DATE	5/4/1993	11/10/1993	5/11/1994	5/11/1994	11/11/1994	11/11/1994
	SAMPLE TIME	17:00	12:00	10:40	17:05	11:00	11:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-7777	93-9220	94-1349	94-1347	94-3285	94-3281
	SAMPLE NUMBER	EHC-9305-144	EHC-9311-130	EHC-9405-135	EHC-9405-177	EHC-9411-173	EHC-9411-135
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate	Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)	540					
Chloride (Cl)	263	651 J	498	520	475	489
Magnesium (Mg) (Dis)	147					
Potassium (K) (Dis)	13					
Sodium (Na) (Dis)	294					
Sulfate (SO4)	1784	2549 J	2103 J	2070 J	1970 J	1877 J
Total Hardness As CaCO3	1900					

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.04	0.02	0.01	0.01 J	0.007	0.01
Arsenic III (dis)	<0.004	<0.004	<0.004	<0.004	0.004 U	0.004 U
Arsenic V (dis)	0.04 UJ	0.03 J	0.02 J	0.02 J	0.02 U	0.02 U
Cadmium (Cd) (DIS)	0.001	0.2	10.1	8.5	8.2	8.3
Copper (Cu) (DIS)	0.005	0.01	0.02	0.01	0.02	0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005 JU	<0.005 JU	<0.005 JU	<0.005 JU
Zinc (Zn) (DIS)	0.01	0.1	14.8	12.4	12.9	12.7

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	6.5	3.5	4.3	4.3	3.8	3.8
Depth To Water Level (ft)	39	36.4	39.6	39.6	38.3	38.3
pH (Fld)	7.08	6.6	6.7	6.7	6.9	6.9
SC (umhos/cm at 25 C) (Fld)	3830	5270	4510	4500	4610	4670
SC (umhos/cm at 25 C)	3700	5830 J	5010 J	5050 J	4730 J	4760 J
TDS (Measured at 180 C)	3569	4948	4223	4227	3954 J	4028 J
Water Temperature (C) (Fld)	10.5	10.9	13.2	13.2	12	12

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-8	DH-8	DH-8	DH-8	DH-8	DH-8
Water	SAMPLE DATE	5/10/1995	5/10/1995	11/9/1995	11/9/1995	5/10/1996	11/8/1996
	SAMPLE TIME	16:20	16:35	16:30	16:45	11:10	13:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-4485	95-4497	95-6127	95-6136	96-6784	96-7768
	SAMPLE NUMBER	EHC-9505-135	EHC-9505-172	EHC-9511-137	EHC-9511-173	EHC-9605-121	EHC-9611-121
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	372	385	308 J	276 J	278	308
	Sulfate (SO4)	1481	1507	1632 J	1401 J	1412	1631
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.009	0.01	0.01	0.007	0.009	0.07 J
	Arsenic III (dis)	<0.004	<0.004	0.004	<0.004	0.008 J	<0.004
	Arsenic V (dis)	0.006 UJ	0.02 UJ	0.007	0.005	0.02 J	0.01 J
	Cadmium (Cd) (DIS)	5.3	5.4	4.9	5.2	4.2	4.5
	Copper (Cu) (DIS)	0.02	0.02	0.008	0.007	0.01	0.02
	Lead (Pb) (DIS)	<0.005 J	<0.005 J	0.02 J	<0.005 J	0.009	0.008
	Zinc (Zn) (DIS)	9.7	9.6	11.03	10.5	9.7	10.3
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	3.4	3.5	4.7	4.5	5.7	3.2
	pH	7.08	7.05	7.1	7.1	6.8	7.4
	Depth To Water Level (ft)	41.4	41.4	36	36	37.8	37.3
	pH (Fld)	6.6	6.6	6.6	6.6	6.6	6.6
	SC (umhos/cm at 25 C) (Fld)	3785	3665	3950	3960	3590	3760
	SC (umhos/cm at 25 C)	3800 J	3890 J	4000 J	4000 J	3410	3490
	TDS (Measured at 180 C)	2994 J	3091 J	3434	3401	2952	3067
	Water Temperature (C) (Fld)	12.2	12.2	9.5	9.7	8.7	9.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-8	DH-8	DH-8	DH-8	DH-8	DH-8
Water	SAMPLE DATE	5/6/1997	11/4/1997	5/5/1998	11/18/1998	5/10/1999	11/10/1999
	SAMPLE TIME	12:45	14:25	10:50	12:10	08:30	15:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	97-907	187-2675	260-3759	310-4403	347-4890	L992008002
	SAMPLE NUMBER	EHC-9705-120	EHC-9711-121	EHC-9805-122	EHC-9811-121	EHC-9905-121	EHC-9911-137
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)			249	281	278 J	312
	Calcium (Ca) (DIS)			330	325	433	356
	Carbonate As CO3					<1 UJ	<1
	Chloride (Cl)	229	230	216	238	316	323
	Magnesium (Mg) (DIS)			102	107	132	121
	Potassium (K) (DIS)			18 J	15	17	14
	Sodium (Na) (DIS)			250	298	235	243
	Sulfate (SO4)	1152	1617	1232	1386	1624	1192
	Total Alkalinity As CaCO3			204	230	228 J	256
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.009	0.07	0.02	0.03	0.03	0.04
	Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 J
	Arsenic V (dis)	0.01	0.02	0.01	0.01	0.02	0.05
	Cadmium (Cd) (DIS)	3.03	1.8	1.8	1.3	1.9	1.1
	Copper (Cu) (DIS)	0.01	0.02	0.02	0.01	0.01	0.01
	Iron (Fe) (DIS)			0.05	0.05	0.04 UJ	<0.02
	Lead (Pb) (DIS)	<0.005	0.006	0.009	<0.005	<0.005	0.005 U
	Manganese (Mn) (DIS)			0.9	0.5	0.9	0.5
	Zinc (Zn) (DIS)	7.3	3.6	4.6	2.8	4.5	1.9 J
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	3.7	3.3	2.1	2.6	2.7	4.6
	pH	6.8	7	6.9	7	7.3	7.3
	Depth To Water Level (ft)	39.5	33.5	39	36.6	38.7	37.08
	Eh (millivolts)				413	452	418
	pH (Fld)	6.1	6.6	6.3	7	6.3	7.1
	SC (umhos/cm at 25 C) (Fld)	3040	3920	2770	2997	2850	3250
	SC (umhos/cm at 25 C)	3120	3380	3090	3040	3510	3360
	Total Suspended Solids		2		<1		<1
	TDS (Measured at 180 C)	2757	3092	2550	2589	3101	2749
	Water Temperature (C) (Fld)	11.2	12.2	11.8	10.3	9.8	11.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-8	DH-8	DH-8	DH-8	DH-8	DH-8
Water	SAMPLE DATE	5/2/2000	11/7/2000	5/10/2001	5/10/2001	11/8/2001	5/29/2002
	SAMPLE TIME	17:25	15:25	11:00	11:15	14:45	13:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000703012	L001873005	L010691028	L010691002	L011539005	L020397004
	SAMPLE NUMBER	EHC-0005-136	EHC-0011-137	EHC-0105-163	EHC-0105-226	EHC-0111-161	EHC-0205-177
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	255	293 J	317	331	329	355
Calcium (Ca) (DIS)	381	595	666	673	670	741
Carbonate As CO3	<1	<1			<1	<1
Chloride (Cl)	270	430 J	463	462	424	410
Magnesium (Mg) (DIS)	113	148	176	163	170	162
Potassium (K) (DIS)	13	15	17	16	16	15
Sodium (Na) (DIS)	148	145	118 J	96 J	131	59
Sulfate (SO4)	1197	1566 J	1746	1890	1251	1723
Total Alkalinity As CaCO3	209	240 J	260	271	270	291

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		<0.01	<0.05	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	0.07	0.01	0.01 UJ	0.02 UJ	0.03 U	0.01
Arsenic III (dis)	0.02 UJ	<0.02 J	0.01 U	0.007 U	0.005 U	<0.005
Arsenic V (dis)	0.03 U	0.03 U	0.008	0.02	0.03 U	0.007
Cadmium (Cd) (DIS)	0.9	1.2	<0.001	<0.001	1.1	0.05
Copper (Cu) (DIS)	0.01	<0.004	<0.004	0.01	<0.004	0.02
Iron (Fe) (DIS)	<0.02 J	<0.02	<0.05	<0.05	<0.02	<0.02
Lead (Pb) (DIS)	0.01	0.006	<0.005	0.005	<0.005	0.02
Manganese (Mn) (DIS)	0.5	0.5	0.3	0.2	0.2	<0.02
Zinc (Zn) (DIS)	1.7	2.6	1.8	1.6	2.1	0.05

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					84.6	-6
Oxygen (O) (DIS) (Fld)	6.9	5.9	10.6	10.5	4	5.1
pH	6.9	7.2	8.1	7.5	7.5	7.8
Silicon+Silica (Si+SiO2)		36	40	38	37	39
Depth To Water Level (ft)	41.3	41.1	42.8		40.08	44
Eh (millivolts)	364	424	424	426	336	
pH (Fld)	6.8	7.08	7.6	7.6	6.4	7.2
SC (umhos/cm at 25 C) (Fld)	2842	4120	3080	3000	3160	3790
SC (umhos/cm at 25 C)	2890	3940	4060	4050	3950	3920
Total Suspended Solids			<1	<1	2.3	1.3
TDS (Measured at 180 C)	2355	3354	3985	3880	3479	3568
Water Temperature (C) (Fld)	12.1	10.2	12	12	11.6	11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-8	DH-8	DH-8	DH-8	DH-8	DH-8
Water	SAMPLE DATE	11/14/2002	5/31/2003	10/26/2003	5/26/2004	11/1/2004	5/18/2005
	SAMPLE TIME	14:00	14:00	09:30	15:45	12:25	11:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper
	LAB NUMBER	L020949014	L030243016	L030599-019	H04050191-018	H04110018-004	C05050691-006
	SAMPLE NUMBER	EHC-0211-175	AEH-0306-135	AEH-0310-357	AEH-0405-196	AEH-0411-174	AEH-0505-190
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	333	349	280	350	310	323
Calcium (Ca) (DIS)	780	686	807	692	576	724
Carbonate As CO3	<1	<2	<2			
Chloride (Cl)	508	522	498	470	500	431
Magnesium (Mg) (DIS)	185	166	192	160	164	177
Potassium (K) (DIS)	18	19	17	16	18	15
Sodium (Na) (DIS)	122	97	137	140	227	133
Sulfate (SO4)	1571	1768	1665	1800	1730	1670
Total Alkalinity As CaCO3	273	286	280	290	250	265

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05					
Arsenic (As) (DIS)	0.02	0.02	<0.05	0.012	<0.005	0.028
Arsenic III (dis)	<0.005	0.005	<0.05	<0.001	<0.001	<0.005
Arsenic V (dis)	<0.005	0.01	<0.05	0.014 J	0.017	0.02 J
Cadmium (Cd) (DIS)	0.5	0.3	0.37	0.535	1.048	0.616
Copper (Cu) (DIS)	0.01	0.01	0.005	0.023	0.007	0.007
Iron (Fe) (DIS)	<0.02	<0.02	<0.03	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.06	0.02	0.026	0.04	0.05	0.06
Zinc (Zn) (DIS)	1.2	0.6	0.91	1.07	1.84	1.09

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4	5.3	3.14	3.41	4.45	3.46
pH	7.4	7.6	7.8	7.5	6.9	7.27
Silicon+Silica (Si+SiO2)	37					
Depth To Water Level (ft)	40.5	41.6	40.7	42.13	38.32	42.78
pH (Fld)	6.5	6.5	6.93	7.01	7.02	6.84
SC (umhos/cm at 25 C) (Fld)	4060	4210	4250	4150	4420	5196
SC (umhos/cm at 25 C)	4180	4350	4380	3850	3580	4360
Total Suspended Solids	<1	2.8	1.4	<10	<10 J	<10
TDS (Measured at 180 C)	3811	4016	3945	3480	3600	4040 J
TDS - Calculated						3350
Salinity (G/KG) (Fld)	1.9	2.1	2.1			
Turbidity (NTU) (Fld)	1	1	8			
Water Temperature (C) (Fld)	11.3	12.1	11.5	12	11.7	11.88

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-8	DH-8	DH-8	DH-8	DH-8	DH-8
Water	SAMPLE DATE	5/18/2005	11/11/2005	5/5/2006	11/17/2006	5/21/2007	12/4/2007
	SAMPLE TIME	11:35	13:00	11:40	11:03	09:20	11:10
	LAB	ELI-Casper	ELI-Hel	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	C05050691-007	H05110105-010	H06050065-009	H06110158-004	H07050232-002	H07120019-002
	SAMPLE NUMBER	AEH-0505-191	AEH-0511-165	AEH-0605-162	AEH-0611-204	AEH-0705-192	AEH-0711-188
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	323	310	350	340	380	
Bicarbonate (HCO3) (dis)						340
Calcium (Ca) (DIS)	723	320	788	654	803	764
Chloride (Cl)	466	469	565	545	575	612
Magnesium (Mg) (DIS)	177	87	184	169	186	179
Potassium (K) (DIS)	15	8	16	22	16	19
Sodium (Na) (DIS)	137	110	135	203	78	192
Sulfate (SO4)	1640	1450	1570	1610	1890	1830
Total Alkalinity As CaCO3	265	260	290	280	310	280

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)						0.0132
Selenium-VI (DIS)						1.11
Arsenic (As) (DIS)	0.026	<0.002	0.013 UJ	0.064	0.041 UJ	0.061
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005 J-	<0.005	<0.001 A
Arsenic V (dis)	0.03 J	0.01	0.02	0.02 J-	<0.005	0.0131 A
Cadmium (Cd) (DIS)	0.618	0.758	0.641	0.81	0.01	0.406
Copper (Cu) (DIS)	0.007	0.007	0.006	0.008	<0.004	0.007 UJ
Iron (Fe) (DIS)	<0.02	<0.02	0.11	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.06	0.03	0.03	0.03	<0.01	0.01
Selenium (Se) (DIS)						1.298
Zinc (Zn) (DIS)	1.09	0.9	1.14	1.63	<0.01	0.71

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential				133.9		
Oxygen (O) (DIS) (Fid)		3.69	2.48	3.34	2.8	2.52
pH	7.3	7	7.1	7.3	7.8	7.4
Depth To Water Level (ft)		39.4	42.38	39.25	43.25	40.31
pH (Fid)		6.75	6.84	6.74	7.02	6.84
SC (umhos/cm at 25 C) (Fid)		4510	4560	4569	4785	4669
SC (umhos/cm at 25 C)	4360	4220	3560 R	3870	3900	5360
Total Suspended Solids	<10	<10	14	11	10	<10
TDS (Measured at 180 C)	4030 J	3530 J-	3940	3720	4160	4270
TDS - Calculated	3380					
Water Temperature (C) (Fid)		12.29	12.51	11.31	12.82	14.62

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-8	DH-8	DH-8	DH-8	DH-8	DH-8
Water	SAMPLE DATE	2/4/2008	2/4/2008	5/7/2008	5/7/2008	7/18/2008	11/6/2008
	SAMPLE TIME	10:00	10:15	10:40	10:40	13:55	09:34
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08020017-001	H08020017-002	H08050136-008	H08050136-008RA	H08070391-002	H08110088-001
	SAMPLE NUMBER	AEH-0801-153	AEH-0801-154	AEH-0805-172	AEH-0805-172	AEH-0807-175	AEH-0811-180
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION			As Spec-Unpresrvd	As Spec-Presrvd		
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	370	380	370	370	350
Calcium (Ca) (DIS)	782	784	838	813	825
Chloride (Cl)	625	625	590	720	610
Magnesium (Mg) (DIS)	182	183	182	177	189
Potassium (K) (DIS)	17	17	19	18	18
Sodium (Na) (DIS)	133	132	86	146	164
Sulfate (SO4)	1800	1740	1800	1900	1700
Total Alkalinity As CaCO3	310	310	300	300	280

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)			<0.005 J		0.028
Selenium-VI (DIS)			0.701 J		1.27
Aluminum (Al) (DIS)			<0.1		<0.1
Antimony (Sb) (DIS)			<0.005		<0.005
Arsenic (As) (DIS)	0.049	0.052	0.054	0.08	0.059
Arsenic III (DIS)			<0.005 J	<0.005	0.0081 J
Arsenic V (DIS)			<0.005 J	<0.005	0.0194 J
Barium (Ba) (DIS)			<0.1		<0.1
Beryllium (Be) (DIS)			<0.001		<0.001
Cadmium (Cd) (DIS)	0.371	0.385	0.011	0.33	0.272
Chromium (Cr) (DIS)			0.001		0.005
Cobalt (Co) (DIS)			<0.01		<0.01
Copper (Cu) (DIS)	0.005	0.005	0.006	0.007	0.013
Iron (Fe) (DIS)	<0.03	<0.03	<0.02	<0.05	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)			<0.006		<0.006
Nickel (Ni) (DIS)			0.03		0.02
Selenium (Se) (DIS)	1.092	1.119	1.13	2.33	1.54
Silver (Ag) (DIS)			<0.005		<0.005
Thallium (Tl) (DIS)			<0.002		<0.002
Vanadium (V) (DIS)			<0.01		<0.01
Zinc (Zn) (DIS)	0.61	0.68	0.02	0.5	0.56

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.88	2.88	3.15	3.16	3.59
pH	7.3	7.3	7.3	7.4	7.6
Depth To Water Level (ft)	43.11		44.15	40.91	40.41
pH (Fld)	6.89	6.89	6.83	6.71	6.72
SC (umhos/cm at 25 C) (Fld)	4957	4957	4379	5259	4846
SC (umhos/cm at 25 C)	4440	4440	4000	6120	4620

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-8	DH-8	DH-8	DH-8	DH-8
Water	SAMPLE DATE	2/4/2008	2/4/2008	5/7/2008	7/18/2008	11/6/2008
	SAMPLE TIME	10:00	10:15	10:40	13:55	09:34
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08020017-001	H08020017-002	H08050136-008	H08070391-002	H08110088-001
	SAMPLE NUMBER	AEH-0801-153	AEH-0801-154	AEH-0805-172	AEH-0807-175	AEH-0811-180
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION			As Spec-Unpresrvd		
	REMARKS		Field Duplicate			
<b>Physical/Fid-Lab: ppm unless noted</b>						
	Total Suspended Solids	<10	<10	<10	<10	<10
	TDS (Measured at 180 C)	4350	4390	4240	4530	3990
	Water Temperature (C) (Fld)	11.3	11.3	11.6	12.4	11.41

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-8	DH-8	DH-9	DH-9	DH-9
Water	SAMPLE DATE	2/5/2009	5/12/2009	1/18/1985	1/18/1985	4/9/1985
	SAMPLE TIME	10:00	15:10	00:00	00:00	00:00
	LAB	ELI	ELI	TSC-SLC	CAL	TSC-SLC
	LAB NUMBER	H09020058-011	H09050193-011	85-685	S5754	85-2481
	SAMPLE NUMBER	AEH-0902-144	AEH-0905-185	AEH-8501-124	AEH-8501-124	AEH-8504-320
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS				Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	380	370	444	220
Calcium (Ca) (DIS)	809	820	141	217
Chloride (Cl)	620	540	95	112
Magnesium (Mg) (DIS)	179	183	21	71.2
Potassium (K) (DIS)	18	19	53	72.3
Sodium (Na) (DIS)	147	108	300	244
Sulfate (SO4)	1900	1800	768	74
Total Alkalinity As CaCO3	310	300	364	180

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		<0.1		167	
Antimony (Sb) (DIS)		<0.003		<0.01	
Arsenic (As) (DIS)	0.049	0.07	0.006	22	15.6
Barium (Ba) (DIS)		<0.1		2.06	
Beryllium (Be) (DIS)		<0.001		0.01	
Cadmium (Cd) (DIS)	0.298	0.068	0.005	0.5	0.02
Chromium (Cr) (DIS)		0.002		0.2	
Cobalt (Co) (DIS)		0.0044		0.1	
Copper (Cu) (DIS)	0.007	0.012	0.01	5.5	
Gold (Au) (DIS)		<0.02			
Iron (Fe) (DIS)	<0.03	<0.02	0.1	219	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	26	0.009
Manganese (Mn) (DIS)	<0.01	<0.01	2.8	12.4	
Mercury (Hg) (DIS)		0.0029		<0.0002	
Nickel (Ni) (DIS)		0.05		0.1	
Selenium (Se) (DIS)	1.23	1.3		<0.002	
Silver (Ag) (DIS)		<0.005		0.02	
Tellurium (Te) (DIS)		<0.1			
Thallium (Tl) (DIS)		0.002		0.007	
Tin (Sn) (DIS)				<0.04	
Vanadium (V) (DIS)		<0.01		0.3	
Zinc (Zn) (DIS)	0.64	0.08 UJ	0.6	48.1	1

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.64	3.58			
pH	7.4	7.4	7.4	7.8	7.2
Depth To Water Level (ft)	42.4	43.78			
pH (Fld)	6.82	7.06			
SC (umhos/cm at 25 C) (Fld)	5197	4852	2071		1637
SC (umhos/cm at 25 C)	4630	4700	2210	1400	1610

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-8	DH-8	DH-9	DH-9	DH-9
Water	SAMPLE DATE	2/5/2009	5/12/2009	1/18/1985	1/18/1985	4/9/1985
	SAMPLE TIME	10:00	15:10	00:00	00:00	00:00
	LAB	ELI	ELI	TSC-SLC	CAL	TSC-SLC
	LAB NUMBER	H09020058-011	H09050193-011	85-685	S5754	85-2481
	SAMPLE NUMBER	AEH-0902-144	AEH-0905-185	AEH-8501-124	AEH-8501-124	AEH-8504-320
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS				Split	
<b>Physical/Fid-Lab: ppm unless noted</b>						
	Total Suspended Solids	<10	<10	561	15	
	TDS (Measured at 180 C)	4180	4230	1530	330	1150
	Water Temperature (C) (Fld)	11.5	11.8			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-9	DH-9	DH-9	DH-9	DH-9	DH-9
Water	SAMPLE DATE	6/11/1985	6/11/1985	8/13/1985	11/25/1986	11/25/1986	6/5/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	JTC	TSC-SLC	TSC-SLC	RMAL	TSC-SLC	TSC-SLC
	LAB NUMBER	73-1991	85-4504	85-6299	8611-29	86-7835	87-4019
	SAMPLE NUMBER	AEH-8506-517	AEH-8506-517	AEH-8508-725	AEH-8611-29	AEH-8611-29	AEH-8706-10
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split			Split		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	221	249		177	207	189
Calcium (Ca) (DIS)	98	92		135		96
Carbonate As CO3				<5		<1
Chloride (Cl)	59.4	54		84		60 M
Magnesium (Mg) (DIS)	13	14.8		20		13.5
Potassium (K) (DIS)	42.7	46		44.3		42
Sodium (Na) (DIS)	192	210		173		168
Sulfate (SO4)	299	415		553	520	463 M
Total Alkalinity As CACO3	181.5	204				

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1					
Antimony (Sb) (DIS)	0.2					
Arsenic (As) (DIS)	18.1	10.4	11.4	6.4	6.5	5.2 M
Arsenic III (dis)					6.6 M	0.008
Arsenic V (dis)					0.4	6.8
Barium (Ba) (DIS)	0.06					
Beryllium (Be) (DIS)	<0.005					
Cadmium (Cd) (DIS)	<0.004	0.006	0.008	<0.005	0.005	0.005 M
Chromium (Cr) (DIS)	<0.008					
Cobalt (Co) (DIS)	<0.02					
Copper (Cu) (DIS)	<0.02	0.01		0.009		<0.008
Iron (Fe +2) (TOT)					<0.01	<0.01
Iron (Fe) (DIS)	<0.04	0.03		<0.03	<0.02	<0.02
Lead (Pb) (DIS)	0.007	0.007	0.006	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.7	0.5		0.07		0.02
Mercury (Hg) (DIS)	<0.0001					
Nickel (Ni) (DIS)	<0.02					
Selenium (Se) (DIS)	0.01					
Silver (Ag) (DIS)	<0.01					
Thallium (Tl) (DIS)	0.004					
Tin (Sn) (DIS)	<0.03					
Vanadium (V) (DIS)	<0.03					
Zinc (Zn) (DIS)	0.9	0.7	0.5	0.4	0.4	0.4

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)					4.5	1.7 M
pH	7.5	7.8	7.9	7	7.2	7.8
Depth To Water Level (ft)					11.8	10.8
pH (Fld)					6.9	7.1 M
SC (umhos/cm at 25 C) (Fld)		1429	1427		1565	1356

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-9	DH-9	DH-9	DH-9	DH-9	DH-9
Water	SAMPLE DATE	6/11/1985	6/11/1985	8/13/1985	11/25/1986	11/25/1986	6/5/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	JTC	TSC-SLC	TSC-SLC	RMAL	TSC-SLC	TSC-SLC
	LAB NUMBER	73-1991	85-4504	85-6299	8611-29	86-7835	87-4019
	SAMPLE NUMBER	AEH-8506-517	AEH-8506-517	AEH-8508-725	AEH-8611-29	AEH-8611-29	AEH-8706-10
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split			Split		
<b>Physical/Fid-Lab: ppm unless noted</b>							
	SC (umhos/cm at 25 C)	1200	1510	1470	1600	1600	1350
	Total Suspended Solids	948	973				
	TDS (Measured at 180 C)	449	955	1174	1140	1415	1057
	Water Temperature (C) (Fld)					10	13 M

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-9	DH-9	DH-9	DH-9	DH-9	DH-9
Water	SAMPLE DATE	11/23/1987	11/23/1987	5/2/1988	4/19/1989	10/18/1989	11/18/1991
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	15:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-10781	87-10782	88-3202	89-502	89-818	91-3862
	SAMPLE NUMBER	AEH-8711-224	AEH-8711-252	AEH-8804-308	AEH-8904-208	AEH-8910-408	AEH-9111-301
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	203	203	138			
Calcium (Ca) (DIS)	140	130	100			
Carbonate As CO3	<1	<1	<1			
Chloride (Cl)	60	60	58	57	58.3	68 J
Magnesium (Mg) (DIS)	19.2	19.6	17			
Potassium (K) (DIS)	50.3	49.9	4.5			
Sodium (Na) (DIS)	152	152	141			
Sulfate (SO4)	610	530	441 J	500	565 J	524

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	4.5	4.8	4.1	3.8	4.8 J	4.1
Arsenic III (dis)	0.02	<0.008	0.01	<0.008	0.02	0.007 U
Arsenic V (dis)	4.8	4.5	4.9	4 J	3.9	4.8
Cadmium (Cd) (DIS)	0.004	0.004	0.003	<0.002	0.006	0.004
Copper (Cu) (DIS)	0.01	0.01		0.009 J	0.009	0.008
Iron (Fe +2) (TOT)	0.02	<0.01	<0.01	<0.01		
Iron (Fe) (DIS)	0.05	0.04	<0.02			
Lead (Pb) (DIS)	<0.005	<0.005	<0.005 R	<0.02	<0.005 UJ	<0.005
Manganese (Mn) (DIS)	0.006	0.006				
Zinc (Zn) (DIS)	0.2	0.2	0.2	0.3	0.4 J	0.4

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.8	3.8		2.8	1.8	3.4
pH	8.02	8.01	7.9	7	7.8	7.4
Depth To Water Level (ft)	10.8	10.8	12.9	11.2	11	11.8
pH (Fld)	6.7	6.7	7	5.9	6.6	7.7
SC (umhos/cm at 25 C) (Fld)	1484	1498	1374	1504	1601	1490
SC (umhos/cm at 25 C)	1540	1550	1400	1400	1520	1370
Total Suspended Solids	<1	<1				
TDS (Measured at 180 C)	1126 M	1114 J	1025 J	1203	1152	1174 J
Water Temperature (C) (Fld)	10.4	10.4	10.8	9.8	13.4	14.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-9	DH-9	DH-9	DH-9	DH-9	DH-9
Water	SAMPLE DATE	4/27/1992	11/19/1992	5/4/1993	11/10/1993	5/11/1994	11/11/1994
	SAMPLE TIME	16:10	10:15	17:30	10:20	08:30	14:00
	LAB	HYDRO	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	HYDRO
	LAB NUMBER	AEH-9204-110	92-6822	93-7778	93-9222	94-1350	9411-136
	SAMPLE NUMBER	AEH-9204-110	EHC-9211-166	EHC-9305-145	EHC-9311-131	EHC-9405-136	EHC-9411-136
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)	137	114		
Chloride (Cl)	63	52	51 J	52
Magnesium (Mg) (Dis)	20	16		
Potassium (K) (Dis)	44	39		
Sodium (Na) (Dis)	160	133		
Sulfate (SO4)	433	511	415 J	469 J
Total Hardness As CaCO3		351		

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	3.3	2.2	2.6	2.9
Arsenic III (dis)	<0.004 JU	0.006	<0.004 J	0.006
Arsenic V (dis)	3.8 J	2.2 J	2.5 J	2 J
Cadmium (Cd) (DIS)	0.003	0.005	0.004	0.004
Copper (Cu) (DIS)	0.008	0.008	0.008	0.006
Lead (Pb) (DIS)	<0.005	0.006	<0.005 J	<0.005 UJ
Zinc (Zn) (DIS)	0.3	0.4	0.3	0.3

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		3.8	4.1	4	4.6
pH		7.7			
Depth To Water Level (ft)	0.0	11.7	10.8	11.2	11.1
pH (Fld)		7.1	7.4	7.5	7.1
SC (umhos/cm at 25 C) (Fld)		1430	1321	1342	1440
SC (umhos/cm at 25 C)		1500	1300	1415 J	1420 J
TDS (Measured at 180 C)		1070	956	989	994
Water Temperature (C) (Fld)		10	9.2	10.2	10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-9	DH-9	DH-9	DH-9	DH-9	DH-9
Water	SAMPLE DATE	5/10/1995	11/9/1995	5/10/1996	11/8/1996	5/7/1997	11/6/1997
	SAMPLE TIME	15:15	15:45	12:50	12:30	10:15	15:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-4486	95-6128	96-6785	96-7766	97-970	192-2752
	SAMPLE NUMBER	EHC-9505-136	EHC-9511-138	EHC-9605-122	EHC-9611-122	EHC-9705-121	EHC-9711-122
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	90	44 J	40	57	48	123
	Sulfate (SO4)	405	259 J	254	278	242	652
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	2.7	1.6 J	1.1	1.2	1	1.09
	Arsenic III (dis)	0.005	<0.004	<0.005 UJ	<0.004	<0.005	<0.005
	Arsenic V (dis)	2.7	1.8 J	1.2 J	1.2 J	0.9 J	1 J
	Cadmium (Cd) (DIS)	0.005	0.001	<0.005	0.003	0.003	0.01
	Copper (Cu) (DIS)	0.01	0.007	0.01	0.01	0.008	0.02
	Lead (Pb) (DIS)	<0.005 J	0.01 J	0.008	0.009	0.006	0.008
	Zinc (Zn) (DIS)	0.4	0.05	0.06	0.07	0.08	0.5
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	8.4	6.03	8.1	6.2	7.8	4.2
	pH	7.6	7.8	8.3	8.2	8.2	7.7
	Depth To Water Level (ft)	12.7	11.3	11.5	13.5	12.4	8.4
	pH (Fld)	7.4	8.4	7.9	8.03	7.7	7.8
	SC (umhos/cm at 25 C) (Fld)	1422	877	886	989	423 R	1766
	SC (umhos/cm at 25 C)	1450 J	921 J	800	967	843	1823
	Total Suspended Solids						18 J
	TDS (Measured at 180 C)	1024 J	618	566	661	588	1382 J
	Water Temperature (C) (Fld)	11.9	8.9	7.2	8.1	8.5	11.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-9	DH-9	DH-9	DH-9	DH-9	DH-9
Water	SAMPLE DATE	5/7/1998	11/19/1998	5/10/1999	11/11/1999	11/13/2000	5/8/2001
	SAMPLE TIME	09:30	15:45	17:45	14:30	12:40	09:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	260-3760	312-4442	347-4891	L992008003	L001897024	L010655014
	SAMPLE NUMBER	EHC-9805-123	EHC-9811-122	EHC-9905-122	EHC-9911-138	EHC-0011-138	EHC-0105-164
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	154	145	124 J	107	168	179	
Calcium (Ca) (DIS)	150	111	93	100	227	274	
Carbonate As CO3			<1 UJ	<1	<1		
Chloride (Cl)	114	72	40	56	118	179	
Magnesium (Mg) (DIS)	19	15	13	15	34	42	
Potassium (K) (DIS)	51 J	35	21	33	74	81	
Sodium (Na) (DIS)	183	109	63	80	190	221	
Sulfate (SO4)	543	432	391	332	884	1236	
Total Alkalinity As CaCO3	126	119	102 J	88	138	147	
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (DIS)					<0.01	<0.05	
Arsenic (As) (DIS)	1.4	1.5	0.9	1.1	1	1	
Arsenic III (dis)	<0.005 J	<0.005	<0.005	0.005	<0.02	0.5	
Arsenic V (dis)	1.3	1.2 J	1.05	1.2	0.9	0.5	
Cadmium (Cd) (DIS)	0.02	0.01	0.01	0.01	0.03	0.04	
Copper (Cu) (DIS)	0.02 J	0.04	0.01	0.01	0.02 J	0.03	
Iron (Fe) (DIS)	<0.05	0.2	0.04 UJ	<0.02 J	0.4 U	<0.02	
Lead (Pb) (DIS)	<0.005	0.09	0.01	0.008	0.02 J	0.02	
Manganese (Mn) (DIS)	<0.02	<0.02 UJ	<0.02	<0.02	<0.02	<0.02	
Zinc (Zn) (DIS)	1.3	0.8	0.7	0.9 J	1.7	2.8	
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	7.7	6.8	8.8	5	6.6	4.6	
pH	7.3	7.4	7.8	7.5	8.1	7.9	
Silicon+Silica (Si+SiO2)					22	21	
Depth To Water Level (ft)	11.1	12.3	10.7	7.7	10.1	11.9	
Eh (millivolts)		423	321	414	265	486	
pH (Fld)	7	6.9	7.8	7.6	7.5	8.1	
SC (umhos/cm at 25 C) (Fld)	1567	1222	910	1010	2780	2480	
SC (umhos/cm at 25 C)	1653	1265	971	1101	2310	2730	
Total Suspended Solids				16		34	
TDS (Measured at 180 C)	1242	873	709	829	1828	2159	
Water Temperature (C) (Fld)	9.5	9.7	7.1	10.9	9.7	9.3	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-9	DH-9	DH-9	DH-9	DH-9	DH-9
Water	SAMPLE DATE	5/31/2002	6/1/2003	10/27/2003	5/27/2004	11/1/2004	5/16/2005
	SAMPLE TIME	18:10	13:00	00:00	12:15	14:10	14:50
	LAB	ASARCO	TSC-SLC	TSC-SLC	ELI	ELI	Hydro
	LAB NUMBER	EHC0205178	L030244014	AEH-0310-379	H04050208-010	H04110018-009	AEH-0505-216
	SAMPLE NUMBER	EHC-0205-178	AEH-0306-154	AEH-0310-379	AEH-0405-208	AEH-0411-179	AEH-0505-217
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION			io Samp-Low SWL			io Samp-Low SWL
	REMARKS			No Sample			No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	162	160	180
Calcium (Ca) (DIS)	221	207	193
Carbonate As CO3	<2		
Chloride (Cl)	91	64	70
Magnesium (Mg) (DIS)	36	29	28
Potassium (K) (DIS)	94	62	86
Sodium (Na) (DIS)	205	146	206
Sulfate (SO4)	1017	760	792
Total Alkalinity As CACO3	133	130	150

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.7	0.578	0.847
Arsenic III (dis)	0.6	0.098 J	<0.006
Arsenic V (dis)	0.1 J	0.82	0.91
Cadmium (Cd) (DIS)	0.03	0.026	0.024
Copper (Cu) (DIS)	0.03	0.021	0.016
Iron (Fe) (DIS)	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	0.02	0.015	0.014
Manganese (Mn) (DIS)	<0.02	<0.01	<0.02
Zinc (Zn) (DIS)	1.3	2.02	1.14

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.4	4.64	4.3		
pH	7.1	7.5	7.1		
Depth To Water Level (ft)	0.0	10.79	10.06	8.57	11.56
pH (Fld)	7.1	7.23	7.38		
SC (umhos/cm at 25 C) (Fld)	2250	1860	2285		
SC (umhos/cm at 25 C)	2320	1740	1940		
Total Suspended Solids	565	19	19 J		
TDS (Measured at 180 C)	1803	1450	1700		
Salinity (G/KG) (Fld)	0.1				
Turbidity (NTU) (Fld)	327				
Water Temperature (C) (Fld)	8.7	10.5	10.6		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-9	DH-9	DH-9	DH-9	DH-9	DH-9
Water	SAMPLE DATE	11/16/2005	5/8/2006	11/20/2006	5/21/2007	12/13/2007	2/1/2008
	SAMPLE TIME	12:00	15:15	00:00	00:00	00:00	00:00
	LAB	ASARCO	Hydro	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	AEH-0511-183	AEH-0605-185	AEH-0611-243	z	AEH-0711-263	AEH-0801-150
	SAMPLE NUMBER	AEH-0511-183	AEH-0605-185	AEH-0611-243	AEH-0705-191	AEH-0711-263	AEH-0801-150
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	lo Samp-Low SWL	lo Samp-Low SWL	lo Samp-Low SWL	No Samp-Dry	No Samp-Dry	No Samp-Dry
	REMARKS	No Sample	No Sample	No Sample	No Sample	No Sample	No Sample
<b>Other: ppm unless noted</b>							
	No Analysis				0.0	0.0	0.0
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Depth To Water Level (ft)	11.67	11.36	11.28			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-9	DH-9	DH-9	EH-100	EH-100
Water	SAMPLE DATE	5/13/2008	7/23/2008	2/10/2009	11/11/1986	11/11/1986
	SAMPLE TIME	00:00	09:05	00:00	00:00	00:00
	LAB		ELI	Hydrometrics	RMAL	TSC-SLC
	LAB NUMBER	AEH-0805-232	H08070463-001	AEH-0902-187	8611-12	86-7491
	SAMPLE NUMBER	AEH-0805-232	AEH-0807-179	AEH-0902-187	AEH-8611-12	AEH-8611-12
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	Dry		No Samp-Dry		
	REMARKS	No Sample		No Sample	Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	200	144	195
Calcium (Ca) (DIS)	147	237	231
Carbonate As CO3		<5	<1
Chloride (Cl)	28	113	114
Magnesium (Mg) (DIS)	22	66.4	62
Potassium (K) (DIS)	76	10.6	13
Sodium (Na) (DIS)	140	189	188
Sulfate (SO4)	670	905	878
Total Alkalinity As CACO3	160		

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.809	<0.01	<0.006
Cadmium (Cd) (DIS)	0.021	<0.005	0.001
Copper (Cu) (DIS)	0.024	<0.004	0.01
Iron (Fe) (DIS)	<0.02	1.5	1.5
Lead (Pb) (DIS)	0.015	<0.05	<0.005
Manganese (Mn) (DIS)	<0.01	1.4	1.4
Selenium (Se) (DIS)	0.038		
Zinc (Zn) (DIS)	1.7	0.2	0.05

**Other: ppm unless noted**

No Analysis	0.0	0.0	
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.31		1.2
pH	7.3	6.4	6.4
Depth To Water Level (ft)	11.41		24.8
pH (Fld)	6.73		6.5
SC (umhos/cm at 25 C) (Fld)	1720		2086
SC (umhos/cm at 25 C)	1550	1748	1748 M
Total Suspended Solids	<10		
TDS (Measured at 180 C)	1220	1700	2310 M
Water Temperature (C) (Fld)	11.8		9.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-100	EH-100	EH-100	EH-100	EH-100	EH-100
Water	SAMPLE DATE	11/11/1986	11/11/1986	2/2/1987	2/2/1987	4/7/1987	4/7/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	RMAL	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8611-13	86-7492	87-774	87-775	87-2354	87-2355
	SAMPLE NUMBER	AEH-8611-13	AEH-8611-13	AEH-8701-109	AEH-8701-132	AEH-8704-5	AEH-8704-6
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate	Field Duplicate		Field Duplicate		Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)			183			
Calcium (Ca) (DIS)	228		356			
Carbonate As CO3			<1			
Chloride (Cl)			105			
Magnesium (Mg) (DIS)	62.8		72			
Potassium (K) (DIS)	10		11			
Sodium (Na) (DIS)	179		196			
Sulfate (SO4)			930		1175	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.01	0.006	0.006	0.009 M	<0.006	<0.006
Arsenic III (dis)			0.01 M	0.01		
Arsenic V (dis)			0.01 M	<0.008		
Cadmium (Cd) (DIS)	<0.005	<0.001	0.001	0.001		
Copper (Cu) (DIS)	<0.004	0.01	0.009	0.009		
Iron (Fe +2) (TOT)			1	1		
Iron (Fe) (DIS)	1.5	1.6	0.7	0.8		
Lead (Pb) (DIS)	<0.05	<0.005	<0.005	<0.005 M		
Manganese (Mn) (DIS)	1.4	1.4	0.9	0.9		
Zinc (Zn) (DIS)	0.04	0.07	0.02	0.02		

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		1.2	1	1	1.6	1.6
pH			7.3		7.4	
Depth To Water Level (ft)		24.8	27.5	27.5	39.4	39.4
pH (Fld)		6.5	6.4	6.4	6.05	6.05
SC (umhos/cm at 25 C) (Fld)		2088	2150			
SC (umhos/cm at 25 C)			2200		2550	
TDS (Measured at 180 C)			1900		2122	
Water Temperature (C) (Fld)		9.2	11	11	10.2	10.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-100	EH-100	EH-100	EH-100	EH-100	EH-100
Water	SAMPLE DATE	4/22/1987	4/22/1987	8/10/1987	11/17/1987	11/17/1987	4/15/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	WYRHR	TSC-SLC
	LAB NUMBER	87-2828	87-2829	87-6637	87-10547	8711-206	88-2723
	SAMPLE NUMBER	AEH-8704-21	AEH-8704-22	AEH-8708-22	AEH-8711-206	AEH-8711-206	AEH-8804-353
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate			Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	171		151	165	110	107
Calcium (Ca) (DIS)	297		223		237	301
Carbonate As CO3	<1		<1		<5	<1
Chloride (Cl)	130		110		100	155 J
Magnesium (Mg) (DIS)	76		72		64.6	90.5 J
Potassium (K) (DIS)	13		12.4		10.5	16 J
Sodium (Na) (DIS)	215		223		204	294 J
Sulfate (SO4)	1125		1050 M	1030 M	1000	1362 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.006	<0.006	0.01	0.02 M		0.05 J
Arsenic III (dis)	0.01	0.01	0.01 M	<0.008		<0.008
Arsenic V (dis)	0.008	0.008	0.02 M	0.008		0.06
Cadmium (Cd) (DIS)	0.002	0.002	0.001	0.001	0.0001	0.001
Copper (Cu) (DIS)	0.01	0.01	<0.008	0.01	0.004	
Iron (Fe +2) (TOT)	0.5	0.5	0.2	0.2		0.4
Iron (Fe) (DIS)	0.4	0.4	0.2	0.2	0.3	0.2
Lead (Pb) (DIS)	0.02 M	<0.005 M	<0.005	<0.01	0.003	0.02 J
Manganese (Mn) (DIS)	3.9	4	4.3	3.9	3.3	
Zinc (Zn) (DIS)	0.06	0.06	0.08 M	0.08	0.6	0.4 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.3	2.3	1.6	1.6		1.7
pH	9.3 M		6.7	7.9		6.08
Depth To Water Level (ft)	28.3	28.3	23.9	26.02		26.2
pH (Fld)	6	6	6	5.4		5.9
SC (umhos/cm at 25 C) (Fld)	2499	2492	2364	2390		2946
SC (umhos/cm at 25 C)	2510		2390	2280		2900
Total Suspended Solids				17.5 M		
TDS (Measured at 180 C)	1948 M		1853	1996 M	1950	2452 J
Water Temperature (C) (Fld)	11.5	11.5	12	10.6		12.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-100	EH-100	EH-100	EH-100	EH-100	EH-100
Water	SAMPLE DATE	11/6/2001	12/6/2001	12/6/2001	2/13/2002	2/26/2002	2/26/2002
	SAMPLE TIME	12:40	14:00	14:15	14:10	11:25	11:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011539006	L011627004	L011627005	L020096011	L020126001	L020126002
	SAMPLE NUMBER	EHC-0111-163	EHC-0111-223	EHC-0111-224	EHC-0202-100	EHC-0202-200B	EHC-0202-200T
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	146	127	140	118	135	127
Calcium (Ca) (DIS)	118	117	117	78	83	83
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Chloride (Cl)	104 J	101	104	70	70	72
Magnesium (Mg) (DIS)	41	40	40	27	28	28
Potassium (K) (DIS)	9	8.5	8.5	7.6	7.8	8
Sodium (Na) (DIS)	155	149	152	121	129	130
Sulfate (SO4)	459	509	539	382	424	406
Total Alkalinity As CaCO3	120	104	115	97	111	104

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05	<0.05			
Arsenic (As) (DIS)	4.9	4.9	4.9	6.5	6.3	6.2
Arsenic (As) (TOT)					6.6	6.2
Arsenic III (dis)	2	1.8	1.8	2.3	1.1	1.2
Arsenic V (dis)	3.2	3	3	4	5.1	5.1
Cadmium (Cd) (DIS)	0.002	0.003	0.003	0.002	0.002	0.002
Cadmium (Cd) (TOT)					0.003	0.002
Copper (Cu) (DIS)	0.006	0.01	0.008	0.008	0.006	0.006
Copper (Cu) (TOT)					0.006	0.007
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Iron (Fe) (TOT)					0.02	0.2
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)					<0.005	<0.005
Manganese (Mn) (DIS)	8.5	8.3	8.3	6.4	6.6	6.6
Manganese (Mn) (TOT)					7	7.1
Zinc (Zn) (DIS)	0.4	0.4	0.4	0.3	0.3	0.3
Zinc (Zn) (TOT)					0.3	0.3

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	134.7	135.4	136.7			
Oxygen (O) (DIS) (Fld)	1.5	0.8	0.8	0.3	0.3	0.1
pH	7	7.3	8	7.1	7.1	7
Silicon+Silica (Si+SiO2)	52	53	53			
Depth To Water Level (ft)	24.2	24.2		28.1	28.5	
Eh (millivolts)	355	382	383			
pH (Fld)	7.2	6.8	6.9	6.5	6.4	6.4
SC (umhos/cm at 25 C) (Fld)	1357	1209	1300	1124	1144	1156
SC (umhos/cm at 25 C)	1505	1526	1520	1180	1182	1182

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-100	EH-100	EH-100	EH-100	EH-100	EH-100
Water	SAMPLE DATE	11/6/2001	12/6/2001	12/6/2001	2/13/2002	2/26/2002	2/26/2002
	SAMPLE TIME	12:40	14:00	14:15	14:10	11:25	11:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011539006	L011627004	L011627005	L020096011	L020126001	L020126002
	SAMPLE NUMBER	EHC-0111-163	EHC-0111-223	EHC-0111-224	EHC-0202-100	EHC-0202-200B	EHC-0202-200T
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		
<b>Physical/Fld-Lab: ppm unless noted</b>							
Total Suspended Solids		<1	<1	<1			
TDS (Measured at 180 C)		1125	1132	1124	856	876	843
Water Temperature (C) (Fld)		11.9	10.8	10.7	11.6	11.5	11.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-100	EH-100	EH-100	EH-100	EH-100	EH-100
Water	SAMPLE DATE	6/1/2002	11/12/2002	11/12/2002	11/12/2002	11/12/2002	11/12/2002
	SAMPLE TIME	16:45	11:20	11:45	11:50	12:00	12:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020396016	L020941011	L020941012	L020941015	L020941013	L020941014
	SAMPLE NUMBER	EHC-0205-181	EHMP-0211-500	EHMP-0211-501	EHMP-0211-504	EHMP-0211-502	EHMP-0211-503
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	131	129	128	129	129	131
Calcium (Ca) (DIS)	134	102	101	101	101	101
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Chloride (Cl)	137	94	99	100	109	96
Magnesium (Mg) (DIS)	45	34	33	33	33	33
Potassium (K) (DIS)	10	9.9	8.9	11	9.6	9.3
Sodium (Na) (DIS)	171	129	131	137	135	132
Sulfate (SO4)	617	489	444	496	496	454
Total Alkalinity As CaCO3	107	106	105	106	106	107

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05					
Arsenic (As) (DIS)	7.7	6.9	7	6.8	6.8	6.6
Arsenic III (dis)	6.3	3	4.3	4.2	4.3	4
Arsenic V (dis)	1.4	4	2.6	2.5	2.6	2.7
Cadmium (Cd) (DIS)	0.004	0.003	0.002	0.003	0.003	0.002
Copper (Cu) (DIS)	0.01	0.005	0.005	0.004	0.004	0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	13	9.6	9.5	9.5	9.4	9.3
Zinc (Zn) (DIS)	0.7	0.5	0.5	0.5	0.5	0.5

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	45.3					
Oxygen (O) (DIS) (Fld)	0.1	0.2	0.1		2.1	0.1
pH	7	6.6	6.7	6.7	6.8	6.7
Silicon+Silica (Si+SiO2)	52					
Depth To Water Level (ft)	24.04	25.6				
pH (Fld)	5.9	5.9	6.05		6.08	6.1
SC (umhos/cm at 25 C) (Fld)	1710	1320	1320		1326	1311
SC (umhos/cm at 25 C)	1690	1372	1370	1377	1370	1370
Total Suspended Solids	1.1					
TDS (Measured at 180 C)	1269	998	990	982	995	989
Water Temperature (C) (Fld)	11.4	12.4	12.2		12.4	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-100	EH-100	EH-100	EH-100	EH-100	EH-100
Water	SAMPLE DATE	11/12/2002	6/3/2003	10/24/2003	10/24/2003	5/26/2004	5/26/2004
	SAMPLE TIME	12:30	12:55	09:35	09:45	10:25	10:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	L020940003	L030247006	L030598001	L030598002	H04050191-006	H04050191-007
	SAMPLE NUMBER	EHC-0211-177	AEH-0306-189	AEH-0310-320	AEH-0310-321	AEH-0405-184	AEH-0405-185
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	129	139	124	124	160	160	
Calcium (Ca) (DIS)	102	157	133	143	136	140	
Carbonate As CO3	<1	<2	<2	<2			
Chloride (Cl)	98	149	127	128	120	120	
Magnesium (Mg) (DIS)	34	54	46	49	45	47	
Potassium (K) (DIS)	8.6	13	9.7	10	10	11	
Sodium (Na) (DIS)	128	216	158	166	188	195	
Sulfate (SO4)	555	799	496	477	750	730	
Total Alkalinity As CaCO3	106	114	102	102	130	130	
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (DIS)	<0.05						
Arsenic (As) (DIS)	6.4	10	5.8	6.1	10.39	9.76	
Arsenic III (dis)	4.3	9.7	0.1 J	0.3 J	<0.045	<0.045	
Arsenic V (dis)	2	1.4	5.7	5.7	11 J	1 J	
Cadmium (Cd) (DIS)	0.002	0.006	0.004	0.004	0.004	0.005	
Copper (Cu) (DIS)	0.006	0.01	0.01	0.01	0.009	0.009	
Iron (Fe) (DIS)	<0.02	<0.02	<0.03	<0.03	0.03	0.03	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	9	20	13	13	17.3	17.64	
Zinc (Zn) (DIS)	0.4	1.2	0.6	0.7	1.09	1.12	
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	0.1	0.4	0.08		0.34		
pH	6.9	6.7	7.7	7.8	6.6	6.7	
Silicon+Silica (Si+SiO2)	50						
Depth To Water Level (ft)	25.6	27.3	24.9		28.07		
pH (Fld)	6.2	6	6.1		6.15		
SC (umhos/cm at 25 C) (Fld)	1303	2190	1630		1920		
SC (umhos/cm at 25 C)	1369	2080	1651	1654	1820	1860	
Total Suspended Solids	<1	1.5	<1	<1	<10	<10	
TDS (Measured at 180 C)	990	1617	1206	1183	1480	1460	
Salinity (G/KG) (Fld)		1					
Turbidity (NTU) (Fld)		1	1				
Water Temperature (C) (Fld)	11.9	12.3	11.5		12		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-100	EH-100	EH-100	EH-100	EH-100	EH-100
Water	SAMPLE DATE	10/27/2004	5/11/2005	11/8/2005	5/3/2006	5/3/2006	6/21/2006
	SAMPLE TIME	14:40	14:35	14:20	13:40	13:50	12:36
	LAB	ELI	ELI-Casper	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel
	LAB NUMBER	H04100192-014	C05050444-011	H05110071-012	H06050038-009	H06050038-010	H06060217-006
	SAMPLE NUMBER	AEH-0411-139	AEH-0505-123	AEH-0511-121	AEH-0605-133	AEH-0605-134	AEH-0606-128
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	140	180	140	180	170	180
Calcium (Ca) (DIS)	130	135	135	120	123	113 J
Chloride (Cl)	100	86	115	82	77	72
Magnesium (Mg) (DIS)	45	46	47	41	42	38 J
Potassium (K) (DIS)	10	11	11	10	10	9 J
Sodium (Na) (DIS)	139	182	150	150	145	143
Sulfate (SO4)	582	653	598	534	549	535
Total Alkalinity As CaCO3	110	147	110	140	140	150

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	4.44	9.38	5.544	7.21	7.2	7.46 J
Arsenic III (dis)	<0.03	<0.005	<0.005	0.05 J	<0.005 J	<0.005
Arsenic V (dis)	4.6	9.1	4.9	7.8 J	0.4 J	7.9
Cadmium (Cd) (DIS)	0.004	0.002	0.004	0.004	0.004	0.004
Copper (Cu) (DIS)	0.008	0.009	0.007	0.009	0.009	0.009 UJ
Iron (Fe) (DIS)	0.02	<0.02	<0.02	<0.02	<0.02	0.03 UJ ,J
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	12.17	14.9	11.61	11.18	11.3	11.57 J
Zinc (Zn) (DIS)	0.5	0.75	0.46	0.59	0.59	0.63 J

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.54	0.08	0.25	1		1.04
pH	6.6	6.38	6.5	6.5	6.6	6.4
Depth To Water Level (ft)	23.87	29.04	24.36	27.47		23.55
pH (Fld)	6.37	6.13	6	6		5.94
SC (umhos/cm at 25 C) (Fld)	1644	1731	1641	1439		1481
SC (umhos/cm at 25 C)	1520	1710	1580	1430	1430	1390
Total Suspended Solids	<10	<10 J	<10	<10	<10	<10
TDS (Measured at 180 C)	1210	1230	1210	1130	1150	1120
TDS - Calculated		1250				
Water Temperature (C) (Fld)	12.4	11.8	12.02	12.36		12.07

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-100	EH-100	EH-100	EH-100	EH-100	EH-100
Water	SAMPLE DATE	6/21/2006	9/22/2006	11/10/2006	3/28/2007	3/28/2007	5/9/2007
	SAMPLE TIME	12:45	16:00	15:55	09:25	09:35	09:35
	LAB	ELI-Hel	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06060217-007	H06090199-010	H06110090-004	H07030232-001	H07030232-002	H07050114-001
	SAMPLE NUMBER	AEH-0606-129	AEH-0609-119	AEH-0611-158	AEH-0703-112	AEH-0703-113	AEH-0705-110
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION			EPA Split			
	REMARKS	Field Duplicate				Field Duplicate	

### Common Ions (mg/L): ppm unless noted

Bicarbonate (HCO3)	180	130	140	180	180	190
Calcium (Ca) (DIS)	113 J	102	117	128	130	122
Chloride (Cl)	72	75	87	57	60	55
Magnesium (Mg) (DIS)	38 J	34	39	45	45	41
Potassium (K) (DIS)	10 J	8	8	10	10	9
Sodium (Na) (DIS)	146	98	108	144	144	148
Sulfate (SO4)	534	428	409	601	584	570
Total Alkalinity As CaCO3	150	110	110	150	150	160

### Metals (mg/L): ppm unless noted

Arsenic (As) (DIS)	7.39 J	3.884	3.932	5.885	5.965	6.41
Arsenic III (DIS)	<0.005	<0.005	<0.03 J	<0.06	<0.06	<0.0565
Arsenic V (DIS)	7.8	1.7 J	4.8	5.7	5.5	7.23
Cadmium (Cd) (DIS)	0.004	0.002	0.003	0.004	0.004	0.004
Copper (Cu) (DIS)	0.009 UJ	0.005	0.006	0.008	0.007	0.008
Iron (Fe) (DIS)	0.03 UJ J	0.02	0.03	<0.02	<0.02	0.04
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	11.59 J	6.2	8.15	11.54	11.54	11.08
Selenium (Se) (DIS)				0.052	0.055	0.034
Zinc (Zn) (DIS)	0.63 J	0.24	0.34	0.59	0.59	0.6

### Physical/Fld-Lab: ppm unless noted

Oxidation Reduction Potential		130.8	101	240.5		
Oxygen (O) (DIS) (Fld)		0.55	0.18	0.46		0.18
pH	6.4	6.6	6.8	6.5	6.5	6.4
Depth To Water Level (ft)		21.84	23.41	27.57		28.29
pH (Fld)		6.14	6.12	5.89		6.15
SC (umhos/cm at 25 C) (Fld)		1118	1380	1558		1563
SC (umhos/cm at 25 C)	1380	1150	1300	1470	1470	1470
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	1140	876	1000	1160	1160	1160
Water Temperature (C) (Fld)		11.58	11.51	11.24		12.11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-100	EH-100	EH-100	EH-100	EH-100	EH-100
Water	SAMPLE DATE	7/25/2007	9/12/2007	12/10/2007	1/31/2008	5/12/2008	5/12/2008
	SAMPLE TIME	12:30	15:10	14:35	16:30	11:40	11:40
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07070259-007	H07090115-011	H07120088-007	H08010244-014	H08050190-007	H08050190-007RA
	SAMPLE NUMBER	AEH-0707-118	AEH-0709-151	AEH-0711-221	AEH-0801-138	AEH-0805-210	AEH-0805-210
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION					As Spec-Unpresrvd	As Spec-Presrvd
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	150	140		170	190
Bicarbonate (HCO3) (dis)			150		
Calcium (Ca) (DIS)	147	159	164	125	116
Chloride (Cl)	102	117	115	57	41
Magnesium (Mg) (DIS)	48	54	56	43	39
Potassium (K) (DIS)	7	10	10	9	10
Sodium (Na) (DIS)	134	127	140	130	144
Sulfate (SO4)	566	568	583	544	520
Total Alkalinity As CaCO3	130	120	120	140	160

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)			<0.005		0.0098 J+
Selenium-VI (dis)			0.457		<0.005 J
Aluminum (Al) (DIS)					<0.1
Antimony (Sb) (DIS)					<0.005
Arsenic (As) (DIS)	4.436	3.64	4.258	5.4	7.26
Arsenic III (dis)			0.124		<0.005 J
Arsenic V (dis)			4.13		7.17 J
Barium (Ba) (DIS)					<0.1
Beryllium (Be) (DIS)					<0.001
Cadmium (Cd) (DIS)	0.002	0.004	0.004	0.003	0.003
Chromium (Cr) (DIS)					<0.001
Cobalt (Co) (DIS)					<0.01
Copper (Cu) (DIS)	0.007 UJ	0.007	0.008	0.007	0.008
Iron (Fe) (DIS)	<0.02	0.05 UJ	0.03	0.03	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	11.64	9.89	11.08	9.45	9.36
Mercury (Hg) (DIS)					<0.006
Nickel (Ni) (DIS)					0.02
Selenium (Se) (DIS)	0.266	0.946	0.505	0.121	0.021
Silver (Ag) (DIS)					<0.005
Thallium (Tl) (DIS)					<0.002
Vanadium (V) (DIS)					0.02
Zinc (Zn) (DIS)	0.49	0.47	0.52	0.48	0.52

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.07	0.16	0.17	0.54	0.56
pH	6.5	6.5	7	6.6	6.3
Depth To Water Level (ft)	21.77	22.74	24.96	28.31	29.66
pH (Fld)	6.06	6.05	6.14	6.11	6.01
SC (umhos/cm at 25 C) (Fld)	1715	1744	1773	1533	1346

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-100	EH-100	EH-100	EH-100	EH-100
Water	SAMPLE DATE	7/25/2007	9/12/2007	12/10/2007	1/31/2008	5/12/2008
	SAMPLE TIME	12:30	15:10	14:35	16:30	11:40
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07070259-007	H07090115-011	H07120088-007	H08010244-014	H08050190-007
	SAMPLE NUMBER	AEH-0707-118	AEH-0709-151	AEH-0711-221	AEH-0801-138	AEH-0805-210
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					As Spec-Unpresrvd
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C)	1600	1610	1620	1470	1330
Total Suspended Solids	<10	<10	<10	<10	<10 J
TDS (Measured at 180 C)	1280	1300	1360	1160	1070
Water Temperature (C) (Fid)	12.06	12.1	11.1	11.3	11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-100	EH-100	EH-100	EH-100	EH-100
Water	SAMPLE DATE	7/23/2008	11/12/2008	11/12/2008	2/9/2009	5/15/2009
	SAMPLE TIME	12:00	12:45	12:55	15:00	15:45
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08070463-007	H08110140-007	H08110140-008	H09020078-014	H09050242-009
	SAMPLE NUMBER	AEH-0807-185	AEH-0811-229	AEH-0811-230	AEH-0902-175	AEH-0905-236
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS				Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	210	150	150	180	200
Calcium (Ca) (DIS)	88	114	111	86	79
Chloride (Cl)	38	75	75	41	33
Magnesium (Mg) (DIS)	30	40	37	30	28
Potassium (K) (DIS)	9	9	9	9	9
Sodium (Na) (DIS)	155	126	131	122	142
Sulfate (SO4)	490	490	490	450	440
Total Alkalinity As CaCO3	170	120	120	140	160

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005	<0.005		
Selenium-VI (DIS)		0.311	0.313		
Aluminum (Al) (DIS)		<0.1	<0.1		<0.1
Antimony (Sb) (DIS)		<0.005	<0.005		<0.003
Arsenic (As) (DIS)	11.2	5.74	5.69	8.18	10.1
Arsenic III (DIS)		<0.0302	<0.0302		
Arsenic V (DIS)		5.86	5.91		
Barium (Ba) (DIS)		<0.1	<0.1		<0.1
Beryllium (Be) (DIS)		<0.001	<0.001		<0.001
Cadmium (Cd) (DIS)	<0.001	0.003	0.003	0.003	0.003
Chromium (Cr) (DIS)		<0.001	<0.001		<0.001
Cobalt (Co) (DIS)		<0.01	<0.01		0.001 UJ
Copper (Cu) (DIS)	0.012	0.006 UJ	0.01 UJ	0.006	0.008
Gold (Au) (DIS)					0.03
Iron (Fe) (DIS)	0.03	<0.02	0.03	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	8.09	7.66	7.58	6.9	6.38
Mercury (Hg) (DIS)		<0.006	<0.006		<0.0001
Nickel (Ni) (DIS)		0.02	0.03		0.02
Selenium (Se) (DIS)	0.015	0.35	0.348	0.045	0.023
Silver (Ag) (DIS)		<0.005	<0.005		<0.005 J
Tellurium (Te) (DIS)					<0.1
Thallium (Tl) (DIS)		<0.002	<0.002		<0.001
Vanadium (V) (DIS)		0.01	0.01		0.02
Zinc (Zn) (DIS)	0.47	0.41	0.4	0.38	0.44

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.11	0.2		0.28	0.24
pH	6.6	6.4	6.5	6.4	6.6
Depth To Water Level (ft)	26.68	25.08		28.26	29.6
pH (Fld)	6.06	5.93		6.02	6.23

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-100	EH-100	EH-100	EH-100	EH-100
Water	SAMPLE DATE	7/23/2008	11/12/2008	11/12/2008	2/9/2009	5/15/2009
	SAMPLE TIME	12:00	12:45	12:55	15:00	15:45
	LAB	Hydrometrics	Hydrometrics	ELI	Hydrometrics	Hydrometrics
	LAB NUMBER	H08070463-007	H08110140-007	H08110140-008	H09020078-014	H09050242-009
	SAMPLE NUMBER	AEH-0807-185	AEH-0811-229	AEH-0811-230	AEH-0902-175	AEH-0905-236
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Field Duplicate		

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)	1423	1409		1254	1252
SC (umhos/cm at 25 C)	1290	1400	1400	1240	1260
Total Suspended Solids	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	1010	1020	1020	888	912
Water Temperature (C) (Fld)	12.1	11.76		11.4	12.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-101	EH-101	EH-101	EH-101	EH-101	EH-101
Water	SAMPLE DATE	10/23/1986	10/30/1986	10/30/1986	10/30/1986	10/30/1986	2/3/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	RMAL	TSC-SLC	RMAL	TSC-SLC	TSC-SLC
	LAB NUMBER	HYD-9028	8610-148	86-7257	8610-149	86-7258	87-785
	SAMPLE NUMBER	AEH-8610-7040	AEH-8610-148	AEH-8610-148	AEH-8610-149	AEH-8610-149	AEH-8701-107
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Split		Field Duplicate	Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		191	254			206
Calcium (Ca) (DIS)		169	153	168		177 M
Carbonate As CO3		<5	<1			<1
Chloride (Cl)		38	42			30
Magnesium (Mg) (DIS)		35.2	32	35.1		27
Potassium (K) (DIS)		132	16	13.3		13
Sodium (Na) (DIS)		122	121	122		118
Sulfate (SO4)		550	516 M			440

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.02	<0.01	0.005	<0.01	0.004	<0.006
Arsenic III (dis)			0.02 M		0.03	0.01
Arsenic V (dis)			0.03 M		0.03	0.01
Cadmium (Cd) (DIS)		<0.005	<0.001	<0.005	<0.001	0.001
Copper (Cu) (DIS)		<0.004	0.01 M	<0.004	0.01	<0.008
Iron (Fe +2) (TOT)			0.08		0.07	<0.01
Iron (Fe) (DIS)		<0.03	0.06 M	<0.03	0.03	<0.02
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		0.2	0.2	0.2	0.2	0.07
Zinc (Zn) (DIS)		0.01	0.02 M	0.01	0.02	<0.008

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)			2.6		2.6	1.1
pH		6.9	6.9			8.2
Depth To Water Level (ft)						24.4
pH (Fid)			6.6		6.6	6.8
SC (umhos/cm at 25 C) (Fid)			1393			1197
SC (umhos/cm at 25 C)		1330	1330 M			1250
TDS (Measured at 180 C)		1140	1088 M			979
Water Temperature (C) (Fid)			10.5		10.5	10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-101	EH-101	EH-101	EH-101	EH-101	EH-101
Water	SAMPLE DATE	4/15/1987	4/15/1987	4/15/1987	4/23/1987	4/23/1987	8/10/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	CHMTC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-2425	87-2426	87-2428	8704-30	87-2837	87-6635
	SAMPLE NUMBER	AEH-8704-11	AEH-8704-12	AEH-8704-14	AEH-8704-30	AEH-8704-30	AEH-8708-23
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Split		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)					177	176
Calcium (Ca) (DIS)				106	112	111.5
Carbonate As CO3					<1	<1
Chloride (Cl)				22	22	25
Magnesium (Mg) (DIS)				21.6	21.5	22.5
Potassium (K) (DIS)				9.9	11.5	12.2
Sodium (Na) (DIS)				108	101	106
Sulfate (SO4)	410			476	420	430

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.006	<0.006	<0.006	<0.009	0.006	0.006
Arsenic III (dis)					<0.008	0.03
Arsenic V (dis)					0.02	0.08
Cadmium (Cd) (DIS)				0.004	<0.001	0.001
Copper (Cu) (DIS)				<0.02	<0.008	<0.008
Iron (Fe +2) (TOT)					<0.01	<0.01
Iron (Fe) (DIS)				<0.1	<0.02	0.04
Lead (Pb) (DIS)				0.006	<0.005 M	<0.005
Manganese (Mn) (DIS)				<0.01	0.02	0.01
Zinc (Zn) (DIS)				<0.02	<0.008	0.008

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.6	1.6			2.5	3.4
pH	7.2				7.4	7.6
Depth To Water Level (ft)	39.6	39.6	41.2		16.3	12
pH (Fld)	5.8	5.8			6.8	6.8
SC (umhos/cm at 25 C) (Fld)					1112	1139
SC (umhos/cm at 25 C)	1100				1140	1100
TDS (Measured at 180 C)	876			454	867	792
Water Temperature (C) (Fld)	13	13			10.9	12.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-101	EH-101	EH-101	EH-101	EH-101	EH-101
Water	SAMPLE DATE	11/16/1987	4/20/1988	11/13/2001	11/13/2001	6/5/2002	11/17/2002
	SAMPLE TIME	00:00	00:00	13:30	13:45	16:00	14:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-10548	88-2780	L011564013	L011565011	L020419002	L020957001
	SAMPLE NUMBER	AEH-8711-207	AEH-8804-354	EHC-01111-164	EHC-01111-208	EHC-0205-182	EHC-0211-178
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	192	130	166	171	149	161
Calcium (Ca) (DIS)		67	90	89	33	71
Carbonate As CO3		<1	2.4 J	<1 J	<1	<1
Chloride (Cl)		9.2 J	50	49	13	40
Magnesium (Mg) (DIS)		11.5	18	18	6.7	14
Potassium (K) (DIS)		10.9	23	21	13	20
Sodium (Na) (DIS)		82	141	141	79	121
Sulfate (SO4)	430 M	243	423	439	177	343
Total Alkalinity As CaCO3			140	140	122	132

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.05	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	0.006	<0.006 J	0.006	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.008	<0.008	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	0.009	0.06	<0.005	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	0.001	0.001	0.002	0.002	<0.001	<0.001
Copper (Cu) (DIS)	<0.008		<0.004	<0.004	<0.004	<0.004
Iron (Fe +2) (TOT)		<0.001				
Iron (Fe) (DIS)	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.005		<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.008	<0.008	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			48.7	48.5	0.2	
Oxygen (O) (DIS) (Fld)	2	3.5	2	2	2.5	4.8
pH	7.8	7.1	8.4	8	6.8	7.6
Silicon+Silica (Si+SiO2)			23	22	21	20
Depth To Water Level (ft)	14.4	16.3	14.8		16.09	14.5
Eh (millivolts)			284	283		
pH (Fld)	4.9	6.9	7.3	7.3	7	6.2
SC (umhos/cm at 25 C) (Fld)	1187	779.1	1196	1200	626	846
SC (umhos/cm at 25 C)	1150	800	1258	1265	636	1039
Total Suspended Solids	30		<1	<1	<1	20 J
TDS (Measured at 180 C)	865 M	581 J	906	911	428	720
Salinity (G/KG) (Fld)						0.3
Turbidity (NTU) (Fld)						7
Water Temperature (C) (Fld)	10.2	9.9	11.1	11.1	11	10.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-101	EH-101	EH-101	EH-101	EH-101	EH-101
Water	SAMPLE DATE	6/4/2003	10/29/2003	5/26/2004	10/26/2004	5/11/2005	11/9/2005
	SAMPLE TIME	08:30	11:30	12:10	13:50	15:40	11:10
	LAB	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel
	LAB NUMBER	L030256001	L030604019	H04050191-010	H04100182-009	C05050444-013	H05110081-006
	SAMPLE NUMBER	AEH-0306-199	AEH-0310-421	AEH-0405-188	AEH-0411-118	AEH-0505-125	AEH-0511-130
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	142	149	150	170	153	170	
Calcium (Ca) (DIS)	35	69	63	185	140	170	
Carbonate As CO3	<2	<2					
Chloride (Cl)	18	34	28	70	35	60	
Magnesium (Mg) (DIS)	7.2	14	12	36	27	32	
Potassium (K) (DIS)	14	20	18	27	27	34	
Sodium (Na) (DIS)	84	110	94	174	137	164	
Sulfate (SO4)	153	316	310	934	573	775	
Total Alkalinity As CaCO3	116	122	120	140	125	140	
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.002	<0.01	
Arsenic III (dis)	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	
Arsenic V (dis)	<0.005	<0.005	0.0054 J	0.0025	0.006 UJ	<0.005	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Iron (Fe) (DIS)	<0.02	<0.03	<0.02	<0.02	<0.02	<0.02	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	
Zinc (Zn) (DIS)	<0.02	<0.05	<0.01	<0.02	<0.02	<0.02	
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	4.3	3.62	2.12	2.6	1.77	2.66	
pH	7.6	7.6	7.6	7.4	7.05	6.9	
Depth To Water Level (ft)	14.3	14.65	15.52	13.11	17.93	14.02	
pH (Fld)	5.8	6.33	7.01	6.78	6.75	6.55	
SC (umhos/cm at 25 C) (Fld)	526	821	840	1879	1428	1875	
SC (umhos/cm at 25 C)	648	1010	857	1690	1410	1680	
Total Suspended Solids	16	537	<10	<10	<10 J	<10	
TDS (Measured at 180 C)	426	723	608	1460	998	1360	
TDS - Calculated					1040		
Salinity (G/KG) (Fld)	0.2	0.3					
Turbidity (NTU) (Fld)	1	15					
Water Temperature (C) (Fld)	10.7	10.5	11.1	10.8	11	11.12	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-101	EH-101	EH-101	EH-101	EH-101	EH-101
Water	SAMPLE DATE	5/3/2006	6/22/2006	6/22/2006	9/22/2006	11/10/2006	3/27/2007
	SAMPLE TIME	14:50	10:00	10:10	14:55	14:25	13:30
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	H06050044-001	H06060237-002	H06060237-003	H06090199-008	H06110090-001	H07030213-011
	SAMPLE NUMBER	AEH-0605-135	AEH-0606-136	AEH-0606-137	AEH-0609-117	AEH-0611-153	AEH-0703-110
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	160	150	150	190	190	170
Calcium (Ca) (DIS)	119	109	109	224	190	118
Chloride (Cl)	30	27	27	70	60	37
Magnesium (Mg) (DIS)	22	19	19	40	37	22
Potassium (K) (DIS)	27	26	26	35	36	30
Sodium (Na) (DIS)	127	118	118	181	198	142
Sulfate (SO4)	549	460	494	799	694	527
Total Alkalinity As CaCO3	130	130	120	150	160	140

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.005	0.006	0.006	0.009	0.009	0.005
Arsenic III (dis)	<0.005 J	<0.005	<0.005	<0.005	<0.005 J	<0.001
Arsenic V (dis)	<0.005 J	<0.005	<0.005	0.01 J	<0.005	0.0023
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	0.09	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)						0.234
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential				157	93.7	180.3
Oxygen (O) (DIS) (Fid)	1.81	3.18		4	2.57	1.32
pH	7.2	7.4	7.2	7.1	7.1	7.2
Depth To Water Level (ft)	15.95	12.72		12.08	12.98	16.35
pH (Fid)	6.57	6.45		6.5	6.63	6.67
SC (umhos/cm at 25 C) (Fid)	1321	1187		1842	1899	1294
SC (umhos/cm at 25 C)	1330	1180	1170	1860	1780	1380
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	1010	891	894	1550	1410	1010
Water Temperature (C) (Fid)	11.61	11.24		10.62	11.01	11.08

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-101	EH-101	EH-101	EH-101	EH-101	EH-101
Water	SAMPLE DATE	5/8/2007	5/8/2007	7/26/2007	9/6/2007	9/6/2007	11/14/2007
	SAMPLE TIME	14:00	14:00	09:15	09:35	09:45	10:12
	LAB	EPA-R8	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	8705007-09	H07050103-008	H07070280-004	H07090052-002	H07090052-003	H07110122-001
	SAMPLE NUMBER	AEH-0705-107	AEH-0705-107	AEH-0707-127	AEH-0709-120	AEH-0709-121	AEH-0711-118
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	AEH-0705-107-S	EPA Split		Split w/EPA	Split w/EPA	EPA Split
	REMARKS	Split				Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	160	160	170	170	
Bicarbonate (HCO3) (dis)					180
Calcium (Ca) (DIS)	89	93	146	144	117
Chloride (Cl)	25	27	42	37	37
Magnesium (Mg) (DIS)	16	17	26	26	21
Potassium (K) (DIS)	25	26	31	31	29
Sodium (Na) (DIS)	121	124	153	152	142
Sulfate (SO4)	407	434	632	611	481
Total Alkalinity As CaCO3	130	130	140	140	150

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)						<0.005
Selenium-VI (DIS)						0.207
Aluminum (Al) (DIS)	<0.1					
Antimony (Sb) (DIS)	<0.001					
Arsenic (As) (DIS)	0.007	0.005	0.008 UJ	0.006 UJ	0.006 UJ	0.007
Arsenic III (DIS)		<0.001				0.001
Arsenic V (DIS)		0.0044				0.0037
Barium (Ba) (DIS)	0.027					
Beryllium (Be) (DIS)	<0.001					
Cadmium (Cd) (DIS)	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.002					
Cobalt (Co) (DIS)	<0.002					
Copper (Cu) (DIS)	<0.01	<0.004	<0.004	<0.004	<0.004	0.003
Iron (Fe) (DIS)	<0.1	<0.02	0.02	0.02 UJ	<0.02	<0.01
Lead (Pb) (DIS)	<0.001	<0.005	<0.005	<0.005	<0.005	<0.003
Manganese (Mn) (DIS)	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.0001					
Nickel (Ni) (DIS)	0.0045					
Selenium (Se) (DIS)	0.201	0.175	0.181	0.275	0.271	0.23
Silver (Ag) (DIS)	<0.0005					
Thallium (Tl) (DIS)	<0.0003					
Tin (Sn) (DIS)	<0.2					
Vanadium (V) (DIS)	<0.01					
Zinc (Zn) (DIS)	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential				99.2		
Oxygen (O) (DIS) (Fld)		2.17	2.82	3.72		2.47
pH		7.2	7.4	7.1	7.2	7.1
Depth To Water Level (ft)		16.29	12.86	13.45		14.52

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-101	EH-101	EH-101	EH-101	EH-101
Water	SAMPLE DATE	5/8/2007	7/26/2007	9/6/2007	9/6/2007	11/14/2007
	SAMPLE TIME	14:00	09:15	09:35	09:45	10:12
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	ELI	Hydrometrics
	LAB NUMBER	H07050103-008	H07070280-004	H07090052-002	H07090052-003	H07110122-001
	SAMPLE NUMBER	AEH-0705-107	AEH-0707-127	AEH-0709-120	AEH-0709-121	AEH-0711-118
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	EPA Split		Split w/EPA	Split w/EPA	EPA Split
	REMARKS				Field Duplicate	

**Physical/Fld-Lab: ppm unless noted**

	EH-101	EH-101	EH-101	EH-101	EH-101
pH (Fld)	6.75	6.8	6.61		9.07 R
SC (umhos/cm at 25 C) (Fld)	1216	1187	1537		1493
SC (umhos/cm at 25 C)	1140	1160	1330	1330	1400
Total Suspended Solids	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	825	837	1130	1140	1040
Water Temperature (C) (Fld)	11.5	10.97	11.07		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-101	EH-101	EH-101	EH-101	EH-101	EH-101
Water	SAMPLE DATE	1/30/2008	5/1/2008	7/15/2008	7/15/2008	10/29/2008	2/3/2009
	SAMPLE TIME	12:30	11:30	10:00	10:10	15:45	14:30
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08010227-005	H08050019-008	H08070318-008	H08070318-009	H08100394-013	H09020036-003
	SAMPLE NUMBER	AEH-0801-114	AEH-0805-128	AEH-0807-120	AEH-0807-121	AEH-0811-132	AEH-0902-122
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	180	150	140	140	160	160
Calcium (Ca) (DIS)	72	52	34	34	74	44
Chloride (Cl)	22	14	13	13	27	18
Magnesium (Mg) (DIS)	13	10	6	6	14	8
Potassium (K) (DIS)	24	18	16	16	24	19
Sodium (Na) (DIS)	116	86	75	73	101	86
Sulfate (SO4)	339	220	170	170	330	190
Total Alkalinity As CaCO3	140	130	110	110	130	130

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		0.0407 J+			<0.005	
Selenium-VI (DIS)		0.0094 J			0.107	
Aluminum (Al) (DIS)		<0.1			<0.1	
Antimony (Sb) (DIS)		<0.005			<0.005	
Arsenic (As) (DIS)	0.006	0.004	0.004	0.004	0.004	0.004
Arsenic III (DIS)		<0.005			<0.005	
Arsenic V (DIS)		<0.005			<0.005 J-	
Barium (Ba) (DIS)		<0.1			<0.1	
Beryllium (Be) (DIS)		<0.001			<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.001			<0.001	
Cobalt (Co) (DIS)		<0.01			<0.01	
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)		<0.006			<0.006	
Nickel (Ni) (DIS)		<0.01			<0.01	
Selenium (Se) (DIS)	0.137	0.068	0.042	0.041	0.114	0.057
Silver (Ag) (DIS)		<0.005			<0.005 J	
Thallium (Tl) (DIS)		<0.002			<0.002	
Vanadium (V) (DIS)		<0.01			<0.01	
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.73	2	3.56		3.11	2.26
pH	7.5	7.5	7.1	7.2	7.3	7.2
Depth To Water Level (ft)	18.49	19.28	14.42		15.32	17.85
pH (Fld)	6.89	6.83	6.79		6.82	6.71
SC (umhos/cm at 25 C) (Fld)	1090	801	647		998	715
SC (umhos/cm at 25 C)	1030	756	617	616	974	719

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-101	EH-101	EH-101	EH-101	EH-101	EH-101
Water	SAMPLE DATE	1/30/2008	5/1/2008	7/15/2008	7/15/2008	10/29/2008	2/3/2009
	SAMPLE TIME	12:30	11:30	10:00	10:10	15:45	14:30
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08010227-005	H08050019-008	H08070318-008	H08070318-009	H08100394-013	H09020036-003
	SAMPLE NUMBER	AEH-0801-114	AEH-0805-128	AEH-0807-120	AEH-0807-121	AEH-0811-132	AEH-0902-122
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Total Suspended Solids	<10	<10	<10	<10	<10 J	<10
	TDS (Measured at 180 C)	715	517	435	434	668	455
	Water Temperature (C) (Fld)	11	11	10.7		10.7	10.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-101	EH-102	EH-102	EH-102	EH-102
Water	SAMPLE DATE	5/6/2009	11/11/1986	11/11/1986	2/4/1987	2/4/1987
	SAMPLE TIME	15:35	00:00	00:00	00:00	00:00
	LAB	ELI	RMAL	TSC-SLC	CHMTC	TSC-SLC
	LAB NUMBER	H09050142-014	8611-14	86-7493	8701-111	87-786
	SAMPLE NUMBER	AEH-0905-137	AEH-8611-14	AEH-8611-14	AEH-8701-111	AEH-8701-111
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Split		Split	
<b>Common Ions (mg/L): ppm unless noted</b>						
	Bicarbonate (HCO3)	140	118	150		146
	Calcium (Ca) (DIS)	34	65.9	63	57.8	81 M
	Carbonate As CO3		<5	<1		<1
	Chloride (Cl)	14	16	13	18	13
	Magnesium (Mg) (DIS)	6	14.5	14	12.9	20
	Potassium (K) (DIS)	17	5.4	6.2	4.09	5.2
	Sodium (Na) (DIS)	66	37.3	34	27.4	33
	Sulfate (SO4)	150	145	268 M	123	140
	Total Alkalinity As CaCO3	110				
<b>Metals (mg/L): ppm unless noted</b>						
	Aluminum (Al) (DIS)	<0.1				
	Antimony (Sb) (DIS)	<0.003				
	Arsenic (As) (DIS)	<0.005	<0.01	<0.006	<0.009	<0.006
	Arsenic III (dis)					0.01 M
	Arsenic V (dis)					<0.008
	Barium (Ba) (DIS)	<0.1				
	Beryllium (Be) (DIS)	<0.001				
	Cadmium (Cd) (DIS)	<0.001	<0.005	<0.001	<0.005	0.001
	Chromium (Cr) (DIS)	<0.001				
	Cobalt (Co) (DIS)	<0.0005				
	Copper (Cu) (DIS)	<0.001	<0.004	<0.008	<0.02	<0.008
	Gold (Au) (DIS)	<0.01 UJ				
	Iron (Fe +2) (TOT)					<0.01
	Iron (Fe) (DIS)	<0.02	<0.03	0.03	<0.04	<0.02
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	0.003	<0.005
	Manganese (Mn) (DIS)	<0.01	0.2	0.3 M	0.08	0.09
	Mercury (Hg) (DIS)	<0.0001				
	Nickel (Ni) (DIS)	<0.01				
	Selenium (Se) (DIS)	0.038				
	Silver (Ag) (DIS)	<0.005				
	Tellurium (Te) (DIS)	<0.1				
	Thallium (Tl) (DIS)	<0.001				
	Vanadium (V) (DIS)	<0.01				
	Zinc (Zn) (DIS)	<0.01 J	<0.002	0.009	0.04	<0.008
<b>Physical/Fid-Lab: ppm unless noted</b>						
	Oxygen (O) (DIS) (Fld)	2.26		1.5		0.4
	pH	7.4	6.8	6.8		7.6
	Depth To Water Level (ft)	18.22		7.9		8.8
	pH (Fld)	6.57		6.9		6.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-101	EH-102	EH-102	EH-102	EH-102
Water	SAMPLE DATE	5/6/2009	11/11/1986	11/11/1986	2/4/1987	2/4/1987
	SAMPLE TIME	15:35	00:00	00:00	00:00	00:00
	LAB	Hydrometrics	RMAL	TSC-SLC	CHMTC	TSC-SLC
	LAB NUMBER	H09050142-014	8611-14	86-7493	8701-111	87-786
	SAMPLE NUMBER	AEH-0905-137	AEH-8611-14	AEH-8611-14	AEH-8701-111	AEH-8701-111
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Split		Split	
<b>Physical/Fid-Lab: ppm unless noted</b>						
	SC (umhos/cm at 25 C) (Fid)	596		559		552.2
	SC (umhos/cm at 25 C)	603	442	422 M		590
	Total Suspended Solids	<10				
	TDS (Measured at 180 C)	393	365	620 M	370	445
	Water Temperature (C) (Fid)	10.7		7.6		9.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-102	EH-102	EH-102	EH-102	EH-102	EH-102
Water	SAMPLE DATE	2/4/1987	2/4/1987	4/13/1987	4/13/1987	4/23/1987	8/7/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	CHMTC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8701-139	87-787	87-2429	87-2430	87-2836	87-6490
	SAMPLE NUMBER	AEH-8701-139	AEH-8701-139	AEH-8704-8	AEH-8704-9	AEH-8704-29	AEH-8708-24
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split	Field Duplicate		Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)					138	132
Calcium (Ca) (DIS)	58.7				64.8	59.5
Carbonate As CO3					<1	<1
Chloride (Cl)					12	11
Magnesium (Mg) (DIS)	13.4				13.5	13.8
Potassium (K) (DIS)	4.2				4.9	4.9
Sodium (Na) (DIS)	29.7				35	32.5
Sulfate (SO4)			200	190	150	155

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.009	0.006	<0.006	<0.006	<0.006	<0.006
Arsenic III (dis)		0.03 M			<0.008	<0.008
Arsenic V (dis)		0.02 M			0.02 M	0.06 M
Cadmium (Cd) (DIS)	<0.005	<0.001			0.001	<0.001
Copper (Cu) (DIS)	<0.02	<0.008			<0.008	<0.008
Iron (Fe +2) (TOT)		<0.01			<0.01	<0.01
Iron (Fe) (DIS)	0.2	<0.02			<0.02	0.02
Lead (Pb) (DIS)	0.003	<0.005			<0.005 M	<0.005
Manganese (Mn) (DIS)	0.1	0.1			0.07	0.03
Zinc (Zn) (DIS)	0.2	<0.008			<0.008	<0.008

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		0.4			1.6	1.4
pH			7.2	7.2	7.09	7.7
Depth To Water Level (ft)		8.8	9.2	9.2	8.9	7.5
pH (Fld)		6.4			7.1	6.8
SC (umhos/cm at 25 C) (Fld)		553.2			546.4	558.8
SC (umhos/cm at 25 C)			610	610	560	560
TDS (Measured at 180 C)			459 M	476	417	355
Water Temperature (C) (Fld)		9.5			8.5	10.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-102	EH-102	EH-102	EH-102	EH-102	EH-102
Water	SAMPLE DATE	11/16/1987	4/20/1988	12/13/1988	12/13/1988	4/11/1989	10/12/1989
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-10537	88-2777	89-16	89-15	89-481	89-799
	SAMPLE NUMBER	AEH-8711-208	AEH-8804-355	AEH-8812-152	AEH-8812-174	AEH-8904-245	AEH-8910-453
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	139	109				
Calcium (Ca) (DIS)		63				
Carbonate As CO3		<1				
Chloride (Cl)		8.3 J	7.6	7.8	7.5	9.1
Magnesium (Mg) (DIS)		13				
Potassium (K) (DIS)		5.5				
Sodium (Na) (DIS)		33				
Sulfate (SO4)	153 M	115	100	170 J	119	116

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.006	0.06 J	<0.006	<0.006	<0.004	<0.008
Arsenic III (dis)	0.009	0.03	0.03 J	0.04 J	<0.008	<0.008
Arsenic V (dis)	<0.008	0.06	0.02 J	0.02 J	0.02 J	<0.008
Cadmium (Cd) (DIS)	0.001	<0.001	<0.001	<0.001	<0.002	<0.001
Copper (Cu) (DIS)	<0.008		<0.008	<0.008	<0.008	<0.008
Iron (Fe +2) (TOT)	<0.01	<0.001	<0.01	<0.01	<0.01	
Iron (Fe) (DIS)	<0.02	<0.02				
Lead (Pb) (DIS)	<0.005	0.02 J	<0.005	<0.005	<0.02	<0.005 UJ
Manganese (Mn) (DIS)	0.02					
Zinc (Zn) (DIS)	<0.008	0.01 J	<0.008	<0.008	0.008	<0.008

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.8	3.7	2.3	2.3	3.5	2.6
pH	7.9	7.1	7	7	7	7.7
Depth To Water Level (ft)	8.8	9.09	9.8	9.8	9.4	8.05
pH (Fld)	6.1	7.02	7.07	7.07	6.1	6.9
SC (umhos/cm at 25 C) (Fld)	570.5	542.2	528.7	526.9	474.4	509.4
SC (umhos/cm at 25 C)	590	550	520	520	435	500
Total Suspended Solids	29					
TDS (Measured at 180 C)	387 M	405 J	400	356	317 J	324 J
Water Temperature (C) (Fld)	10.2	8.4	10.1	10.1	11	10.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-102	EH-102	EH-102	EH-102	EH-102	EH-102
Water	SAMPLE DATE	4/28/1990	11/30/1990	5/6/1991	11/15/1991	4/22/1992	11/14/1992
	SAMPLE TIME	00:00	00:00	00:00	10:30	18:00	17:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	90-1053	90-2252	91-2672	91-3856	92-4303	92-6784
	SAMPLE NUMBER	AEH-9005-453	AEH-9011-754	AEH-9105-133	AEH-9111-332	AEH-9204-170	EHC-9211-196
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)						54
Chloride (Cl)	10.3	5.1 J	4.4	5.1 UJ	6 J	6.9
Magnesium (Mg) (Dis)						12
Potassium (K) (Dis)						5.4
Sodium (Na) (Dis)						39
Sulfate (SO4)	186	145 J	70	88	114 J	142 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.008	0.02	0.005	0.02	<0.004	0.004 J
Arsenic III (dis)	0.01	0.02 U	0.005 UJ	0.02 U	0.005	<0.004
Arsenic V (dis)	<0.008	0.004 U	0.01 UJ	0.03 U	<0.004	0.005 UJ
Cadmium (Cd) (DIS)	0.001	<0.001	<0.001	<0.001	0.001	0.001
Copper (Cu) (DIS)	<0.008	<0.008	<0.004	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 UJ
Zinc (Zn) (DIS)	<0.006		<0.008	0.01	<0.006	<0.006

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.3	2.1	7.8	2.7	1.4	1.4
pH	7.9	7.8	7.8	7.2	7.3	7.8
Depth To Water Level (ft)	9.2	11.5	10.6	8.4	9.2	8.6
pH (Fld)	6.8	6.9	7.4	7.9	7.1	7.07
SC (umhos/cm at 25 C) (Fld)	595.7	540.1	437.3	394	456	509
SC (umhos/cm at 25 C)	590	520	445	359	460	500
TDS (Measured at 180 C)	398	347 J	302	271 J	291	380
Water Temperature (C) (Fld)	8.7	9.8	10.8	12	9.1	10.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-102	EH-102	EH-102	EH-102	EH-102	EH-102
Water	SAMPLE DATE	5/3/1993	11/8/1993	5/5/1994	11/10/1994	5/5/1995	11/7/1995
	SAMPLE TIME	17:00	13:00	10:00	11:45	18:00	16:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-7768	93-9198	94-1113	94-3272	95-4456	95-6094
	SAMPLE NUMBER	EHC-9305-135	EHC-9311-134	EHC-9405-138	EHC-9411-139	EHC-9505-139	EHC-9511-141
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Calcium (Ca) (Dis)		60					
Chloride (Cl)		7	9.8 J	7.8	7.4	5.6	6.3
Magnesium (Mg) (Dis)		13					
Potassium (K) (Dis)		5					
Sodium (Na) (Dis)		44					
Sulfate (SO4)		149	149	165	169	135	143
Total Hardness As CaCO3		203					
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic III (dis)		0.007 U	<0.004	<0.004	0.004 U	<0.004	<0.004
Arsenic V (dis)		0.01 UJ	0.004 UJ	<0.004	0.01 U	<0.004	0.004
Cadmium (Cd) (DIS)		0.001	<0.001	0.001	0.001	0.001	<0.001
Copper (Cu) (DIS)		<0.004	<0.004	<0.004	<0.004	0.008	<0.004
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 J
Zinc (Zn) (DIS)		0.009	<0.006	0.006 U	0.01 U	0.006	0.006
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)		2.2	2.8	2	6.5	4.7	3.6
pH						7	7.5
Depth To Water Level (ft)		8.6	7.8	8.1	8.7	9.5	8.2
pH (Fld)		7.4	7.1	7	7.4	8.05	6.8
SC (umhos/cm at 25 C) (Fld)		548	562	556	551	493	494
SC (umhos/cm at 25 C)		550	586 J	552	570 J	485	510
TDS (Measured at 180 C)		363	385	378	376	316	332
Water Temperature (C) (Fld)		10.9	9.4	9.4	9.6	9.5	9.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-102	EH-102	EH-102	EH-102	EH-102	EH-102
Water	SAMPLE DATE	5/7/1996	11/7/1996	5/6/1997	5/6/1997	11/4/1997	5/6/1998
	SAMPLE TIME	16:00	11:00	11:30	11:45	11:50	09:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-6710	96-7755	97-909	97-926	187-2676	260-3761
	SAMPLE NUMBER	EHC-9605-125	EHC-9611-125	EHC-9705-123	EHC-9705-147	EHC-9711-125	EHC-9805-126
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)							126
Calcium (Ca) (DIS)							78
Chloride (Cl)	8.8	11	12	12	13		16
Magnesium (Mg) (DIS)							17
Potassium (K) (DIS)							7 J
Sodium (Na) (DIS)							50
Sulfate (SO4)	150	201	214	226	261		255
Total Alkalinity As CaCO3							103

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	<0.004	<0.005	0.007	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.005 UJ	0.006	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	0.008 J	<0.004	<0.005	<0.005	<0.005	<0.005	0.02
Cadmium (Cd) (DIS)	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)							<0.05
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)							<0.02
Zinc (Zn) (DIS)	<0.02	<0.008	<0.02	<0.02	<0.02	<0.02	<0.02 J

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4	3.1	3.5	3.5	2		1.6
pH	7	7.6	6.9	7	7.2		7.1
Depth To Water Level (ft)	8.5	8.4	9.05	9.05	8		9.3
pH (Fld)	7	7.6	7.3	7.3	6.8		6.3
SC (umhos/cm at 25 C) (Fld)	456	626	682	687	798		726
SC (umhos/cm at 25 C)	430	594	708	702	697		738
Total Suspended Solids					8		
TDS (Measured at 180 C)	324	467	513	509	497		539
Water Temperature (C) (Fld)	8.9	8.4	8.9	8.9	10.6		9.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-102	EH-102	EH-102	EH-102	EH-102	EH-102
Water	SAMPLE DATE	11/17/1998	5/8/1999	11/9/1999	11/9/1999	5/8/2000	11/9/2000
	SAMPLE TIME	16:55	09:00	13:15	13:30	10:10	16:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	310-4404	346-4881	L992008006	L992009006	L000705026	L001897023
	SAMPLE NUMBER	EHC-9811-125	EHC-9905-125	EHC-9911-141	EHC-9911-170	EHC-0005-140	EHC-0011-141
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	132	132 J	126	122	120	142
Calcium (Ca) (DIS)	86	75	63	65	92	60
Carbonate As CO3		<1 UJ	<1	<1	<1	<1
Chloride (Cl)	26 J	20	19	18	28	14
Magnesium (Mg) (DIS)	18	19	14	15	21	13
Potassium (K) (DIS)	6.8	8.2	6.3	6.6	7.8	6.3
Sodium (Na) (DIS)	54	55	45	42	53	49
Sulfate (SO4)	275	203	199	186	320	215
Total Alkalinity As CaCO3	108	108 J	103	100	98	116

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)						<0.01
Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005 J	<0.005
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	0.01 UJ	<0.02
Arsenic V (dis)	<0.005	0.005	0.005	<0.005	0.009 U	<0.02
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001 J	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.04	0.07 UJ	<0.02	<0.02	<0.02	0.2 UJ
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	0.02	<0.02 J	<0.02 UJ	<0.02 J	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.8	2.2	4.5	4.5	4.6	1.01
pH	7.2	7.5	7.4	7.4	7.3	7.7
Silicon+Silica (Si+SiO2)						22
Depth To Water Level (ft)	8.9	10.08	8.8		10.7	11
Eh (millivolts)	402	448	477	479	415	414
pH (Fld)	7.3	6.4	7.5	7.5	6.8	7
SC (umhos/cm at 25 C) (Fld)	808	726	652	646	808	550
SC (umhos/cm at 25 C)	802	744	650	654	848	646
Total Suspended Solids	1.8		<1	1.7 UJ		
TDS (Measured at 180 C)	580	521	541	452 J	590	459
Water Temperature (C) (Fld)	9.3	8.5	10.9	10.9	9	10.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-102	EH-102	EH-102	EH-102	EH-102	EH-102
Water	SAMPLE DATE	11/9/2000	5/4/2001	11/13/2001	6/1/2002	11/17/2002	6/3/2003
	SAMPLE TIME	16:30	16:00	14:15	16:00	13:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ASARCO
	LAB NUMBER	L001897030	L010655035	L011564014	L020396014	L020956013	0306-235
	SAMPLE NUMBER	EHC-0011-175	EHC-0105-167	EHC-0111-165	EHC-0205-183	EHC-0211-179	AEH-0306-235
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

### Common Ions (mg/L): ppm unless noted

Bicarbonate (HCO3)	134	150	117	132	117
Calcium (Ca) (DIS)	59	53	56	46	49
Carbonate As CO3	<1		<1	<1	<1
Chloride (Cl)	17	17 J	30	12	24
Magnesium (Mg) (DIS)	13	12	12	9.9	10
Potassium (K) (DIS)	6.5	6.2	6.8	5.9	6.5
Sodium (Na) (DIS)	48	47	52	49	49
Sulfate (SO4)	207 J	169 J	189	146	146
Total Alkalinity As CACO3	110	123	96	108	96

### Metals (mg/L): ppm unless noted

Aluminum (Al) (DIS)	0.01 U	<0.05	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	<0.005	0.006	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.02	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	<0.02	<0.005	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.1 UJ	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02

### Physical/Fld-Lab: ppm unless noted

Oxidation Reduction Potential			37.6	12.8	
Oxygen (O) (DIS) (Fld)	1.01	2.8	1.3	4.3	5.5
pH	7.8	7.4	7.3	6.9	6.9
Silicon+Silica (Si+SiO2)	22	21	22	19	19
Depth To Water Level (ft)		10.9	9.8	11.2	9.5
Eh (millivolts)	414	288	272		8.6
pH (Fld)	6.9	7.3	7.07	6.2	6.2
SC (umhos/cm at 25 C) (Fld)	540	559	636	608	457
SC (umhos/cm at 25 C)	649	592	642	529	563
Total Suspended Solids		<1	6	2.4	1.9 J
TDS (Measured at 180 C)	467	413	447	351	379
Salinity (G/KG) (Fld)					0.1
Turbidity (NTU) (Fld)					1
Water Temperature (C) (Fld)	10.2	12.2	11.3	9	10.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-102	EH-102	EH-102	EH-102	EH-102	EH-102
Water	SAMPLE DATE	10/28/2003	5/13/2004	10/22/2004	5/9/2005	11/3/2005	4/25/2006
	SAMPLE TIME	00:00	09:15	00:00	12:45	10:29	12:24
	LAB	TSC-SLC	ASARCO	ASARCO	ELI-Casper	ASARCO	Hydro
	LAB NUMBER	AEH-0310-458	AEH-0405-230	z	AEH-0505-EH102	AEH-0511-239	AEH-0605-EH102
	SAMPLE NUMBER	AEH-0310-458	AEH-0405-230	AEH-0411-240	AEH-0505-EH102	AEH-0511-239	AEH-0605-EH102
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only Req	SWL Only Req	SWL Only Req	SWL Only Req	SWL Only	SWL Only
	REMARKS	No Sample	No Sample	No Sample	No Sample	No Sample	No Sample
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Depth To Water Level (ft)	9.37	9.66	8.92	10.24	9.15	9.58

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-102	EH-102	EH-102	EH-102	EH-102	EH-102
Water	SAMPLE DATE	11/6/2006	3/28/2007	5/11/2007	5/11/2007	5/11/2007	5/11/2007
	SAMPLE TIME	00:00	15:05	12:05	12:05	12:10	12:10
	LAB	Hydrometrics	ELI	EPA-R8	ELI	EPA-R8	ELI
	LAB NUMBER	z	H07030232-013	8705007-13	H07050137-004	8705007-12	H07050137-005
	SAMPLE NUMBER	AEH-0611-EH102	AEH-0703-124	AEH-0705-137	AEH-0705-137	AEH-0705-138	AEH-0705-138
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only		AEH-0705-137-S	EPA Split	AEH-0705-138-S	EPA Split
	REMARKS	No Sample		Split		Split	Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	130	130	130
Calcium (Ca) (DIS)	92	81	81
Chloride (Cl)	17	17	17
Magnesium (Mg) (DIS)	20	17	17
Potassium (K) (DIS)	10	9	9
Sodium (Na) (DIS)	73	75	73
Sulfate (SO4)	288	294	302
Total Alkalinity As CaCO3	110	110	110

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.001	<0.001	<0.001
Arsenic (As) (DIS)	0.003	0.0041	0.002
Arsenic III (DIS)	<0.005	<0.001	<0.001
Arsenic V (DIS)	<0.005	<0.001	<0.001
Barium (Ba) (DIS)	0.156	0.156	0.156
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.0002	<0.001
Chromium (Cr) (DIS)	<0.002	<0.002	<0.002
Cobalt (Co) (DIS)	<0.002	<0.002	<0.002
Copper (Cu) (DIS)	<0.004	<0.01	<0.004
Iron (Fe) (DIS)	0.02	<0.1	<0.02
Lead (Pb) (DIS)	<0.005	<0.001	<0.005
Manganese (Mn) (DIS)	<0.01	<0.002	<0.01
Mercury (Hg) (DIS)	<0.0001	<0.0001	<0.0001
Nickel (Ni) (DIS)	0.0044	0.004	0.004
Selenium (Se) (DIS)	0.113	0.126	0.097
Silver (Ag) (DIS)	<0.0005	<0.0005	<0.0005
Thallium (Tl) (DIS)	<0.0003	<0.0003	<0.0003
Tin (Sn) (DIS)	<0.2	<0.2	<0.2
Vanadium (V) (DIS)	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.02	<0.04	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	148.9		
Oxygen (O) (DIS) (Fld)	0.86	1.15	
pH	7.2	7.2	7.2
Depth To Water Level (ft)	9.1	10.32	9.98
pH (Fld)	6.6	6.78	6.78
SC (umhos/cm at 25 C) (Fld)	862	835	
SC (umhos/cm at 25 C)	832	785	792

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-102	EH-102	EH-102
Water	SAMPLE DATE	3/28/2007	5/11/2007	5/11/2007
	SAMPLE TIME	15:05	12:05	12:10
	LAB	ELI	ELI	ELI
	LAB NUMBER	H07030232-013	H07050137-004	H07050137-005
	SAMPLE NUMBER	AEH-0703-124	AEH-0705-137	AEH-0705-138
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI
	DESCRIPTION		EPA Split	EPA Split
	REMARKS			Field Duplicate

**Physical/Fid-Lab: ppm unless noted**

Total Suspended Solids	<10	<10	<10
TDS (Measured at 180 C)	593	595	592
Water Temperature (C) (Fld)	9.8	9.53	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-102	EH-102	EH-102	EH-102	EH-102	EH-102
Water	SAMPLE DATE	7/26/2007	9/4/2007	11/14/2007	1/25/2008	4/29/2008	7/14/2008
	SAMPLE TIME	11:30	15:20	11:39	15:15	10:10	17:25
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07070280-008	H07090010-006	H07110122-004	H08010206-009	H08040441-001	H08070318-001
	SAMPLE NUMBER	AEH-0707-131	AEH-0709-105	AEH-0711-121	AEH-0801-108	AEH-0805-100	AEH-0807-113
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION			EPA Split			
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	130	140		140	140	140
Bicarbonate (HCO3) (dis)			140			
Calcium (Ca) (DIS)	71	66	54	57	61	45
Chloride (Cl)	18	17	15	13	11	13
Magnesium (Mg) (DIS)	14	14	11	12	12	9
Potassium (K) (DIS)	8	8	8	8	8	7
Sodium (Na) (DIS)	66	63	60	63	55	54
Sulfate (SO4)	278	190	177	184	190	160
Total Alkalinity As CaCO3	110	110	120	120	120	120

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)			<0.005		0.0261 J+	
Selenium-VI (DIS)			0.0438		0.0081 J	
Aluminum (Al) (DIS)					<0.1	
Antimony (Sb) (DIS)					<0.005	
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Arsenic III (DIS)			0.0011		<0.005	
Arsenic V (DIS)			<0.001		<0.005	
Barium (Ba) (DIS)					0.1	
Beryllium (Be) (DIS)					<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)					<0.001	
Cobalt (Co) (DIS)					<0.01	
Copper (Cu) (DIS)	<0.004	<0.004	<0.001	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.003	<0.005	<0.005 J	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)					<0.006	
Nickel (Ni) (DIS)					<0.01	
Selenium (Se) (DIS)	0.072	0.058	0.048	0.05	0.05	0.034
Silver (Ag) (DIS)					<0.005	
Thallium (Tl) (DIS)					<0.002	
Vanadium (V) (DIS)					<0.01	
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.01	0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential		119.6				
Oxygen (O) (DIS) (Fld)	2.42	2.95	1.14	0.5	2.29	2.9
pH	7.3	7.3	7.2	7	7.1	7
Depth To Water Level (ft)	8.88	9.11	9.39	11.05	11.21	9.04
pH (Fld)	6.85	6.66	9.22 R	6.84	6.91	6.67

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-102	EH-102	EH-102	EH-102	EH-102	EH-102
Water	SAMPLE DATE	7/26/2007	9/4/2007	11/14/2007	1/25/2008	4/29/2008	7/14/2008
	SAMPLE TIME	11:30	15:20	11:39	15:15	10:10	17:25
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H07070280-008	H07090010-006	H07110122-004	H08010206-009	H08040441-001	H08070318-001
	SAMPLE NUMBER	AEH-0707-131	AEH-0709-105	AEH-0711-121	AEH-0801-108	AEH-0805-100	AEH-0807-113
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION			EPA Split			
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	768	721	697	676	659	616
SC (umhos/cm at 25 C)	759	708	669	668	640	576
Total Suspended Solids	<10	<10	<10	25	<10	<10
TDS (Measured at 180 C)	525	492	448	440	418	379
Water Temperature (C) (Fid)	9.59	10.05	10.61	10.5	9.6	9.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-102	EH-102	EH-102	EH-102	EH-102
Water	SAMPLE DATE	10/28/2008	10/28/2008	2/3/2009	5/6/2009	5/6/2009
	SAMPLE TIME	10:20	10:35	09:45	09:15	09:35
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08100377-001	H08100377-002	H09020024-016	H09050142-002	H09050142-003
	SAMPLE NUMBER	AEH-0811-108	AEH-0811-109	AEH-0902-115	AEH-0905-124	AEH-0905-125
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Field Duplicate			Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	140	140	140	130	130
Calcium (Ca) (DIS)	44	43	42	45	45
Chloride (Cl)	12	12	9	11	11
Magnesium (Mg) (DIS)	9	9	8	10	10
Potassium (K) (DIS)	8	7	7	8	8
Sodium (Na) (DIS)	53	52	54	52	53
Sulfate (SO4)	140	140	150	150	150
Total Alkalinity As CaCO3	120	120	120	110	110

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005			
Selenium-VI (DIS)	0.024				
Aluminum (Al) (DIS)	<0.1	<0.1		<0.1	<0.1
Antimony (Sb) (DIS)	<0.005	<0.005		<0.003	<0.003
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.005	<0.005
Arsenic III (DIS)	<0.005	<0.005			
Arsenic V (DIS)	<0.005 J	<0.005 J			
Barium (Ba) (DIS)	<0.1	<0.1		<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001		<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001		<0.001	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01		<0.0005	<0.0005
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.001	<0.001
Gold (Au) (DIS)				<0.01 UJ	<0.01 UJ
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.006	<0.006		<0.0001	<0.0001
Nickel (Ni) (DIS)	<0.01	<0.01		<0.01	<0.01
Selenium (Se) (DIS)	0.027	0.025	0.036	0.033	0.031
Silver (Ag) (DIS)	<0.005 J	<0.005		<0.005	<0.005
Tellurium (Te) (DIS)				<0.1	<0.1
Thallium (Tl) (DIS)	<0.002	<0.002		<0.001	<0.001
Vanadium (V) (DIS)	<0.01	<0.01		<0.01	<0.01
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.01 J	<0.01 J

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.06		1.12	2.17	
pH	7.2	7.2	7.1	7.3	7.3
Depth To Water Level (ft)	9.62		10.71	10.55	
pH (Fld)	6.6		6.66	6.4	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-102	EH-102	EH-102	EH-102	EH-102
Water	SAMPLE DATE	10/28/2008	10/28/2008	2/3/2009	5/6/2009	5/6/2009
	SAMPLE TIME	10:20	10:35	09:45	09:15	09:35
	LAB	Hydrometrics	ELI	Hydrometrics	Hydrometrics	ELI
	LAB NUMBER	H08100377-001	H08100377-002	H09020024-016	H09050142-002	H09050142-003
	SAMPLE NUMBER	AEH-0811-108	AEH-0811-109	AEH-0902-115	AEH-0905-124	AEH-0905-125
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Field Duplicate			Field Duplicate

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)	535		567	559	
SC (umhos/cm at 25 C)	526	522	593	568	568
Total Suspended Solids	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	352	348	356	364	366
Water Temperature (C) (Fld)	10.2		10.4	9	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-103	EH-103	EH-103	EH-103	EH-103	EH-103
Water	SAMPLE DATE	11/16/2002	6/3/2003	10/29/2003	5/25/2004	5/25/2004	10/28/2004
	SAMPLE TIME	14:25	15:00	10:30	16:00	16:15	09:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI	ELI
	LAB NUMBER	L020951008	L030247010	L030604018	H04050175-013	H04050175-014	H04100202-001
	SAMPLE NUMBER	EHC-0211-234	AEH-0306-193	AEH-0310-420	AEH-0405-177	AEH-0405-178	AEH-0411-141
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	185	183	194	190	190	180
Calcium (Ca) (DIS)	182	166	214	202	204	233
Carbonate As CO3	<1	<2	<2			
Chloride (Cl)	65	52	70	67	61	70
Magnesium (Mg) (DIS)	37	36	44	39	40	46
Potassium (K) (DIS)	8	7.4	9.5	9	9	11
Sodium (Na) (DIS)	92	75	100	86	87	102
Sulfate (SO4)	630	462	670	680	690	763
Total Alkalinity As CaCO3	152	150	159	160	160	150

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05					
Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Arsenic V (dis)	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.006	0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.03	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.5	0.4	0.7	0.47	0.48	0.66
Zinc (Zn) (DIS)	<0.02	<0.02	<0.05	<0.01	<0.01	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.2	0.3	0.31	0.67		0.1
pH	6.9	7.3	7.5	7	7.1	7.4
Silicon+Silica (Si+SiO2)	24					
Depth To Water Level (ft)	22.9	24.1	22.32	24.68		21.2
pH (Fld)	6.3	6.4	6.21	6.27		6.56
SC (umhos/cm at 25 C) (Fld)	1410	1450	1600	2060		1778
SC (umhos/cm at 25 C)	1477	1410	1652	1390	1360	1620
Total Suspended Solids	3.7	2.8	27	13	<10	<10
TDS (Measured at 180 C)	1130	1093	1296	1270	1230	1360
Salinity (G/KG) (Fld)	0.6	0.6	0.7	0.9		
Turbidity (NTU) (Fld)	3	1	8			
Water Temperature (C) (Fld)	12.2	13.2	11.8	12.3		11.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-103	EH-103	EH-103	EH-103	EH-103	EH-103
Water	SAMPLE DATE	5/10/2005	11/9/2005	5/3/2006	6/21/2006	9/21/2006	11/14/2006
	SAMPLE TIME	15:30	08:55	10:10	09:45	11:45	13:10
	LAB	ELI-Casper	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI
	LAB NUMBER	C05050399-012	H05110081-001	H06050038-002	H06060217-002	H06090189-003	H06110122-001
	SAMPLE NUMBER	AEH-0505-111	AEH-0511-125	AEH-0605-126	AEH-0606-124	AEH-0609-102	AEH-0611-176
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	191	180	200	200	200	200
Calcium (Ca) (DIS)	220	204	190	192 J	194	189
Chloride (Cl)	59	65	57	55	72	70
Magnesium (Mg) (DIS)	44	42	38	37 J	39	37
Potassium (K) (DIS)	9	11	11	9 J	10	9
Sodium (Na) (DIS)	106	116	126	110	122	111
Sulfate (SO4)	703	767	626	622	641	635
Total Alkalinity As CaCO3	157	150	170	160	160	160

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.002	<0.002	0.004	0.004	0.003	0.004
Arsenic III (dis)	<0.001	<0.005	<0.005 J	<0.005	<0.005	<0.005
Arsenic V (dis)	<0.001	<0.005	<0.005 J	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02 J	0.03	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.54	0.6	0.55	0.51 J	0.55	0.49
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02 J	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential						97
Oxygen (O) (DIS) (Fld)	0.06	1.03	1.3	1.93	4.2	0.06
pH	6.99	6.8	7.1	6.9	6.9	7.1
Depth To Water Level (ft)	25.57	21.78	24.34	20.93	19.92	21.3
pH (Fld)	6.67	6.53	6.6	6.52	6.59	6.64
SC (umhos/cm at 25 C) (Fld)	1687	1710	1553	1561	1614	1608
SC (umhos/cm at 25 C)	1720	1620	1530	1450	1570	1500
Total Suspended Solids	1	19	<10	<10	<10	10
TDS (Measured at 180 C)	1300	1290	1250	1220	1240	1210
TDS - Calculated	1260					
Water Temperature (C) (Fld)	11.9	12.33	12.73	12.29	12.2	11.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-103	EH-103	EH-103	EH-103	EH-103	EH-103
Water	SAMPLE DATE	3/28/2007	5/9/2007	7/26/2007	9/5/2007	11/16/2007	1/31/2008
	SAMPLE TIME	10:05	12:00	08:00	16:10	09:23	09:20
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07030232-003	H07050114-008	H07070280-001	H07090032-014	H07110140-001	H08010244-001
	SAMPLE NUMBER	AEH-0703-114	AEH-0705-117	AEH-0707-124	AEH-0709-118	AEH-0711-136	AEH-0801-123
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	200	200	210	200		210
Bicarbonate (HCO3) (dis)					200	
Calcium (Ca) (DIS)	199	191	200	188	198	206
Chloride (Cl)	62	57	62	57	62	57
Magnesium (Mg) (DIS)	41	38	39	37	40	41
Potassium (K) (DIS)	10	9	10	10	9	10
Sodium (Na) (DIS)	117	115	124	120	103	122
Sulfate (SO4)	618	604	642	634	619	680
Total Alkalinity As CaCO3	160	160	170	170	160	170

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)					<0.005	
Selenium-VI (DIS)					0.107	
Arsenic (As) (DIS)	0.005	0.006	0.007 UJ	0.006	0.005	0.006
Arsenic III (DIS)	<0.005	<0.001			<0.001	
Arsenic V (DIS)	<0.005	0.0013			<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	0.001	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	0.02	<0.01	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.003	<0.005
Manganese (Mn) (DIS)	0.47	0.49	0.56	0.53	0.37	0.54
Selenium (Se) (DIS)	0.098	0.111	0.121	0.112	0.1	0.131
Zinc (Zn) (DIS)	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	217.4			36.4		
Oxygen (O) (DIS) (Fid)	0.36	0.08	0.11	0.04	0.34	0.16
pH	7	7	7.2	6.9	7.1	7.1
Depth To Water Level (ft)	24.68	25.21	19.75	20.35	22.43	25.26
pH (Fid)	6.59	6.7	6.68	6.63	6.73	6.79
SC (umhos/cm at 25 C) (Fid)	1643	1660	1664	1663	1645	1727
SC (umhos/cm at 25 C)	1540	1530	1590	1580	1530	1660
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	1250	1250	1290	1270	1300	1300
Water Temperature (C) (Fid)	11.59	12.59	12.33	12.75	11.89	11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-103	EH-103	EH-103	EH-103	EH-103	EH-103
Water	SAMPLE DATE	1/31/2008	5/1/2008	5/1/2008	7/15/2008	11/3/2008	11/3/2008
	SAMPLE TIME	09:30	13:05	13:25	16:00	13:13	13:20
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08010244-002	H08050019-009	H08050019-010	H08070334-001	H08110021-003	H08110021-004
	SAMPLE NUMBER	AEH-0801-124	AEH-0805-129	AEH-0805-130	AEH-0807-129	AEH-0811-149	AEH-0811-150
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate			Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	210	210	210	200	210	210	
Calcium (Ca) (DIS)	204	224	223	223	237	245	
Chloride (Cl)	57	55	55	57	53	54	
Magnesium (Mg) (DIS)	41	44	44	43	47	48	
Potassium (K) (DIS)	10	9	9	10	11	11	
Sodium (Na) (DIS)	120	119	121	128	132	132	
Sulfate (SO4)	681	720	720	780	770	770	
Total Alkalinity As CaCO3	170	170	170	170	170	170	
<b>Metals (mg/L): ppm unless noted</b>							
Selenium-IV (DIS)		0.0825 J+	0.0839 J+		<0.005	<0.005	
Selenium-VI (DIS)		0.0339 J	0.037 J		0.161	0.159	
Aluminum (Al) (DIS)		<0.1	<0.1		<0.1	<0.1	
Antimony (Sb) (DIS)		<0.005	<0.005		<0.005	<0.005	
Arsenic (As) (DIS)	0.005	0.006	0.006	0.006	0.006	0.005	
Arsenic III (DIS)		<0.005	<0.005		<0.005	<0.005	
Arsenic V (DIS)		<0.005	<0.005		<0.005 J-	<0.005 J-	
Barium (Ba) (DIS)		<0.1	<0.1		<0.1	<0.1	
Beryllium (Be) (DIS)		<0.001	<0.001		<0.001	<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chromium (Cr) (DIS)		<0.001	<0.001		<0.001	<0.001	
Cobalt (Co) (DIS)		<0.01	<0.01		<0.01	<0.01	
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	0.52	0.64	0.64	0.65	0.58	0.54	
Mercury (Hg) (DIS)		<0.006	<0.006		<0.006	<0.006	
Nickel (Ni) (DIS)		<0.01	<0.01		<0.01	<0.01	
Selenium (Se) (DIS)	0.127	0.164	0.166	0.207	0.184	0.174	
Silver (Ag) (DIS)		<0.005	<0.005		<0.005	<0.005	
Thallium (Tl) (DIS)		<0.002	<0.002		<0.002	<0.002	
Vanadium (V) (DIS)		<0.01	<0.01		<0.01	<0.01	
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	0.16	0.33		0.12	0.31		
pH	7.1	7.3	7.3	7.4	7.3	7.3	
Depth To Water Level (ft)		26.48		23.78	22.46		
pH (Fld)	6.79	6.62		6.62	6.44		
SC (umhos/cm at 25 C) (Fld)	1727	1704		1848	1854		
SC (umhos/cm at 25 C)	1670	1600	1610	1700	1760	1750	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-103	EH-103	EH-103	EH-103	EH-103	EH-103
Water	SAMPLE DATE	1/31/2008	5/1/2008	5/1/2008	7/15/2008	11/3/2008	11/3/2008
	SAMPLE TIME	09:30	13:05	13:25	16:00	13:13	13:20
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08010244-002	H08050019-009	H08050019-010	H08070334-001	H08110021-003	H08110021-004
	SAMPLE NUMBER	AEH-0801-124	AEH-0805-129	AEH-0805-130	AEH-0807-129	AEH-0811-149	AEH-0811-150
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate			Field Duplicate
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Total Suspended Solids	<10	<10	<10	16	<10	<10
	TDS (Measured at 180 C)	1300	1350	1340	1430	1360	1370
	Water Temperature (C) (Fld)	11.5	12.1		12.4	11.98	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-103	EH-103	EH-103	EH-104	EH-104
Water	SAMPLE DATE	2/4/2009	2/4/2009	5/7/2009	11/16/2002	6/4/2003
	SAMPLE TIME	09:05	09:10	08:10	15:45	11:35
	LAB	ELI	ELI	ELI	TSC-SLC	TSC-SLC
	LAB NUMBER	H09020036-008	H09020036-009	H09050158-001	L020951011	L030256009
	SAMPLE NUMBER	AEH-0902-127	AEH-0902-128	AEH-0905-139	EHC-0211-235	AEH-0306-207
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	220	220	210	192	215
Calcium (Ca) (DIS)	212	212	197	80	121
Carbonate As CO3				<1	<2
Chloride (Cl)	49	48	45	30	94
Magnesium (Mg) (DIS)	41	41	40	19	29
Potassium (K) (DIS)	10	10	10	6.4	5.1
Sodium (Na) (DIS)	128	128	118	73	109
Sulfate (SO4)	740	740	760	195	319
Total Alkalinity As CaCO3	180	180	170	157	176

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.1	<0.05	
Antimony (Sb) (DIS)			<0.003		
Arsenic (As) (DIS)	0.004	0.004	0.025	<0.005	<0.005
Arsenic III (dis)				<0.005	<0.005
Arsenic V (dis)				<0.005	<0.005
Barium (Ba) (DIS)			<0.1		
Beryllium (Be) (DIS)			<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)			<0.001		
Cobalt (Co) (DIS)			0.0007		
Copper (Cu) (DIS)	<0.004	<0.004	0.005	<0.004	0.005
Gold (Au) (DIS)			<0.01		
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.52	0.55	0.5	<0.02	<0.02
Mercury (Hg) (DIS)			<0.0001		
Nickel (Ni) (DIS)			<0.01		
Selenium (Se) (DIS)	0.17	0.17	0.275		
Silver (Ag) (DIS)			<0.005 J		
Tellurium (Te) (DIS)			<0.1		
Thallium (Tl) (DIS)			<0.001		
Vanadium (V) (DIS)			<0.01		
Zinc (Zn) (DIS)	<0.02	<0.02	<0.01	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.45		0.15	9.6	8.2
pH	7	7	7	7.5	7.3
Silicon+Silica (Si+SiO2)				24	
Depth To Water Level (ft)	25.11		26.3	30.4	34.4
pH (Fld)	6.57		6.63	6.5	6.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-103	EH-103	EH-103	EH-104	EH-104
Water	SAMPLE DATE	2/4/2009	2/4/2009	5/7/2009	11/16/2002	6/4/2003
	SAMPLE TIME	09:05	09:10	08:10	15:45	11:35
	LAB	Hydrometrics	ELI	Hydrometrics	TSC-SLC	TSC-SLC
	LAB NUMBER	H09020036-008	H09020036-009	H09050158-001	L020951011	L030256009
	SAMPLE NUMBER	AEH-0902-127	AEH-0902-128	AEH-0905-139	EHC-0211-235	AEH-0306-207
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Field Duplicate			

**Physical/Fld-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)	1751		1755	663	1260
SC (umhos/cm at 25 C)	1710	1720	1740	833	1282
Total Suspended Solids	<10	<10	<10	14	30
TDS (Measured at 180 C)	1330	1290	1340	578	898
Salinity (G/KG) (Fld)				0.2	0.5
Turbidity (NTU) (Fld)				12	6
Water Temperature (C) (Fld)	11.7		12.1	10.5	11.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-104	EH-104	EH-104	EH-104	EH-104	EH-104
Water	SAMPLE DATE	10/28/2003	5/26/2004	10/27/2004	5/11/2005	11/8/2005	5/2/2006
	SAMPLE TIME	11:45	10:50	12:55	11:45	14:00	14:30
	LAB	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel
	LAB NUMBER	L030604001	H04050191-008	H04100192-012	C05050444-006	H05110071-011	H06050028-003
	SAMPLE NUMBER	AEH-0310-401	AEH-0405-186	AEH-0411-137	AEH-0505-118	AEH-0511-120	AEH-0605-123
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	188	220	220	199	240	210
Calcium (Ca) (DIS)	66	126	81	116	104	104
Carbonate As CO3	<2					
Chloride (Cl)	20	90	30	73	39	59
Magnesium (Mg) (DIS)	16	29	20	28	24	24
Potassium (K) (DIS)	<5	6	5	6	5	5
Sodium (Na) (DIS)	63	102	74	91	85	85
Sulfate (SO4)	187	390	210	300	307	295
Total Alkalinity As CACO3	154	180	180	163	200	170

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	<0.005	<0.005	0.002	<0.002	<0.002
Arsenic III (dis)	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005
Arsenic V (dis)	<0.005	0.0059 J	0.0027	0.007 UJ	0.0075	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.01	<0.02	<0.02	<0.02	<0.01
Zinc (Zn) (DIS)	<0.05	<0.01	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.24	5.55	9.45	6.71	9.78	4.14
pH	8.2	7.7	7.6	7.41	7.4	7.6
Depth To Water Level (ft)	28	34.79	27.84	36.11	25.52	33.54
pH (Fld)	6.71	7.2	6.98	6.8	7.12	6.72
SC (umhos/cm at 25 C) (Fld)	595	1270	858	1119	1079	1045
SC (umhos/cm at 25 C)	739	1230	791	1110	978	988
Total Suspended Solids	20 J	39	13	127	48	<10
TDS (Measured at 180 C)	495	890	590	721	695	692
TDS - Calculated				738		
Salinity (G/KG) (Fld)	0.2					
Turbidity (NTU) (Fld)	9					
Water Temperature (C) (Fld)	10.5	11.9	10.5	10.8	10.6	11.56

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-104	EH-104	EH-104	EH-104	EH-104	EH-104
Water	SAMPLE DATE	6/22/2006	9/21/2006	11/14/2006	3/28/2007	5/9/2007	7/26/2007
	SAMPLE TIME	09:00	12:50	10:50	11:40	10:40	15:30
	LAB	ELI-Hel	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06060237-001	H06090189-004	H06110119-007	H07030232-005	H07050114-004	H07070280-012
	SAMPLE NUMBER	AEH-0606-135	AEH-0609-103	AEH-0611-174	AEH-0703-116	AEH-0705-113	AEH-0707-135
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	170	200	240	200	200	180
Calcium (Ca) (DIS)	54	77	94	98	100	49
Chloride (Cl)	24	37	33	52	67	19
Magnesium (Mg) (DIS)	12	18	20	23	23	11
Potassium (K) (DIS)	4	5	5	5	5	4
Sodium (Na) (DIS)	60	71	84	83	86	59
Sulfate (SO4)	143	196	266	243	265	117
Total Alkalinity As CaCO3	140	170	200	160	160	150

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.002	<0.002	0.002	0.004	0.007	0.003 UJ
Arsenic III (DIS)	<0.005	<0.005	<0.005 J-	<0.005	<0.001	
Arsenic V (DIS)	<0.005	<0.005	<0.005 J-	<0.005	<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)				0.177	0.318	0.04
Zinc (Zn) (DIS)	<0.02	<0.02	0.06	<0.02	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential			112	82.1		
Oxygen (O) (DIS) (Fid)	8.75 A	6.3	9.96	8.42	7.44	10.16
pH	7.5	7.4	7.5	7.6	7.4	7.7
Depth To Water Level (ft)	26.99	22.85	26.01	33.15	34.33	24.56
pH (Fid)	6.7	7.21	7.17	7.1	7.16	7.44
SC (umhos/cm at 25 C) (Fid)	647	792	958	946	1081	600
SC (umhos/cm at 25 C)	618	809	917	908	1030	599
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	414	542	649	616	723	378
Water Temperature (C) (Fid)	11.03	11.79	10.61	10.77	11.68	12.09

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-104	EH-104	EH-104	EH-104	EH-104	EH-104
Water	SAMPLE DATE	9/5/2007	11/15/2007	11/15/2007	1/31/2008	5/1/2008	7/16/2008
	SAMPLE TIME	14:10	14:16	14:21	12:30	08:23	09:25
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07090032-011	H07110130-006	H07110130-007	H08010244-007	H08050019-002	H08070334-008
	SAMPLE NUMBER	AEH-0709-116	AEH-0711-132	AEH-0711-133	AEH-0801-129	AEH-0805-122	AEH-0807-136
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	210			200	200	230
Bicarbonate (HCO3) (dis)		190	190			
Calcium (Ca) (DIS)	64	49	49	100	110	149
Chloride (Cl)	25	21	20	55	54	93
Magnesium (Mg) (DIS)	15	11	12	24	25	35
Potassium (K) (DIS)	4	4	4	5	4	6
Sodium (Na) (DIS)	65	62	63	85	75	89
Sulfate (SO4)	183	120	122	266	260	410
Total Alkalinity As CaCO3	170	160	150	160	160	180

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005	<0.005		0.169	
Selenium-VI (DIS)		0.0283	0.0259		0.0821 J	
Aluminum (Al) (DIS)					<0.1	
Antimony (Sb) (DIS)					<0.005	
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	0.004	0.007	0.01
Arsenic III (DIS)		<0.001	<0.001		<0.005	
Arsenic V (DIS)		<0.001	<0.001		<0.005	
Barium (Ba) (DIS)					<0.1	
Beryllium (Be) (DIS)					<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)					0.002	
Cobalt (Co) (DIS)					<0.01	
Copper (Cu) (DIS)	<0.004	0.001 UJ	0.001 UJ	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.02	<0.01	<0.01	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.003	<0.003	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)					<0.006	
Nickel (Ni) (DIS)					<0.01	
Selenium (Se) (DIS)	0.027	0.031	0.032	0.306	0.328	0.582
Silver (Ag) (DIS)					<0.005	
Thallium (Tl) (DIS)					<0.002	
Vanadium (V) (DIS)					<0.01	
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	52.6					
Oxygen (O) (DIS) (Fld)	6.7	9.23		6.99	7.22	5.63
pH	7.4	8	8.1	7.5	7.6	7.5
Depth To Water Level (ft)	25	29.06		34.28	36.45	34.89
pH (Fld)	7.2	7.24		6.9	7.06	6.88

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-104	EH-104	EH-104	EH-104	EH-104	EH-104
Water	SAMPLE DATE	9/5/2007	11/15/2007	11/15/2007	1/31/2008	5/1/2008	7/16/2008
	SAMPLE TIME	14:10	14:16	14:21	12:30	08:23	09:25
	LAB	Hydrometrics	Hydrometrics	ELI	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H07090032-011	H07110130-006	H07110130-007	H08010244-007	H08050019-002	H08070334-008
	SAMPLE NUMBER	AEH-0709-116	AEH-0711-132	AEH-0711-133	AEH-0801-129	AEH-0805-122	AEH-0807-136
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			
<b>Physical/Fid-Lab: ppm unless noted</b>							
	SC (umhos/cm at 25 C) (Fld)	753	616		1014	1027	1440
	SC (umhos/cm at 25 C)	746	609	605	994	960	1320
	Total Suspended Solids	<10	<10	<10	<10	<10	18
	TDS (Measured at 180 C)	490	395	393	691	683	996
	Water Temperature (C) (Fld)	11.01	10.78		10.8	11.1	11.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-104	EH-104	EH-104	EH-106	EH-106
Water	SAMPLE DATE	11/4/2008	2/4/2009	5/8/2009	10/7/2002	11/11/2002
	SAMPLE TIME	09:42	13:15	11:10	14:15	11:45
	LAB	ELI	ELI	ELI	TSC-SLC	TSC-SLC
	LAB NUMBER	H08110046-002	H09020058-001	H09050167-005	L020846002	L020941001
	SAMPLE NUMBER	AEH-0811-158	AEH-0902-134	AEH-0905-156	EHIM-0210-201	EHMP-0211-300
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					
<b>Common Ions (mg/L): ppm unless noted</b>						
Bicarbonate (HCO3)	210	220	210	146	161	
Calcium (Ca) (DIS)	67	106	104	110	117	
Carbonate As CO3				<1	<1	
Chloride (Cl)	24	62	49	123	93	
Magnesium (Mg) (DIS)	16	24	24	30	27	
Potassium (K) (DIS)	4	5	5	<5	7.7	
Sodium (Na) (DIS)	60	79	70	201	204	
Sulfate (SO4)	160	290	280	586	629	
Total Alkalinity As CaCO3	170	180	170	120	132	
<b>Metals (mg/L): ppm unless noted</b>						
Selenium-IV (DIS)	<0.005					
Selenium-VI (DIS)	0.052					
Aluminum (Al) (DIS)	<0.1		<0.1			
Antimony (Sb) (DIS)	<0.005		<0.003			
Arsenic (As) (DIS)	<0.002	0.008	0.013	8.7	2	
Arsenic III (DIS)	<0.005			6.9	1.9	
Arsenic V (DIS)	<0.005			2.1	1.4	
Barium (Ba) (DIS)	<0.1		<0.1			
Beryllium (Be) (DIS)	<0.001		<0.001			
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	
Chromium (Cr) (DIS)	<0.001		<0.001			
Cobalt (Co) (DIS)	<0.01		0.0005			
Copper (Cu) (DIS)	<0.004	<0.004	0.004	<0.004	0.005	
Gold (Au) (DIS)			<0.01			
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	0.04	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	10	2	
Mercury (Hg) (DIS)	<0.006		<0.0001			
Nickel (Ni) (DIS)	<0.01		<0.01			
Selenium (Se) (DIS)	0.049	0.337	0.328			
Silver (Ag) (DIS)	<0.005 J-		<0.005			
Tellurium (Te) (DIS)			<0.1			
Thallium (Tl) (DIS)	<0.002		<0.001			
Vanadium (V) (DIS)	<0.01		<0.01			
Zinc (Zn) (DIS)	<0.02	<0.02	<0.01	<0.02	<0.02	
<b>Physical/Fid-Lab: ppm unless noted</b>						
Oxygen (O) (DIS) (Fld)	8.76	7.55	8.08	0.9	0.5	
pH	7.4	7.4	7.5	7.7	6.6	
Depth To Water Level (ft)	29.65	34.8	36.85	24.4	26.08	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-104	EH-104	EH-104	EH-106	EH-106
Water	SAMPLE DATE	11/4/2008	2/4/2009	5/8/2009	10/7/2002	11/11/2002
	SAMPLE TIME	09:42	13:15	11:10	14:15	11:45
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	TSC-SLC	TSC-SLC
	LAB NUMBER	H08110046-002	H09020058-001	H09050167-005	L020846002	L020941001
	SAMPLE NUMBER	AEH-0811-158	AEH-0902-134	AEH-0905-156	EHIM-0210-201	EHMP-0211-300
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

pH (Fld)	6.97	7.05	7.05	6.2	6.09
SC (umhos/cm at 25 C) (Fld)	673	1093	1024	1623	1645
SC (umhos/cm at 25 C)	709	1010	1030	1843	1646
Total Suspended Solids	<10	<10	<10		
TDS (Measured at 180 C)	453	735	694	1351	1183
Water Temperature (C) (Fld)	10.59	10.9	11	11.5	12.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-106	EH-106	EH-106	EH-106	EH-106	EH-106
Water	SAMPLE DATE	11/11/2002	11/11/2002	11/11/2002	11/11/2002	11/11/2002	11/11/2002
	SAMPLE TIME	12:10	12:30	12:45	13:00	13:15	13:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020941002	L020941003	L020941004	L020941005	L020941006	L020940001
	SAMPLE NUMBER	EHMP-0211-301	EHMP-0211-302	EHMP-0211-303	EHMP-0211-304	EHMP-0211-305	EHC-0211-226
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	156	156	159	155	171	149
Calcium (Ca) (DIS)	116	116	113	117	121	108
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Chloride (Cl)	93	100	91	101	71	116
Magnesium (Mg) (DIS)	27	27	28	28	27	27
Potassium (K) (DIS)	8.3	8.6	8.3	8.1	7.5	10
Sodium (Na) (DIS)	210	212	212	204	192	235
Sulfate (SO4)	609	575	596	628	555	631
Total Alkalinity As CaCO3	128	128	130	127	140	122

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)						<0.05
Arsenic (As) (DIS)	3.3	2.7	3.5	2.8	1.1	6.8
Arsenic III (dis)	1	2	1.6	2	0.07	7.4
Arsenic V (dis)	0.5	1.9	0.9	1.6	0.04	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.005	0.004	0.005	0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	0.04	0.03	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.4	2.8	3.7	2.9	1.1	6.7
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.5	0.5	0.5	0.4	0.5	0.4
pH	6.7	6.7	7	6.8	6.7	7.3
Silicon+Silica (Si+SiO2)						40
Depth To Water Level (ft)						21.08
pH (Fld)	6.2	6.2	6.3	6.3	6.4	6.3
SC (umhos/cm at 25 C) (Fld)	1606	1603	1565	1554	1478	1665
SC (umhos/cm at 25 C)	1630	1660	1598	1658	1512	1762
Total Suspended Solids						49
TDS (Measured at 180 C)	1180	1200	1163	1208	1092	1277
Water Temperature (C) (Fld)	12.8	12.7	12.6	12.8	13	11.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-106	EH-106	EH-106	EH-106	EH-106	EH-106
Water	SAMPLE DATE	6/4/2003	10/28/2003	5/19/2004	10/27/2004	5/11/2005	11/8/2005
	SAMPLE TIME	13:45	10:00	13:00	12:30	10:50	10:30
	LAB	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel
	LAB NUMBER	L030256013	L030601017	H04050121-007	H04100192-011	C05050444-004	H05110071-004
	SAMPLE NUMBER	AEH-0306-211	AEH-0310-397	AEH-0405-117	AEH-0411-136	AEH-0505-116	AEH-0511-113
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	161	142	170 UJ	160	165	170
Calcium (Ca) (DIS)	108	95	107	78	112	94
Carbonate As CO3	<2	<2				
Chloride (Cl)	98	131	100	100	109	97
Magnesium (Mg) (DIS)	26	31	26	25	29	31
Potassium (K) (DIS)	8.2	15	9 UJ	12	9	12
Sodium (Na) (DIS)	201	273	211	256	235	253
Sulfate (SO4)	602	706	650	583	597	654
Total Alkalinity As CACO3	132	116	140 UJ	130	135	140

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.5	15	2.393	12.39	4.3	10.45
Arsenic III (dis)	1.3	16	<0.012	<0.06	<0.005	<0.005
Arsenic V (dis)	<0.005	<0.005	2.4	13	0.08	8.7
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.006	0.01	<0.004	0.005	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	0.52	0.03	<0.02	0.03
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.9	16	2.69	13.72	4.67	14.86
Zinc (Zn) (DIS)	<0.02	<0.05	<0.01	0.04	<0.02	0.06

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.09	0.22	0.5	0.08	0.63	0.37
pH	6.9	7.1	6.8	6.7	6.53	6.5
Depth To Water Level (ft)	29.7	24.59	29.68	23.99	31.09	24.82
pH (Fld)	6.1	5.79	5.96	6.26	6.44	6.18
SC (umhos/cm at 25 C) (Fld)	1620	1990	1690	1836	1729	1788
SC (umhos/cm at 25 C)	1643	2020	1360	1660	1730	1730
Total Suspended Solids	15	477	<10 J	86	22 J	26
TDS (Measured at 180 C)	1206	1499	1190	1300	1200	1230
TDS - Calculated					1210	
Salinity (G/KG) (Fld)	0.7	0.9	0.7			
Turbidity (NTU) (Fld)	6	111				
Water Temperature (C) (Fld)	11.7	11.6	11.8	11.5	11.1	11.75

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-106	EH-106	EH-106	EH-106	EH-106	EH-106
Water	SAMPLE DATE	5/2/2006	5/2/2006	6/20/2006	9/22/2006	11/13/2006	3/28/2007
	SAMPLE TIME	10:40	10:45	09:50	14:00	14:00	12:05
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	H06050019-004	H06050019-005	H06060201-003	H06090199-006	H06110099-009	H07030232-006
	SAMPLE NUMBER	AEH-0605-114	AEH-0605-115	AEH-0606-110	AEH-0609-115	AEH-0611-167	AEH-0703-117
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION			No Fld SC		EPA Split	
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	180	190	190	170	150	180
Calcium (Ca) (DIS)	99	100	76	79	54	102
Chloride (Cl)	97	92	75	95	82	92
Magnesium (Mg) (DIS)	24	25	23	23	15	27
Potassium (K) (DIS)	8	8	11	11	9	9
Sodium (Na) (DIS)	209	210	248	231	193	248
Sulfate (SO4)	537	530	585	515	409	563
Total Alkalinity As CaCO3	150	150	150	140	120	150

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	4.754	4.706	16.52	13.19	16.58	5.245
Arsenic III (dis)	<0.005	<0.005	<0.06	<0.005	<0.07	<0.06
Arsenic V (dis)	5.4	5.3	18.5	16.8 J	18.2	4.8
Cadmium (Cd) (DIS)	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	0.004	0.007	0.005	<0.004	<0.004
Iron (Fe) (DIS)	0.03	0.02	0.04	0.04	0.05 J	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.5	3.32	13.11	10.85	8.52	7.48
Selenium (Se) (DIS)						0.151
Zinc (Zn) (DIS)	<0.02	<0.02	0.09	0.04	0.04	0.04

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				138.4	127.7	125.4
Oxygen (O) (DIS) (Fld)	1.59		3.9	1.55	0.09	0.58
pH	6.7	6.7	6.5	6.4	6.6	6.6
Depth To Water Level (ft)	28.81		24.76	20.04	22.22	28.25
pH (Fld)	6.08		6.07	6.11	6.24	6.24
SC (umhos/cm at 25 C) (Fld)	1165			1488	1369	1753
SC (umhos/cm at 25 C)	1490	1460	1600	1550	1320	1660
Total Suspended Solids	15	15	215	31	146 J	75
TDS (Measured at 180 C)	1200	1200	1260	1160	972	1240
Water Temperature (C) (Fld)	11.78		11.89	11.58	11.46	11.18

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-106	EH-106	EH-106	EH-106	EH-106	EH-106
Water	SAMPLE DATE	5/23/2007	5/23/2007	5/23/2007	5/23/2007	7/24/2007	9/13/2007
	SAMPLE TIME	11:15	11:15	11:25	11:25	16:30	09:50
	LAB	EPA-R8	ELI	EPA-R8	ELI	ELI	ELI
	LAB NUMBER	8705007-24	H07050275-005	8705007-25	H07050275-006	H07070241-012	H07090135-003
	SAMPLE NUMBER	AEH-0705-219	AEH-0705-219	AEH-0705-220	AEH-0705-220	AEH-0707-111	AEH-0709-155
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	AEH-0705-219-S	EPA Split	AEH-0705-220-S	EPA Split		
	REMARKS	Split		Split	Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	180	170	180	190
Calcium (Ca) (DIS)	94	94	78	92
Chloride (Cl)	87	87	65	82
Magnesium (Mg) (DIS)	23	24	25	29
Potassium (K) (DIS)	8	8	9	12
Sodium (Na) (DIS)	221	222	221	237
Sulfate (SO4)	559	510	540	503
Total Alkalinity As CaCO3	140	140	150	150

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005		
Selenium-VI (DIS)	0.121	0.117		
Aluminum (Al) (DIS)	<0.1	<0.1		
Antimony (Sb) (DIS)	<0.005	<0.001		
Arsenic (As) (DIS)	2.94	3.363	3.03	3.542
Arsenic III (DIS)		<0.0141 J		0.208 J
Arsenic V (DIS)		3.23		3.75
Barium (Ba) (DIS)	0.021	0.021		
Beryllium (Be) (DIS)	<0.001	<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.001	0.0003	<0.001
Chromium (Cr) (DIS)	<0.002	<0.002		<0.001
Cobalt (Co) (DIS)	<0.002	<0.002		
Copper (Cu) (DIS)	<0.01	<0.004	<0.01	<0.004
Iron (Fe) (DIS)	<0.1	0.03	<0.1	0.03
Lead (Pb) (DIS)	<0.005	<0.005	<0.001	<0.005
Manganese (Mn) (DIS)	4.24	4.19	4.67	4.39
Mercury (Hg) (DIS)	0.00023	0.00023		
Nickel (Ni) (DIS)	0.0117	0.0102		
Selenium (Se) (DIS)	0.169	0.164	0.195	0.165
Silver (Ag) (DIS)	<0.0025	<0.0005		
Thallium (Tl) (DIS)	<0.0015	<0.0003		
Tin (Sn) (DIS)	<0.2	<0.2		
Vanadium (V) (DIS)	0.011	0.012		
Zinc (Zn) (DIS)	<0.04	0.02	<0.04	0.02
				0.08 UJ
				0.005
				0.005
				<0.005
				11.05
				12.08

**Nutrients: ppm unless noted**

Total Organic Carbon	<0.5	<0.5		
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**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.38		0.14	0.74
pH	7	7.1	6.6	6.4
Depth To Water Level (ft)	29.23		22.35	22.72
pH (Fld)	6.22		6.19	6.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-106	EH-106	EH-106	EH-106
Water	SAMPLE DATE	5/23/2007	5/23/2007	7/24/2007	9/13/2007
	SAMPLE TIME	11:15	11:25	16:30	09:50
	LAB	Hydrometrics	ELI	Hydrometrics	Hydrometrics
	LAB NUMBER	H07050275-005	H07050275-006	H07070241-012	H07090135-003
	SAMPLE NUMBER	AEH-0705-219	AEH-0705-220	AEH-0707-111	AEH-0709-155
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI
	DESCRIPTION	EPA Split	EPA Split		
	REMARKS		Field Duplicate		

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)	1689		1630	1658
SC (umhos/cm at 25 C)	1550	1560	1520	1580
Total Suspended Solids	<10	10	14	94
TDS (Measured at 180 C)	1180	1170	1160	1180
Water Temperature (C) (Fld)	11.8		12.27	11.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-106	EH-106	EH-106	EH-106	EH-106	EH-106
Water	SAMPLE DATE	12/10/2007	2/1/2008	2/1/2008	5/12/2008	5/12/2008	7/23/2008
	SAMPLE TIME	13:05	10:10	10:15	12:25	12:25	10:05
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07120088-006	H08020014-003	H08020014-004	H08050190-009	H08050190-009RA	H08070463-005
	SAMPLE NUMBER	AEH-0711-220	AEH-0801-141	AEH-0801-142	AEH-0805-212	AEH-0805-212	AEH-0807-183
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION				As Spec-Unpresrvd	As Spec-Presrvd	
	REMARKS			Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		170	180	170		180
Bicarbonate (HCO3) (dis)	160					
Calcium (Ca) (dis)	98	98	98	92		93
Chloride (Cl)	95	87	92	82		80
Magnesium (Mg) (dis)	29	26	26	23		23
Potassium (K) (dis)	10	9	9	9		8
Sodium (Na) (dis)	224	222	217	212		179
Sulfate (SO4)	550	541	537	500		470
Total Alkalinity As CaCO3	130	140	140	140		150

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)	<0.005			0.0896 J+		
Selenium-VI (dis)	0.323			0.113		
Aluminum (Al) (DIS)				<0.1		
Antimony (Sb) (DIS)				<0.005		
Arsenic (As) (DIS)	6.465	5.1	4.9	3.069		2.1
Arsenic III (dis)	0.132			<0.005 J	<0.005	
Arsenic V (dis)	6.32			2.96 J	2.71	
Barium (Ba) (DIS)				<0.1		
Beryllium (Be) (DIS)				<0.001		
Cadmium (Cd) (dis)	<0.001	<0.001	<0.001	<0.001		<0.001
Chromium (Cr) (DIS)				<0.001		
Cobalt (Co) (DIS)				<0.01		
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004		0.006
Iron (Fe) (DIS)	0.03	0.03	0.03	<0.02		<0.02
Lead (Pb) (dis)	<0.005	<0.005	<0.005	<0.005		<0.005
Manganese (Mn) (dis)	11.97	7.83	7.53	4.48		2.43
Mercury (Hg) (DIS)				<0.006		
Nickel (Ni) (DIS)				<0.01		
Selenium (Se) (DIS)	0.371	0.283	0.287	0.221		0.221
Silver (Ag) (DIS)				<0.005		
Thallium (Tl) (DIS)				<0.002		
Vanadium (V) (DIS)				0.01		
Zinc (Zn) (dis)	0.08	0.05	0.04	<0.01		0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.27	0.29	0.29	1.25		1.34
pH	7.1	6.5	6.5	6.3		6.7
Depth To Water Level (ft)	24.98	29.44		31.3		28.8
pH (Fld)	6.28	6.23	6.23	6.14		6.18
SC (umhos/cm at 25 C) (Fld)	1750	1742	1742	1477		1522

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-106	EH-106	EH-106	EH-106	EH-106
Water	SAMPLE DATE	12/10/2007	2/1/2008	2/1/2008	5/12/2008	7/23/2008
	SAMPLE TIME	13:05	10:10	10:15	12:25	10:05
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07120088-006	H08020014-003	H08020014-004	H08050190-009	H08070463-005
	SAMPLE NUMBER	AEH-0711-220	AEH-0801-141	AEH-0801-142	AEH-0805-212	AEH-0807-183
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION				As Spec-Unpresrvd	
	REMARKS			Field Duplicate		

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C)	1610	1490	1480	1450	1380
Total Suspended Solids	11	18	11	<10 J	<10
TDS (Measured at 180 C)	1250	1210	1210	1080	1040
Water Temperature (C) (Fld)	11.6	11.5	11.5	11.5	11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-106	EH-106	EH-106	EH-107	EH-107
Water	SAMPLE DATE	11/11/2008	2/9/2009	5/18/2009	11/17/2002	6/4/2003
	SAMPLE TIME	12:40	13:25	10:55	11:10	14:45
	LAB	ELI	ELI	ELI	TSC-SLC	TSC-SLC
	LAB NUMBER	H08110126-010	H09020078-012	H09050256-005	L020957012	L030256014
	SAMPLE NUMBER	AEH-0811-218	AEH-0902-173	AEH-0905-243	EHC-0211-232	AEH-0306-212
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	190	190	180	198	190
Calcium (Ca) (DIS)	92	94	93	211	189
Carbonate As CO3				<1	<2
Chloride (Cl)	67	71	73	104	102
Magnesium (Mg) (DIS)	27	24	23	46	42
Potassium (K) (DIS)	10	8	8	7.4	7.9
Sodium (Na) (DIS)	196	191	180	101	106
Sulfate (SO4)	530	540	500	666	612
Total Alkalinity As CaCO3	150	150	150	162	156

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005				
Selenium-VI (DIS)	0.157				
Aluminum (Al) (DIS)	<0.1		<0.1	<0.05	
Antimony (Sb) (DIS)	<0.005		<0.003		
Arsenic (As) (DIS)	6.98	4.52	1.18	<0.005	<0.005
Arsenic III (DIS)	<0.005 J			<0.005	<0.005
Arsenic V (DIS)	5.33 J			<0.005	<0.005
Barium (Ba) (DIS)	<0.1		<0.1		
Beryllium (Be) (DIS)	<0.001		<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.001	0.002 UJ	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001		<0.001		
Cobalt (Co) (DIS)	<0.01		0.0018		
Copper (Cu) (DIS)	0.005	<0.004	0.002	<0.004	0.004
Gold (Au) (DIS)			<0.01		
Iron (Fe) (DIS)	0.03	<0.02	<0.02	<0.02	0.07
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	8.18	3.13	1.94	0.3	0.4
Mercury (Hg) (DIS)	<0.006		<0.0001		
Nickel (Ni) (DIS)	0.02		<0.01		
Selenium (Se) (DIS)	0.172	0.196	0.253		
Silver (Ag) (DIS)	<0.005		<0.005		
Tellurium (Te) (DIS)			<0.1		
Thallium (Tl) (DIS)	<0.002		<0.001		
Vanadium (V) (DIS)	0.02		<0.01		
Zinc (Zn) (DIS)	0.06 J	0.02	<0.01	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.66	0.56	1.32	1.9	0.5
pH	6.9	6.5	6.7	6.9	7.4
Silicon+Silica (Si+SiO2)				24	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-106	EH-106	EH-106	EH-107	EH-107
Water	SAMPLE DATE	11/11/2008	2/9/2009	5/18/2009	11/17/2002	6/4/2003
	SAMPLE TIME	12:40	13:25	10:55	11:10	14:45
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	TSC-SLC	TSC-SLC
	LAB NUMBER	H08110126-010	H09020078-012	H09050256-005	L020957012	L030256014
	SAMPLE NUMBER	AEH-0811-218	AEH-0902-173	AEH-0905-243	EHC-0211-232	AEH-0306-212
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

Depth To Water Level (ft)	25.55	29.93	31.47	20.1	21.8
pH (Fld)	6.2	6.12	6.29	6.06	6.3
SC (umhos/cm at 25 C) (Fld)	1477	1550	1491	1610	1620
SC (umhos/cm at 25 C)	1490	1510	1480	1665	1640
Total Suspended Solids	24	<10	<10	29 J	7.8
TDS (Measured at 180 C)	1020	1080	1060	1304	1292
Salinity (G/KG) (Fld)				0.7	0.7
Turbidity (NTU) (Fld)				55	2
Water Temperature (C) (Fld)	11.6	11.7	11.5	11.8	12.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-107	EH-107	EH-107	EH-107	EH-107	EH-107
Water	SAMPLE DATE	10/28/2003	5/19/2004	10/26/2004	5/10/2005	11/8/2005	5/2/2006
	SAMPLE TIME	10:45	14:00	15:50	14:40	09:40	11:35
	LAB	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel
	LAB NUMBER	L030601018	H04050121-009	H04100182-014	C05050399-011	H05110071-002	H06050019-007
	SAMPLE NUMBER	AEH-0310-398	AEH-0405-119	AEH-0411-123	AEH-0505-110	AEH-0511-111	AEH-0605-117
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	185	190 UJ	180	181	180	190
Calcium (Ca) (DIS)	202	206	229	246	240	236
Carbonate As CO3	<2					
Chloride (Cl)	99	96	100	103	105	105
Magnesium (Mg) (DIS)	45	43	49	52	50	49
Potassium (K) (DIS)	8.1	8 UJ	7	8	8	8
Sodium (Na) (DIS)	104	121	142	147	157	145
Sulfate (SO4)	589	760	810	815	781	768
Total Alkalinity As CaCO3	152	160 UJ	150	149	150	160

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	<0.005	<0.005	0.004	<0.002	0.007
Arsenic III (dis)	<0.005	<0.001	<0.001	<0.001	<0.005	<0.005
Arsenic V (dis)	<0.005	0.0021	<0.001	0.001	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	0.03	0.03	0.03	0.08	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.2	0.11	0.17	0.11	0.13	0.12
Zinc (Zn) (DIS)	<0.05	<0.01	<0.02	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.04	0.4	0.08	0.1	0.36	0.99
pH	8.1	7	7.3	6.87	6.8	6.9
Depth To Water Level (ft)	18.6	21.1	17.91	23.85	18.55	22.03
pH (Fld)	6.14	6.12	6.65	6.54	6.53	6.33
SC (umhos/cm at 25 C) (Fld)	1630	1760	1813	1979	1945	1990
SC (umhos/cm at 25 C)	1680	1420	1680	2010	1910	1690
Total Suspended Solids	27 J	<10 J	10	<10	42	24
TDS (Measured at 180 C)	1316	1360	1410	1540	1510	1590
TDS - Calculated				1490		
Salinity (G/KG) (Fld)	0.7	0.8				
Turbidity (NTU) (Fld)	6					
Water Temperature (C) (Fld)	11.9	12.7	11.8	11.6	12.04	12.61

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-107	EH-107	EH-107	EH-107	EH-107	EH-107
Water	SAMPLE DATE	6/20/2006	6/20/2006	9/21/2006	11/14/2006	11/14/2006	3/28/2007
	SAMPLE TIME	10:55	11:05	10:10	09:40	10:00	12:50
	LAB	ELI-Hel	ELI-Hel	ELI	ELI	ELI	ELI
	LAB NUMBER	H06060201-005	H06060201-006	H06090189-001	H06110119-003	H06110119-004	H07030232-008
	SAMPLE NUMBER	AEH-0606-112	AEH-0606-113	AEH-0609-100	AEH-0611-170	AEH-0611-171	AEH-0703-119
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	190	190	190	190	200	200
Calcium (Ca) (DIS)	234	232	243	245	245	231
Chloride (Cl)	97	95	97	92	102	87
Magnesium (Mg) (DIS)	49	49	50	48	48	50
Potassium (K) (DIS)	8	8	9	8	8	8
Sodium (Na) (DIS)	153	154	160	154	152	169
Sulfate (SO4)	853	813	831	825	816	781
Total Alkalinity As CaCO3	150	150	160	160	160	160

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.005	0.004	0.004	0.008	0.01	0.007
Arsenic III (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic V (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	0.13	0.03	0.03	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.13	0.12	0.13	0.12	0.13	0.09
Selenium (Se) (DIS)						0.183
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential				120		116.6
Oxygen (O) (DIS) (Fid)	1.83		5.39	0.54		0.44
pH	6.9	6.9	6.8	6.7	6.8	6.8
Depth To Water Level (ft)	18.56		16.65	17.71		22.06
pH (Fid)	6.37		6.35	6.51		6.57
SC (umhos/cm at 25 C) (Fid)	1994		1990	2010		2022
SC (umhos/cm at 25 C)	1820	1830	1900	1830	1840	1890
Total Suspended Solids	<10	<10	<10	<10	11	14
TDS (Measured at 180 C)	1580	1590	1600	1580	1590	1580
Water Temperature (C) (Fid)	12.18		12	11.63		11.43

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-107	EH-107	EH-107	EH-107	EH-107	EH-107
Water	SAMPLE DATE	5/22/2007	7/25/2007	9/6/2007	11/13/2007	1/31/2008	5/6/2008
	SAMPLE TIME	14:30	09:45	08:20	12:55	00:00	14:00
	LAB	ELI	ELI	ELI	ELI	Hydrometrics	ELI
	LAB NUMBER	H07050262-007	H07070259-001	H07090052-001	H07110103-007	AEH-0801-133	H08050097-014
	SAMPLE NUMBER	AEH-0705-212	AEH-0707-112	AEH-0709-119	AEH-0711-113	AEH-0801-133	AEH-0805-163
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION					Samp-Under Snow	
	REMARKS					No Sample	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	200	200	200			200
Bicarbonate (HCO3) (dis)				210		
Calcium (Ca) (DIS)	216	216	239	215		231
Chloride (Cl)	97	87	87	90		80
Magnesium (Mg) (DIS)	45	46	50	45		49
Potassium (K) (DIS)	8	6	8	7		8
Sodium (Na) (DIS)	165	154	168	158		173
Sulfate (SO4)	750	776	750	757		810
Total Alkalinity As CaCO3	160	170	160	170		160

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005			<0.005		<0.005 J
Selenium-VI (DIS)	0.141			0.126 J-		0.141 J
Aluminum (Al) (DIS)						<0.1
Antimony (Sb) (DIS)						<0.005
Arsenic (As) (DIS)	0.01	0.011 UJ	0.008 UJ	0.007		0.007
Arsenic III (DIS)	<0.005			0.001		<0.005
Arsenic V (DIS)	<0.005			<0.001		<0.005
Barium (Ba) (DIS)						<0.1
Beryllium (Be) (DIS)						<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001		<0.001
Chromium (Cr) (DIS)						<0.001
Cobalt (Co) (DIS)						<0.01
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.001		<0.004
Iron (Fe) (DIS)	<0.02	0.02	0.05 UJ	0.02		<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.003		<0.005
Manganese (Mn) (DIS)	0.09	0.1	0.13	0.12		0.11
Mercury (Hg) (DIS)						<0.006
Nickel (Ni) (DIS)						<0.01
Selenium (Se) (DIS)	0.14	0.174	0.18	0.174		0.198
Silver (Ag) (DIS)						<0.005
Thallium (Tl) (DIS)						<0.002
Vanadium (V) (DIS)						<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.01		<0.01

**Nutrients: ppm unless noted**

Total Organic Carbon	<0.5					
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**Other: ppm unless noted**

No Analysis						0.0
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**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential			71.8			
Oxygen (O) (DIS) (Fid)	0.08	0.15	0.18	0.62		0.37
pH	7.4	7.2	7	6.7		6.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-107	EH-107	EH-107	EH-107	EH-107
Water	SAMPLE DATE	5/22/2007	7/25/2007	9/6/2007	11/13/2007	5/6/2008
	SAMPLE TIME	14:30	09:45	08:20	12:55	14:00
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	
	LAB NUMBER	H07050262-007	H07070259-001	H07090052-001	H07110103-007	H08050097-014
	SAMPLE NUMBER	AEH-0705-212	AEH-0707-112	AEH-0709-119	AEH-0711-113	AEH-0805-163
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

Depth To Water Level (ft)	22.42	17.97	18.37	19.59	25.03
pH (Fld)	6.59	6.54	6.42	6.54	6.47
SC (umhos/cm at 25 C) (Fld)	1986	2001	1970	1881	1937
SC (umhos/cm at 25 C)	1810	1850	1690	1870	1830
Total Suspended Solids	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	1560	1550	1560	1510	1500
Water Temperature (C) (Fld)	11.8	12.2	12.02	11.69	12

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-107	EH-107	EH-107	EH-107	EH-107
Water	SAMPLE DATE	7/16/2008	11/4/2008	2/4/2009	5/11/2009	5/11/2009
	SAMPLE TIME	10:20	13:51	13:50	12:50	12:55
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08070334-009	H08110050-001	H09020058-002	H09050178-005	H09050178-006
	SAMPLE NUMBER	AEH-0807-137	AEH-0811-166	AEH-0902-135	AEH-0905-166	AEH-0905-167
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	200	210	220	210	210
Calcium (Ca) (DIS)	213	229	215	218	217
Chloride (Cl)	80	80	74	63	63
Magnesium (Mg) (DIS)	44	48	45	47	47
Potassium (K) (DIS)	8	8	7	8	8
Sodium (Na) (DIS)	163	162	163	168	168
Sulfate (SO4)	820	920	840	840	830
Total Alkalinity As CaCO3	160	170	180	170	170

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005			
Selenium-VI (DIS)		0.187			
Aluminum (Al) (DIS)		<0.1		<0.1	<0.1
Antimony (Sb) (DIS)		<0.005		<0.003	<0.003
Arsenic (As) (DIS)	0.007	0.006	0.005	0.009	0.009
Arsenic III (DIS)		<0.005			
Arsenic V (DIS)		<0.005			
Barium (Ba) (DIS)		<0.1		<0.1	<0.1
Beryllium (Be) (DIS)		<0.001		<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.001		0.001	0.001
Cobalt (Co) (DIS)		<0.01		0.0011 UJ	0.0012 UJ
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.002	0.003
Gold (Au) (DIS)				<0.01	<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.12	0.09	0.08	0.08	0.08
Mercury (Hg) (DIS)		<0.006		<0.0001	<0.0001
Nickel (Ni) (DIS)		<0.01		<0.01	<0.01
Selenium (Se) (DIS)	0.189	0.204	0.198	0.237	0.241
Silver (Ag) (DIS)		<0.005 J-		<0.005 R	<0.005 R
Tellurium (Te) (DIS)				<0.1	<0.1
Thallium (Tl) (DIS)		<0.002		<0.001	<0.001
Vanadium (V) (DIS)		<0.01		<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.01	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.34	0.23	0.61	0.2	
pH	7.1	7.2	7	6.8	6.9
Depth To Water Level (ft)	21.37	20.68	24.03	24.66	
pH (Fld)	6.44	6.39	6.48	6.61	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-107	EH-107	EH-107	EH-107	EH-107
Water	SAMPLE DATE	7/16/2008	11/4/2008	2/4/2009	5/11/2009	5/11/2009
	SAMPLE TIME	10:20	13:51	13:50	12:50	12:55
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	ELI
	LAB NUMBER	H08070334-009	H08110050-001	H09020058-002	H09050178-005	H09050178-006
	SAMPLE NUMBER	AEH-0807-137	AEH-0811-166	AEH-0902-135	AEH-0905-166	AEH-0905-167
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					Field Duplicate

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	2012	1940	2006	1950	
SC (umhos/cm at 25 C)	1830	2020	1800	1950	1920
Total Suspended Solids	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	1540	1540	1550	1550	1560
Water Temperature (C) (Fid)	12.1	11.81	11.8	12	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-109	EH-109	EH-109	EH-109	EH-109	EH-109
Water	SAMPLE DATE	11/5/2002	11/5/2002	11/5/2002	11/5/2002	11/5/2002	11/5/2002
	SAMPLE TIME	15:25	15:45	16:10	16:30	16:50	17:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020926005	L020926006	L020926007	L020926008	L020926009	L020926010
	SAMPLE NUMBER	EHMP-0211-200	EHMP-0211-201	EHMP-0211-202	EHMP-0211-203	EHMP-0211-204	EHMP-0211-205
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	170	166	167	161	163	162	
Calcium (Ca) (DIS)	112	112	112	113	112	112	
Carbonate As CO3	<1	<1	<1	<1	<1	<1	
Chloride (Cl)	165	165	174	168	172	170	
Magnesium (Mg) (DIS)	32	32	31	32	32	32	
Potassium (K) (DIS)	14	15	15	15	14	15	
Sodium (Na) (DIS)	318	318	310	312	308	314	
Sulfate (SO4)	755	699	695	750	765	731	
Total Alkalinity As CaCO3	139	136	137	132	134	133	
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)	9.6	10	9.8	9.4	9.4	9	
Arsenic III (dis)	11	11	11	11	11	11	
Arsenic V (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Cadmium (Cd) (DIS)	0.002	0.003	0.002	0.002	0.002	0.002	
Copper (Cu) (DIS)	0.005	0.005	<0.004	<0.004	0.007	0.006	
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	16	16	16	16	16	16	
Zinc (Zn) (DIS)	1	1	1	1	1	0.9	
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	0.2	0.3	0.1	0.1	0.1	0.1	
pH	7.1	7	7	7	7	6.9	
Depth To Water Level (ft)	22.4						
pH (Fld)	6.2	6.2	6.4	6.4	6.4	6.4	
SC (umhos/cm at 25 C) (Fld)	2190	2230	2260	2240	2240	2230	
SC (umhos/cm at 25 C)	2250	2240	2230	2220	2220	2220	
TDS (Measured at 180 C)	1588	1616	1617	1599	1592	1592	
Water Temperature (C) (Fld)	10.9	11.9	12.7	12.3	12.5	11.9	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-109	EH-109	EH-109	EH-109	EH-109	EH-109
Water	SAMPLE DATE	11/5/2002	12/11/2002	12/11/2002	12/11/2002	12/11/2002	12/11/2002
	SAMPLE TIME	17:20	11:00	11:05	11:10	11:15	11:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020925002	L021012005	L021012006	L021012007	L021012008	L021012009
	SAMPLE NUMBER	EHC-0211-101	EHDM-0212-200	EHDM-0212-201	EHDM-0212-202	EHDM-0212-203	EHDM-0212-204
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	167
Calcium (Ca) (DIS)	113
Carbonate As CO3	<1
Chloride (Cl)	159
Magnesium (Mg) (DIS)	32
Potassium (K) (DIS)	14
Sodium (Na) (DIS)	316
Sulfate (SO4)	748
Total Alkalinity As CACO3	137

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05					
Arsenic (As) (DIS)	10	7.6	7.2	7.1	7	6.9
Arsenic III (dis)	12					
Arsenic V (dis)	<0.005					
Cadmium (Cd) (DIS)	0.002					
Copper (Cu) (DIS)	0.007					
Iron (Fe) (DIS)	<0.02					
Lead (Pb) (DIS)	<0.005					
Manganese (Mn) (DIS)	16					
Zinc (Zn) (DIS)	1					

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.09
pH	7.5
Silicon+Silica (Si+SiO2)	29
pH (Fld)	6.4
SC (umhos/cm at 25 C) (Fld)	2250
SC (umhos/cm at 25 C)	2250
Total Suspended Solids	8.4
TDS (Measured at 180 C)	1618
Water Temperature (C) (Fld)	12.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-109	EH-109	EH-109	EH-109	EH-109	EH-109
Water	SAMPLE DATE	12/11/2002	6/4/2003	10/28/2003	10/28/2003	5/26/2004	10/26/2004
	SAMPLE TIME	11:25	15:40	04:10	14:00	11:30	16:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	L021012010	L030256017	L030604006	L030604005	H04050191-009	H04100182-016
	SAMPLE NUMBER	EHDM-0212-205	AEH-0306-215	AEH-0310-406	AEH-0310-405	AEH-0405-187	AEH-0411-125
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		149	173	173	170	210
Calcium (Ca) (DIS)		105	114	115	110	100
Carbonate As CO3		<2	<2	<2		
Chloride (Cl)		119	140	145	110	100
Magnesium (Mg) (DIS)		30	33	33	30	28
Potassium (K) (DIS)		14	13	14	11	10
Sodium (Na) (DIS)		311	305	313	252	292
Sulfate (SO4)		787	828	743	770	546
Total Alkalinity As CaCO3		122	142	142	140	170

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	6.9	8.2	11	11	7.62	10.76
Arsenic III (dis)		7.5	12	10	<0.045	<0.06
Arsenic V (dis)		0.7	<0.02 J	0.06 J	8.7 J	11
Cadmium (Cd) (DIS)		<0.001	0.002	0.002	0.002	0.002
Copper (Cu) (DIS)		0.008	0.004	0.005	0.005	0.008
Iron (Fe) (DIS)		<0.02	<0.03	<0.03	0.02	0.03
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		15	17	17	14.78	13.64
Zinc (Zn) (DIS)		0.9	1	1	0.86	0.83

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		0.4		0.29	0.49	0.05
pH		7.1	8	8	7.2	6.9
Depth To Water Level (ft)		24.7		21.8	25.24	21.01
pH (Fld)		6.2		6.01	6.6	6.52
SC (umhos/cm at 25 C) (Fld)		2040		2220	1990	2078
SC (umhos/cm at 25 C)		2130	2250	2260	1970	1890
Total Suspended Solids		4.2	101 J	35 J	14	36
TDS (Measured at 180 C)		1533	1617	1621	1470	1500
Salinity (G/KG) (Fld)		0.9		1		
Turbidity (NTU) (Fld)		1		8		
Water Temperature (C) (Fld)		12.1		12	12.4	12

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-109	EH-109	EH-109	EH-109	EH-109	EH-109
Water	SAMPLE DATE	5/11/2005	11/8/2005	11/8/2005	5/2/2006	6/20/2006	9/25/2006
	SAMPLE TIME	11:20	13:15	13:20	13:55	12:30	10:05
	LAB	ELI-Casper	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel	ELI
	LAB NUMBER	C05050444-005	H05110071-009	H05110071-010	H06050028-002	H06060201-011	H06090211-001
	SAMPLE NUMBER	AEH-0505-117	AEH-0511-118	AEH-0511-119	AEH-0605-122	AEH-0606-118	AEH-0609-120
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	174	220	220	200	190	270
Calcium (Ca) (DIS)	114	101	101	86	90	90
Chloride (Cl)	89	84	83	75	69	85
Magnesium (Mg) (DIS)	32	27	29	24	24	24
Potassium (K) (DIS)	13	12	12	12	11	12
Sodium (Na) (DIS)	286	283	282	250	238	276
Sulfate (SO4)	763	654	757	615	611	582
Total Alkalinity As CaCO3	142	180	180	160	160	220

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	9.02	10.19	9.969	9.55	9.65	14.42
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.03	<0.005
Arsenic V (dis)	9	9	9.2	10.8	14.3	20.8
Cadmium (Cd) (DIS)	0.005	0.002	0.002	0.001	0.001	0.002
Copper (Cu) (DIS)	0.005	0.005	0.005	0.007	0.005	0.005
Iron (Fe) (DIS)	<0.02	0.05	0.03	0.04	0.03	0.04
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	14.7	12.73	12.83	11.73	11.74	12.3
Zinc (Zn) (DIS)	0.71	0.64	0.63	0.61	0.65	0.66

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.13	0.33		0.9	1.18	1.04
pH	6.8	6.8	6.8	7.1	6.9	6.8
Depth To Water Level (ft)	26.29	21.55		24.66	21.1	18.92
pH (Fld)	6.49	6.42		6.28	6.35	5.97
SC (umhos/cm at 25 C) (Fld)	2011	1928		1765	1756	1771
SC (umhos/cm at 25 C)	1990	1800	1820	1590	1600	1720
Total Suspended Solids	18 J	14	15	<10	<10	<10
TDS (Measured at 180 C)	1400	1310	1330	1230	1220	1280
TDS - Calculated	1410					
Water Temperature (C) (Fld)	12.2	12.45		12.92	12.43	13.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-109	EH-109	EH-109	EH-109	EH-109	EH-109
Water	SAMPLE DATE	11/14/2006	3/28/2007	5/10/2007	7/25/2007	7/25/2007	9/13/2007
	SAMPLE TIME	10:30	13:45	12:55	10:45	11:00	10:45
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110119-006	H07030232-011	H07050134-001	H07070259-004	H07070259-005	H07090135-005
	SAMPLE NUMBER	AEH-0611-173	AEH-0703-122	AEH-0705-126	AEH-0707-115	AEH-0707-116	AEH-0709-157
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	260	230	210	210	210	270
Calcium (Ca) (DIS)	93	76	73	73	73	82
Chloride (Cl)	97	65	57	57	57	57
Magnesium (Mg) (DIS)	23	21	20	19	19	22
Potassium (K) (DIS)	11	11	11	7	7	11
Sodium (Na) (DIS)	273	266	246	226	227	257
Sulfate (SO4)	608	497	510	482	483	456
Total Alkalinity As CaCO3	210	190	180	170	180	220

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	15.38	12.28	11.18	11.03	10.84	14.13
Arsenic III (DIS)	<0.1	<0.07	<0.0706			
Arsenic V (DIS)	17.2	12.3	10.5			
Cadmium (Cd) (DIS)	0.002	0.002	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.007 UJ	0.005	0.004	<0.004	0.004 UJ	0.005
Iron (Fe) (DIS)	0.04	<0.02	<0.02	<0.02	<0.02	0.07
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	12.42	10.44	10.02	10.12	10.22	9.14
Selenium (Se) (DIS)		0.026	0.035	0.023	0.022	0.019
Zinc (Zn) (DIS)	0.73	0.57	0.53	0.46	0.45	0.58

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	139	146.8				
Oxygen (O) (DIS) (Fid)	0.13	0.44	0.17	0.1		0.18
pH	6.7	6.9	7.1	7	7	6.8
Depth To Water Level (ft)	20.43	24.71	25.39	19.17		20.06
pH (Fid)	6.43	6.5	6.54	6.53		6.51
SC (umhos/cm at 25 C) (Fid)	1879	1680	1606	1570		1644
SC (umhos/cm at 25 C)	1760	1600	1540	1500	1490	1540
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	1300	1170	1120	1080	1080	1130
Water Temperature (C) (Fid)	12.09	11.86	12.48	12.64		12.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-109	EH-109	EH-109	EH-109	EH-109	EH-109
Water	SAMPLE DATE	12/10/2007	2/1/2008	5/13/2008	7/23/2008	11/12/2008	2/9/2009
	SAMPLE TIME	15:30	10:35	13:25	13:05	14:10	15:30
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07120088-010	H08020014-005	H08050222-017	H08070463-008	H08110140-011	H09020078-015
	SAMPLE NUMBER	AEH-0711-224	AEH-0801-143	AEH-0805-236	AEH-0807-186	AEH-0811-234	AEH-0902-176
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)		250	200	190	240	210	
Bicarbonate (HCO3) (dis)	260						
Calcium (Ca) (dis)	72	66	71	82	68	61	
Chloride (Cl)	60	52	52	51	39	42	
Magnesium (Mg) (dis)	19	17	19	22	19	17	
Potassium (K) (dis)	11	10	10	10	10	10	
Sodium (Na) (dis)	270	231	236	217	215	198	
Sulfate (SO4)	487	470	520	580	460	460	
Total Alkalinity As CaCO3	220	200	160	160	200	170	
<b>Metals (mg/L): ppm unless noted</b>							
Selenium-IV (dis)	<0.005 A		0.0217 J+		<0.005		
Selenium-VI (dis)	<0.005 A		0.0055 J		<0.005		
Aluminum (Al) (DIS)			<0.1		<0.1		
Antimony (Sb) (DIS)			<0.005		<0.005		
Arsenic (As) (DIS)	13.64	13.2	10.18	9.1	11	10.4	
Arsenic III (dis)	0.139		0.0055		0.303		
Arsenic V (dis)	13.7		9.4		10.7		
Barium (Ba) (DIS)			<0.1		<0.1		
Beryllium (Be) (DIS)			<0.001		<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.001	0.002 UJ	0.001	0.001	0.001	
Chromium (Cr) (DIS)			<0.001		<0.001		
Cobalt (Co) (DIS)			<0.01		<0.01		
Copper (Cu) (dis)	0.005	0.004 UJ	0.012	0.004	0.005 UJ	0.009	
Iron (Fe) (DIS)	0.03	0.03	0.03	0.03	<0.02	<0.02	
Lead (Pb) (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (dis)	9.79	9.34	8.94	11.22	8.07	8.2	
Mercury (Hg) (DIS)			<0.006		<0.006		
Nickel (Ni) (DIS)			0.01		<0.01		
Selenium (Se) (DIS)	0.022	0.021	0.05 J	0.063	0.011	0.022	
Silver (Ag) (DIS)			<0.005		<0.005		
Thallium (Tl) (DIS)			<0.002		<0.002		
Vanadium (V) (DIS)			0.03		0.03		
Zinc (Zn) (dis)	0.52	0.51	0.46	0.54	0.42	0.41	
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	0.18	0.15	0.16	0.11	0.23	0.27	
pH	7.4	6.8	6.6	6.9	6.9	6.8	
Depth To Water Level (ft)	22.05	25.55	26.87	23.91	22.28	25.6	
pH (Fld)	6.57	6.51	6.52	6.43	6.37	6.43	
SC (umhos/cm at 25 C) (Fld)	1672	1590	1497	1677	1404	1387	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-109	EH-109	EH-109	EH-109	EH-109	EH-109
Water	SAMPLE DATE	12/10/2007	2/1/2008	5/13/2008	7/23/2008	11/12/2008	2/9/2009
	SAMPLE TIME	15:30	10:35	13:25	13:05	14:10	15:30
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07120088-010	H08020014-005	H08050222-017	H08070463-008	H08110140-011	H09020078-015
	SAMPLE NUMBER	AEH-0711-224	AEH-0801-143	AEH-0805-236	AEH-0807-186	AEH-0811-234	AEH-0902-176
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C)	1540	1380	1430	1520	1400	1360
Total Suspended Solids	<10	<10	19 J+	<10	<10	<10
TDS (Measured at 180 C)	1140	1060	1030	1150	973	937
Water Temperature (C) (Fld)	11.5	11.9	13	13.2	12.19	11.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-109	EH-110	EH-110	EH-110	EH-110
Water	SAMPLE DATE	5/18/2009	11/17/2002	6/3/2003	10/28/2003	5/19/2004
	SAMPLE TIME	15:40	11:35	17:00	13:40	15:40
	LAB	ELI	TSC-SLC	TSC-SLC	TSC-SLC	ELI
	LAB NUMBER	H09050256-014	L020956010	L030247015	L030604004	H04050121-012
	SAMPLE NUMBER	AEH-0905-252	EHC-0211-233	AEH-0306-198	AEH-0310-404	AEH-0405-122
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	190	188	190	188	200
Calcium (Ca) (DIS)	70	192	195	215	228
Carbonate As CO3		<1	<2	<2	
Chloride (Cl)	38	101	104	98	100
Magnesium (Mg) (DIS)	19	40	44	45	48
Potassium (K) (DIS)	10	11	11	11	13
Sodium (Na) (DIS)	192	168	165	171	179
Sulfate (SO4)	510	724	682	817	840
Total Alkalinity As CaCO3	160	154	156	154	170

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.05			
Antimony (Sb) (DIS)	<0.003				
Arsenic (As) (DIS)	8.32	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)		<0.005	<0.005	<0.005	<0.001
Arsenic V (dis)		<0.005	<0.005	<0.005	0.0011
Barium (Ba) (DIS)	<0.1				
Beryllium (Be) (DIS)	<0.001				
Cadmium (Cd) (DIS)	0.001 UJ	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001				
Cobalt (Co) (DIS)	0.0012				
Copper (Cu) (DIS)	0.004	0.005 UJ	0.007	<0.004	<0.004
Gold (Au) (DIS)	0.05				
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.03	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	8.8	1.2	2.3	1.8	2.85
Mercury (Hg) (DIS)	<0.0001				
Nickel (Ni) (DIS)	0.01				
Selenium (Se) (DIS)	0.051				
Silver (Ag) (DIS)	<0.005				
Tellurium (Te) (DIS)	<0.1				
Thallium (Tl) (DIS)	<0.001				
Vanadium (V) (DIS)	0.02				
Zinc (Zn) (DIS)	0.43	<0.02	<0.02	<0.05	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.1	0.3	0.4	0.3	0.14
pH	7	6.9	7.1	7.5	7.1
Silicon+Silica (Si+SiO2)		25			
Depth To Water Level (ft)	26.85	18.5	19.9	17.62	20.43
pH (Fld)	6.61	6.1	6.5	6.21	6.15

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-109	EH-110	EH-110	EH-110	EH-110
Water	SAMPLE DATE	5/18/2009	11/17/2002	6/3/2003	10/28/2003	5/19/2004
	SAMPLE TIME	15:40	11:35	17:00	13:40	15:40
	LAB	Hydrometrics	TSC-SLC	TSC-SLC	TSC-SLC	ASARCO
	LAB NUMBER	H09050256-014	L020956010	L030247015	L030604004	H04050121-012
	SAMPLE NUMBER	AEH-0905-252	EHC-0211-233	AEH-0306-198	AEH-0310-404	AEH-0405-122
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)	1427	1760	1990	1950	2120
SC (umhos/cm at 25 C)	1420	1802	1902	1991	1690
Total Suspended Solids	<10	66	8.5	21 J	19 J
TDS (Measured at 180 C)	1000	1372	1462	1562	1640
Salinity (G/KG) (Fld)		0.8	0.9	0.9	0.1
Turbidity (NTU) (Fld)		62	1	12	
Water Temperature (C) (Fld)	12.6	11.9	12.3	12.4	12.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-110	EH-110	EH-110	EH-110	EH-110	EH-110
Water	SAMPLE DATE	10/26/2004	5/11/2005	5/11/2005	11/8/2005	5/2/2006	6/20/2006
	SAMPLE TIME	14:50	09:45	10:10	12:45	13:30	12:00
	LAB	ELI	ELI-Casper	ELI-Casper	ELI-Hel	ELI-Hel	ELI-Hel
	LAB NUMBER	H04100182-012	C05050444-001	C05050444-002	H05110071-008	H06050028-001	H06060201-010
	SAMPLE NUMBER	AEH-0411-121	AEH-0505-113	AEH-0505-114	AEH-0511-117	AEH-0605-121	AEH-0606-117
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	180	209	208	200	220	210
Calcium (Ca) (DIS)	277	262	274	257	214	219
Chloride (Cl)	100	94	96	84	82	73
Magnesium (Mg) (DIS)	56	55	55	51	45	43
Potassium (K) (DIS)	12	12	12	12	12	10
Sodium (Na) (DIS)	217	196	196	215	192	188
Sulfate (SO4)	866	952	956	1080	835	871
Total Alkalinity As CaCO3	150	171	171	160	180	180

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	0.003	0.003	<0.002	0.002	0.004
Arsenic III (dis)	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	0.002
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	0.005	<0.004
Iron (Fe) (DIS)	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	1.06	2.7	2.74	1.31	1.84	1.23
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.07	0.14		0.53	0.9	2.93
pH	7.4	6.92	6.9	7	7.2	7.1
Depth To Water Level (ft)	16.87	21.35		17.3	19.94	16.68
pH (Fld)	6.73	6.43		6.63	6.33	6.54
SC (umhos/cm at 25 C) (Fld)	2274	2249		2200	2093	2020
SC (umhos/cm at 25 C)	2080	2220	2220	2140	1780	1880
Total Suspended Solids	12	<10 J	25 J	63	67	<10
TDS (Measured at 180 C)	1820	1750	1700	1750	1590	1590
TDS - Calculated		1700	1720			
Water Temperature (C) (Fld)	12.1	12.4		12.61	12.82	12.33

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-110	EH-110	EH-110	EH-110	EH-110	EH-110
Water	SAMPLE DATE	9/21/2006	11/14/2006	3/28/2007	5/10/2007	5/10/2007	7/25/2007
	SAMPLE TIME	11:05	11:20	14:20	13:25	13:35	14:15
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06090189-002	H06110119-008	H07030232-012	H07050134-002	H07050134-003	H07070259-009
	SAMPLE NUMBER	AEH-0609-101	AEH-0611-175	AEH-0703-123	AEH-0705-127	AEH-0705-128	AEH-0707-120
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	200	210	230	230	230	200
Calcium (Ca) (DIS)	219	211	193	188	194	242
Chloride (Cl)	67	70	80	77	77	70
Magnesium (Mg) (DIS)	41	37	41	39	39	45
Potassium (K) (DIS)	12	10	11	11	11	9
Sodium (Na) (DIS)	212	182	195	190	190	219
Sulfate (SO4)	856	794	703	799	721	967
Total Alkalinity As CaCO3	170	170	190	190	180	170

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.007	0.008	0.006	0.005	0.005	0.008 UJ
Arsenic III (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	
Arsenic V (DIS)	<0.005	0.008	<0.005	<0.005	<0.005	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.04	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.05	0.04	1.46	1.63	1.62	0.05
Selenium (Se) (DIS)			0.156	0.169	0.175	0.404
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential		111	144.3			
Oxygen (O) (DIS) (Fid)	5.18	0.08	0.48	0.07		0.09
pH	6.9	7.1	7.1	7.1	7.1	7.1
Depth To Water Level (ft)	15.17	16.6	20.2	20.78		15.09
pH (Fid)	6.65	6.67	6.66	6.68		6.75
SC (umhos/cm at 25 C) (Fid)	2040	1969	1946	1927		2301
SC (umhos/cm at 25 C)	1960	1820	1830	1810	1800	2110
Total Suspended Solids	<10	13	<10	<10	11	<10
TDS (Measured at 180 C)	1580	1500	1460	1450	1480	1810
Water Temperature (C) (Fid)	12.4	11.94	12.3	12.28		12.75

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-110	EH-110	EH-110	EH-110	EH-110	EH-110
Water	SAMPLE DATE	9/6/2007	11/13/2007	1/30/2008	5/1/2008	7/16/2008	11/4/2008
	SAMPLE TIME	10:20	14:10	13:30	15:10	14:05	14:30
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07090052-004	H07110103-009	H08010227-008	H08050028-002	H08070357-001	H08110050-002
	SAMPLE NUMBER	AEH-0709-122	AEH-0711-115	AEH-0801-117	AEH-0805-132	AEH-0807-144	AEH-0811-167
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	210		240	230	210	230
Bicarbonate (HCO3) (dis)		220				
Calcium (Ca) (DIS)	268	207	205	234	265	256
Chloride (Cl)	65	85	85	70	65	65
Magnesium (Mg) (DIS)	51	42	42	48	55	52
Potassium (K) (DIS)	12	11	11	11	8	13
Sodium (Na) (DIS)	229	191	196	192	209	204
Sulfate (SO4)	918	858	795	890	1000	1100
Total Alkalinity As CaCO3	170	180	190	180	180	190

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005		<0.005 J		<0.005
Selenium-VI (DIS)		0.188 J-		0.215 J		0.326
Aluminum (Al) (DIS)				<0.1		<0.1
Antimony (Sb) (DIS)				<0.005		<0.005
Arsenic (As) (DIS)	0.008 UJ	0.006	0.007	0.008	0.005	0.008
Arsenic III (DIS)		<0.001		<0.005		<0.005
Arsenic V (DIS)		<0.001		<0.005		<0.005
Barium (Ba) (DIS)				<0.1		<0.1
Beryllium (Be) (DIS)				<0.001		<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)				<0.001		<0.001
Cobalt (Co) (DIS)				<0.01		<0.01
Copper (Cu) (DIS)	<0.004	0.003	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.02 UJ	<0.01	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.003	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.02	1.2	1.57	2.09	2.1	1.47
Mercury (Hg) (DIS)				<0.006		<0.006
Nickel (Ni) (DIS)				<0.01		<0.01
Selenium (Se) (DIS)	0.432	0.244	0.234	0.281	0.4	0.363
Silver (Ag) (DIS)				<0.005		<0.005 J-
Thallium (Tl) (DIS)				<0.002		<0.002
Vanadium (V) (DIS)				<0.01		<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	135.3					
Oxygen (O) (DIS) (Fld)	0.07	0.57	0.2	0.24	0.2	0.27
pH	7.1	6.9	7.2	7.1	7.1	7.6
Depth To Water Level (ft)	15.8	17.85	20.82	22.1	19.48	17.94
pH (Fld)	6.61	6.65	6.71	6.6	6.54	6.48

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-110	EH-110	EH-110	EH-110	EH-110	EH-110
Water	SAMPLE DATE	9/6/2007	11/13/2007	1/30/2008	5/1/2008	7/16/2008	11/4/2008
	SAMPLE TIME	10:20	14:10	13:30	15:10	14:05	14:30
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H07090052-004	H07110103-009	H08010227-008	H08050028-002	H08070357-001	H08110050-002
	SAMPLE NUMBER	AEH-0709-122	AEH-0711-115	AEH-0801-117	AEH-0805-132	AEH-0807-144	AEH-0811-167
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)	2312	1949	2085	2114	2335	2214
SC (umhos/cm at 25 C)	1940	1930	1930	1940	2110	2300
Total Suspended Solids	<10	28 J	<10	<10	<10	<10
TDS (Measured at 180 C)	1840	1550	1560	1630	1750	1800
Water Temperature (C) (Fld)	12.29	12.02	12.3	12.3	12.1	11.77

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-110	EH-110	EH-111	EH-111	EH-111
Water	SAMPLE DATE	2/4/2009	5/11/2009	11/11/2002	11/11/2002	11/11/2002
	SAMPLE TIME	15:25	16:05	15:35	15:55	16:10
	LAB	ELI	ELI	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H09020058-007	H09050178-013	L020941007	L020941008	L020941009
	SAMPLE NUMBER	AEH-0902-140	AEH-0905-174	EHMP-0211-400	EHMP-0211-401	EHMP-0211-402
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	240	230	144	150	148
Calcium (Ca) (DIS)	219	235	131	123	119
Carbonate As CO3			<1	<1	<1
Chloride (Cl)	63	54	131	129	119
Magnesium (Mg) (DIS)	44	50	29	28	27
Potassium (K) (DIS)	11	12	12	11	11
Sodium (Na) (DIS)	193	190	262	248	241
Sulfate (SO4)	920	950	766	732	682
Total Alkalinity As CaCO3	190	190	118	123	121

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		<0.1			
Antimony (Sb) (DIS)		<0.003			
Arsenic (As) (DIS)	0.006	0.009	0.8	0.5	0.4
Arsenic III (dis)			0.5	0.3	0.3
Arsenic V (dis)			0.3	0.2	0.2
Barium (Ba) (DIS)		<0.1			
Beryllium (Be) (DIS)		<0.001			
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.001			
Cobalt (Co) (DIS)		0.0011 UJ			
Copper (Cu) (DIS)	<0.004	0.005	0.006	0.005	0.005
Gold (Au) (DIS)		<0.02			
Iron (Fe) (DIS)	<0.02	<0.02	0.02	0.03	0.03
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	1.79	2.28	6.2	5.1	4.2
Mercury (Hg) (DIS)		<0.0001			
Nickel (Ni) (DIS)		<0.01			
Selenium (Se) (DIS)	0.276	0.349			
Silver (Ag) (DIS)		<0.005			
Tellurium (Te) (DIS)		<0.1			
Thallium (Tl) (DIS)		<0.001			
Vanadium (V) (DIS)		<0.01			
Zinc (Zn) (DIS)	<0.02	<0.01	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.66	0.22	0.6	0.5	0.6
pH	7.1	6.9	6.8	6.6	6.6
Depth To Water Level (ft)	20.69	21.96	25.4		
pH (Fld)	6.54	6.69	6.1	6.3	6.2
SC (umhos/cm at 25 C) (Fld)	2141	2156	1951	1858	1762

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-110	EH-110	EH-111	EH-111	EH-111
Water	SAMPLE DATE	2/4/2009	5/11/2009	11/11/2002	11/11/2002	11/11/2002
	SAMPLE TIME	15:25	16:05	15:35	15:55	16:10
	LAB	ELI	ELI	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H09020058-007	H09050178-013	L020941007	L020941008	L020941009
	SAMPLE NUMBER	AEH-0902-140	AEH-0905-174	EHMP-0211-400	EHMP-0211-401	EHMP-0211-402
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C)	1910	2140	2020	1873	1805
Total Suspended Solids	<10	<10			
TDS (Measured at 180 C)	1660	1690	1477	1348	1314
Water Temperature (C) (Fid)	12.2	12.4	11	11.6	11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-111	EH-111	EH-111	EH-111	EH-111	EH-111
Water	SAMPLE DATE	11/11/2002	11/11/2002	6/4/2003	10/28/2003	5/18/2004	10/27/2004
	SAMPLE TIME	16:25	16:40	12:00	09:00	10:30	11:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	L020941010	L020940002	L030256010	L030601014	H04050109-009	H04100192-008
	SAMPLE NUMBER	EHMP-0211-403	EHC-0211-227	AEH-0306-208	AEH-0310-394	AEH-0405-109	AEH-0411-133
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	145	140	142	137	160	160
Calcium (Ca) (DIS)	120	120	123	123	125	113
Carbonate As CO3	<1	<1	<2	<2		
Chloride (Cl)	118	118	137	147	120	100
Magnesium (Mg) (DIS)	28	28	33	33	30	30
Potassium (K) (DIS)	11	9.5	11	12	14	10
Sodium (Na) (DIS)	240	223	254	277	277	254
Sulfate (SO4)	708	612	761	784	760	671
Total Alkalinity As CaCO3	119	115	116	112	130	130

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		<0.05				
Arsenic (As) (DIS)	0.4	0.3	0.7	0.8	1.154	1.233
Arsenic III (dis)	0.2	0.4	0.9	0.9	0.0023	<0.006
Arsenic V (dis)	0.2	0.04	<0.005	<0.005	1.1	1.2
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	0.001	<0.001
Copper (Cu) (DIS)	0.005	0.005	0.007	0.007	<0.004	0.004
Iron (Fe) (DIS)	0.02	<0.02	<0.02	<0.02	<0.02	0.14
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.8	3.6	5.3	5.4	7.53	5.68
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.05	<0.01	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.7	0.7	0.4	0.0	0.63	0.35
pH	6.8	7.4	6.9	7.7	6.7	6.6
Silicon+Silica (Si+SiO2)		39				
Depth To Water Level (ft)		25.4	29.7	23.69	29.23	23.17
pH (Fld)	6.3	6.4	6.1	5.84	5.75	6.36
SC (umhos/cm at 25 C) (Fld)	1768	1720	1940	2100	1970	1957
SC (umhos/cm at 25 C)	1793	1796	1975	2150	1870	1730
Total Suspended Solids		118	11	103 J	41	24
TDS (Measured at 180 C)	1308	1305	1421	1601	1500	1390
Salinity (G/KG) (Fld)			0.9	0.9	0.9	
Turbidity (NTU) (Fld)			4	51		
Water Temperature (C) (Fld)	11.5	11.7	11.2	11.2	11.1	10.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-111	EH-111	EH-111	EH-111	EH-111	EH-111
Water	SAMPLE DATE	5/11/2005	11/8/2005	5/2/2006	6/19/2006	9/22/2006	9/22/2006
	SAMPLE TIME	12:45	11:20	09:25	15:10	13:25	13:35
	LAB	ELI-Casper	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI
	LAB NUMBER	C05050444-008	H05110071-006	H06050019-001	H06060187-008	H06090199-004	H06090199-005
	SAMPLE NUMBER	AEH-0505-120	AEH-0511-115	AEH-0605-111	AEH-0606-107	AEH-0609-113	AEH-0609-114
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	175	160	190	180	190	200
Calcium (Ca) (DIS)	120	119	104	104	95	98
Chloride (Cl)	108	105	107	95	90	92
Magnesium (Mg) (DIS)	32	30	27	27	23	24
Potassium (K) (DIS)	11	11	10	15	10	10
Sodium (Na) (DIS)	274	273	249	282	263	264
Sulfate (SO4)	704	771	596	613	619	594
Total Alkalinity As CaCO3	144	130	150	140	160	160

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.61	1.588	1.916	1.594	1.72	1.766
Arsenic III (dis)	<0.005	<0.005	<0.02	<0.006	<0.005	<0.005
Arsenic V (dis)	1.4	1.3	1.1	2.8	2.3 J	7.2 J
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.004	<0.004	0.005	0.006 UJ	0.006	<0.004
Iron (Fe) (DIS)	<0.02	0.03	0.04	<0.02	0.03	0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	5.71	6.24	5.57	5.53	4.42	4.89
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					146.3	
Oxygen (O) (DIS) (Fld)	0.27	0.96	2.1		3.35	
pH	6.6	6.7	6.7	6.9	6.6	6.6
Depth To Water Level (ft)	31.56	24.52	28.71	24.77	18.64	
pH (Fld)	6.46	6.24	5.96	6.17	6.3	
SC (umhos/cm at 25 C) (Fld)	1964	1857	1839	1769	1637	
SC (umhos/cm at 25 C)	1940	1870	1630	1770	1710	1710
Total Suspended Solids	15 J	44	46	16	<10	<10
TDS (Measured at 180 C)	1320	1390	1310	1350	1280	1270
TDS - Calculated	1380					
Water Temperature (C) (Fld)	11.1	11.48	11.69	11.8	11.56	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-111	EH-111	EH-111	EH-111	EH-111	EH-111
Water	SAMPLE DATE	11/14/2006	3/27/2007	5/8/2007	5/8/2007	7/24/2007	9/12/2007
	SAMPLE TIME	08:35	12:00	13:00	13:00	12:30	14:15
	LAB	ELI	ELI	EPA-R8	ELI	ELI	ELI
	LAB NUMBER	H06110119-001	H07030213-009	8705007-08	H07050103-006	H07070241-007	H07090115-009
	SAMPLE NUMBER	AEH-0611-168	AEH-0703-108	AEH-0705-105	AEH-0705-105	AEH-0707-106	AEH-0709-149
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	EPA Split		AEH-0705-105-S	EPA Split		
	REMARKS			Split			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	190	180		190	190	190
Calcium (Ca) (DIS)	99	101		93	100	92
Chloride (Cl)	100	102		95	90	87
Magnesium (Mg) (DIS)	24	25		23	25	24
Potassium (K) (DIS)	10	9		10	7	12
Sodium (Na) (DIS)	246	260		261	238	261
Sulfate (SO4)	605	557		581	591	532
Total Alkalinity As CaCO3	160	150		150	150	160

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)				<0.1		
Antimony (Sb) (DIS)				<0.001		
Arsenic (As) (DIS)	1.727	1.805		1.9	2.088	1.818
Arsenic III (DIS)	<0.03	<0.0282		<0.001		
Arsenic V (DIS)	2.2	2		2.29		
Barium (Ba) (DIS)				0.019		
Beryllium (Be) (DIS)				<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.001		0.0002	<0.001	<0.001
Chromium (Cr) (DIS)				<0.002		
Cobalt (Co) (DIS)				0.002		
Copper (Cu) (DIS)	0.005 UJ	<0.004		<0.01	<0.004	<0.004
Iron (Fe) (DIS)	0.03	<0.02		<0.1	0.03	<0.02
Lead (Pb) (DIS)	<0.005	<0.005		<0.001	<0.005	<0.005
Manganese (Mn) (DIS)	5.22	5.17		5.53	5.72	3.92
Mercury (Hg) (DIS)				0.0001		
Nickel (Ni) (DIS)				0.0066		
Selenium (Se) (DIS)		0.224		0.223	0.186	0.116
Silver (Ag) (DIS)				<0.0005		
Thallium (Tl) (DIS)				0.0003		
Tin (Sn) (DIS)				<0.2		
Vanadium (V) (DIS)				0.012		
Zinc (Zn) (DIS)	<0.02	<0.02		<0.04	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	208	184.2				
Oxygen (O) (DIS) (Fld)	0.1	0.65		0.46	0.13	0.21
pH	6.6	6.7		6.7	6.7	6.7
Depth To Water Level (ft)	20.85	27.06		28.54	22.57	22.33
pH (Fld)	6.29	6.27		6.26	6.3	6.31
SC (umhos/cm at 25 C) (Fld)	1798	1666		1840	1789	1717
SC (umhos/cm at 25 C)	1680	1760		1710	1690	1630

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-111	EH-111	EH-111	EH-111	EH-111
Water	SAMPLE DATE	11/14/2006	3/27/2007	5/8/2007	7/24/2007	9/12/2007
	SAMPLE TIME	08:35	12:00	13:00	12:30	14:15
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110119-001	H07030213-009	H07050103-006	H07070241-007	H07090115-009
	SAMPLE NUMBER	AEH-0611-168	AEH-0703-108	AEH-0705-105	AEH-0707-106	AEH-0709-149
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	EPA Split		EPA Split		
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

Total Suspended Solids	34	19	20	<10	<10
TDS (Measured at 180 C)	1280	1270	1270	1290	1190
Water Temperature (C) (Fid)	10.98	11.23	12.2	11.54	12

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-111	EH-111	EH-111	EH-111	EH-111	EH-111	
Water	SAMPLE DATE	9/12/2007	12/10/2007	2/1/2008	5/12/2008	5/12/2008	7/23/2008	
	SAMPLE TIME	14:30	11:45	09:45	10:30	10:50	09:35	
	LAB	ELI	ELI	ELI	ELI	ELI	ELI	
	LAB NUMBER	H07090115-010	H07120088-005	H08020014-002	H08050190-005	H08050190-006	H08070463-002	
	SAMPLE NUMBER	AEH-0709-150	AEH-0711-219	AEH-0801-140	AEH-0805-208	AEH-0805-209	AEH-0807-180	
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
	GROUP	RI	RI	RI	RI	RI	RI	
	DESCRIPTION							
	REMARKS	Field Duplicate				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	190		200	210	210	190
Bicarbonate (HCO3) (dis)		210				
Calcium (Ca) (DIS)	95	98	96	97	96	88
Chloride (Cl)	80	97	92	69	69	70
Magnesium (Mg) (DIS)	25	25	24	25	25	21
Potassium (K) (DIS)	12	10	9	10	11	9
Sodium (Na) (DIS)	255	239	239	235	238	225
Sulfate (SO4)	521	569	560	560	560	600
Total Alkalinity As CaCO3	160	170	160	170	170	150

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)		<0.005		0.0431 J+	0.0433 J+	
Selenium-VI (dis)		0.205		0.0538 J	0.0538 J	
Aluminum (Al) (DIS)				<0.1	<0.1	
Antimony (Sb) (DIS)				<0.005	<0.005	
Arsenic (As) (DIS)	2.438	2.764	2.6	2.932	3.008	2.4
Arsenic III (dis)		0.0765		<0.005	0.0052	
Arsenic V (dis)		2.53		2.9	2.89	
Barium (Ba) (DIS)				<0.1	<0.1	
Beryllium (Be) (DIS)				<0.001	<0.001	
Cadmium (Cd) (DIS)	<0.001	0.001	<0.001	0.001	0.002	<0.001
Chromium (Cr) (DIS)				<0.001	<0.001	
Cobalt (Co) (DIS)				<0.01	<0.01	
Copper (Cu) (DIS)	<0.004	0.004	<0.004	0.004	<0.004	0.007
Iron (Fe) (DIS)	0.03 UJ	0.02	0.03	<0.02	<0.02	0.03
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	4.68	5.92	5.25	5.35	5.39	4.62
Mercury (Hg) (DIS)				<0.006	<0.006	
Nickel (Ni) (DIS)				<0.01	<0.01	
Selenium (Se) (DIS)	0.135	0.237	0.263	0.119	0.118	0.106
Silver (Ag) (DIS)				<0.005	<0.005	
Thallium (Tl) (DIS)				<0.002	<0.002	
Vanadium (V) (DIS)				0.02	0.01	
Zinc (Zn) (DIS)	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		0.57	0.63	0.78		0.3
pH	6.6	7.2	6.6	6.6	6.5	6.9
Depth To Water Level (ft)		24.05	28.81	31.45		28.68
pH (Fld)		6.49	6.43	6.32		6.18
SC (umhos/cm at 25 C) (Fld)		1750	1747	1579		1738

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-111	EH-111	EH-111	EH-111	EH-111	EH-111
Water	SAMPLE DATE	9/12/2007	12/10/2007	2/1/2008	5/12/2008	5/12/2008	7/23/2008
	SAMPLE TIME	14:30	11:45	09:45	10:30	10:50	09:35
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07090115-010	H07120088-005	H08020014-002	H08050190-005	H08050190-006	H08070463-002
	SAMPLE NUMBER	AEH-0709-150	AEH-0711-219	AEH-0801-140	AEH-0805-208	AEH-0805-209	AEH-0807-180
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate				Field Duplicate	

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C)	1630	1630	1510	1550	1570	1560
Total Suspended Solids	<10	16	<10	134 J	85 J	<10
TDS (Measured at 180 C)	1180	1230	1240	1160	1140	1200
Water Temperature (C) (Fld)		9.7	10.8	11.4		11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-111	EH-111	EH-111	EH-111	EH-111
Water	SAMPLE DATE	7/23/2008	11/11/2008	2/9/2009	5/15/2009	5/15/2009
	SAMPLE TIME	09:45	12:15	13:00	12:33	12:35
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08070463-003	H08110126-009	H09020078-010	H09050242-004	H09050242-005
	SAMPLE NUMBER	AEH-0807-181	AEH-0811-217	AEH-0902-171	AEH-0905-230	AEH-0905-231
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Field Duplicate				Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	190	200	210	200	200
Calcium (Ca) (DIS)	87	97	83	63	63
Chloride (Cl)	71	64	58	43	44
Magnesium (Mg) (DIS)	21	25	22	17	17
Potassium (K) (DIS)	9	10	10	9	9
Sodium (Na) (DIS)	232	230	214	215	208
Sulfate (SO4)	600	580	550	510	520
Total Alkalinity As CaCO3	150	160	170	160	160

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005			
Selenium-VI (DIS)		0.121			
Aluminum (Al) (DIS)		<0.1		<0.1	<0.1
Antimony (Sb) (DIS)		<0.005		<0.003	<0.003
Arsenic (As) (DIS)	2.4	2.91	3.28	4.05	4.05
Arsenic III (DIS)		<0.005 J			
Arsenic V (DIS)		2.2 J			
Barium (Ba) (DIS)		<0.1		<0.1	<0.1
Beryllium (Be) (DIS)		<0.001		<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	0.001	0.001
Chromium (Cr) (DIS)		<0.001		<0.001	<0.001
Cobalt (Co) (DIS)		<0.01		0.0019 UJ	0.0019 UJ
Copper (Cu) (DIS)	0.007	<0.004	<0.004	0.005	0.005
Gold (Au) (DIS)				0.02	0.02
Iron (Fe) (DIS)	0.03	0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	4.56	3.95	4.05	4.59	4.52
Mercury (Hg) (DIS)		<0.006		<0.0001	<0.0001
Nickel (Ni) (DIS)		<0.01		<0.01	<0.01
Selenium (Se) (DIS)	0.107	0.121	0.112	0.059	0.06
Silver (Ag) (DIS)		<0.005		<0.005 J	<0.005 J
Tellurium (Te) (DIS)				<0.1	<0.1
Thallium (Tl) (DIS)		<0.002		<0.001	<0.001
Vanadium (V) (DIS)		0.01		0.02	0.02
Zinc (Zn) (DIS)	<0.01	<0.02 J	<0.02	<0.01	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		0.97	0.7	0.3	
pH	6.8	7.1	6.6	6.9	7
Depth To Water Level (ft)		25.28	29.88	32.15	
pH (Fld)		6.33	6.26	6.5	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-111	EH-111	EH-111	EH-111	EH-111
Water	SAMPLE DATE	7/23/2008	11/11/2008	2/9/2009	5/15/2009	5/15/2009
	SAMPLE TIME	09:45	12:15	13:00	12:33	12:35
	LAB	ELI	Hydrometrics	Hydrometrics	Hydrometrics	ELI
	LAB NUMBER	H08070463-003	H08110126-009	H09020078-010	H09050242-004	H09050242-005
	SAMPLE NUMBER	AEH-0807-181	AEH-0811-217	AEH-0902-171	AEH-0905-230	AEH-0905-231
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Field Duplicate				Field Duplicate

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)		1569	1565	1460	
SC (umhos/cm at 25 C)	1580	1600	1540	1460	1460
Total Suspended Solids	<10	<10	37	36	33
TDS (Measured at 180 C)	1200	1110	1090	1040	1030
Water Temperature (C) (Fid)		11.2	11.3	11.7	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-112	EH-112	EH-112	EH-112	EH-112	EH-112
Water	SAMPLE DATE	11/17/2002	6/4/2003	10/28/2003	5/18/2004	10/27/2004	5/11/2005
	SAMPLE TIME	10:40	12:30	09:20	11:00	11:50	13:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper
	LAB NUMBER	L020957011	L030256011	L030601015	H04050109-010	H04100192-009	C05050444-009
	SAMPLE NUMBER	EHC-0211-228	AEH-0306-209	AEH-0310-395	AEH-0405-110	AEH-0411-134	AEH-0505-121
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	159	173	151	200	150	193
Calcium (Ca) (DIS)	128	175	118	230	117	238
Carbonate As CO3	<1	<2	<2			
Chloride (Cl)	79	92	98	100	100	103
Magnesium (Mg) (DIS)	29	38	29	48	28	52
Potassium (K) (DIS)	6.6	6.5	7.3	7	7	7
Sodium (Na) (DIS)	107	111	149	77	175	70
Sulfate (SO4)	479	516	487	590	477	612
Total Alkalinity As CaCO3	130	142	124	160	120	158

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05					
Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	0.005
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005
Arsenic V (dis)	<0.005	<0.005	<0.005	0.0047	<0.001	0.006 UJ
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	0.005	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	0.08	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.05	<0.01	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.2	2.9	4.07		3.41	0.17
Oxygen (O) (DIS) (Fld) (D)				0.72		
pH	6.8	7.1	7.5	6.8	6.6	6.8
Silicon+Silica (Si+SiO2)	32					
Depth To Water Level (ft)	23.9	27	22.97	27.18	21.9	31.16
pH (Fld)	5.9	6.1	5.88		6.45	6.51
pH (Fld) (D)				5.93		
SC (umhos/cm at 25 C) (Fld)	1270	1520	1440		1575	1638
SC (umhos/cm at 25 C) (Fld) (D)				1550		
SC (umhos/cm at 25 C)	1308	1544	1485	1500	1410	1610
Total Suspended Solids	134	32	106 J	47	206	28 J
TDS (Measured at 180 C)	962	1162	1094	1270	1140	1180
TDS - Calculated						1200
Salinity (G/KG) (Fld)	0.5	0.6	0.6	0.7		
Turbidity (NTU) (Fld)	395	8	120			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-112	EH-112	EH-112	EH-112	EH-112	EH-112
Water	SAMPLE DATE	11/17/2002	6/4/2003	10/28/2003	5/18/2004	10/27/2004	5/11/2005
	SAMPLE TIME	10:40	12:30	09:20	11:00	11:50	13:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ASARCO	ASARCO	ELI-Casper
	LAB NUMBER	L020957011	L030256011	L030601015	H04050109-010	H04100192-009	C05050444-009
	SAMPLE NUMBER	EHC-0211-228	AEH-0306-209	AEH-0310-395	AEH-0405-110	AEH-0411-134	AEH-0505-121
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fld-Lab: ppm unless noted**

Water Temperature (C) (Fld)	11.4	11.8	11.5		11.5	11.6
Water Temperature (C) (Fld) (D)				11.4		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-112	EH-112	EH-112	EH-112	EH-112	EH-112
Water	SAMPLE DATE	11/8/2005	5/2/2006	6/20/2006	9/22/2006	11/13/2006	11/13/2006
	SAMPLE TIME	12:00	09:45	09:00	11:05	13:30	13:45
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	H05110071-007	H06050019-002	H06060201-001	H06090199-002	H06110099-007	H06110099-008
	SAMPLE NUMBER	AEH-0511-116	AEH-0605-112	AEH-0606-108	AEH-0609-111	AEH-0611-165	AEH-0611-166
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION					EPA Split	EPA Split
	REMARKS						Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	150	190	170	160	160	160
Calcium (Ca) (DIS)	137	197	127	136	140	135
Chloride (Cl)	87	110	100	102	100	97
Magnesium (Mg) (DIS)	31	43	28	30	29	27
Potassium (K) (DIS)	6	6	7	7	6	7
Sodium (Na) (DIS)	147	101	205	175	158	165
Sulfate (SO4)	498	569	604	566	551	542
Total Alkalinity As CaCO3	120	150	140	130	130	130

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.005	0.01	0.002	0.006	0.006	0.007
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	<0.005	<0.005	<0.005	<0.005 J	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	0.33 J	<0.02 J
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				195.2	138.6	
Oxygen (O) (DIS) (Fld)	6.63	1.89	4.45 A	6.11	6.12	
pH	6.7	6.7	6.7	6.7	6.8	6.7
Depth To Water Level (ft)	23.46	27.28	23.11	18.17	19.78	
pH (Fld)	6.34	6.2	5.97	6.23	6.26	
SC (umhos/cm at 25 C) (Fld)	1405	1626	1695	1507	1543	
SC (umhos/cm at 25 C)	1360	1590	1570	1540	1490	1470
Total Suspended Solids	503	169	64	12	108 J	134 J
TDS (Measured at 180 C)	961	1250	1200	1200	1130	1170
Water Temperature (C) (Fld)	11.67	12.14	11.82	12.04	11.6	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-112	EH-112	EH-112	EH-112	EH-112	EH-112
Water	SAMPLE DATE	3/27/2007	5/8/2007	5/8/2007	5/8/2007	7/24/2007	9/6/2007
	SAMPLE TIME	11:30	11:25	11:25	11:40	14:15	15:05
	LAB	ELI	EPA-R8	ELI	ELI	ELI	ELI
	LAB NUMBER	H07030213-007	8705007-07	H07050103-004	H07050103-005	H07070241-008	H07090052-012
	SAMPLE NUMBER	AEH-0703-106	AEH-0705-103	AEH-0705-103	AEH-0705-104	AEH-0707-107	AEH-0709-130
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		AEH-0705-103-S	EPA Split			Split w/EPA
	REMARKS		Split		Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	180	190	190	190	180
Calcium (Ca) (DIS)	132	160	155	129	119
Chloride (Cl)	92	95	97	102	85
Magnesium (Mg) (DIS)	31	35	34	29	27
Potassium (K) (DIS)	7	7	7	5	7
Sodium (Na) (DIS)	189	151	156	189	186
Sulfate (SO4)	583	540	579	534	536
Total Alkalinity As CaCO3	150	150	150	150	150

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		<0.1			
Antimony (Sb) (DIS)		<0.001			
Arsenic (As) (DIS)	0.005	0.0197	0.007	0.007	0.006 UJ 0.005 UJ
Arsenic III (DIS)	<0.001		<0.001	<0.001	
Arsenic V (DIS)	<0.001		0.002	0.002	
Barium (Ba) (DIS)		0.039			
Beryllium (Be) (DIS)		<0.001			
Cadmium (Cd) (DIS)	<0.001	<0.0002	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.002			
Cobalt (Co) (DIS)		<0.002			
Copper (Cu) (DIS)	<0.004	<0.01	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.1	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.001	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.002	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)		0.00024			
Nickel (Ni) (DIS)		0.0094			
Selenium (Se) (DIS)	0.04	0.106	0.058	0.055	0.045 0.044
Silver (Ag) (DIS)		<0.0005			
Thallium (Tl) (DIS)		<0.0003			
Tin (Sn) (DIS)		<0.2			
Vanadium (V) (DIS)		<0.01			
Zinc (Zn) (DIS)	<0.02	<0.04	<0.01	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	182.4				99.3
Oxygen (O) (DIS) (Fld)	1.32		1.54		4.13
pH	6.8		6.8	6.8	6.8
Depth To Water Level (ft)	25.42		26.88		21.47
pH (Fld)	6.29		6.27		6.17
SC (umhos/cm at 25 C) (Fld)	1510		1687		1561
SC (umhos/cm at 25 C)	1600		1560	1580	1570 1370

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-112	EH-112	EH-112	EH-112	EH-112
Water	SAMPLE DATE	3/27/2007	5/8/2007	5/8/2007	7/24/2007	9/6/2007
	SAMPLE TIME	11:30	11:25	11:40	14:15	15:05
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07030213-007	H07050103-004	H07050103-005	H07070241-008	H07090052-012
	SAMPLE NUMBER	AEH-0703-106	AEH-0705-103	AEH-0705-104	AEH-0707-107	AEH-0709-130
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION		EPA Split			Split w/EPA
	REMARKS			Field Duplicate		
<b>Physical/Fid-Lab: ppm unless noted</b>						
	Total Suspended Solids	34	93	80	<10	<10
	TDS (Measured at 180 C)	1170	1210	1200	1250	1130
	Water Temperature (C) (Fld)	11.71	12.3		14.58	12.22

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-112	EH-112	EH-112	EH-112	EH-112	EH-112
Water	SAMPLE DATE	11/15/2007	1/31/2008	5/1/2008	7/16/2008	11/5/2008	2/13/2009
	SAMPLE TIME	13:39	12:00	09:45	14:30	08:55	10:00
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07110130-005	H08010244-006	H08050019-005	H08070357-002	H08110073-001	H09020131-001
	SAMPLE NUMBER	AEH-0711-131	AEH-0801-128	AEH-0805-125	AEH-0807-145	AEH-0811-169	AEH-0902-184
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	EPA Split					
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		200	190	210	190	190
Bicarbonate (HCO3) (dis)	180					
Calcium (Ca) (DIS)	111	135	227	175	168	210
Chloride (Cl)	87	82	96	77	94	91
Magnesium (Mg) (DIS)	25	30	49	38	37	44
Potassium (K) (DIS)	6	6	6	4	6	7
Sodium (Na) (DIS)	195	162	81	116	121	99
Sulfate (SO4)	481	523	620	530	690	650
Total Alkalinity As CaCO3	150	160	150	170	160	160

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005 A		0.022 J+		<0.005	
Selenium-VI (DIS)	0.0204 A		<0.005 J		0.038	
Aluminum (Al) (DIS)			<0.1		<0.1 J	
Antimony (Sb) (DIS)			<0.005		<0.005	
Arsenic (As) (DIS)	0.007	0.005	0.008	0.003	0.006	0.005
Arsenic III (DIS)	<0.001		<0.005		<0.005	
Arsenic V (DIS)	<0.001		<0.005		<0.005	
Barium (Ba) (DIS)			<0.1		<0.1	
Beryllium (Be) (DIS)			<0.001		<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)			<0.001		<0.001	
Cobalt (Co) (DIS)			<0.01		<0.01	
Copper (Cu) (DIS)	0.002 UJ	<0.004	<0.004	<0.004	0.005	<0.004
Iron (Fe) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)			<0.006		<0.006	
Nickel (Ni) (DIS)			<0.01		<0.01	
Selenium (Se) (DIS)	0.053	0.051	0.066	0.048	0.052	0.057
Silver (Ag) (DIS)			<0.005		<0.005	
Thallium (Tl) (DIS)			<0.002		<0.002	
Vanadium (V) (DIS)			<0.01		<0.01	
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.5	0.86	0.46	2.03	2.21	1.49
pH	7	6.8	7	7.1	7.1	7
Depth To Water Level (ft)	22.77	27.64	31.17	25.96	27.48	29.52
pH (Fld)	6.36	6.52	6.54	6.34	6.24	6.35
SC (umhos/cm at 25 C) (Fld)	1530	1592	1681	1591	1617	1672

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-112	EH-112	EH-112	EH-112	EH-112	EH-112
Water	SAMPLE DATE	11/15/2007	1/31/2008	5/1/2008	7/16/2008	11/5/2008	2/13/2009
	SAMPLE TIME	13:39	12:00	09:45	14:30	08:55	10:00
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07110130-005	H08010244-006	H08050019-005	H08070357-002	H08110073-001	H09020131-001
	SAMPLE NUMBER	AEH-0711-131	AEH-0801-128	AEH-0805-125	AEH-0807-145	AEH-0811-169	AEH-0902-184
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	EPA Split					
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C)	1490	1540	1540	1440	1640	1640
Total Suspended Solids	<10	<10	<10	<10	78	<10
TDS (Measured at 180 C)	1130	1130	1290	1130	1330	1260
Water Temperature (C) (Fid)	11.68	11.7	11.9	12	11.22	11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-112	EH-113	EH-113	EH-113	EH-113
Water	SAMPLE DATE	5/11/2009	10/24/2002	11/17/2002	6/4/2003	10/28/2003
	SAMPLE TIME	13:25	17:00	08:50	09:50	08:30
	LAB	ELI	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050178-007	L020894002	L020957006	L030256004	L030601013
	SAMPLE NUMBER	AEH-0905-168	EHIM-0210-301	EHC-0211-239B	AEH-0306-202	AEH-0310-393
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	190		222	229	193
Calcium (Ca) (DIS)	229		125	97	124
Carbonate As CO3			<1	<2	<2
Chloride (Cl)	85		76	49	84
Magnesium (Mg) (DIS)	51		37	30	37
Potassium (K) (DIS)	7		6.4	5.1	7.2
Sodium (Na) (DIS)	80		168	131	138
Sulfate (SO4)	670		561	362	463
Total Alkalinity As CaCO3	150		182	188	158

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1		<0.05		
Antimony (Sb) (DIS)	<0.003				
Arsenic (As) (DIS)	0.012	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)			<0.005	<0.005	<0.005
Arsenic V (dis)			<0.005	<0.005	<0.005
Barium (Ba) (DIS)	<0.1				
Beryllium (Be) (DIS)	<0.001				
Cadmium (Cd) (DIS)	0.001		<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	0.001				
Cobalt (Co) (DIS)	0.0022 UJ				
Copper (Cu) (DIS)	0.002		<0.004	<0.004	<0.004
Gold (Au) (DIS)	<0.01				
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005		<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01		0.02	<0.02	<0.02
Mercury (Hg) (DIS)	0.0002				
Nickel (Ni) (DIS)	<0.01				
Selenium (Se) (DIS)	0.109				
Silver (Ag) (DIS)	<0.005 R				
Tellurium (Te) (DIS)	<0.1				
Thallium (Tl) (DIS)	<0.001				
Vanadium (V) (DIS)	<0.01				
Zinc (Zn) (DIS)	<0.01		<0.02	<0.02	<0.05

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.21	6.2	8.6	9.9	6.72
pH	6.9		6.9	7.1	7.8
Silicon+Silica (Si+SiO2)			32		
Depth To Water Level (ft)	31.85	22.6	23.6	26.8	22.96
pH (Fld)	6.56	6.06	6	6.2	6.18

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-112	EH-113	EH-113	EH-113	EH-113
Water	SAMPLE DATE	5/11/2009	10/24/2002	11/17/2002	6/4/2003	10/28/2003
	SAMPLE TIME	13:25	17:00	08:50	09:50	08:30
	LAB	Hydrometrics	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050178-007	L020894002	L020957006	L030256004	L030601013
	SAMPLE NUMBER	AEH-0905-168	EHIM-0210-301	EHC-0211-239B	AEH-0306-202	AEH-0310-393
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)	1706	1497	1520	1270	1440
SC (umhos/cm at 25 C)	1700		1559	1295	1474
Total Suspended Solids	95 J+		200	291	44 J
TDS (Measured at 180 C)	1340		1166	911	1054
Salinity (G/KG) (Fld)			0.6	0.5	0.6
Turbidity (NTU) (Fld)			542	15	20
Water Temperature (C) (Fld)	13	11	10.9	11	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-113	EH-113	EH-113	EH-113	EH-113	EH-113
Water	SAMPLE DATE	5/19/2004	10/27/2004	5/10/2005	5/10/2005	11/7/2005	5/1/2006
	SAMPLE TIME	09:15	09:10	11:40	11:45	12:30	13:32
	LAB	ELI	ELI	ELI-Casper	ELI-Casper	ELI-Hel	ELI-Hel
	LAB NUMBER	H04050121-001	H04100192-001	C05050399-005	C05050399-006	H05110055-003	H06050010-005
	SAMPLE NUMBER	AEH-0405-111	AEH-0411-126	AEH-0505-104	AEH-0505-105	AEH-0511-102	AEH-0605-104
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION			No Fld Meas.			
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	230	210	209	225	210	240
Calcium (Ca) (DIS)	110	118	120	120	135	122
Chloride (Cl)	61	80	74	74	88	71
Magnesium (Mg) (DIS)	33	36	35	35	40	36
Potassium (K) (DIS)	7 UJ	6	6	6	5	6
Sodium (Na) (DIS)	123	137	143	142	130	129
Sulfate (SO4)	450	523	414	423	441	443
Total Alkalinity As CaCO3	190	170	171	185	170	200

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	<0.005	0.003	0.002	<0.002	0.003
Arsenic III (dis)	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005
Arsenic V (dis)	0.0024	<0.001	0.002	0.002	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	0.006	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.63	7.96			7.65	4.9
pH	7.1	7.8	6.99	6.98	6.9	6.9
Depth To Water Level (ft)	26.9	21.57	30.66		23.42	27.03
pH (Fld)	0.63 R	6.59			6.5	6.61
SC (umhos/cm at 25 C) (Fld)	1320	1448			1506	1388
SC (umhos/cm at 25 C)	1120	1320	1420	1430	1500	1280
Total Suspended Solids	23 J	31	15	18	66	74
TDS (Measured at 180 C)	939	1040	945	971	1120	1010
TDS - Calculated			929	943		
Salinity (G/KG) (Fld)	0.5					
Turbidity (NTU) (Fld)	10					
Water Temperature (C) (Fld)	10.9	10.7			11.57	11.71

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-113	EH-113	EH-113	EH-113	EH-113	EH-113
Water	SAMPLE DATE	6/19/2006	9/22/2006	11/13/2006	3/27/2007	3/27/2007	5/8/2007
	SAMPLE TIME	11:00	10:25	12:55	10:30	10:40	10:50
	LAB	ELI-Hel	ELI	ELI	ELI	ELI	EPA-R8
	LAB NUMBER	H06060187-001	H06090199-001	H06110099-006	H07030213-004	H07030213-005	8705007-06
	SAMPLE NUMBER	AEH-0606-100	AEH-0609-110	AEH-0611-164	AEH-0703-103	AEH-0703-104	AEH-0705-102
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION			EPA Split			AEH-0705-102-S
	REMARKS					Field Duplicate	Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	240	240	250	250	250
Calcium (Ca) (DIS)	132	134	133	108	111
Chloride (Cl)	82	87	85	82	77
Magnesium (Mg) (DIS)	37	39	37	33	34
Potassium (K) (DIS)	8	7	6	6	6
Sodium (Na) (DIS)	131	162	142	150	148
Sulfate (SO4)	420	523	461	363	380
Total Alkalinity As CaCO3	190	200	200	200	210

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)						<0.1
Antimony (Sb) (DIS)						<0.001
Arsenic (As) (DIS)	0.003	0.004	0.005	0.004	0.004	0.0116
Arsenic III (DIS)	<0.005	<0.005	<0.005	<0.001	<0.001	
Arsenic V (DIS)	<0.005	<0.005 J	<0.005	<0.001	<0.001	
Barium (Ba) (DIS)						0.028
Beryllium (Be) (DIS)						<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0002
Chromium (Cr) (DIS)						<0.002
Cobalt (Co) (DIS)						<0.002
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.01
Iron (Fe) (DIS)	<0.02	<0.02	0.03 J	<0.02	<0.02	<0.1
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002
Mercury (Hg) (DIS)						<0.0001
Nickel (Ni) (DIS)						0.0048
Selenium (Se) (DIS)				0.103	0.102	0.153
Silver (Ag) (DIS)						<0.0005
Thallium (Tl) (DIS)						<0.0003
Tin (Sn) (DIS)						<0.2
Vanadium (V) (DIS)						<0.01
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.04

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential		237.3	131.4	174.2	
Oxygen (O) (DIS) (Fld)	10.38 A	6.43	7.7	2.93	
pH	7.2	6.8	7	7.1	7.1
Depth To Water Level (ft)	23.66	17.17	18.91	24.62	
pH (Fld)	6.1	6.42	6.61	6.62	
SC (umhos/cm at 25 C) (Fld)	1439	1453	1484	1274	
SC (umhos/cm at 25 C)	1380	1490	1440	1360	1360

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-113	EH-113	EH-113	EH-113	EH-113
Water	SAMPLE DATE	6/19/2006	9/22/2006	11/13/2006	3/27/2007	3/27/2007
	SAMPLE TIME	11:00	10:25	12:55	10:30	10:40
	LAB	ELI-Hel	ELI	ELI	ELI	ELI
	LAB NUMBER	H06060187-001	H06090199-001	H06110099-006	H07030213-004	H07030213-005
	SAMPLE NUMBER	AEH-0606-100	AEH-0609-110	AEH-0611-164	AEH-0703-103	AEH-0703-104
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION			EPA Split		
	REMARKS					Field Duplicate

**Physical/Fid-Lab: ppm unless noted**

Total Suspended Solids	11	36	59 J	12	13
TDS (Measured at 180 C)	1000	1140	1090	963	953
Water Temperature (C) (Fld)	11.25	11.13	11.36	11.22	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-113	EH-113	EH-113	EH-113	EH-113	EH-113
Water	SAMPLE DATE	5/8/2007	7/24/2007	9/6/2007	11/12/2007	1/30/2008	5/1/2008
	SAMPLE TIME	10:50	10:20	13:55	13:30	11:20	14:35
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07050103-003	H07070241-004	H07090052-009	H07110094-002	H08010227-004	H08050028-001
	SAMPLE NUMBER	AEH-0705-102	AEH-0707-103	AEH-0709-127	AEH-0711-101	AEH-0801-113	AEH-0805-131
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	EPA Split		Split w/EPA	EPA Split		
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	250	250	250		250	240
Bicarbonate (HCO3) (dis)				240		
Calcium (Ca) (DIS)	111	111	126	115	114	129
Chloride (Cl)	77	80	72	85	70	75
Magnesium (Mg) (DIS)	33	33	37	34	34	37
Potassium (K) (DIS)	6	5	6	7	6	6
Sodium (Na) (DIS)	144	138	150	151	142	144
Sulfate (SO4)	381	400	449	436	421	450
Total Alkalinity As CaCO3	200	210	200	200	210	200

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)				<0.005		<0.005 J
Selenium-VI (DIS)				0.171		0.131 J
Aluminum (Al) (DIS)						<0.1
Antimony (Sb) (DIS)						<0.005
Arsenic (As) (DIS)	0.005	0.005 UJ	0.006 UJ	0.007	0.007	0.006
Arsenic III (DIS)	<0.001			<0.001		<0.005
Arsenic V (DIS)	0.0016			0.002		<0.005
Barium (Ba) (DIS)						<0.1
Beryllium (Be) (DIS)						<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)						<0.001
Cobalt (Co) (DIS)						<0.01
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.002	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	0.02 UJ	<0.01	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.003	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)						<0.006
Nickel (Ni) (DIS)						<0.01
Selenium (Se) (DIS)	0.115	0.093	0.173	0.202	0.194	0.172
Silver (Ag) (DIS)						<0.005
Thallium (Tl) (DIS)						<0.002
Vanadium (V) (DIS)						<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	0.06

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential			101.1			
Oxygen (O) (DIS) (Fld)	6.17	8.77	7.63	5.93	5.54	4.47
pH	7.2	7.1	7	7	7.4	7.1
Depth To Water Level (ft)	26.22	21.75	21.41	22.34	26.98	30.39
pH (Fld)	6.63	6.71	6.51	6.72	6.75	6.63

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-113	EH-113	EH-113	EH-113	EH-113	EH-113
Water	SAMPLE DATE	5/8/2007	7/24/2007	9/6/2007	11/12/2007	1/30/2008	5/1/2008
	SAMPLE TIME	10:50	10:20	13:55	13:30	11:20	14:35
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H07050103-003	H07070241-004	H07090052-009	H07110094-002	H08010227-004	H08050028-001
	SAMPLE NUMBER	AEH-0705-102	AEH-0707-103	AEH-0709-127	AEH-0711-101	AEH-0801-113	AEH-0805-131
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	EPA Split		Split w/EPA	EPA Split		
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	1418	1399	1459	1478	1493	1468
SC (umhos/cm at 25 C)	1330	1330	1280	1400	1400	1370
Total Suspended Solids	94	<10	<10	<10	138	31
TDS (Measured at 180 C)	972	984	1030	1040	1010	1030
Water Temperature (C) (Fid)	12.4	11.22	11.82	11.33	10.7	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-113	EH-113	EH-113	EH-113	EH-114
Water	SAMPLE DATE	7/15/2008	11/3/2008	2/4/2009	5/11/2009	10/15/2002
	SAMPLE TIME	17:35	12:18	09:25	14:00	15:30
	LAB	ELI	ELI	ELI	ELI	TSC-SLC
	LAB NUMBER	H08070334-003	H08110021-002	H09020036-010	H09050178-008	L020870001
	SAMPLE NUMBER	AEH-0807-131	AEH-0811-148	AEH-0902-129	AEH-0905-169	EHIM-0210-101
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	250	240	250	230
Calcium (Ca) (DIS)	124	152	132	120
Chloride (Cl)	73	76	72	64
Magnesium (Mg) (DIS)	37	44	38	36
Potassium (K) (DIS)	6	7	6	6
Sodium (Na) (DIS)	109	143	134	132
Sulfate (SO4)	410	510	460	450
Total Alkalinity As CaCO3	210	200	200	190

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005		
Selenium-VI (DIS)		0.149		
Aluminum (Al) (DIS)		<0.1		<0.1
Antimony (Sb) (DIS)		<0.005		<0.003
Arsenic (As) (DIS)	0.004	0.006	0.004	0.008
Arsenic III (DIS)		<0.005		<0.005
Arsenic V (DIS)		<0.005 J-		
Barium (Ba) (DIS)		<0.1		<0.1
Beryllium (Be) (DIS)		<0.001		<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.001		<0.001
Cobalt (Co) (DIS)		<0.01		0.0019 UJ
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.003
Gold (Au) (DIS)				<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)		<0.006		<0.0001
Nickel (Ni) (DIS)		<0.01		<0.01
Selenium (Se) (DIS)	0.075	0.158	0.144	0.136
Silver (Ag) (DIS)		<0.005		0.006 R
Tellurium (Te) (DIS)				<0.1
Thallium (Tl) (DIS)		<0.002		<0.001
Vanadium (V) (DIS)		<0.01		<0.01
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.54	6.51	5.65	5.98	3.7
pH	7.1	7.3	7	6.9	
Depth To Water Level (ft)	25.63	24.36	27.26	13.01	27.3
pH (Fld)	6.7	6.44	6.61	6.7	8.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-113	EH-113	EH-113	EH-113	EH-114
Water	SAMPLE DATE	7/15/2008	11/3/2008	2/4/2009	5/11/2009	10/15/2002
	SAMPLE TIME	17:35	12:18	09:25	14:00	15:30
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	TSC-SLC
	LAB NUMBER	H08070334-003	H08110021-002	H09020036-010	H09050178-008	L020870001
	SAMPLE NUMBER	AEH-0807-131	AEH-0811-148	AEH-0902-129	AEH-0905-169	EHIM-0210-101
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					
<b>Physical/Fid-Lab: ppm unless noted</b>						
	SC (umhos/cm at 25 C) (Fid)	1437	1594	1478	1417	1325
	SC (umhos/cm at 25 C)	1320	1510	1450	1430	
	Total Suspended Solids	<10	42	10	63 J+	
	TDS (Measured at 180 C)	991	1070	1080	1030	
	Water Temperature (C) (Fid)	12	11.13	11.3	11.8	10.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-114	EH-114	EH-114	EH-114	EH-114	EH-114
Water	SAMPLE DATE	11/17/2002	6/3/2003	10/27/2003	5/18/2004	10/26/2004	5/17/2005
	SAMPLE TIME	08:30	11:30	11:00	09:30	10:45	14:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper
	LAB NUMBER	L020957005	L030247004	L030601005	H04050109-008	H04100182-002	C05050640-023
	SAMPLE NUMBER	EHC-0211-230	AEH-0306-187	AEH-0310-385	AEH-0405-107	AEH-0411-110	AEH-0505-180
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	183	188	184	200	170	194
Calcium (Ca) (DIS)	118	136	111	139	59	131
Carbonate As CO3	<1	<2	<2			
Chloride (Cl)	91	116	79	100	40	81
Magnesium (Mg) (DIS)	28	33	28	32	15	32
Potassium (K) (DIS)	6.7	7.1	6.7	8	4	7
Sodium (Na) (DIS)	141	149	124	144	104	128
Sulfate (SO4)	438	490	411	590	261	421
Total Alkalinity As CaCO3	150	154	151	160	140	159

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05					
Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005
Arsenic V (dis)	<0.005	<0.005	<0.005	0.0042	<0.001	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	0.006	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	0.01	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.05	<0.01	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.1	0.1	5.41	0.71	7.63	1.78
pH	6.9	7.1	7.5	6.9	7	7.38
Silicon+Silica (Si+SiO2)	34					
Depth To Water Level (ft)	28.6	32.4	36.82	32.42	26.1	34.51
pH (Fld)	5.8	6.5	6.19	5.94	6.87	6.38
SC (umhos/cm at 25 C) (Fld)	1360	1650	1270	1440	840	1260
SC (umhos/cm at 25 C)	1395	1570	1304	1360	745	1380
Total Suspended Solids	105	15	66	22	161	12 J
TDS (Measured at 180 C)	1027	1143	921	1090	574	1050
TDS - Calculated						934
Salinity (G/KG) (Fld)	0.6	0.7	0.5	0.6		
Turbidity (NTU) (Fld)	165	0.07	47			
Water Temperature (C) (Fld)	10.4	11.2	11	10.8	10.6	10.88

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-114	EH-114	EH-114	EH-114	EH-114	EH-114
Water	SAMPLE DATE	11/7/2005	5/1/2006	6/20/2006	9/21/2006	11/13/2006	3/27/2007
	SAMPLE TIME	10:20	11:30	14:25	13:50	11:25	08:45
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	H05110055-001	H06050010-002	H06060206-002	H06090189-005	H06110099-001	H07030213-001
	SAMPLE NUMBER	AEH-0511-100	AEH-0605-101	AEH-0606-120	AEH-0609-104	AEH-0611-159	AEH-0703-100
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION			No Fld SC		EPA Split	
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	190	190	190	180	160	170
Calcium (Ca) (DIS)	108	121	137 J	60	46	86
Chloride (Cl)	68	86	92	33	25	45
Magnesium (Mg) (DIS)	27	29	32 J	15	10	22
Potassium (K) (DIS)	6	6	6 J	5	4	5
Sodium (Na) (DIS)	120	129	131	87	72	97
Sulfate (SO4)	394	432	469	196	148	264
Total Alkalinity As CaCO3	160	160	150	150	130	140

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.007	0.006	0.008	0.002	0.002	0.003
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
Arsenic V (dis)	<0.005	<0.005	<0.008	<0.005	<0.005	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.006	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02 J	<0.02	<0.02 J	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.01 J	<0.01	<0.01	<0.01
Selenium (Se) (DIS)						0.135
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02 J	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				76.7	191.5	174
Oxygen (O) (DIS) (Fld)	5.46	3.86	3.26	3.92	9.74	5.03
pH	6.7	6.8	6.9	6.9	7.1	7.2
Depth To Water Level (ft)	27.52	31.84	27.14	20.68	23.48	30.02
pH (Fld)	6.27	6.34	6.39	6.66	6.73	6.59
SC (umhos/cm at 25 C) (Fld)	1376	1356		801	643	861
SC (umhos/cm at 25 C)	1240	1280	1350	818	637	921
Total Suspended Solids	48	12	<10	<10	86 J	<10
TDS (Measured at 180 C)	886	987	1040	546	438	627
Water Temperature (C) (Fld)	11.09	11.43	11.59	11.03	10.65	10.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-114	EH-114	EH-114	EH-114	EH-114	EH-114
Water	SAMPLE DATE	5/8/2007	5/8/2007	7/24/2007	9/6/2007	11/15/2007	1/30/2008
	SAMPLE TIME	09:45	09:45	09:45	11:00	11:19	15:05
	LAB	EPA-R8	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	8705007-04	H07050103-001	H07070241-003	H07090052-005	H07110130-002	H08010227-011
	SAMPLE NUMBER	AEH-0705-100	AEH-0705-100	AEH-0707-102	AEH-0709-123	AEH-0711-128	AEH-0801-120
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	AEH-0705-100-S	EPA Split		Split w/EPA	EPA Split	
	REMARKS	Split					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	170	220	190		180	170
Bicarbonate (HCO3) (dis)						
Calcium (Ca) (DIS)	85	137	106	50	65	
Chloride (Cl)	62	77	51	25	40	
Magnesium (Mg) (DIS)	20	34	26	12	16	
Potassium (K) (DIS)	5	5	6	4	5	
Sodium (Na) (DIS)	99	118	103	74	80	
Sulfate (SO4)	300	456	309	146	188	
Total Alkalinity As CaCO3	140	180	160	140	140	

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)					<0.005	
Selenium-VI (DIS)					0.055	
Aluminum (Al) (DIS)	<0.1					
Antimony (Sb) (DIS)	<0.001					
Arsenic (As) (DIS)	0.007	0.006	0.006 UJ	0.004 UJ	<0.002	0.004
Arsenic III (DIS)		<0.001			<0.001	
Arsenic V (DIS)		0.002			<0.001	
Barium (Ba) (DIS)	0.039					
Beryllium (Be) (DIS)	<0.001					
Cadmium (Cd) (DIS)	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.002					
Cobalt (Co) (DIS)	<0.002					
Copper (Cu) (DIS)	<0.01	<0.004	<0.004	<0.004	0.004 UJ	<0.004
Iron (Fe) (DIS)	<0.1	<0.02	<0.02	0.02 UJ	<0.01	<0.02
Lead (Pb) (DIS)	<0.001	<0.005	<0.005	<0.005	<0.003	<0.005
Manganese (Mn) (DIS)	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.0001					
Nickel (Ni) (DIS)	0.0033					
Selenium (Se) (DIS)	0.251	0.246	0.242	0.222	0.066	0.157
Silver (Ag) (DIS)	<0.0005					
Thallium (Tl) (DIS)	<0.0003					
Tin (Sn) (DIS)	<0.2					
Vanadium (V) (DIS)	<0.01					
Zinc (Zn) (DIS)	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential				127.2		
Oxygen (O) (DIS) (Fld)	4.55	1.74	8.13	8.77	7.73	
pH	7.2	7	7.2	7.5	7.3	
Depth To Water Level (ft)	31.51	25.71	24.97	26.97	31.65	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-114	EH-114	EH-114	EH-114	EH-114
Water	SAMPLE DATE	5/8/2007	7/24/2007	9/6/2007	11/15/2007	1/30/2008
	SAMPLE TIME	09:45	09:45	11:00	11:19	15:05
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H07050103-001	H07070241-003	H07090052-005	H07110130-002	H08010227-011
	SAMPLE NUMBER	AEH-0705-100	AEH-0707-102	AEH-0709-123	AEH-0711-128	AEH-0801-120
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	EPA Split		Split w/EPA	EPA Split	
	REMARKS					

**Physical/Fld-Lab: ppm unless noted**

	EH-114	EH-114	EH-114	EH-114	EH-114
pH (Fld)	6.6	6.63	6.57	6.95	7.03
SC (umhos/cm at 25 C) (Fld)	1059	1428	1097	689	854
SC (umhos/cm at 25 C)	1010	1350	981	675	807
Total Suspended Solids	17	<10	<10	<10	<10
TDS (Measured at 180 C)	702	1050	762	460	547
Water Temperature (C) (Fld)	11.4	11.1	11.33	10.54	10.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-114	EH-114	EH-114	EH-114	EH-114
Water	SAMPLE DATE	4/30/2008	7/16/2008	11/4/2008	2/4/2009	5/11/2009
	SAMPLE TIME	16:30	12:10	11:24	15:00	12:15
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08040470-012	H08070334-015	H08110046-006	H09020058-006	H09050178-004
	SAMPLE NUMBER	AEH-0805-120	AEH-0807-143	AEH-0811-162	AEH-0902-139	AEH-0905-165
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	190	220	210	200	200
Calcium (Ca) (DIS)	116	142	128	113	133
Chloride (Cl)	71	68	56	69	59
Magnesium (Mg) (DIS)	28	35	31	27	34
Potassium (K) (DIS)	6	7	6	6	7
Sodium (Na) (DIS)	102	110	98	95	104
Sulfate (SO4)	370	490	410	380	450
Total Alkalinity As CaCO3	150	180	170	160	160

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	0.205		<0.005		
Selenium-VI (DIS)	0.147		0.231		
Aluminum (Al) (DIS)	<0.1		<0.1		<0.1
Antimony (Sb) (DIS)	<0.005		<0.005		<0.003
Arsenic (As) (DIS)	0.009	0.007	0.005	0.008	0.008
Arsenic III (DIS)	<0.005		<0.005		
Arsenic V (DIS)	<0.005		<0.005		
Barium (Ba) (DIS)	<0.1		<0.1		<0.1
Beryllium (Be) (DIS)	<0.001		<0.001		<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.002		<0.001		<0.001
Cobalt (Co) (DIS)	<0.01		<0.01		0.001 UJ
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	0.003
Gold (Au) (DIS)					<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.006		<0.006		<0.0001
Nickel (Ni) (DIS)	<0.01		<0.01		<0.01
Selenium (Se) (DIS)	0.408	0.297	0.235	0.362	0.35
Silver (Ag) (DIS)	<0.005		<0.005 J-		<0.005 R
Tellurium (Te) (DIS)					<0.1
Thallium (Tl) (DIS)	<0.002		<0.002		<0.001
Vanadium (V) (DIS)	<0.01		<0.01		<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.02	<0.02	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.28	1.26	4.86	4.2	1.42
pH	7.5	7	6.9	6.9	6.9
Depth To Water Level (ft)	34.3	32.48	28.25	32.71	35.12
pH (Fld)	6.63	6.42	6.39	6.39	6.55

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-114	EH-114	EH-114	EH-114	EH-114
Water	SAMPLE DATE	4/30/2008	7/16/2008	11/4/2008	2/4/2009	5/11/2009
	SAMPLE TIME	16:30	12:10	11:24	15:00	12:15
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H08040470-012	H08070334-015	H08110046-006	H09020058-006	H09050178-004
	SAMPLE NUMBER	AEH-0805-120	AEH-0807-143	AEH-0811-162	AEH-0902-139	AEH-0905-165
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	1252	1503	1159	1244	1329
SC (umhos/cm at 25 C)	1160	1380	1220	1120	1330
Total Suspended Solids	<10	<10	<10	<10	22 J+
TDS (Measured at 180 C)	867	1080	844	858	983
Water Temperature (C) (Fid)	11	11.5	10.65	10.7	11.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-115	EH-115	EH-115	EH-115	EH-115	EH-115
Water	SAMPLE DATE	10/24/2002	11/16/2002	6/4/2003	10/28/2003	5/19/2004	10/27/2004
	SAMPLE TIME	15:45	16:00	13:15	09:40	12:30	12:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	L020894001	L020951012	L030256012	L030601016	H04050121-006	H04100192-010
	SAMPLE NUMBER	EHIM-0210-300	EHC-0211-231	AEH-0306-210	AEH-0310-396	AEH-0405-116	AEH-0411-135
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	188	220	187	240	190
Calcium (Ca) (DIS)	80	143	52	151	56
Carbonate As CO3	<1	<2	<2		
Chloride (Cl)	44	97	25	95	30
Magnesium (Mg) (DIS)	19	37	13	36	14
Potassium (K) (DIS)	5.8	7.2	<5	8 UJ	4
Sodium (Na) (DIS)	96	134	70	125	75
Sulfate (SO4)	222	514	333	570	182
Total Alkalinity As CACO3	154	180	153	190	160

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05				
Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.001	<0.001
Arsenic V (dis)	<0.005	<0.005	<0.005	0.0014	0.0012
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	0.006	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	0.06	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.01	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.05	<0.01	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.01	7.7	2.4	6.99	0.42	9.41
pH		7.4	7.3	8	7.2	7.4
Silicon+Silica (Si+SiO2)		27				
Depth To Water Level (ft)	29.3	30.5	34.7	28.31	34.87	27.94
pH (Fld)	6	6.4	6.4	6.47	6.26	6.89
SC (umhos/cm at 25 C) (Fld)	778	768	1480	592	1550	722
SC (umhos/cm at 25 C)		960	1506	725	1230	660
Total Suspended Solids		359	29	22 J	47 J	20
TDS (Measured at 180 C)		660	1088	486	1100	485
Salinity (G/KG) (Fld)		0.3	0.6	0.2	0.7	
Turbidity (NTU) (Fld)		496	23	29		
Water Temperature (C) (Fld)	11.1	10.8	11.8	10.9	11.9	10.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-115	EH-115	EH-115	EH-115	EH-115	EH-115
Water	SAMPLE DATE	5/11/2005	11/8/2005	5/2/2006	6/20/2006	9/22/2006	11/14/2006
	SAMPLE TIME	12:10	10:45	10:05	09:30	11:45	09:00
	LAB	ELI-Casper	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI
	LAB NUMBER	C05050444-007	H05110071-005	H06050019-003	H06060201-002	H06090199-003	H06110119-002
	SAMPLE NUMBER	AEH-0505-119	AEH-0511-114	AEH-0605-113	AEH-0606-109	AEH-0609-112	AEH-0611-169
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						EPA Split
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	246	190	220	220	160	200
Calcium (Ca) (DIS)	154	66	116	131	39	63
Chloride (Cl)	83	36	80	79	14	28
Magnesium (Mg) (DIS)	38	16	28	31	9	14
Potassium (K) (DIS)	7	4	6	6	4	4
Sodium (Na) (DIS)	119	84	100	103	49	61
Sulfate (SO4)	452	213	349	402	90	149
Total Alkalinity As CaCO3	202	160	180	180	130	160

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.002	<0.002	<0.002	0.006	<0.002	<0.002
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 J-
Arsenic V (dis)	<0.005	0.0079	<0.005	<0.005	<0.005 J	<0.005 J-
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	0.002	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					186.8	176
Oxygen (O) (DIS) (Fld)	2.4	8.26	5	7.08 A	7.73	9.54
pH	7.08	7.2	7.2	7.1	7.4	7.2
Depth To Water Level (ft)	36.66	29.03	33.79	28.56	22.79	25.57
pH (Fld)	6.79	6.69	6.43	6.52	6.79	6.72
SC (umhos/cm at 25 C) (Fld)	1439	847	1222	1344	451	709
SC (umhos/cm at 25 C)	1420	799	1120	1250	478	686
Total Suspended Solids	<10 J	141	34	<10	<10	<10
TDS (Measured at 180 C)	983	522	899	948	320	462
TDS - Calculated	1010					
Water Temperature (C) (Fld)	10.9	11.1	11.43	11.24	10.99	10.91

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-115	EH-115	EH-115	EH-115	EH-115	EH-115
Water	SAMPLE DATE	3/27/2007	5/11/2007	5/11/2007	7/24/2007	9/5/2007	11/13/2007
	SAMPLE TIME	12:20	12:30	12:40	15:00	13:20	13:35
	LAB	ELI	EPA-R8	ELI	ELI	ELI	ELI
	LAB NUMBER	H07030213-010	8705007-11	H07050137-007	H07070241-010	H07090032-009	H07110103-008
	SAMPLE NUMBER	AEH-0703-109	AEH-0705-140	AEH-0705-140	AEH-0707-109	AEH-0709-114	AEH-0711-114
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		AEH-0705-139-S	EPA Split			
	REMARKS		Split				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	210		220	200	180	
Bicarbonate (HCO3) (dis)						190
Calcium (Ca) (DIS)	102		126	74	46	53
Chloride (Cl)	55		71	37	19	24
Magnesium (Mg) (DIS)	26		31	18	11	13
Potassium (K) (DIS)	6		6	3	4	4
Sodium (Na) (DIS)	79		92	69	57	59
Sulfate (SO4)	253		327	186	117	127
Total Alkalinity As CaCO3	170		180	160	150	160

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)						<0.005
Selenium-VI (DIS)						0.024 J-
Aluminum (Al) (DIS)		<0.1				
Antimony (Sb) (DIS)		<0.001				
Arsenic (As) (DIS)	0.003	<0.004	0.005	0.003 UJ	<0.002	<0.002
Arsenic III (DIS)	<0.001		<0.001			<0.001
Arsenic V (DIS)	<0.001		<0.001			<0.001
Barium (Ba) (DIS)		<0.004				
Beryllium (Be) (DIS)		<0.001				
Cadmium (Cd) (DIS)	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.002				
Cobalt (Co) (DIS)		<0.002				
Copper (Cu) (DIS)	<0.004	<0.01	<0.004	<0.004	<0.004	0.001
Iron (Fe) (DIS)	<0.02	<0.1	<0.02	<0.02	0.02	<0.01
Lead (Pb) (DIS)	<0.005	<0.001	<0.005	<0.005	<0.005	<0.003
Manganese (Mn) (DIS)	<0.01	<0.002	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)		<0.0001				
Nickel (Ni) (DIS)		<0.001				
Selenium (Se) (DIS)	0.191	<0.001	0.266	0.133	0.036	0.033
Silver (Ag) (DIS)		<0.0005				
Thallium (Tl) (DIS)		<0.0003				
Tin (Sn) (DIS)		<0.2				
Vanadium (V) (DIS)		<0.01				
Zinc (Zn) (DIS)	<0.02	<0.04	<0.01	<0.01	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	177.9			53.7	
Oxygen (O) (DIS) (Fld)	4.08		5.19	8.34	9.66
pH	7.2		7.1	7.4	7.3
Depth To Water Level (ft)	32.54		33.98	26.28	25.86
				25.86	28.92

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-115	EH-115	EH-115	EH-115	EH-115
Water	SAMPLE DATE	3/27/2007	5/11/2007	7/24/2007	9/5/2007	11/13/2007
	SAMPLE TIME	12:20	12:40	15:00	13:20	13:35
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H07030213-010	H07050137-007	H07070241-010	H07090032-009	H07110103-008
	SAMPLE NUMBER	AEH-0703-109	AEH-0705-140	AEH-0707-109	AEH-0709-114	AEH-0711-114
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION		EPA Split			
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

pH (Fld)	6.73	6.93	6.99	6.99	6.98
SC (umhos/cm at 25 C) (Fld)	943	1224	842	593	647
SC (umhos/cm at 25 C)	1010	1140	815	587	644
Total Suspended Solids	17	25	<10	<10	<10 J
TDS (Measured at 180 C)	693	896	554	373	416
Water Temperature (C) (Fld)	10.84	11.3	11.46	11.41	10.73

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-115	EH-115	EH-115	EH-115	EH-116
Water	SAMPLE DATE	1/30/2008	5/1/2008	7/16/2008	2/4/2009	11/10/2005
	SAMPLE TIME	14:20	09:15	07:30	09:55	15:25
	LAB	ELI	ELI	ELI	ELI	ELI-Hel
	LAB NUMBER	H08010227-010	H08050019-004	H08070334-004	H09020036-011	H05110092-009
	SAMPLE NUMBER	AEH-0801-119	AEH-0805-124	AEH-0807-132	AEH-0902-130	AEH-0511-151
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					New Well
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	210	240	260	230	160
Calcium (Ca) (DIS)	85	161	164	115	120
Chloride (Cl)	48	73	62	68	112
Magnesium (Mg) (DIS)	21	39	39	27	28
Potassium (K) (DIS)	5	6	7	5	7
Sodium (Na) (DIS)	78	96	105	85	225
Sulfate (SO4)	238	410	520	350	639
Total Alkalinity As CaCO3	170	200	210	190	130

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		0.179 J			
Selenium-VI (DIS)		0.0856 J			
Aluminum (Al) (DIS)		<0.1			
Antimony (Sb) (DIS)		<0.005			
Arsenic (As) (DIS)	0.005	0.006	0.005	0.006	<0.002
Arsenic III (DIS)		<0.005			<0.005
Arsenic V (DIS)		<0.005			<0.005
Barium (Ba) (DIS)		<0.1			
Beryllium (Be) (DIS)		<0.001			
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.001			
Cobalt (Co) (DIS)		<0.01			
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	0.006
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	0.1 J
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	0.45
Mercury (Hg) (DIS)		<0.006			
Nickel (Ni) (DIS)		<0.01			
Selenium (Se) (DIS)	0.235	0.329	0.218	0.372	
Silver (Ag) (DIS)		<0.005			
Thallium (Tl) (DIS)		<0.002			
Vanadium (V) (DIS)		<0.01			
Zinc (Zn) (DIS)	<0.01	0.01	<0.01	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.33	3.41	1.29	5.69	7.17
pH	7.4	7.5	7.2	7.1	6.6
Depth To Water Level (ft)	33.96	36.59	35.11	34.89	26.09
pH (Fld)	7.06	6.76	6.51	6.67	6.41
SC (umhos/cm at 25 C) (Fld)	962	1371	1540	1216	1763
SC (umhos/cm at 25 C)	909	1290	1410	1200	1730

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-115	EH-115	EH-115	EH-115	EH-116
Water	SAMPLE DATE	1/30/2008	5/1/2008	7/16/2008	2/4/2009	11/10/2005
	SAMPLE TIME	14:20	09:15	07:30	09:55	15:25
	LAB	ELI	ELI	ELI	ELI	ELI-Hel
	LAB NUMBER	H08010227-010	H08050019-004	H08070334-004	H09020036-011	H05110092-009
	SAMPLE NUMBER	AEH-0801-119	AEH-0805-124	AEH-0807-132	AEH-0902-130	AEH-0511-151
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					New Well
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

Total Suspended Solids	<10	63	48	<10	85
TDS (Measured at 180 C)	614	992	1100	846	1230
Water Temperature (C) (Fld)	10.8	11.8	11.3	10.9	11.36

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-116	EH-116	EH-116	EH-116	EH-116	EH-116
Water	SAMPLE DATE	11/10/2005	5/1/2006	6/20/2006	9/21/2006	11/13/2006	3/27/2007
	SAMPLE TIME	15:30	11:55	14:50	14:25	11:45	09:15
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	H05110092-010	H06050010-003	H06060206-003	H06090189-006	H06110099-002	H07030213-002
	SAMPLE NUMBER	AEH-0511-152	AEH-0605-102	AEH-0606-121	AEH-0609-105	AEH-0611-160	AEH-0703-101
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION					EPA Split	
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	160	170	170	180	180	180
Calcium (Ca) (DIS)	120	109	111 J	101	110	96
Chloride (Cl)	114	105	102	107	100	85
Magnesium (Mg) (DIS)	27	25	24 J	23	23	23
Potassium (K) (DIS)	7	7	7 J	7	6	6
Sodium (Na) (DIS)	223	240	240	237	225	234
Sulfate (SO4)	619	609	631	584	582	459
Total Alkalinity As CaCO3	130	140	140	140	150	150

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.002	0.004	0.004	0.005	0.008	0.006
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
Arsenic V (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.006	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02 J	<0.02	<0.02 J	0.04	<0.02 J	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.43	0.02	0.02 J	0.01	0.01	<0.01
Selenium (Se) (DIS)						0.206
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02 J	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential				90	169.5	181.5
Oxygen (O) (DIS) (Fid)		2.1	2.27	2.29	0.14	3.01
pH	6.6	6.5	6.7	6.5	6.7	6.7
Depth To Water Level (ft)		29.88	25.51	19.45	21.84	27.87
pH (Fid)		6.11	6.17	6.2	6.26	6.26
SC (umhos/cm at 25 C) (Fid)		1800	1742	1676	1689	1506
SC (umhos/cm at 25 C)	1730	1630	1630	1660	1610	1580
Total Suspended Solids	89	11	16	13	264	10
TDS (Measured at 180 C)	1270	1250	1260	1200	1210	1130
Water Temperature (C) (Fid)		11.71	11.58	11.41	10.81	10.74

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-116	EH-116	EH-116	EH-116	EH-116	EH-116
Water	SAMPLE DATE	5/8/2007	5/8/2007	7/24/2007	9/6/2007	11/15/2007	1/30/2008
	SAMPLE TIME	10:30	10:30	09:15	11:30	11:49	15:30
	LAB	EPA-R8	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	8705007-05	H07050103-002	H07070241-002	H07090052-006	H07110130-003	H08010227-012
	SAMPLE NUMBER	AEH-0705-101	AEH-0705-101	AEH-0707-101	AEH-0709-124	AEH-0711-129	AEH-0801-121
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	AEH-0705-101-S	EPA Split		Split w/EPA	EPA Split	
	REMARKS	Split					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	180	190	180		180	190
Bicarbonate (HCO3) (dis)					180	
Calcium (Ca) (DIS)	94	87	88	80	80	
Chloride (Cl)	82	77	72	85	72	
Magnesium (Mg) (DIS)	21	20	20	18	18	
Potassium (K) (DIS)	6	5	6	6	6	
Sodium (Na) (DIS)	228	215	209	216	208	
Sulfate (SO4)	506	482	473	433	473	
Total Alkalinity As CaCO3	150	150	150	140	160	

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)					<0.005	
Selenium-VI (DIS)					0.205	
Aluminum (Al) (DIS)	<0.1					
Antimony (Sb) (DIS)	<0.001					
Arsenic (As) (DIS)	0.0134	0.007	0.01 UJ	0.006 UJ	0.005	0.008
Arsenic III (DIS)		<0.001			<0.001	
Arsenic V (DIS)		0.0015			<0.001	
Barium (Ba) (DIS)	0.018					
Beryllium (Be) (DIS)	<0.001					
Cadmium (Cd) (DIS)	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.002					
Cobalt (Co) (DIS)	<0.002					
Copper (Cu) (DIS)	<0.01	<0.004	<0.004	<0.004	0.003 UJ	<0.004
Iron (Fe) (DIS)	<0.1	<0.02	<0.02	0.03 UJ	<0.01	<0.02
Lead (Pb) (DIS)	<0.001	<0.005	<0.005	<0.005	<0.003	<0.005
Manganese (Mn) (DIS)	0.007	<0.01	0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	0.00018					
Nickel (Ni) (DIS)	0.0063					
Selenium (Se) (DIS)	0.253	0.212	0.208	0.22	0.245	0.222
Silver (Ag) (DIS)	<0.0005					
Thallium (Tl) (DIS)	<0.0003					
Tin (Sn) (DIS)	<0.2					
Vanadium (V) (DIS)	<0.01					
Zinc (Zn) (DIS)	<0.04	<0.01	0.01 UJ	<0.01	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential				122.4		
Oxygen (O) (DIS) (Fld)	0.66	0.13	0.15	0.44	0.29	
pH	6.8	6.7	6.8	7	7	
Depth To Water Level (ft)	29.36	24.35	23.81	25.23	29.74	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-116	EH-116	EH-116	EH-116	EH-116
Water	SAMPLE DATE	5/8/2007	7/24/2007	9/6/2007	11/15/2007	1/30/2008
	SAMPLE TIME	10:30	09:15	11:30	11:49	15:30
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H07050103-002	H07070241-002	H07090052-006	H07110130-003	H08010227-012
	SAMPLE NUMBER	AEH-0705-101	AEH-0707-101	AEH-0709-124	AEH-0711-129	AEH-0801-121
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	EPA Split		Split w/EPA	EPA Split	
	REMARKS					

**Physical/Fld-Lab: ppm unless noted**

	EH-116	EH-116	EH-116	EH-116	EH-116
pH (Fld)	6.21	6.33	6.21	6.52	6.54
SC (umhos/cm at 25 C) (Fld)	1656	1560	1489	1462	1548
SC (umhos/cm at 25 C)	1540	1490	1260	1410	1460
Total Suspended Solids	<10	20	22	10	16
TDS (Measured at 180 C)	1150	1090	1040	1050	1040
Water Temperature (C) (Fld)	11.4	12.09	11.4	10.83	10.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-116	EH-116	EH-116	EH-116	EH-116	EH-116
Water	SAMPLE DATE	5/1/2008	7/16/2008	11/4/2008	11/4/2008	2/4/2009	5/11/2009
	SAMPLE TIME	16:15	11:40	10:47	10:57	14:35	15:25
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08050028-004	H08070334-014	H08110046-004	H08110046-005	H09020058-005	H09050178-012
	SAMPLE NUMBER	AEH-0805-134	AEH-0807-142	AEH-0811-160	AEH-0811-161	AEH-0902-138	AEH-0905-173
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	180	170	180	180	200	190
Calcium (Ca) (DIS)	88	86	112	114	94	86
Chloride (Cl)	82	88	90	91	69	59
Magnesium (Mg) (DIS)	21	19	26	26	20	21
Potassium (K) (DIS)	6	6	7	7	6	7
Sodium (Na) (DIS)	211	214	233	233	215	206
Sulfate (SO4)	480	520	610	620	570	510
Total Alkalinity As CaCO3	150	140	150	150	160	150

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005 J		0.005	<0.005		
Selenium-VI (DIS)	0.236 J		0.385	0.381		
Aluminum (Al) (DIS)	<0.1		<0.1	<0.1		<0.1
Antimony (Sb) (DIS)	<0.005		<0.005	<0.005		<0.003
Arsenic (As) (DIS)	0.008	0.009	0.008	0.009	0.007	0.008
Arsenic III (DIS)	<0.005		<0.005	<0.005		
Arsenic V (DIS)	<0.005		<0.005	<0.005		
Barium (Ba) (DIS)	<0.1		<0.1	<0.1		<0.1
Beryllium (Be) (DIS)	<0.001		<0.001	<0.001		<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001		<0.001	<0.001		<0.001
Cobalt (Co) (DIS)	<0.01		<0.01	<0.01		0.0019 UJ
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.003
Gold (Au) (DIS)						<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.006		<0.006	<0.006		<0.0001
Nickel (Ni) (DIS)	<0.01		<0.01	<0.01		<0.01
Selenium (Se) (DIS)	0.305	0.398	0.402	0.408	0.264	0.244
Silver (Ag) (DIS)	<0.005		<0.005 J-	<0.005 J-		<0.005 R
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)	<0.002		<0.002	<0.002		<0.001
Vanadium (V) (DIS)	<0.01		<0.01	<0.01		<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.02	<0.02	<0.02	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.48	0.37	0.37		0.4	0.44
pH	6.9	6.8	6.5	6.5	6.8	6.7
Depth To Water Level (ft)	32.45	29.69	26.76		30.86	33.2
pH (Fld)	6.51	6.19	6.13		6.18	6.35

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-116	EH-116	EH-116	EH-116	EH-116	EH-116
Water	SAMPLE DATE	5/1/2008	7/16/2008	11/4/2008	11/4/2008	2/4/2009	5/11/2009
	SAMPLE TIME	16:15	11:40	10:47	10:57	14:35	15:25
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	ELI	Hydrometrics	Hydrometrics
	LAB NUMBER	H08050028-004	H08070334-014	H08110046-004	H08110046-005	H09020058-005	H09050178-012
	SAMPLE NUMBER	AEH-0805-134	AEH-0807-142	AEH-0811-160	AEH-0811-161	AEH-0902-138	AEH-0905-173
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		
<b>Physical/Fid-Lab: ppm unless noted</b>							
	SC (umhos/cm at 25 C) (Fld)	1564	1638	1616		1612	1495
	SC (umhos/cm at 25 C)	1450	1540	1690	1680	1450	1510
	Total Suspended Solids	31	24	<10	<10	30	<10
	TDS (Measured at 180 C)	1070	1120	1170	1170	1120	1040
	Water Temperature (C) (Fld)	11.5	11.8	10.84		10.9	11.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-117	EH-117	EH-117	EH-117	EH-117	EH-117
Water	SAMPLE DATE	11/10/2005	5/1/2006	6/20/2006	9/21/2006	9/21/2006	11/13/2006
	SAMPLE TIME	15:45	12:35	15:10	14:55	15:00	12:20
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	H05110092-011	H06050010-004	H06060206-004	H06090189-007	H06090189-008	H06110099-004
	SAMPLE NUMBER	AEH-0511-153	AEH-0605-103	AEH-0606-122	AEH-0609-106	AEH-0609-107	AEH-0611-162
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	New Well					EPA Split
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	180	210	200	200	200	210
Calcium (Ca) (DIS)	207	191	190 J	150	153	142
Chloride (Cl)	119	117	117	115	115	92
Magnesium (Mg) (DIS)	45	40	40 J	34	34	30
Potassium (K) (DIS)	6	6	6 J	6	7	6
Sodium (Na) (DIS)	138	164	165	184	184	173
Sulfate (SO4)	644	702	689	617	593	572
Total Alkalinity As CaCO3	140	170	160	170	170	170

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.002	0.005	0.005	0.005	0.005	0.008
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.005	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.02 J	0.02	<0.02 J	0.04	0.05	<0.02 J
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.06	<0.02	<0.01 J	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02 J	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				86.9		135.4
Oxygen (O) (DIS) (Fld)	8.65	4.65	3.25	2.15		3.43
pH	6.9	6.7	6.8	6.7	6.7	6.7
Depth To Water Level (ft)	24.51	27.86	23.79	17.82		19.82
pH (Fld)	6.68	6.43	6.35	6.31		6.4
SC (umhos/cm at 25 C) (Fld)	1845	1800	1821	1703		1618
SC (umhos/cm at 25 C)	1740	1670	1690	1670	1660	1530
Total Suspended Solids	649	651	57	14	12	24 J
TDS (Measured at 180 C)	1350	1390	1370	1280	1270	1160
Water Temperature (C) (Fld)	11.13	11.67	11.42	10.93		10.69

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-117	EH-117	EH-117	EH-117	EH-117	EH-117
Water	SAMPLE DATE	3/27/2007	5/23/2007	5/23/2007	7/24/2007	9/6/2007	11/15/2007
	SAMPLE TIME	09:35	10:30	10:30	08:30	11:55	12:17
	LAB	ELI	EPA-R8	ELI	ELI	ELI	ELI
	LAB NUMBER	H07030213-003	8705007-22	H07050275-003	H07070241-001	H07090052-007	H07110130-004
	SAMPLE NUMBER	AEH-0703-102	AEH-0705-217	AEH-0705-217	AEH-0707-100	AEH-0709-125	AEH-0711-130
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		AEH-0705-217-S	EPA Split		Split w/EPA	EPA Split
	REMARKS		Split				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	190		200	190	200	
Bicarbonate (HCO3) (dis)						200
Calcium (Ca) (DIS)	84		111	158	166	125
Chloride (Cl)	72		82	102	97	85
Magnesium (Mg) (DIS)	22		25	35	36	29
Potassium (K) (DIS)	6		6	5	6	6
Sodium (Na) (DIS)	181		176	179	181	193
Sulfate (SO4)	413		498	664	533	488
Total Alkalinity As CaCO3	160		170	160	160	160

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)			<0.005			<0.005
Selenium-VI (DIS)			0.133			0.14
Aluminum (Al) (DIS)		<0.1				
Antimony (Sb) (DIS)		<0.001				
Arsenic (As) (DIS)	0.004	0.0137	0.008 UJ	0.013 UJ	0.007 UJ	0.008
Arsenic III (DIS)	<0.001		<0.005 J			<0.001
Arsenic V (DIS)	<0.001		<0.005			<0.001
Barium (Ba) (DIS)		0.024				
Beryllium (Be) (DIS)		<0.001				
Cadmium (Cd) (DIS)	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.002				
Cobalt (Co) (DIS)		<0.002				
Copper (Cu) (DIS)	<0.004	<0.01	<0.004	<0.004	<0.004	0.002 UJ
Iron (Fe) (DIS)	<0.02	<0.1	<0.02	<0.02	0.02 UJ	<0.01
Lead (Pb) (DIS)	<0.005	<0.001	<0.005	<0.005	<0.005	<0.003
Manganese (Mn) (DIS)	<0.01	0.002	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)		0.00024				
Nickel (Ni) (DIS)		0.0049				
Selenium (Se) (DIS)	0.18	0.211	0.187	0.142	0.149	0.195
Silver (Ag) (DIS)		<0.0005				
Thallium (Tl) (DIS)		<0.0003				
Tin (Sn) (DIS)		<0.2				
Vanadium (V) (DIS)		<0.01				
Zinc (Zn) (DIS)	<0.02	<0.04	<0.01	0.01 UJ	<0.01	<0.01

**Nutrients: ppm unless noted**

Total Organic Carbon			<0.5			
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**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	181.8				110.9	
Oxygen (O) (DIS) (Fld)	2.76		2.33	1.36	1.7	1.85
pH	6.9		7.4	6.9	6.8	7.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-117	EH-117	EH-117	EH-117	EH-117
Water	SAMPLE DATE	3/27/2007	5/23/2007	7/24/2007	9/6/2007	11/15/2007
	SAMPLE TIME	09:35	10:30	08:30	11:55	12:17
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H07030213-003	H07050275-003	H07070241-001	H07090052-007	H07110130-004
	SAMPLE NUMBER	AEH-0703-102	AEH-0705-217	AEH-0707-100	AEH-0709-125	AEH-0711-130
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION		EPA Split		Split w/EPA	EPA Split
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

Depth To Water Level (ft)	25.52	27.06	22.55	22.28	23.21
pH (Fld)	6.39	6.48	6.44	6.31	6.51
SC (umhos/cm at 25 C) (Fld)	1236	1590	1785	1730	1572
SC (umhos/cm at 25 C)	1300	1440	1680	1430	1520
Total Suspended Solids	64	29	22	11	16
TDS (Measured at 180 C)	922	1110	1320	1250	1170
Water Temperature (C) (Fld)	10.3	11.2	12.5	11.27	10.87

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-117	EH-117	EH-117	EH-117	EH-117	EH-117
Water	SAMPLE DATE	1/30/2008	5/1/2008	7/16/2008	11/4/2008	2/4/2009	5/11/2009
	SAMPLE TIME	15:45	16:40	11:10	10:19	14:15	14:30
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08010227-013	H08050028-005	H08070334-013	H08110046-003	H09020058-004	H09050178-010
	SAMPLE NUMBER	AEH-0801-122	AEH-0805-135	AEH-0807-141	AEH-0811-159	AEH-0902-137	AEH-0905-171
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	210	210	200	210	210	210	
Calcium (Ca) (DIS)	140	158	143	158	141	140	
Chloride (Cl)	92	85	88	91	89	78	
Magnesium (Mg) (DIS)	31	35	32	34	29	32	
Potassium (K) (DIS)	6	6	6	7	6	6	
Sodium (Na) (DIS)	180	172	158	198	179	180	
Sulfate (SO4)	588	570	570	660	630	590	
Total Alkalinity As CaCO3	170	170	160	170	170	170	
<b>Metals (mg/L): ppm unless noted</b>							
Selenium-IV (DIS)		<0.005 J		<0.005			
Selenium-VI (DIS)		0.123 J		0.165			
Aluminum (Al) (DIS)		<0.1		<0.1			<0.1
Antimony (Sb) (DIS)		<0.005		<0.005			<0.003
Arsenic (As) (DIS)	0.009	0.007	0.007	0.006	0.006	0.011	
Arsenic III (DIS)		<0.005		<0.005			
Arsenic V (DIS)		<0.005		<0.005			
Barium (Ba) (DIS)		<0.1		<0.1			<0.1
Beryllium (Be) (DIS)		<0.001		<0.001			<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.001		<0.001			<0.001
Cobalt (Co) (DIS)		<0.01		<0.01			0.0011 UJ
Copper (Cu) (DIS)	<0.004	<0.004	0.005	<0.004	<0.004	0.003	
Gold (Au) (DIS)							<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)		<0.006		<0.006			0.0002
Nickel (Ni) (DIS)		<0.01		<0.01			<0.01
Selenium (Se) (DIS)	0.183	0.172	0.187	0.181	0.179	0.242	
Silver (Ag) (DIS)		<0.005		<0.005 J-			<0.005
Tellurium (Te) (DIS)							<0.1
Thallium (Tl) (DIS)		<0.002		<0.002			<0.001
Vanadium (V) (DIS)		<0.01		<0.01			<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.01
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	0.79	0.59	1.9	0.71	0.56	0.58	
pH	7	6.9	6.9	6.7	6.8	6.7	
Depth To Water Level (ft)	27.72	30.83	26.71	25.11	29.07	31.46	
pH (Fld)	6.46	6.4	6.35	6.27	6.37	6.48	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-117	EH-117	EH-117	EH-117	EH-117	EH-117
Water	SAMPLE DATE	1/30/2008	5/1/2008	7/16/2008	11/4/2008	2/4/2009	5/11/2009
	SAMPLE TIME	15:45	16:40	11:10	10:19	14:15	14:30
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H08010227-013	H08050028-005	H08070334-013	H08110046-003	H09020058-004	H09050178-010
	SAMPLE NUMBER	AEH-0801-122	AEH-0805-135	AEH-0807-141	AEH-0811-159	AEH-0902-137	AEH-0905-171
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

DESCRIPTION	EH-117	EH-117	EH-117	EH-117	EH-117	EH-117
SC (umhos/cm at 25 C) (Fld)	1793	1741	1700	1692	1733	1669
SC (umhos/cm at 25 C)	1650	1590	1580	1760	1570	1680
Total Suspended Solids	19	237	50	<10	10	52 J+
TDS (Measured at 180 C)	1240	1260	1220	1240	1260	1230
Water Temperature (C) (Fld)	10.6	11.4	11	10.84	11.7	11.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-118	EH-118	EH-118	EH-118	EH-118
Water	SAMPLE DATE	5/8/2008	7/14/2008	10/29/2008	2/2/2009	5/5/2009
	SAMPLE TIME	13:30	09:05	09:55	11:55	12:20
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08050163-001	H08070284-002	H08100394-004	H09020024-003	H09050115-008
	SAMPLE NUMBER	AEH-0805-189	AEH-0807-101	AEH-0811-123	AEH-0902-102	AEH-0905-116
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	170	170	190	190	180
Calcium (Ca) (DIS)	40	52	68	53	46
Chloride (Cl)	17	20	24	14	14
Magnesium (Mg) (DIS)	14	17	21	16	15
Potassium (K) (DIS)	4	4	5	4	4
Sodium (Na) (DIS)	44	25	25	23	20
Sulfate (SO4)	74	96	120	87	76
Total Alkalinity As CaCO3	140	140	150	160	150

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005		<0.005		
Selenium-VI (DIS)	<0.005		0.044		
Aluminum (Al) (DIS)	<0.1		<0.1		<0.1
Antimony (Sb) (DIS)	<0.005		<0.005		<0.003
Arsenic (As) (DIS)	<0.002	0.002	<0.002	<0.002	<0.005
Arsenic III (DIS)	<0.005		<0.005		
Arsenic V (DIS)	<0.005		<0.005 J		
Barium (Ba) (DIS)	<0.1		<0.1		<0.1
Beryllium (Be) (DIS)	<0.001		<0.001		<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001		<0.001		<0.001
Cobalt (Co) (DIS)	<0.01		<0.01		<0.0005
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.001
Gold (Au) (DIS)					<0.01 UJ
Iron (Fe) (DIS)	0.02	0.04	0.02	0.12	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.02	0.02	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.006		<0.006		<0.0001
Nickel (Ni) (DIS)	<0.01		<0.01		<0.01
Selenium (Se) (DIS)	<0.005	0.014	0.051	0.013	0.009
Silver (Ag) (DIS)	<0.005		<0.005 J		<0.005
Tellurium (Te) (DIS)					<0.1
Thallium (Tl) (DIS)	<0.002		<0.002		<0.001
Vanadium (V) (DIS)	<0.01		<0.01		<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.02	<0.02	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.91	7	7.21	8.04	8.13
pH	7.5	7.4	7.4	7.4	7.5
Depth To Water Level (ft)	37.72	36.16	31.82	36.07	38.51
pH (Fld)	7.2	7	6.66	6.96	7.06

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-118	EH-118	EH-118	EH-118	EH-118
Water	SAMPLE DATE	5/8/2008	7/14/2008	10/29/2008	2/2/2009	5/5/2009
	SAMPLE TIME	13:30	09:05	09:55	11:55	12:20
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H08050163-001	H08070284-002	H08100394-004	H09020024-003	H09050115-008
	SAMPLE NUMBER	AEH-0805-189	AEH-0807-101	AEH-0811-123	AEH-0902-102	AEH-0905-116
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	472	542	599	509	472
SC (umhos/cm at 25 C)	477	509	587	545	483
Total Suspended Solids	2160	539	125 J	556	530 J
TDS (Measured at 180 C)	290	335	386	334	310
Water Temperature (C) (Fid)	11.2	11.3	10.6	10.5	11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-119	EH-119	EH-119	EH-119	EH-119	EH-119
Water	SAMPLE DATE	5/8/2008	7/14/2008	7/14/2008	10/29/2008	2/2/2009	5/11/2009
	SAMPLE TIME	14:30	09:45	09:55	10:20	13:15	15:00
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08050163-002	H08070284-003	H08070284-004	H08100394-005	H09020024-004	H09050178-011
	SAMPLE NUMBER	AEH-0805-190	AEH-0807-102	AEH-0807-103	AEH-0811-124	AEH-0902-103	AEH-0905-172
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	190	210	210	210	240	220
Calcium (Ca) (DIS)	53	64	64	109	111	79
Chloride (Cl)	24	37	37	59	56	34
Magnesium (Mg) (DIS)	17	20	20	34	33	26
Potassium (K) (DIS)	4	4	4	5	5	5
Sodium (Na) (DIS)	68	77	77	94	95	80
Sulfate (SO4)	150	210	210	330	380	260
Total Alkalinity As CaCO3	160	170	170	170	200	180

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005			0.01 J+		
Selenium-VI (DIS)	0.0511			0.249		
Aluminum (Al) (DIS)	<0.1			<0.1		<0.1
Antimony (Sb) (DIS)	<0.005			<0.005		<0.003
Arsenic (As) (DIS)	<0.002	0.004	0.003	0.006	0.008	<0.005
Arsenic III (DIS)	<0.005			<0.005		
Arsenic V (DIS)	<0.005			<0.005 J-		
Barium (Ba) (DIS)	<0.1			<0.1		<0.1
Beryllium (Be) (DIS)	<0.001			<0.001		<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001			<0.001		<0.001
Cobalt (Co) (DIS)	<0.01			<0.01		0.0006 UJ
Copper (Cu) (DIS)	0.013	<0.004	<0.004	<0.004	<0.004	<0.001
Gold (Au) (DIS)						<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.006			<0.006		<0.0001
Nickel (Ni) (DIS)	<0.01			<0.01		<0.01
Selenium (Se) (DIS)	0.065	0.119	0.119	0.28	0.253	0.151
Silver (Ag) (DIS)	<0.005			<0.005 J		<0.005 R
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)	<0.002			<0.002		<0.001
Vanadium (V) (DIS)	<0.01			<0.01		<0.01
Zinc (Zn) (DIS)	0.02	<0.01	<0.01	<0.02	<0.02	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.07	6.29		4.03	4.38	6.22
pH	7.1	7.2	7.2	7.2	7.1	7.2
Depth To Water Level (ft)	34.87	37.85		29.65	33.48	35.71
pH (Fld)	6.92	6.81		6.63	6.73	6.93

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-119	EH-119	EH-119	EH-119	EH-119	EH-119
Water	SAMPLE DATE	5/8/2008	7/14/2008	7/14/2008	10/29/2008	2/2/2009	5/11/2009
	SAMPLE TIME	14:30	09:45	09:55	10:20	13:15	15:00
	LAB	Hydrometrics	Hydrometrics	ELI	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H08050163-002	H08070284-003	H08070284-004	H08100394-005	H09020024-004	H09050178-011
	SAMPLE NUMBER	AEH-0805-190	AEH-0807-102	AEH-0807-103	AEH-0811-124	AEH-0902-103	AEH-0905-172
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			

**Physical/Fld-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)	678	875		1151	1214	947
SC (umhos/cm at 25 C)	678	808	812	1120	1280	957
Total Suspended Solids	<10	<10	<10	<10 J	<10	<10
TDS (Measured at 180 C)	447	557	580	788	862	651
Water Temperature (C) (Fld)	11.3	11.1		10.4	10.2	10.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-120	EH-120	EH-120	EH-120	EH-120	EH-120
Water	SAMPLE DATE	5/8/2008	7/14/2008	10/29/2008	2/2/2009	5/12/2009	5/12/2009
	SAMPLE TIME	15:40	11:50	11:00	13:45	10:45	10:50
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08050163-003	H08070284-005	H08100394-006	H09020024-005	H09050193-003	H09050193-004
	SAMPLE NUMBER	AEH-0805-191	AEH-0807-104	AEH-0811-125	AEH-0902-104	AEH-0905-177	AEH-0905-178
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	160	160	170	170	170	170	170
Calcium (Ca) (DIS)	248	241	268	239	241	238	238
Chloride (Cl)	98	83	83	81	70	71	71
Magnesium (Mg) (DIS)	53	52	57	49	52	52	52
Potassium (K) (DIS)	7	7	7	7	7	7	7
Sodium (Na) (DIS)	99	103	108	107	107	104	104
Sulfate (SO4)	800	840	790	820	810	820	820
Total Alkalinity As CaCO3	130	130	140	140	140	140	140
<b>Metals (mg/L): ppm unless noted</b>							
Selenium-IV (DIS)	<0.005 J		<0.005 J				
Selenium-VI (DIS)	0.0699 J		0.083 J				
Aluminum (Al) (DIS)	<0.1		<0.1		<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.005		<0.005		<0.003	<0.003	<0.003
Arsenic (As) (DIS)	<0.002	0.01	0.008	0.012	0.013	0.014	0.014
Arsenic III (DIS)	<0.005		<0.005				
Arsenic V (DIS)	<0.005		<0.005 J-				
Barium (Ba) (DIS)	<0.1		<0.1		<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	0.002		<0.001		<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001		<0.001		<0.001	<0.001	<0.001
Cobalt (Co) (DIS)	<0.01		<0.01		0.0013	0.0017	0.0017
Copper (Cu) (DIS)	0.083	<0.004	<0.004	<0.004	0.005 UJ	0.004 UJ	0.004 UJ
Gold (Au) (DIS)					<0.01	<0.01	<0.01
Iron (Fe) (DIS)	<0.02	<0.02	0.2	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.006		<0.006		0.0004	0.0005	0.0005
Nickel (Ni) (DIS)	<0.01		<0.01		<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.105	0.135	0.121	0.149	0.166	0.169	0.169
Silver (Ag) (DIS)	<0.005		<0.005 J		<0.005 R	<0.005 R	<0.005 R
Tellurium (Te) (DIS)					<0.1	<0.1	<0.1
Thallium (Tl) (DIS)	<0.002		<0.002		<0.001	<0.001	<0.001
Vanadium (V) (DIS)	<0.01		<0.01		<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	0.03	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	0.73	0.3	0.33	1.1	0.3		
pH	6.6	6.8	6.8	6.8	6.8	6.9	6.9
Depth To Water Level (ft)	32.28	26.82	28.65	32.05	33.1		
pH (Fld)	6.45	6.36	6.37	6.33	6.51		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-120	EH-120	EH-120	EH-120	EH-120	EH-120
Water	SAMPLE DATE	5/8/2008	7/14/2008	10/29/2008	2/2/2009	5/12/2009	5/12/2009
	SAMPLE TIME	15:40	11:50	11:00	13:45	10:45	10:50
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	ELI
	LAB NUMBER	H08050163-003	H08070284-005	H08100394-006	H09020024-005	H09050193-003	H09050193-004
	SAMPLE NUMBER	AEH-0805-191	AEH-0807-104	AEH-0811-125	AEH-0902-104	AEH-0905-177	AEH-0905-178
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
<b>Physical/Fid-Lab: ppm unless noted</b>							
	SC (umhos/cm at 25 C) (Fid)	1715	1969	1898	1863	1857	
	SC (umhos/cm at 25 C)	1700	1750	1840	1930	1840	1840
	Total Suspended Solids	<10	<10	<10 J	69	<10	<10
	TDS (Measured at 180 C)	1480	1500	1490	1490	1490	1500
	Water Temperature (C) (Fid)	11.6	13.5	10.8	10.8	10.9	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-121	EH-121	EH-121	EH-121	EH-121
Water	SAMPLE DATE	5/8/2008	7/14/2008	10/28/2008	2/2/2009	5/5/2009
	SAMPLE TIME	11:10	14:00	15:50	14:10	12:50
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08050154-009	H08070284-008	H08100377-010	H09020024-007	H09050115-010
	SAMPLE NUMBER	AEH-0805-186	AEH-0807-107	AEH-0811-117	AEH-0902-106	AEH-0905-118
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	100	98	100	100	97
Calcium (Ca) (DIS)	39	30	34	31	30
Chloride (Cl)	5	5	5	4	4
Magnesium (Mg) (DIS)	9	7	8	6	7
Potassium (K) (DIS)	3	2	3	2	3
Sodium (Na) (DIS)	13	12	13	13	12
Sulfate (SO4)	53	53	58	52	54
Total Alkalinity As CaCO3	84	80	84	83	80

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005		<0.005		
Selenium-VI (DIS)	<0.005		<0.005		
Aluminum (Al) (DIS)	<0.1		<0.1		<0.1
Antimony (Sb) (DIS)	<0.005		<0.005		<0.003
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.005
Arsenic III (DIS)	<0.005		<0.005		
Arsenic V (DIS)	<0.005		<0.005 J-		
Barium (Ba) (DIS)	<0.1		<0.1		<0.1
Beryllium (Be) (DIS)	<0.001		<0.001		<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001		<0.001		<0.001
Cobalt (Co) (DIS)	<0.01		<0.01		<0.0005
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.001
Gold (Au) (DIS)					<0.01 UJ
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.006		<0.006		<0.0001
Nickel (Ni) (DIS)	<0.01		<0.01		<0.01
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.001
Silver (Ag) (DIS)	<0.005		<0.005		<0.005
Tellurium (Te) (DIS)					<0.1
Thallium (Tl) (DIS)	<0.002		<0.002		<0.001
Vanadium (V) (DIS)	<0.01		<0.01		<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.02	<0.02	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.52	2.25	2.89	4.01	5.06
pH	7.4	7.3	7.4	7.1	7.3
Depth To Water Level (ft)	32.47	24.41	29.26	32.08	31.52
pH (Fld)	6.8	6.67	7.21	6.64	6.87

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-121	EH-121	EH-121	EH-121	EH-121
Water	SAMPLE DATE	5/8/2008	7/14/2008	10/28/2008	2/2/2009	5/5/2009
	SAMPLE TIME	11:10	14:00	15:50	14:10	12:50
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H08050154-009	H08070284-008	H08100377-010	H09020024-007	H09050115-010
	SAMPLE NUMBER	AEH-0805-186	AEH-0807-107	AEH-0811-117	AEH-0902-106	AEH-0905-118
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	292	293	289	290	289
SC (umhos/cm at 25 C)	290	282	288	308	296
Total Suspended Solids	<10	<10	<10	<10	<10 J
TDS (Measured at 180 C)	189	177	189	183	179
Water Temperature (C) (Fid)	10.2	10.5	9.7	9.5	9.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-122	EH-122	EH-122	EH-122	EH-122	EH-122
Water	SAMPLE DATE	5/8/2008	5/8/2008	7/14/2008	10/29/2008	2/2/2009	5/5/2009
	SAMPLE TIME	09:55	10:10	12:35	09:10	15:00	15:25
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08050154-007	H08050154-008	H08070284-006	H08100394-001	H09020024-010	H09050115-013
	SAMPLE NUMBER	AEH-0805-184	AEH-0805-185	AEH-0807-105	AEH-0811-120	AEH-0902-109	AEH-0905-121
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	96	96	98	98	97	96
Calcium (Ca) (DIS)	37	37	29	33	30	28
Chloride (Cl)	5	5	5	5	4	4
Magnesium (Mg) (DIS)	8	8	6	8	6	6
Potassium (K) (DIS)	3	3	2	3	2	3
Sodium (Na) (DIS)	14	14	12	13	12	11
Sulfate (SO4)	53	53	51	53	49	48
Total Alkalinity As CaCO3	78	78	80	81	80	79

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005		<0.005		
Selenium-VI (DIS)	<0.005	<0.005		<0.005		
Aluminum (Al) (DIS)	<0.1	<0.1		<0.1		<0.1
Antimony (Sb) (DIS)	<0.005	<0.005		<0.005		<0.003
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005
Arsenic III (DIS)	<0.005	<0.005		<0.005		
Arsenic V (DIS)	<0.005	<0.005		<0.005 J-		
Barium (Ba) (DIS)	<0.1	<0.1		<0.1		<0.1
Beryllium (Be) (DIS)	<0.001	<0.001		<0.001		<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001		<0.001		<0.001
Cobalt (Co) (DIS)	<0.01	<0.01		<0.01		<0.0005
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.001
Gold (Au) (DIS)						<0.01 UJ
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	0.03	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.006	<0.006		<0.006		<0.0001
Nickel (Ni) (DIS)	<0.01	<0.01		<0.01		<0.01
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
Silver (Ag) (DIS)	<0.005	<0.005		<0.005 J		<0.005
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)	<0.002	<0.002		<0.002		<0.001
Vanadium (V) (DIS)	<0.01	<0.01		<0.01		<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	10.82		2.78	5.32	5.54	5.5
pH	7.8	7.5	7.2	7.1	7.1	7.5
Depth To Water Level (ft)	27.5		20.72	25.95	28.74	27.56
pH (Fld)	6.8		6.69	6.43	6.67	6.82

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-122	EH-122	EH-122	EH-122	EH-122	EH-122
Water	SAMPLE DATE	5/8/2008	5/8/2008	7/14/2008	10/29/2008	2/2/2009	5/5/2009
	SAMPLE TIME	09:55	10:10	12:35	09:10	15:00	15:25
	LAB	Hydrometrics	ELI	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H08050154-007	H08050154-008	H08070284-006	H08100394-001	H09020024-010	H09050115-013
	SAMPLE NUMBER	AEH-0805-184	AEH-0805-185	AEH-0807-105	AEH-0811-120	AEH-0902-109	AEH-0905-121
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)	284		288	286	276	268
SC (umhos/cm at 25 C)	282	256	276	283	293	276
Total Suspended Solids	12	13	<10	<10 J	<10	<10 J
TDS (Measured at 180 C)	199	197	182	188	184	178
Water Temperature (C) (Fld)	9.7		9.8	9.1	9.1	9.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-123	EH-123	EH-124	EH-124
Water	SAMPLE DATE	5/5/2009	5/15/2009	5/5/2009	5/5/2009
	SAMPLE TIME	09:25	16:25	10:00	10:20
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H09050115-001	H09050248-007	H09050115-002	H09050115-003
	SAMPLE NUMBER	AEH-0905-109	AEH-0905-237	AEH-0905-110	AEH-0905-111
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS				Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	210		180	180
Calcium (Ca) (DIS)	57		44	43
Chloride (Cl)	20		12	12
Magnesium (Mg) (DIS)	18		12	12
Potassium (K) (DIS)	6		5	5
Sodium (Na) (DIS)	35		28	28
Sulfate (SO4)	110		74	74
Total Alkalinity As CaCO3	170		150	140

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1		<0.1	<0.1
Antimony (Sb) (DIS)	<0.003		<0.003	<0.003
Arsenic (As) (DIS)	0.007	0.01	<0.005	<0.005
Barium (Ba) (DIS)	<0.1		<0.1	<0.1
Beryllium (Be) (DIS)	<0.001		<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001		<0.001	<0.001
Chromium (Cr) (DIS)	<0.001		<0.001	<0.001
Cobalt (Co) (DIS)	<0.0005		<0.0005	<0.0005
Copper (Cu) (DIS)	<0.001		<0.001	<0.001
Gold (Au) (DIS)	<0.01 UJ		<0.01 UJ	<0.01 UJ
Iron (Fe) (DIS)	<0.02		<0.02	<0.02
Lead (Pb) (DIS)	<0.005		<0.005	<0.005
Manganese (Mn) (DIS)	<0.01		<0.01	<0.01
Mercury (Hg) (DIS)	<0.0001		<0.0001	<0.0001
Nickel (Ni) (DIS)	<0.01		<0.01	<0.01
Selenium (Se) (DIS)	0.003	0.005	0.002	0.003
Silver (Ag) (DIS)	<0.005		<0.005	<0.005
Tellurium (Te) (DIS)	<0.1		<0.1	<0.1
Thallium (Tl) (DIS)	<0.001		<0.001	<0.001
Vanadium (V) (DIS)	<0.01		<0.01	<0.01
Zinc (Zn) (DIS)	<0.01		<0.01	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	8.26	8.57	13.19	
pH	7.7		7.8	7.8
Depth To Water Level (ft)	44.05	44.1	39.22	
pH (Fld)	7.27	7.27	7.31	
SC (umhos/cm at 25 C) (Fld)	616	626	468	
SC (umhos/cm at 25 C)	626		477	478

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-123	EH-123	EH-124	EH-124
Water	SAMPLE DATE	5/5/2009	5/15/2009	5/5/2009	5/5/2009
	SAMPLE TIME	09:25	16:25	10:00	10:20
	LAB	ELI	Hydrometrics	ELI	ELI
	LAB NUMBER	H09050115-001	H09050248-007	H09050115-002	H09050115-003
	SAMPLE NUMBER	AEH-0905-109	AEH-0905-237	AEH-0905-110	AEH-0905-111
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS				Field Duplicate

**Physical/Fld-Lab: ppm unless noted**

Total Suspended Solids	152 J		63 J	135 J
TDS (Measured at 180 C)	407		314	307
Water Temperature (C) (Fld)	11.9	12	10.8	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-125	EH-125	EH-125	EH-126	EH-126
Water	SAMPLE DATE	5/5/2009	5/15/2009	5/15/2009	5/5/2009	5/15/2009
	SAMPLE TIME	11:05	11:15	11:20	10:35	10:35
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H09050115-005	H09050248-003	H09050248-004	H09050115-004	H09050248-002
	SAMPLE NUMBER	AEH-0905-113	AEH-0905-227	AEH-0905-228	AEH-0905-112	AEH-0905-226
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	160			200	
Calcium (Ca) (DIS)	114			52	
Chloride (Cl)	42			17	
Magnesium (Mg) (DIS)	30			24	
Potassium (K) (DIS)	5			3	
Sodium (Na) (DIS)	83			23	
Sulfate (SO4)	430			110	
Total Alkalinity As CaCO3	130			160	

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1			<0.1	
Antimony (Sb) (DIS)	<0.003			<0.003	
Arsenic (As) (DIS)	<0.005	0.007	0.007	<0.005	0.006
Barium (Ba) (DIS)	<0.1			<0.1	
Beryllium (Be) (DIS)	<0.001			<0.001	
Cadmium (Cd) (DIS)	<0.001			<0.001	
Chromium (Cr) (DIS)	<0.001			<0.001	
Cobalt (Co) (DIS)	<0.0005			<0.0005	
Copper (Cu) (DIS)	0.001			<0.001	
Gold (Au) (DIS)	<0.01 UJ			<0.01 UJ	
Iron (Fe) (DIS)	<0.02			<0.02	
Lead (Pb) (DIS)	<0.005			<0.005	
Manganese (Mn) (DIS)	<0.01			<0.01	
Mercury (Hg) (DIS)	<0.0001			<0.0001	
Nickel (Ni) (DIS)	<0.01			<0.01	
Selenium (Se) (DIS)	0.108	0.118	0.116	0.028	0.042
Silver (Ag) (DIS)	<0.005			<0.005	
Tellurium (Te) (DIS)	<0.1			<0.1	
Thallium (Tl) (DIS)	<0.001			<0.001	
Vanadium (V) (DIS)	<0.01			<0.01	
Zinc (Zn) (DIS)	<0.01			<0.01	

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.78	4.47		10.44	11.16
pH	7.3			7.7	
Depth To Water Level (ft)	37.83	36.8		58.35	57.75
pH (Fld)	6.67	6.68		7.28	7.33
SC (umhos/cm at 25 C) (Fld)	1193	1404		578	612
SC (umhos/cm at 25 C)	1190			586	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-125	EH-125	EH-126	EH-126
Water	SAMPLE DATE	5/5/2009	5/15/2009	5/5/2009	5/15/2009
	SAMPLE TIME	11:05	11:15	10:35	10:35
	LAB	ELI	Hydrometrics	ELI	Hydrometrics
	LAB NUMBER	H09050115-005	H09050248-003	H09050115-004	H09050248-002
	SAMPLE NUMBER	AEH-0905-113	AEH-0905-227	AEH-0905-112	AEH-0905-226
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS				

**Physical/Fid-Lab: ppm unless noted**

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Total Suspended Solids	36 J		43 J	
TDS (Measured at 180 C)	876		384	
Water Temperature (C) (Fld)	10.8	10.7	11.3	11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-127	EH-127	EH-50	EH-50	EH-50
Water	SAMPLE DATE	5/5/2009	5/15/2009	11/7/1986	11/7/1986	11/7/1986
	SAMPLE TIME	11:40	12:00	00:00	00:00	00:00
	LAB	ELI	ELI	RMAL	TSC-SLC	RMAL
	LAB NUMBER	H09050115-006	H09050248-005	8611-8	86-7467	8611-9
	SAMPLE NUMBER	AEH-0905-114	AEH-0905-229	AEH-8611-8	AEH-8611-8	AEH-8611-9
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Split		Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>						
	Bicarbonate (HCO3)	95		230	303 M	
	Calcium (Ca) (DIS)	27		262	251	255
	Carbonate As CO3			<5	<1	
	Chloride (Cl)	4		117	116	
	Magnesium (Mg) (DIS)	6		62.5	56	60.4
	Potassium (K) (DIS)	3		9.9	11 M	9.6
	Sodium (Na) (DIS)	12		147	144	144
	Sulfate (SO4)	49		723	683	
	Total Alkalinity As CACO3	78				
<b>Metals (mg/L): ppm unless noted</b>						
	Aluminum (Al) (DIS)	<0.1				
	Antimony (Sb) (DIS)	<0.003				
	Arsenic (As) (DIS)	<0.005	<0.005	<0.01	<0.004	<0.01
	Arsenic III (dis)				<0.008	
	Arsenic V (dis)				0.02 M	
	Barium (Ba) (DIS)	<0.1				
	Beryllium (Be) (DIS)	<0.001				
	Cadmium (Cd) (DIS)	<0.001		<0.005	<0.001	<0.005
	Chromium (Cr) (DIS)	<0.001				
	Cobalt (Co) (DIS)	<0.0005				
	Copper (Cu) (DIS)	<0.001		<0.004	0.02 M	<0.004
	Gold (Au) (DIS)	<0.01 UJ				
	Iron (Fe +2) (TOT)				0.08	
	Iron (Fe) (DIS)	<0.02		<0.03	0.04	<0.03
	Lead (Pb) (DIS)	<0.005		<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)	0.01		0.2	0.2	0.2
	Mercury (Hg) (DIS)	<0.0001				
	Nickel (Ni) (DIS)	<0.01				
	Selenium (Se) (DIS)	<0.001	0.004			
	Silver (Ag) (DIS)	<0.005				
	Tellurium (Te) (DIS)	<0.1				
	Thallium (Tl) (DIS)	<0.001				
	Vanadium (V) (DIS)	<0.01				
	Zinc (Zn) (DIS)	<0.01		0.009	0.01	0.01
<b>Physical/Fld-Lab: ppm unless noted</b>						
	Oxygen (O) (DIS) (Fld)	7.75	8.38		5.5	
	pH	7.5		7	7	
	Depth To Water Level (ft)	31.02	29.18		23.3	
	pH (Fld)	6.88	6.94		7	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-127	EH-127	EH-50	EH-50
Water	SAMPLE DATE	5/5/2009	5/15/2009	11/7/1986	11/7/1986
	SAMPLE TIME	11:40	12:00	00:00	00:00
	LAB	Hydrometrics	Hydrometrics	RMAL	TSC-SLC
	LAB NUMBER	H09050115-006	H09050248-005	8611-8	86-7467
	SAMPLE NUMBER	AEH-0905-114	AEH-0905-229	AEH-8611-8	AEH-8611-8
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS			Split	

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)	269	271		1932 M
SC (umhos/cm at 25 C)	277		1800	1800 M
Total Suspended Solids	199 J			
TDS (Measured at 180 C)	176		1520	1658
Water Temperature (C) (Fld)	9.8	9.8		9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-50	EH-50	EH-50	EH-50	EH-50	EH-50
Water	SAMPLE DATE	11/7/1986	2/2/1987	4/22/1987	5/11/1987	8/10/1987	11/17/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	86-7468	87-777	87-2832	87-3316	87-6638	87-10541
	SAMPLE NUMBER	AEH-8611-9	AEH-8701-108	AEH-8704-25	AEH-8705-128	AEH-8708-15	AEH-8711-200
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		266	245	255	255	250
Calcium (Ca) (DIS)		376 M	257	276	245.5	
Carbonate As CO3		<1	<1	<1	<1	
Chloride (Cl)		450 A M	100	104	120	
Magnesium (Mg) (DIS)		66	64.5	78	72.5	
Potassium (K) (DIS)		8.9	8.7	8.9	9.2	
Sodium (Na) (DIS)		141	140	160	155	
Sulfate (SO4)		800	910	960	930 M	970 M

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.004	0.006 M	<0.006	0.02	0.006	<0.006 M
Arsenic III (dis)	<0.008	0.01	0.01 M		<0.008	<0.008
Arsenic V (dis)	0.009	<0.008	0.01		0.02 M	<0.008
Cadmium (Cd) (DIS)	0.001	0.001	0.001	0.005	<0.001	0.001
Copper (Cu) (DIS)	0.01	0.009	0.009	0.01	<0.008	0.01
Iron (Fe +2) (TOT)	0.05	<0.01	<0.01		<0.01	<0.01
Iron (Fe) (DIS)	0.03	<0.02	<0.02	0.05	<0.02	0.04
Lead (Pb) (DIS)	<0.005	<0.005 M	<0.005 M	<0.005 M	<0.005	<0.01 M
Manganese (Mn) (DIS)	0.2	0.03	0.02	0.07	0.009	0.006
Zinc (Zn) (DIS)	0.02	0.009	<0.008	0.3	0.008 M	<0.008

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.5	5.4	5		3.4	2.8
pH		7.8	6.7	7.2	7.4	7.9
Depth To Water Level (ft)	23.3	26.7		28.4	24	25.3
pH (Fld)	7	7	7.3		6.5	6.5
SC (umhos/cm at 25 C) (Fld)		1999	2127		2269	2284
SC (umhos/cm at 25 C)		2050	2150	2130	2300	2230
Total Suspended Solids						17
TDS (Measured at 180 C)		1807	1683 M	1706	1796	1963 M
Water Temperature (C) (Fld)	9	10.5	11 M			8.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-50	EH-50	EH-50	EH-50	EH-50	EH-50
Water	SAMPLE DATE	11/17/1987	11/17/1987	11/17/1987	4/15/1988	12/13/1988	4/12/1989
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	WYRHR	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8711-200	87-10540	8711-213	88-2717	89-28	89-484
	SAMPLE NUMBER	AEH-8711-200	AEH-8711-213	AEH-8711-213	AEH-8804-342	AEH-8812-161	AEH-8904-232
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split	Field Duplicate	Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	190	250		192		
Calcium (Ca) (DIS)	294		299	289		
Carbonate As CO3	<5			<1		
Chloride (Cl)	100			111	102	107
Magnesium (Mg) (DIS)	66.2		66.9	68		
Potassium (K) (DIS)	8.2		8.3	10.1		
Sodium (Na) (DIS)	158		159	175 J		
Sulfate (SO4)	980	950 M		1021 J	1010	1033

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.002	0.02 M	<0.002	0.007	<0.006	<0.004
Arsenic III (dis)		<0.008		<0.008	0.04 J	<0.008
Arsenic V (dis)		0.008		0.01	0.06	0.02 J
Cadmium (Cd) (DIS)	0.0001	0.001	0.0002	<0.001	<0.001	<0.002
Copper (Cu) (DIS)	0.004	0.01	0.003		0.009	<0.008
Iron (Fe +2) (TOT)		<0.01		<0.001	<0.01	<0.01
Iron (Fe) (DIS)	0.005	0.04	<0.004	<0.02		
Lead (Pb) (DIS)	<0.003	0.01	<0.003	0.02 J	0.05	<0.02
Manganese (Mn) (DIS)	0.007	0.006	0.007			
Zinc (Zn) (DIS)	0.004	<0.008	0.004	0.009	<0.008	<0.008

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		2.8		2.2	3	2.4
pH		8		6.8	6.7	6.6
Depth To Water Level (ft)		25.3		25.3	28.5	28.1
pH (Fld)		6.5		6.6	6.5	6.3
SC (umhos/cm at 25 C) (Fld)		2330		1997	222 A	2374
SC (umhos/cm at 25 C)		2260		2300	2320	2030
Total Suspended Solids		15.5				
TDS (Measured at 180 C)	1930	1983 M		1955 J	1832	2131 J
Water Temperature (C) (Fld)		8.8		11.8	10.5	12

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-50	EH-50	EH-50	EH-50	EH-50	EH-50
Water	SAMPLE DATE	10/12/1989	4/28/1990	11/28/1990	5/6/1991	11/13/1991	4/22/1992
	SAMPLE TIME	00:00	00:00	00:00	00:00	13:15	15:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-798	90-1045	90-2225	91-2677	91-3619	92-4295
	SAMPLE NUMBER	AEH-8910-440	AEH-9005-440	AEH-9011-744	AEH-9105-117	AEH-9111-321	AEH-9204-102
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	140	87.1	83 J	80	162	66 J
	Sulfate (SO4)	930	905	815 J	840	890	480
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.008	<0.008	0.009	0.006	0.009	0.005
	Arsenic III (dis)	<0.008	0.02	0.02 U	<0.004 UJ	0.03 U	0.01
	Arsenic V (dis)	0.008	0.02 U	0.005 U	0.03 UJ	0.04 U	0.004
	Cadmium (Cd) (DIS)	0.001	0.001	0.001 U	0.001	0.001	0.001
	Copper (Cu) (DIS)	<0.008	<0.008	<0.008	<0.004	0.004	<0.004
	Lead (Pb) (DIS)	<0.03 J	<0.01	<0.005 UJ	<0.005 J	<0.005 J	0.008 J
	Zinc (Zn) (DIS)	<0.008	0.008		0.01	0.04	0.006
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	4.8	3.05	4.05	4.8	7.6	7.5
	pH	7.8	7.8	7.7	7.6	7.1	7.1
	Depth To Water Level (ft)	22.3	28.3	26.5	28.9	19.8	26.2
	pH (Fld)	6.2	6.5	6.7	7	7.1	6.7
	SC (umhos/cm at 25 C) (Fld)	2341	2066	1977	1909	2240	1448
	SC (umhos/cm at 25 C)	2300	2100	1900	1950	2120	1420
	TDS (Measured at 180 C)	1868 J	1646	1563 J	1542	1876 J	1052
	Water Temperature (C) (Fld)	11.9	10.3	10.3	12.7	12.8	11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-50	EH-50	EH-50	EH-50	EH-50	EH-50
Water	SAMPLE DATE	11/14/1992	4/30/1993	11/4/1993	11/4/1993	5/5/1994	11/9/1994
	SAMPLE TIME	15:45	16:30	11:00	14:05	12:30	14:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	92-6783	93-7739	93-9147	93-9149	94-1105	94-3262
	SAMPLE NUMBER	EHC-9211-127	EHC-9305-127	EHC-9311-135	EHC-9311-163	EHC-9405-139	EHC-9411-140
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)	145	206 J				
Chloride (Cl)	64	95	129 J	125 J	143	166
Magnesium (Mg) (Dis)	39	53 J				
Potassium (K) (Dis)	6.2	7.7				
Sodium (Na) (Dis)	149	153 J				
Sulfate (SO4)	527 J	694	905 J	889 J	1063	1097
Total Hardness As CaCO3		732				

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.004 UJ	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic III (dis)	<0.004	<0.004 J	<0.004	<0.004	<0.004	0.005 U
Arsenic V (dis)	0.01 UJ	0.02 UJ	0.004 J	<0.004 J	<0.004	0.01 U
Cadmium (Cd) (DIS)	0.001	0.001 UJ	0.001	0.001	0.001	<0.002
Copper (Cu) (DIS)	0.004	<0.004	0.004	<0.004	0.004	0.004
Lead (Pb) (DIS)	<0.005 UJ	0.007 J	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	<0.006	0.01	0.02	0.02	0.01 U	0.006

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.8	5.2	6.2	6.2	4.3	6.1
pH	8					
Depth To Water Level (ft)	23.8	26.9	21	21	26.1	23.1
pH (Fld)	7	6.3	7.2	7.2	6.7	7.2
SC (umhos/cm at 25 C) (Fld)	1482	1783	2120	2140	2295	2565
SC (umhos/cm at 25 C)	1450	1600 J	2270 J	2230 J	2390	2630
TDS (Measured at 180 C)	1162	1412	1802	1772	1907	2106
Water Temperature (C) (Fld)	11.9	10.5	8.2	8.2	11.2	10.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-50	EH-50	EH-50	EH-50	EH-50	EH-50
Water	SAMPLE DATE	5/5/1995	11/6/1995	5/7/1996	11/7/1996	5/6/1997	11/4/1997
	SAMPLE TIME	13:00	17:35	18:45	09:30	09:40	13:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-4457	95-6093	96-6711	96-7764	97-910	187-2677
	SAMPLE NUMBER	EHC-9505-140	EHC-9511-142	EHC-9605-126	EHC-9611-126	EHC-9705-124	EHC-9711-126
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	159	155	147	120	104	123
	Sulfate (SO4)	1089	1057	1034	1057	756	905
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.004	<0.004	<0.005 J	0.006 J	<0.005	0.01
	Arsenic III (dis)	<0.004	<0.004	<0.005 UJ	<0.004	<0.005	<0.005
	Arsenic V (dis)	<0.004	0.005 J	<0.005 UJ	<0.004	<0.005	0.007
	Cadmium (Cd) (DIS)	0.005	0.001	<0.005	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)	0.01	<0.004	0.005	0.008	0.005	0.006
	Lead (Pb) (DIS)	<0.005	<0.005 J	<0.005	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	0.02	0.01	<0.02	<0.008	<0.02	<0.02
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	3.8	5.9	5	5.4	4.2	4.9
	pH	6.5	7.2	6.6	7.5	6.5	7
	Depth To Water Level (ft)	27.9	21.03	25.3	24.02	26.7	21.8
	pH (Fld)	6.3	6.8	6.5	6.7	7.8	6.6
	SC (umhos/cm at 25 C) (Fld)	2527	2580	2320	2410	1963	2520
	SC (umhos/cm at 25 C)	2480	2530 J	1880	2400	2020	2210
	Total Suspended Solids						1
	TDS (Measured at 180 C)	1982	1952	1721	1772	1638	1817
	Water Temperature (C) (Fld)	11.4	9.9	12.3	10.4	10.8	13

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-50	EH-50	EH-50	EH-50	EH-50	EH-50
Water	SAMPLE DATE	5/5/1998	11/17/1998	5/8/1999	11/10/1999	5/1/2000	9/22/2000
	SAMPLE TIME	15:40	15:50	09:40	11:00	17:15	10:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	260-3762	310-4405	346-4882	L992008007	L000703013	L001585001
	SAMPLE NUMBER	EHC-9805-127	EHC-9811-126	EHC-9905-126	EHC-9911-142	EHC-0005-141	EHST-0009-200
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	167	277	185 J	189	159	
Calcium (Ca) (DIS)	196	214	182	183	147	
Carbonate As CO3			<1 UJ	<1	<1	
Chloride (Cl)	105	92	94	91	56	
Magnesium (Mg) (DIS)	52	57	56	49	40	
Potassium (K) (DIS)	10 J	8.4	14	8	6.9	
Sodium (Na) (DIS)	249	234	234	177	158	
Sulfate (SO4)	872	904	671	774	716	
Total Alkalinity As CACO3	137	227	152 J	155	130	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.03	0.03	0.07	0.05	0.1	0.08
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005 J	0.02 U	<0.02
Arsenic V (dis)	0.03	0.02	0.08	0.06	0.1	0.1 U
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper (Cu) (DIS)	0.008	0.004	0.005	0.005	0.007	
Iron (Fe) (DIS)	<0.05	0.04	0.07 UJ	<0.02	0.03 U	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	<0.02	<0.02 UJ	<0.02	<0.02	<0.02	
Zinc (Zn) (DIS)	0.02 J	<0.02	0.02	<0.02 J	<0.02	

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)						0.02
Iron (Fe+2) (Fld)						0.02
Oxygen (O) (DIS) (Fld)	2.4	5.5	2.8	3.2	4.5	2.2
pH	6.6	7.5	7	7	6.8	
Depth To Water Level (ft)	27	21.7	27.5	24.5	28.3	26.9
Eh (millivolts)		423	446	432	356	459
pH (Fld)	6.1	7	6.6	6.8	6.7	6.6
SC (umhos/cm at 25 C) (Fld)	1840	2156	1741	1860	1653	1510
SC (umhos/cm at 25 C)	2090	2160	1984	1950	1630	
Total Suspended Solids		<1		<1		
TDS (Measured at 180 C)	1717	1595	1581	1629	1283	
Water Temperature (C) (Fld)	14.1	10.4	10.3	11.6	12.7	10.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-50	EH-50	EH-50	EH-50	EH-50	EH-50
Water	SAMPLE DATE	10/17/2000	11/3/2000	11/6/2000	5/9/2001	11/6/2001	6/1/2002
	SAMPLE TIME	14:00	11:00	16:40	15:45	12:00	17:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001753001	L001861001	L001873006	L010691008	L011539007	L020396017
	SAMPLE NUMBER	EHST-0010-200	EHST-0011-100	EHC-0011-142	EHC-0105-168	EHC-0111-166	EHC-0205-184
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		154		146		235		137
Calcium (Ca) (DIS)				143		108		116
Carbonate As CO3				<1		<1		<1
Chloride (Cl)				81 J		57		95 J
Magnesium (Mg) (DIS)				38		30		41
Potassium (K) (DIS)				7.2		6.1		7.1
Sodium (Na) (DIS)				155		130		176
Sulfate (SO4)				623 J		518		399
Total Alkalinity As CaCO3				126		120		193

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)				<0.01 J		<0.05		<0.05
Arsenic (As) (DIS)	0.1 UJ		0.1			0.2 U		0.08
Arsenic III (dis)	<0.02		<0.005			0.07 U		0.03
Arsenic V (dis)	0.1 U		0.1			0.1 U		0.09
Cadmium (Cd) (DIS)				<0.001		<0.001		<0.001
Copper (Cu) (DIS)				<0.004 J		0.004		<0.004
Iron (Fe) (DIS)				<0.02 J		<0.05		<0.02
Lead (Pb) (DIS)				<0.005		<0.005		<0.005
Manganese (Mn) (DIS)				<0.02		<0.02		<0.02
Zinc (Zn) (DIS)				<0.02		<0.02		<0.02

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe+2) (Fld)	<0.01		<0.01					
Oxidation Reduction Potential						125.8		31.6
Oxygen (O) (DIS) (Fld)	1.9		2.1		4.08	4.9		4.8
pH					6.9	7.2		7.6
Silicon+Silica (Si+SiO2)					45	48		41
Depth To Water Level (ft)	27.5		27.5		27.4	28.9		23.7
Eh (millivolts)	331		426		455	358		346
pH (Fld)	6.2		6.3		7.02	6.4		7.3
SC (umhos/cm at 25 C) (Fld)	1667		1708		1672	1007		1596
SC (umhos/cm at 25 C)					1697	1346		1653
Total Suspended Solids						<1		1
TDS (Measured at 180 C)					1302	1018		1236
Water Temperature (C) (Fld)	12.7		11.4		10.1	13.3		12

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-50	EH-50	EH-50	EH-50	EH-50	EH-50
Water	SAMPLE DATE	11/16/2002	6/3/2003	10/24/2003	5/26/2004	10/27/2004	5/11/2005
	SAMPLE TIME	15:30	13:30	10:30	09:40	13:35	14:05
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper
	LAB NUMBER	L020951010	L030247007	L030598003	H04050191-005	H04100192-013	C05050444-010
	SAMPLE NUMBER	EHC-0211-180	AEH-0306-190	AEH-0310-322	AEH-0405-183	AEH-0411-138	AEH-0505-122
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	183	173	193	190	250	194
Calcium (Ca) (DIS)	127	126	149	132	145	144
Carbonate As CO3	<1	<2	<2			
Chloride (Cl)	82	103	111	98	100	86
Magnesium (Mg) (DIS)	33	35	40	35	38	40
Potassium (K) (DIS)	7	6.6	6.9	6	7	7
Sodium (Na) (DIS)	144	136	159	125	162	141
Sulfate (SO4)	521	492	433	550	431	510
Total Alkalinity As CaCO3	150	142	158	160	210	159

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05					
Arsenic (As) (DIS)	0.1	0.3	0.2	0.351	0.106	0.455
Arsenic III (dis)	0.05	0.1	0.007	<0.0015	<0.001	<0.005
Arsenic V (dis)	0.08	0.2	0.2	0.37 J	0.11	0.4
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	0.005	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.03	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.06	1.9	2.1	1.66	4.89	1.23
pH	7	7	7.7	6.9	7	6.67
Silicon+Silica (Si+SiO2)	42					
Depth To Water Level (ft)	25.1	27	24.3	27.51	23.31	28.47
pH (Fld)	6.01	6.2	6.4	6.5	6.66	6.47
SC (umhos/cm at 25 C) (Fld)	1390	1590	1590	1550	1661	1498
SC (umhos/cm at 25 C)	1434	1514	1599	1460	1510	1480
Total Suspended Solids	18	30	26	<10	10	<10 J
TDS (Measured at 180 C)	1070	1124	1133	1110	1190	1040
TDS - Calculated						1070
Salinity (G/KG) (Fld)	0.6	0.7	0.7			
Turbidity (NTU) (Fld)	11	36	4			
Water Temperature (C) (Fld)	11.6	7.7	11.5	11.5	11.8	11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-50	EH-50	EH-50	EH-50	EH-50	EH-50
Water	SAMPLE DATE	11/8/2005	5/2/2006	6/21/2006	11/7/2006	4/3/2007	5/9/2007
	SAMPLE TIME	15:00	15:35	11:30	14:00	15:05	10:15
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	H05110071-014	H06050028-004	H06060217-005	H06110064-010	H07040026-011	H07050114-002
	SAMPLE NUMBER	AEH-0511-123	AEH-0605-124	AEH-0606-127	AEH-0611-111	AEH-0703-148	AEH-0705-111
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION					No ORP-Pumping	
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	260	210	230	280	200	200
Calcium (Ca) (DIS)	162	131	146 J	137	121	135
Chloride (Cl)	120	92	100	110	87	85
Magnesium (Mg) (DIS)	42	36	39 J	34	33	37
Potassium (K) (DIS)	8	7	7 J	7	7	7
Sodium (Na) (DIS)	165	140	142	167	138	131
Sulfate (SO4)	575	486	509	428	387	452
Total Alkalinity As CaCO3	210	170	180	230	160	170

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.181	0.382	0.362	0.1	0.275	0.306
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0028
Arsenic V (dis)	0.16	0.4	0.4	0.1	0.3	0.3
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	0.004	<0.004	0.006	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02 J	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.01	<0.01 J	<0.01	<0.01	<0.01
Selenium (Se) (DIS)					0.223	0.197
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02 J	<0.02	<0.02	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential				99.1		
Oxygen (O) (DIS) (Fid)	3.83	2.05	2.6	5.73	3.33	2.72
pH	6.8	7.1	6.7	7.1	6.9	6.7
Depth To Water Level (ft)	23.81	26.88	23.11	22.88	27.11	27.74
pH (Fid)	6.45	5.41	6.2	6.6	6.38	6.36
SC (umhos/cm at 25 C) (Fid)	1725	1451	1552	1582	1382	1488
SC (umhos/cm at 25 C)	1670	1370	1450	1510	1320	1400
Total Suspended Solids	<10	<10	<10	11 J	13	<10
TDS (Measured at 180 C)	1240	1070	1160	1130	1010	1060
Water Temperature (C) (Fid)	11.96	12.66	11.49	12.11	11.88	11.94

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-50	EH-50	EH-50	EH-50	EH-50	EH-50
Water	SAMPLE DATE	5/9/2007	7/25/2007	9/11/2007	12/10/2007	12/10/2007	1/31/2008
	SAMPLE TIME	10:25	13:00	14:45	11:00	11:15	15:40
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07050114-003	H07070259-008	H07090102-006	H07120088-002	H07120088-003	H08010244-013
	SAMPLE NUMBER	AEH-0705-112	AEH-0707-119	AEH-0709-137	AEH-0711-216	AEH-0711-217	AEH-0801-137
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate				Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	200	260	300			200
Bicarbonate (HCO3) (dis)				230	230	
Calcium (Ca) (DIS)	133	157	163	132	130	126
Chloride (Cl)	87	107	122	90	92	82
Magnesium (Mg) (DIS)	37	41	43	36	35	35
Potassium (K) (DIS)	7	5	7	7	7	7
Sodium (Na) (DIS)	132	146	171	131	135	125
Sulfate (SO4)	432	510	501	426	415	439
Total Alkalinity As CaCO3	170	220	240	190	190	170

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)				<0.005	<0.005	
Selenium-VI (dis)				0.207	0.227	
Arsenic (As) (DIS)	0.296	0.193	0.123	0.201	0.207	0.266
Arsenic III (DIS)	<0.0028			<0.005	<0.005	
Arsenic V (DIS)	0.29			0.208	0.208	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	0.03	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.196	0.14	0.162	0.24	0.249	0.34
Zinc (Zn) (DIS)	<0.01	<0.01	0.01	<0.02	<0.02	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		4.09	5.27	3.45		3.16
pH	6.7	7	6.9	7.5	7.4	6.8
Depth To Water Level (ft)		21.3	22.14	24.42		27.73
pH (Fld)		6.52	6.6	6.57		6.44
SC (umhos/cm at 25 C) (Fld)		1687	1722	1464		1448
SC (umhos/cm at 25 C)	1400	1570	1490	1330	1330	1390
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	1050	1220	1230	1040	1040	1030
Water Temperature (C) (Fld)		11.41	12.3	11.3		11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-50	EH-50	EH-50	EH-50	EH-50	EH-50
Water	SAMPLE DATE	5/7/2008	7/16/2008	11/6/2008	2/5/2009	2/9/2009	5/13/2009
	SAMPLE TIME	13:15	16:00	15:37	12:15	09:45	13:15
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08050136-012	H08070357-004	H08110092-005	H09020058-016	H09020078-003	H09050210-011
	SAMPLE NUMBER	AEH-0805-176	AEH-0807-147	AEH-0811-194	AEH-0902-149	AEH-0902-164	AEH-0905-198
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	210	230	230	210	200	200
Calcium (Ca) (DIS)	160	165	141	121	124	120
Chloride (Cl)	84	70	85 J+	77	82	55
Magnesium (Mg) (DIS)	44	46	38	33	35	35
Potassium (K) (DIS)	8	5	7	7	7	7
Sodium (Na) (DIS)	128	135	121	117	114	114
Sulfate (SO4)	530	530	520	430	450	460
Total Alkalinity As CaCO3	170	180	190	170	170	160

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005 J		<0.005			
Selenium-VI (DIS)	0.174 J		0.101			
Aluminum (Al) (DIS)	<0.1		<0.1			<0.1
Antimony (Sb) (DIS)	<0.005		<0.005			<0.003
Arsenic (As) (DIS)	0.302	0.263	0.194	0.296	0.304	0.361
Arsenic III (DIS)	<0.005		<0.005			
Arsenic V (DIS)	0.376		0.164			
Barium (Ba) (DIS)	<0.1		<0.1			<0.1
Beryllium (Be) (DIS)	<0.001		<0.001			<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001		<0.001			<0.001
Cobalt (Co) (DIS)	<0.01		<0.01			0.0006 J
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.003 J
Gold (Au) (DIS)						<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.006		<0.006			<0.0001
Nickel (Ni) (DIS)	<0.01		<0.01			<0.01
Selenium (Se) (DIS)	0.261	0.167	0.122	0.176	0.18	0.117
Silver (Ag) (DIS)	<0.005		<0.005			<0.005
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)	<0.002		<0.002			<0.001
Vanadium (V) (DIS)	<0.01		<0.01			<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.02	<0.02	<0.02	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.53	1.53	2.67	2.71	2.9	1.73
pH	6.8	6.9	7.1	6.9	6.7	6.9
Depth To Water Level (ft)	29.1	26.56	24.52	27.65	27.74	29.02
pH (Fld)	6.28	6.26	6.26	6.27	6.23	6.39

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-50	EH-50	EH-50	EH-50	EH-50	EH-50
Water	SAMPLE DATE	5/7/2008	7/16/2008	11/6/2008	2/5/2009	2/9/2009	5/13/2009
	SAMPLE TIME	13:15	16:00	15:37	12:15	09:45	13:15
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H08050136-012	H08070357-004	H08110092-005	H09020058-016	H09020078-003	H09050210-011
	SAMPLE NUMBER	AEH-0805-176	AEH-0807-147	AEH-0811-194	AEH-0902-149	AEH-0902-164	AEH-0905-198
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	1483	1592	1515	1415	1400	1330
SC (umhos/cm at 25 C)	1450	1460	1490	1330	1370	1300
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	1140	1150	1110	970	990	974
Water Temperature (C) (Fid)	11.5	11.6	11.39	11.7	11.7	11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-51	EH-51	EH-51	EH-51	EH-51	EH-51
Water	SAMPLE DATE	10/30/1986	10/30/1986	2/3/1987	2/3/1987	4/24/1987	4/24/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	RMAL	TSC-SLC	TSC-SLC	TSC-SLC	CHMTC	TSC-SLC
	LAB NUMBER	8610-150	86-7259	87-782	87-784	8704-31	87-2838
	SAMPLE NUMBER	AEH-8610-150	AEH-8610-150	AEH-8701-106	AEH-8701-138	AEH-8704-31	AEH-8704-31
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split			Field Duplicate	Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	198	137 M	206			194
Calcium (Ca) (DIS)	164	168	198 M		113	108
Carbonate As CO3	<5	<1	<1			<1
Chloride (Cl)	78	48	8 M		25	24
Magnesium (Mg) (DIS)	31.4	29	28		22.1	22.5 M
Potassium (K) (DIS)	29.7	33 M	21		12.9	13.5 M
Sodium (Na) (DIS)	146	147	136		121	109
Sulfate (SO4)	577	546	510		417	460 M

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.9	1	0.6	0.6	0.08	0.1
Arsenic III (dis)		1.1 M	0.5 M	0.6		0.06 M
Arsenic V (dis)		0.02	0.1 M	0.07		0.07 M
Cadmium (Cd) (DIS)	<0.005	0.001	0.001	0.001	<0.004	<0.001
Copper (Cu) (DIS)	0.004	0.01 M	<0.008	<0.008	<0.02	0.008
Iron (Fe +2) (TOT)		0.08 M	<0.01	<0.01		<0.01
Iron (Fe) (DIS)	0.04	0.06	<0.02	<0.02	<0.1	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.003	<0.005 M
Manganese (Mn) (DIS)	0.9	0.9 M	0.03	0.03	<0.01	0.01 M
Zinc (Zn) (DIS)	0.05	0.05 M	<0.008	<0.008	<0.02	<0.008

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		3.2	1.9	1.9		2.3
pH	6.8	6.8	7.5			7.2
Depth To Water Level (ft)			14	14		16
pH (Fld)		6.6	6.8	6.8		6.6
SC (umhos/cm at 25 C) (Fld)		1532	1355			1202
SC (umhos/cm at 25 C)	1450	1450	1400			1210 M
TDS (Measured at 180 C)	1180	1184	1140		469	933 M
Water Temperature (C) (Fld)		11.1 M	10.5	10.5		11.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-51	EH-51	EH-51	EH-51	EH-51	EH-51
Water	SAMPLE DATE	4/24/1987	4/24/1987	8/10/1987	11/16/1987	11/16/1987	4/20/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	CHMTC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8704-32	87-2839	87-6636	87-10542	87-10536	88-2779
	SAMPLE NUMBER	AEH-8704-32	AEH-8704-32	AEH-8708-16	AEH-8711-201	AEH-8711-212	AEH-8804-343
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate	Field Duplicate			Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)			201	220	212	137
Calcium (Ca) (DIS)	115		127			75
Carbonate As CO3			<1			<1
Chloride (Cl)			35			9.1 J
Magnesium (Mg) (DIS)	22.2		27.6			13
Potassium (K) (DIS)	123		22.4			12
Sodium (Na) (DIS)	122		138			94
Sulfate (SO4)			550	560 M	552 M	257

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.08	0.09	0.6	0.5	0.5	0.1
Arsenic III (dis)		0.03	0.04	<0.008	<0.008	<0.008
Arsenic V (dis)		0.09	0.8 M	0.6	0.5	0.1
Cadmium (Cd) (DIS)	<0.004	<0.001	<0.001	0.003 M	0.001	<0.001
Copper (Cu) (DIS)	0.02	<0.008	<0.008	<0.008	0.008	
Iron (Fe +2) (TOT)		<0.01	<0.01	<0.01	<0.01	<0.001
Iron (Fe) (DIS)	<0.1	0.03	<0.02	0.03 M	0.02	<0.02
Lead (Pb) (DIS)	0.006	<0.005 M	<0.005	<0.01	<0.01	<0.005
Manganese (Mn) (DIS)	<0.01	0.01	0.003	0.003	0.003	
Zinc (Zn) (DIS)	0.02	0.01 M	0.01	<0.008	<0.008	<0.008

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		2.3	3.9	3.1	1.3	3.6
pH			7.7	8.08	8.07	7.06
Depth To Water Level (ft)		16	11.5	13.9	13.9	15.9
pH (Fld)		6.7	6.4	6.2 M	6.2	7
SC (umhos/cm at 25 C) (Fld)		1196	1463	1490	1515	841.1
SC (umhos/cm at 25 C)			1450	1430	1440	850
Total Suspended Solids				14.5	15	
TDS (Measured at 180 C)			1058	1110 M	1118 M	755 J
Water Temperature (C) (Fld)		11.4	13.2	10.9	10.9	10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-51	EH-51	EH-51	EH-51	EH-51	EH-51
Water	SAMPLE DATE	12/14/1988	4/17/1989	10/17/1989	4/29/1990	12/4/1990	12/4/1990
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-6	89-487	89-809	90-1046	90-2241	90-2243
	SAMPLE NUMBER	AEH-8812-162	AEH-8904-233	AEH-8910-441	AEH-9005-441	AEH-9011-734	AEH-9011-745
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	9.4	8.5	33.7	11.1	16 J	15 J
	Sulfate (SO4)	180 R	145	590	275	437 J	436 J
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.05	0.07 J	1.1 J	0.08	0.09	0.09
	Arsenic III (dis)	0.09 J	0.04 J	<0.008	0.05	0.1 U	0.1 U
	Arsenic V (dis)	0.02	0.1 J	0.5	0.09	<0.004	0.009
	Cadmium (Cd) (DIS)	<0.001 UJ	<0.002	0.001	0.001	<0.001	<0.001
	Copper (Cu) (DIS)	0.02	<0.008	<0.008	<0.008	<0.008	<0.008
	Iron (Fe +2) (TOT)	<0.01	<0.01				
	Lead (Pb) (DIS)	<0.005 J	<0.02	<0.01 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ
	Zinc (Zn) (DIS)	0.01	<0.008 J	<0.008 J	0.006 U		
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	4.4	3.2	4.6	2.3	3.7	3.7
	pH	7.8	7	7.8	7.9	7.9	7.9
	Depth To Water Level (ft)	18.09	17.8	12.4	16.4	19.8	19.8
	pH (Fld)	7.3	5.9	6.6	7.01	7.4	7.4
	SC (umhos/cm at 25 C) (Fld)	654.7	577.4	1516	869.6	1180	1179
	SC (umhos/cm at 25 C)	640 J	550	1480	890	1150	1150
	TDS (Measured at 180 C)	418 J	381	1112 J	595	802 J	785 J
	Water Temperature (C) (Fld)	9.7	11.2	12.5	10.7	10.4	10.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-51	EH-51	EH-51	EH-51	EH-51	EH-51
Water	SAMPLE DATE	5/7/1991	11/18/1991	11/18/1991	4/28/1992	4/28/1992	11/15/1992
	SAMPLE TIME	00:00	13:45	14:30	10:00	14:00	10:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	91-2684	91-3861	91-3868	92-4352	92-4353	92-6787
	SAMPLE NUMBER	AEH-9105-118	AEH-9111-300	AEH-9111-363	AEH-9204-167	AEH-9204-159	EHC-9211-119
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate		Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Calcium (Ca) (Dis)						140 J
	Chloride (Cl)	6.4	28 J	25 J	15 J	15 J	29
	Magnesium (Mg) (Dis)						26
	Potassium (K) (Dis)						23 J
	Sodium (Na) (Dis)						154
	Sulfate (SO4)	159	430	430	357	361	514
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.08	1.5	1.7	0.2	0.2	0.4
	Arsenic III (dis)	<0.004 UJ	0.02 U	0.2 U	0.3	0.09	0.004 UJ
	Arsenic V (dis)	0.1 J	2.1 J	2.3	0.2	0.1	0.8 J
	Cadmium (Cd) (DIS)	0.001	0.001	0.001	0.001	0.001	0.001
	Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.008
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	0.006 J
	Zinc (Zn) (DIS)	<0.008	0.01	0.01	0.01	0.01	<0.006
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	5.1	5.4	5.4	3.2	3.2	4.4
	pH	7.8	7.2	7.2	7.3	8.3	8.2
	Depth To Water Level (ft)	18.8	10.5	10.5	15	15	12.9
	pH (Fld)	7.6	7.6	7.6	6.9	6.9	6.7
	SC (umhos/cm at 25 C) (Fld)	580.6	1270	1264	1066	1065	1359
	SC (umhos/cm at 25 C)	600	1190	1190	1050	1050	1380
	TDS (Measured at 180 C)	420	984 J	980 J	735	718	1070
	Water Temperature (C) (Fld)	11.7	15.6	15.6	12.6	12.6	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-51	EH-51	EH-51	EH-51	EH-51	EH-51
Water	SAMPLE DATE	5/4/1993	5/4/1993	11/9/1993	11/9/1993	5/11/1994	11/11/1994
	SAMPLE TIME	09:25	11:00	15:00	16:00	13:00	13:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-7776	93-7772	93-9231	93-9230	94-1354	94-3282
	SAMPLE NUMBER	EHC-9305-143	EHC-9305-139	EHC-9311-175	EHC-9311-136	EHC-9405-140	EHC-9411-141
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)	99	99				
Chloride (Cl)	17	17	26 J	26 J	27	33
Magnesium (Mg) (Dis)	18	18				
Potassium (K) (Dis)	17	17				
Sodium (Na) (Dis)	118	125				
Sulfate (SO4)	361	356	510 J	556 J	643 J	758 J
Total Hardness As CaCO3	322	321				

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.1	0.1	1.2	1.3	0.3 J	0.5
Arsenic III (dis)	<0.004	<0.004	<0.004	<0.004	0.01	0.005 U
Arsenic V (dis)	0.1 J	0.1 J	1.2 J	1.08 J	0.3 J	0.5 J
Cadmium (Cd) (DIS)	0.001	0.001	0.001	0.001	0.005	0.002
Copper (Cu) (DIS)	<0.004	<0.004	0.004	0.004	<0.004	0.004
Lead (Pb) (DIS)	<0.005 J	<0.005	<0.005	<0.005 J	<0.005 JU	<0.005 UJ
Zinc (Zn) (DIS)	0.006	0.007	0.006	0.01	0.01	0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.8	3.8	5.8	5.8	4.3	5.5
Depth To Water Level (ft)	14.6	14.6	9.9	9.9	12.4	12.5
pH (Fld)	6.7	6.7	7.3	7.3	7.1	7
SC (umhos/cm at 25 C) (Fld)	1041	1046	1425	1424	1590	1978
SC (umhos/cm at 25 C)	1000	1050	1500 J	1500 J	1575 J	2030 J
TDS (Measured at 180 C)	760	757	1104	1102	1175	1576 J
Water Temperature (C) (Fld)	9.8	9.8	11.1	11.1	11.6	11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-51	EH-51	EH-51	EH-51	EH-51	EH-51
Water	SAMPLE DATE	5/9/1995	11/9/1995	5/9/1996	11/8/1996	5/6/1997	11/5/1997
	SAMPLE TIME	18:00	14:30	17:00	15:20	16:40	14:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-4487	95-6131	96-6787	96-7771	97-911	188-2684
	SAMPLE NUMBER	EHC-9505-141	EHC-9511-143	EHC-9605-127	EHC-9611-127	EHC-9705-125	EHC-9711-127
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	11	30 J	30	33	31	44
	Sulfate (SO4)	276	1006 J	681	840	741	784
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.08	1 J	0.5	0.6	0.4	1.1
	Arsenic III (dis)	<0.004	<0.004	<0.005 UJ	<0.004	<0.005	<0.005
	Arsenic V (dis)	0.09	1.05 J	0.6 J	0.8 J	0.3	0.9 J
	Cadmium (Cd) (DIS)	0.002	0.001	<0.005	0.002	<0.001	<0.001
	Copper (Cu) (DIS)	0.008	<0.004	0.005	0.01	0.005	0.007
	Lead (Pb) (DIS)	<0.005 J	<0.005 JU	<0.005	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	0.007	0.01 U	<0.02	0.03	<0.02	<0.02
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	4.4	6.1	4.9	4.9	5.02	5
	pH	7.4	7.4 J	7	7.5	6.9	7.1
	Depth To Water Level (ft)	16.4	10.6	12.4	12.02	14.4	10.3
	pH (Fld)	7.1	6.7	6.7	6.9	7.2	6.8
	SC (umhos/cm at 25 C) (Fld)	1028	1831	1588	1935	1705	2480
	SC (umhos/cm at 25 C)	903 J	1903 J	1560	1888	1773	2190
	Total Suspended Solids						6
	TDS (Measured at 180 C)	578 J	1484	1205	1567	1432	1829
	Water Temperature (C) (Fld)	11.4	11.5	7.5	10.7	10	13.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-51	EH-51	EH-51	EH-51	EH-51	EH-51
Water	SAMPLE DATE	5/6/1998	11/19/1998	5/10/1999	11/11/1999	5/8/2000	11/9/2000
	SAMPLE TIME	12:00	08:00	12:45	09:30	10:50	16:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	260-3763	311-4433	347-4892	L992008008	L000705027	L001897025
	SAMPLE NUMBER	EHC-9805-128	EHC-9811-127	EHC-9905-127	EHC-9911-143	EHC-0005-142	EHC-0011-143
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	192	239	199 J	215	184	174
Calcium (Ca) (DIS)	204	228	148	192	146	72
Carbonate As CO3			<1 UJ	<1	<1	<1
Chloride (Cl)	66	117	65	101	69	31
Magnesium (Mg) (DIS)	39	42	29	39	29	14
Potassium (K) (DIS)	39 J	54	33	44	30	24
Sodium (Na) (DIS)	268	236	202	231	182	147
Sulfate (SO4)	924	967	707	896	701	409 J
Total Alkalinity As CaCO3	157	196	163 J	176	151	143

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)						<0.01
Arsenic (As) (DIS)	0.2	0.6 J	0.1	0.3	0.07 J	0.09
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	0.01 UJ	<0.02
Arsenic V (dis)	0.1	0.5 J	0.1	0.4	0.09	0.05
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001 J	<0.001
Copper (Cu) (DIS)	0.007	0.006	0.006	0.006	<0.004	<0.004
Iron (Fe) (DIS)	<0.05	0.05	0.1 UJ	0.1 J	<0.02	0.3 UJ
Lead (Pb) (DIS)	<0.005	<0.005	0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02 UJ	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	0.03 J	0.02	<0.02	<0.02 J	<0.02 J	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.5	4.4	2.8	5	6.6	1.9
pH	7	7.2	7.4	7.4	7.3	7.9
Silicon+Silica (Si+SiO2)						22
Depth To Water Level (ft)	15.4	12.3	17.2	13.7	19.2	19.5
Eh (millivolts)		469	437	453	417	380
pH (Fld)	6.8	7.2	7.2	7.1	6.9	7
SC (umhos/cm at 25 C) (Fld)	2020	2415	1660	2140	1698	1018
SC (umhos/cm at 25 C)	2110	2450	1810	2240	1749	1214
Total Suspended Solids				1.8		
TDS (Measured at 180 C)	1748	1893	1368	1833	1312	862
Water Temperature (C) (Fld)	13	11.2	10.4	11.2	10.5	10.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-51	EH-51	EH-51	EH-51	EH-51	EH-51
Water	SAMPLE DATE	5/7/2001	11/13/2001	6/5/2002	11/17/2002	6/4/2003	6/4/2003
	SAMPLE TIME	11:45	13:10	15:30	14:45	09:15	09:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010655001	L011564015	L020419001	L020957002	L030256002	L030256003
	SAMPLE NUMBER	EHC-0105-169	EHC-0111-167	EHC-0205-185	EHC-0211-181	AEH-0306-200	AEH-0306-201
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	159	179	161	198	157	155
Calcium (Ca) (DIS)	45	119	38	106	40	41
Carbonate As CO3		12	<1	<1	<2	<2
Chloride (Cl)	25	76	18	67	23	24
Magnesium (Mg) (DIS)	8.9	23	7.4	20	8	8
Potassium (K) (DIS)	20	37	18	34	18	18
Sodium (Na) (DIS)	117	198	99	176	98	98
Sulfate (SO4)	286	295	183	486	194	187
Total Alkalinity As CaCO3	130	167	132	162	129	127

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05	<0.05	<0.05		
Arsenic (As) (DIS)	0.1	0.2	0.09	0.2	0.08	0.08
Arsenic III (dis)	0.04	0.06	0.04	0.09	0.07	0.08
Arsenic V (dis)	0.07	0.1	0.05	0.09	0.008	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential		53.9	-3			
Oxygen (O) (DIS) (Fld)	1.6	3.2	2.9	7.5	4.8	
pH	7.5	8.7	6.6	7.2	7.3	7.2
Silicon+Silica (Si+SiO2)	20	23	22	21		
Depth To Water Level (ft)	20.2	14.4	15.8	14.2	14	
Eh (millivolts)	400	289				
pH (Fld)	7.6	7.5	6.9	6.2	6	
SC (umhos/cm at 25 C) (Fld)	890	1504	721	1470	631	
SC (umhos/cm at 25 C)	907	1650	753	1493	782	780
Total Suspended Solids	2.9	5	1	6.8 J	7.5	9.2
TDS (Measured at 180 C)	622	1223	504	1037	516	510
Salinity (G/KG) (Fld)				0.6	0.2	
Turbidity (NTU) (Fld)				4	1	
Water Temperature (C) (Fld)	12.1	11.9	10.8	11.3	10.3	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-51	EH-51	EH-51	EH-51	EH-51	EH-51
Water	SAMPLE DATE	10/29/2003	5/25/2004	10/26/2004	5/11/2005	11/9/2005	5/3/2006
	SAMPLE TIME	12:00	14:50	13:10	15:15	10:30	15:10
	LAB	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel
	LAB NUMBER	L030604020	H04050175-011	H04100182-008	C05050444-012	H05110081-005	H06050044-002
	SAMPLE NUMBER	AEH-0310-422	AEH-0405-175	AEH-0411-117	AEH-0505-124	AEH-0511-129	AEH-0605-136
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	176	160	210	165	210	170	
Calcium (Ca) (DIS)	110	75	245	153	193	131	
Carbonate As CO3	<2						
Chloride (Cl)	59	32	90	43	82	40	
Magnesium (Mg) (DIS)	21	13	45	29	36	24	
Potassium (K) (DIS)	34	24	52	34	53	36	
Sodium (Na) (DIS)	160	116	269	165	218	155	
Sulfate (SO4)	517	340	1220	671	957	621	
Total Alkalinity As CaCO3	144	130	170	136	180	140	
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)	0.2	0.077	0.328	0.051	0.252	0.083	
Arsenic III (dis)	0.01	<0.001	<0.003	<0.005	<0.005	<0.005 J	
Arsenic V (dis)	0.2	0.11	0.31	0.06	0.21	0.09 J	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Iron (Fe) (DIS)	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	<0.02	<0.01	<0.02	<0.02	<0.02	<0.01	
Zinc (Zn) (DIS)	<0.05	<0.01	<0.02	<0.02	<0.02	<0.02	
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	4.97	3.26	4.59	2.14	4.03	2.29	
pH	7.7	7.3	7.2	7.06	7	7.2	
Depth To Water Level (ft)	14.38	15.24	12.7	17.7	13.63	15.61	
pH (Fld)	6.32	6.42	6.75	6.71	6.48	6.55	
SC (umhos/cm at 25 C) (Fld)	1460	1310	2450	1636	2250	1510	
SC (umhos/cm at 25 C)	1487	867	2180	1620	2110	1410	
Total Suspended Solids	16	<10	<10	10 J	<10	<10	
TDS (Measured at 180 C)	1083	703	1910	1150	1620	1170	
TDS - Calculated				1200			
Salinity (G/KG) (Fld)	0.6	0.5					
Turbidity (NTU) (Fld)	4						
Water Temperature (C) (Fld)	11.2	10.5	11.7	10.6	12.03	11.38	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-51	EH-51	EH-51	EH-51	EH-51	EH-51
Water	SAMPLE DATE	6/22/2006	11/8/2006	4/3/2007	5/8/2007	7/26/2007	7/26/2007
	SAMPLE TIME	10:50	08:40	13:20	14:35	09:30	09:45
	LAB	ELI-Hel	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06060237-006	H06110070-002	H07040026-008	H07050103-010	H07070280-005	H07070280-006
	SAMPLE NUMBER	AEH-0606-140	AEH-0611-116	AEH-0703-145	AEH-0705-109	AEH-0707-128	AEH-0707-129
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION			No ORP-Pumping			
	REMARKS						Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	180	72	180	170	180	180
Calcium (Ca) (DIS)	133	214	126	106	138	134
Chloride (Cl)	37	82	45	32	42	40
Magnesium (Mg) (DIS)	24	39	22	18	24	23
Potassium (K) (DIS)	37	56	37	33	40	39
Sodium (Na) (DIS)	156	243	182	151	178	175
Sulfate (SO4)	629	864	604	513	632	610
Total Alkalinity As CaCO3	140	59	150	140	150	150

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.149	0.288	0.075	0.068	0.155	0.135
Arsenic III (DIS)	<0.005	<0.005	<0.005	<0.001		
Arsenic V (DIS)	0.2	0.4	0.07	0.0722		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	0.007	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)			0.31	0.223	0.307	0.284
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential		102.1				
Oxygen (O) (DIS) (Fid)	3.42	4.16	2.81	2.57	3.98	
pH	7	7.1	7.2	7.3	7.4	7.3
Depth To Water Level (ft)	12.39	12.66	16.29	16.18	12.5	
pH (Fid)	6.49	6.64	6.77	6.75	6.81	
SC (umhos/cm at 25 C) (Fid)	1488	2337	1575	1420	1660	
SC (umhos/cm at 25 C)	1420	1880	1510	1320	1590	1560
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	1090	1820	1160	981	1220	1180
Water Temperature (C) (Fid)	10.81	12.04	11.07	11.1	10.9	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-51	EH-51	EH-51	EH-51	EH-51	EH-51
Water	SAMPLE DATE	9/11/2007	11/14/2007	11/14/2007	1/30/2008	5/7/2008	5/7/2008
	SAMPLE TIME	15:30	10:42	10:47	12:55	12:25	12:25
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07090102-008	H07110122-002	H07110122-003	H08010227-007	H08050136-011	H08050136-011RA
	SAMPLE NUMBER	AEH-0709-139	AEH-0711-119	AEH-0711-120	AEH-0801-116	AEH-0805-175	AEH-0805-175
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION					As Spec-Unpresrvd	As Spec-Presrvd
	REMARKS			Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	230			200	170
Bicarbonate (HCO3) (dis)		210	210		
Calcium (Ca) (DIS)	203	161	164	91	69
Chloride (Cl)	62	47	57	37	18
Magnesium (Mg) (DIS)	36	29	29	16	12
Potassium (K) (DIS)	51	45	45	33	26
Sodium (Na) (DIS)	229	196	198	143	110
Sulfate (SO4)	836	709	715	463	290
Total Alkalinity As CaCO3	190	170	170	160	140

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005	0.007		<0.005 J
Selenium-VI (DIS)		0.329	0.308		0.0785 J
Aluminum (Al) (DIS)					<0.1
Antimony (Sb) (DIS)					<0.005
Arsenic (As) (DIS)	0.275	0.13	0.132	0.067	0.06
Arsenic III (DIS)		<0.0014	<0.0014		<0.005 J
Arsenic V (DIS)		0.136	0.132		0.0713 J
Barium (Ba) (DIS)					<0.1
Beryllium (Be) (DIS)					<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)					<0.001
Cobalt (Co) (DIS)					<0.01
Copper (Cu) (DIS)	<0.004	0.002	0.002	<0.004	<0.004
Iron (Fe) (DIS)	0.04	<0.01	<0.01	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.003	<0.003	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)					<0.006
Nickel (Ni) (DIS)					<0.01
Selenium (Se) (DIS)	0.448	0.343	0.348	0.197	0.106
Silver (Ag) (DIS)					<0.005
Thallium (Tl) (DIS)					<0.002
Vanadium (V) (DIS)					<0.01
Zinc (Zn) (DIS)	0.01	<0.01	<0.01	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.27	3.37		2.32	2.28
pH	7	7.1	7.1	7.3	7.4
Depth To Water Level (ft)	13.05	14.19		18.25	18.99
pH (Fld)	6.75	9.22 R		6.86	6.93
SC (umhos/cm at 25 C) (Fld)	2154	1925		1370	904

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-51	EH-51	EH-51	EH-51	EH-51
Water	SAMPLE DATE	9/11/2007	11/14/2007	11/14/2007	1/30/2008	5/7/2008
	SAMPLE TIME	15:30	10:42	10:47	12:55	12:25
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07090102-008	H07110122-002	H07110122-003	H08010227-007	H08050136-011
	SAMPLE NUMBER	AEH-0709-139	AEH-0711-119	AEH-0711-120	AEH-0801-116	AEH-0805-175
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					As Spec-Unpresrvd
	REMARKS			Field Duplicate		

**Physical/Fld-Lab: ppm unless noted**

SC (umhos/cm at 25 C)	1820	1820	1820	1300	896
Total Suspended Solids	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	1630	1430	1410	926	628
Water Temperature (C) (Fld)	11.9	11.62		11.3	10.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-51	EH-51	EH-51	EH-51	EH-51	EH-51
Water	SAMPLE DATE	7/15/2008	11/5/2008	2/5/2009	5/13/2009	5/14/2009	5/14/2009
	SAMPLE TIME	10:35	12:28	10:35	09:00	09:30	09:35
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08070318-010	H08110073-008	H09020058-012	H09050210-003	H09050233-001	H09050233-002
	SAMPLE NUMBER	AEH-0807-122	AEH-0811-176	AEH-0902-145	AEH-0905-190	AEH-0905-205	AEH-0905-206
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	160	190	180	200	150	150
Calcium (Ca) (DIS)	48	99	53	114	38	38
Chloride (Cl)	17	35	25	29	16	16
Magnesium (Mg) (DIS)	8	19	9	23	7	7
Potassium (K) (DIS)	25	35	25	11	22	21
Sodium (Na) (DIS)	100	138	104	151	85	84
Sulfate (SO4)	260	480	270	500	190	190
Total Alkalinity As CaCO3	130	160	150	170	120	120

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005				
Selenium-VI (DIS)		0.183				
Aluminum (Al) (DIS)		<0.1 J		<0.1	<0.1	<0.1
Antimony (Sb) (DIS)		<0.005		<0.003	<0.003	<0.003
Arsenic (As) (DIS)	0.147	0.088	0.07	0.856	0.052	0.054
Arsenic III (DIS)		<0.005				
Arsenic V (DIS)		0.0631				
Barium (Ba) (DIS)		<0.1		<0.1	<0.1	<0.1
Beryllium (Be) (DIS)		<0.001		<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.001		<0.001	<0.001	<0.001
Cobalt (Co) (DIS)		<0.01		0.0007 J	<0.0005	<0.0005
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.003 UJ	<0.001	0.001 UJ
Gold (Au) (DIS)				<0.01	<0.01	<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	0.18	<0.01	<0.01
Mercury (Hg) (DIS)		<0.006		<0.0001	<0.0001	<0.0001
Nickel (Ni) (DIS)		<0.01		<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.082	0.192	0.093	0.06	0.054	0.054
Silver (Ag) (DIS)		<0.005		<0.005	<0.005 J	<0.005 J
Tellurium (Te) (DIS)				<0.1	<0.1	<0.1
Thallium (Tl) (DIS)		<0.002		<0.001	<0.001	<0.001
Vanadium (V) (DIS)		<0.01		<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.22	4.22	2.68		3.33	
pH	7.1	7.4	7.5	7.1	7.6	7.6
Depth To Water Level (ft)	14.15	15.01	17.6		17.97	
pH (Fld)	6.8	6.65	6.88		6.96	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-51	EH-51	EH-51	EH-51	EH-51	EH-51
Water	SAMPLE DATE	7/15/2008	11/5/2008	2/5/2009	5/13/2009	5/14/2009	5/14/2009
	SAMPLE TIME	10:35	12:28	10:35	09:00	09:30	09:35
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	ELI	Hydrometrics	ELI
	LAB NUMBER	H08070318-010	H08110073-008	H09020058-012	H09050210-003	H09050233-001	H09050233-002
	SAMPLE NUMBER	AEH-0807-122	AEH-0811-176	AEH-0902-145	AEH-0905-190	AEH-0905-205	AEH-0905-206
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		Field Duplicate
<b>Physical/Fid-Lab: ppm unless noted</b>							
	SC (umhos/cm at 25 C) (Fld)	865	1285	920		687	
	SC (umhos/cm at 25 C)	809	1280	837	1380	703	707
	Total Suspended Solids	<10	<10	<10	<10	<10	<10
	TDS (Measured at 180 C)	579	930	605	1010	445	446
	Water Temperature (C) (Fld)	10.4	10.86	10.9		10.5	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-52	EH-52	EH-52	EH-52	EH-52	EH-52
Water	SAMPLE DATE	11/11/1986	11/11/1986	11/18/1986	11/18/1986	11/18/1986	11/18/1986
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	RMAL	TSC-SLC	RMAL	TSC-SLC	RMAL
	LAB NUMBER	86-7494	HYD-9042	86-7784	HYD-9044	86-7782	HYD-9043
	SAMPLE NUMBER	AEH-8611-15	AEH-8611-15	AEH-8611-33	AEH-8611-33	AEH-8611-45	AEH-8611-45
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Split	Field Duplicate	Field Duplicate		Split
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	155	134			161	
	Calcium (Ca) (DIS)	78	77.9		62.3	63	63.1
	Carbonate As CO3	<1	<5			<1	
	Chloride (Cl)	16	17			13	
	Magnesium (Mg) (DIS)	12	13		10.3	9.7	10.5
	Potassium (K) (DIS)	37	32.8		29	33	29.9
	Sodium (Na) (DIS)	75	75.8		63.9	66	64.4
	Sulfate (SO4)	250	264			210	
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	1.01	1.2	1.4	1.3	1.4	1.3
	Arsenic III (dis)			1.4		0.3 M	
	Arsenic V (dis)			0.08		0.4 M	
	Cadmium (Cd) (DIS)	0.001	<0.005	<0.001	<0.005	<0.001	<0.005
	Copper (Cu) (DIS)	<0.008	<0.004	<0.008	<0.004	<0.008	<0.004
	Iron (Fe +2) (TOT)			0.06		0.02	
	Iron (Fe) (DIS)	0.06 M	<0.03	0.02	<0.03	0.03	<0.03
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)	0.05 M	0.04	0.01	0.005	0.009	<0.004
	Zinc (Zn) (DIS)	0.03 M	0.02	0.01 M	0.01	0.02 M	0.02
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	3.5		3.5		3.2	
	pH	6.9	6.9			7.1	7.1
	Depth To Water Level (ft)	8.6		8.6		8.6	
	pH (Fld)	6.5		6.5		6.9	
	SC (umhos/cm at 25 C) (Fld)	846		720		721	
	SC (umhos/cm at 25 C)	950 M	950			564	564
	TDS (Measured at 180 C)	638	605			575	
	Water Temperature (C) (Fld)	4		4		8.5	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-52	EH-52	EH-52	EH-52	EH-52	EH-52
Water	SAMPLE DATE	2/4/1987	2/4/1987	5/6/1987	8/7/1987	8/7/1987	8/7/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	CHMTC	TSC-SLC	TSC-SLC	WYRHR	TSC-SLC	WYRHR
	LAB NUMBER	8701-110	87-788	87-3033	8708-17	87-6484	8708-43
	SAMPLE NUMBER	AEH-8701-110	AEH-8701-110	AEH-8705-38	AEH-8708-17	AEH-8708-17	AEH-8708-43
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split			Split		Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		102	116	140	163	
Calcium (Ca) (DIS)	32	48 M	39.3	66.1	67.5	66.1
Carbonate As CO3		<1	<1	<5	<1	
Chloride (Cl)	11	5.5	7	11	11	
Magnesium (Mg) (DIS)	5.5	6.8	6.6	11.4	11.2	11.4
Potassium (K) (DIS)	15.6	20	19.7	26.5	28.2	26.4
Sodium (Na) (DIS)	32	36	33	46.8	47.3	46.2
Sulfate (SO4)	93.2	91	97	190	187	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.6	1.3	1	1.08	1.2 M	1.1
Arsenic III (dis)		1.4	<0.008		0.02 M	
Arsenic V (dis)		0.5	1.6		1.3	
Cadmium (Cd) (DIS)	<0.005	0.001	0.003	0.0007	<0.001	0.0009
Copper (Cu) (DIS)	0.02	<0.008	0.02	0.002	<0.008	0.003
Iron (Fe +2) (TOT)		0.02	<0.01		<0.01	
Iron (Fe) (DIS)	0.6	0.04 M	0.02	0.02	<0.02	0.02
Lead (Pb) (DIS)	0.004	<0.005	<0.005 M	<0.002	<0.005	<0.002
Manganese (Mn) (DIS)	0.04	0.006	0.006	0.005	0.003	0.004
Zinc (Zn) (DIS)	0.1	0.01	0.02	0.01	0.01	0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)		5.4	5.5 M		1.6	
pH		7.4	6.9		7.4	
Depth To Water Level (ft)		7.8	7.2		6.9	
pH (Fid)		7.05	6.9		6.4	
SC (umhos/cm at 25 C) (Fid)		415.3	459.1 M		680.5	
SC (umhos/cm at 25 C)		430	463		690	
TDS (Measured at 180 C)	370	332	322	460	443	
Water Temperature (C) (Fid)		7.5	9.5		15	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-52	EH-52	EH-52	EH-52	EH-52	EH-52
Water	SAMPLE DATE	8/7/1987	11/17/1987	4/20/1988	4/20/1988	12/13/1988	4/17/1989
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-6495	87-10543	88-2787	88-2778	89-18	89-488
	SAMPLE NUMBER	AEH-8708-43	AEH-8711-202	AEH-8804-329	AEH-8804-344	AEH-8812-163	AEH-8904-234
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		144		87			
Calcium (Ca) (DIS)				41			
Carbonate As CO3				<1			
Chloride (Cl)				7.4 J	5.3		14
Magnesium (Mg) (DIS)				6.5			
Potassium (K) (DIS)				16			
Sodium (Na) (DIS)				28			
Sulfate (SO4)		145 M		74	106		154

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1	1.5	0.9	1.03	1		0.8 J
Arsenic III (dis)	0.02	<0.008	1.1	1.1	0.9 J		0.2
Arsenic V (dis)	1.4	1.8	1.9	0.04	0.09 J		0.5 J
Cadmium (Cd) (DIS)	0.001	0.001	<0.001	<0.001	<0.001		<0.002
Copper (Cu) (DIS)	<0.008	<0.008			<0.008		<0.008
Iron (Fe +2) (TOT)	<0.01	<0.01	<0.001	<0.001	<0.01		<0.01
Iron (Fe) (DIS)	0.02	<0.02	<0.02	<0.02			
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005		<0.02
Manganese (Mn) (DIS)	0.003	0.003					
Zinc (Zn) (DIS)	0.02	0.01	0.009	0.01	0.008		0.01 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.6	2.2	6.4	6.4	4.1		5
pH		8 M		7.09	7.1		6.9
Depth To Water Level (ft)	6.9	7.7	3.6	3.6 A	8.2		7.4
pH (Fld)	6.4	6.3	6.9	6.9	6.8		6
SC (umhos/cm at 25 C) (Fld)	680.6	580.7	378.9	379.4	442.8		568.4
SC (umhos/cm at 25 C)		590		380	445		550
Total Suspended Solids		4.4					
TDS (Measured at 180 C)		389 M		302 J	296		345
Water Temperature (C) (Fld)	15	10.3	6.6	6.6	9.7		7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-52	EH-52	EH-52	EH-52	EH-52	EH-52	
Water	SAMPLE DATE	10/17/1989	4/29/1990	4/29/1990	12/3/1990	5/7/1991	11/18/1991	
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	12:45	
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	
	LAB NUMBER	89-810	90-1041	90-1047	90-2234	91-2685	91-3865	
	SAMPLE NUMBER	AEH-8910-442	AEH-9005-428	AEH-9005-442	AEH-9011-746	AEH-9105-119	AEH-9111-346	
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
	GROUP	RI	RI	RI	RI	RI	RI	
	DESCRIPTION							
	REMARKS		Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	7.7		4.8	2.7 J	4.3	5.6 J
Sulfate (SO4)	182		67.8	50 J	52	144

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.2 J	0.8	0.8	1	0.9	0.8
Arsenic III (dis)	<0.008	0.009 U	<0.008	1.3	0.02 J	0.02 U
Arsenic V (dis)	0.9	0.8	0.9	0.02	0.6 J	0.8
Cadmium (Cd) (DIS)	0.001	0.001	0.001	0.001	0.003	0.001
Copper (Cu) (DIS)	<0.008	<0.008	<0.008	<0.008	0.004	<0.004
Lead (Pb) (DIS)	<0.005 UJ	<0.005	<0.005	<0.005	0.005	<0.005
Zinc (Zn) (DIS)	0.01 J	0.01 U	0.01 U		0.01	0.03

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.6	5	5	5	8.3	3.2
pH	7.7		7.8	7.9	7.8	7.5
Depth To Water Level (ft)	7.2	7.4	7.4	9.9	8.5	7.4
pH (Fld)	7.2	6.6	6.6	7.5	7.3	8.09
SC (umhos/cm at 25 C) (Fld)	697.1	349.9	343.5	333.8	334.6	556
SC (umhos/cm at 25 C)	670		343	310	330	500
TDS (Measured at 180 C)	472 J		226	212 J	231	397 J
Water Temperature (C) (Fld)	13.7	7	7	8.2	9	11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-52	EH-52	EH-52	EH-52	EH-52	EH-52
Water	SAMPLE DATE	4/28/1992	11/19/1992	11/19/1992	5/5/1993	11/9/1993	5/11/1994
	SAMPLE TIME	08:30	11:30	12:30	11:00	16:20	14:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	92-4357	92-6818	92-6815	93-7783	93-9228	94-1352
	SAMPLE NUMBER	AEH-9204-139	EHC-9211-141	EHC-9211-111	EHC-9305-150	EHC-9311-137	EHC-9405-141
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)		51	50	43		
Chloride (Cl)	6.9 J	5.8	5.1	11	9 J	5.5
Magnesium (Mg) (Dis)		8.7	8.6	7.3		
Potassium (K) (Dis)		16	17	14		
Sodium (Na) (Dis)		65	64	42		
Sulfate (SO4)	123	159	150	95	319 J	74 J
Total Hardness As CaCO3				137		

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.5	0.6	0.8 J	0.6	0.4	0.6 J
Arsenic III (dis)	0.02	<0.004	<0.004	<0.004	<0.004	0.008
Arsenic V (dis)	0.5	0.8 J	0.7 J	0.5 J	0.4 J	0.5 J
Cadmium (Cd) (DIS)	0.003	0.001	0.001	0.001	0.001	0.003
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	<0.005	<0.005 UJ	<0.005 UJ	<0.005	<0.005 UJ	<0.005 UJ
Zinc (Zn) (DIS)	0.01	0.02	0.01	0.01	0.02	0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.6	3.8	3.8	5.1	4.2	6.2
pH	8.2	8	8			
Depth To Water Level (ft)	7.6	7.5	7.5	6.8	7.1	6.9
pH (Fld)	6.8	7.1	7.1	6.6	7.4	7.3
SC (umhos/cm at 25 C) (Fld)	517	611	606	508	965	394
SC (umhos/cm at 25 C)	500	650	640	500	1006 J	340 J
TDS (Measured at 180 C)	338	440	440	322	714	236
Water Temperature (C) (Fld)	9.3	10.5	10.5	7.8	9.8	10.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-52	EH-52	EH-52	EH-52	EH-52	EH-52
Water	SAMPLE DATE	11/11/1994	5/10/1995	11/9/1995	5/9/1996	11/8/1996	5/6/1997
	SAMPLE TIME	12:30	14:30	15:00	18:20	16:30	17:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-3283	95-4488	95-6132	96-6788	96-7769	97-912
	SAMPLE NUMBER	EHC-9411-142	EHC-9505-142	EHC-9511-144	EHC-9605-128	EHC-9611-128	EHC-9705-126
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	5.4	8.6	8.3 J	11	14	10
	Sulfate (SO4)	77 J	93	292 J	216	452	173
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.6	0.5	0.5 J	0.3	0.5	0.5
	Arsenic III (dis)	<0.004	<0.004	<0.004	<0.005 UJ	<0.004	<0.005
	Arsenic V (dis)	0.5 J	0.5	0.5 J	0.3 J	0.5	0.4
	Cadmium (Cd) (DIS)	0.004	0.001	<0.001	<0.005	0.001	<0.001
	Copper (Cu) (DIS)	0.004	0.008	<0.004	<0.004	<0.004	<0.004
	Lead (Pb) (DIS)	<0.005 JU	<0.005 J	<0.005 JU	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	0.02	0.01	0.01 U	<0.02	0.02	<0.02
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	4.3	6.04	3.9	5.6	3.7	6.06
	pH		7.3	7.3	6.9	7.7	7
	Depth To Water Level (ft)	7.8	7.2	7.4	7.3	7.5	7.6
	pH (Fld)	7.2	7	7	6.9	6.8	7.9
	SC (umhos/cm at 25 C) (Fld)	473	447	760	737	1150	643
	SC (umhos/cm at 25 C)	476 J	449 J	795 J	670	1286	650
	TDS (Measured at 180 C)	310 J	282 J	525	458	804	444
	Water Temperature (C) (Fld)	12.5	8.9	10.9	4.9	11.5	7.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-52	EH-52	EH-52	EH-52	EH-52	EH-52
Water	SAMPLE DATE	11/5/1997	5/6/1998	11/19/1998	5/10/1999	11/11/1999	5/8/2000
	SAMPLE TIME	13:45	09:30	08:45	13:15	08:40	10:25
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	188-2685	260-3764	312-4443	347-4893	L992008009	L000705028
	SAMPLE NUMBER	EHC-9711-128	EHC-9805-129	EHC-9811-128	EHC-9905-128	EHC-9911-144	EHC-0005-143
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)		131	149	117 J	131	137
	Calcium (Ca) (DIS)		45	49	32	104	27
	Carbonate As CO3				<1 UJ	<1	<1
	Chloride (Cl)	26	26	25	12	46	16
	Magnesium (Mg) (DIS)		8	8	5	18	<5
	Potassium (K) (DIS)		37 J	44	37	75	37
	Sodium (Na) (DIS)		85	93	52	116	63
	Sulfate (SO4)	363	209	264	167	478	122
	Total Alkalinity As CaCO3		107	122	96 J	107	112
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.4	0.4	0.5	0.5	0.4	0.6 J
	Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	0.01	0.02 UJ
	Arsenic V (dis)	0.4 J	0.4	0.5 J	0.6	0.4	0.7
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	0.002	<0.001 J
	Copper (Cu) (DIS)	<0.004	0.005	<0.004	<0.004	0.004	<0.004
	Iron (Fe) (DIS)		<0.05	<0.02	0.07 UJ	<0.02 J	0.03 U
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)		<0.02	<0.02	<0.02	<0.02	<0.02
	Zinc (Zn) (DIS)	0.02	0.02 J	0.03	0.09	0.02 J	<0.02 J
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	3.6	6.6	4.6	7	3.2	8.3
	pH	7.1	7.2	7.4	7.5	7.3	7.4
	Depth To Water Level (ft)	7.3	7.7	7.9	8.05	7.6	8.6
	Eh (millivolts)			442	421	478	414
	pH (Fld)	6.8	7	7.4	7.5	7.4	7.09
	SC (umhos/cm at 25 C) (Fld)	1419	743	879	551	1376	580
	SC (umhos/cm at 25 C)	1223	750	883	547	1381	599
	Total Suspended Solids	2				1.2	
	TDS (Measured at 180 C)	925	521	582	371	1039	390
	Water Temperature (C) (Fld)	11.6	8.6	11.1	8.2	11.5	8.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-52	EH-52	EH-52	EH-52	EH-52	EH-52
Water	SAMPLE DATE	11/9/2000	5/4/2001	11/13/2001	6/1/2002	11/17/2002	6/3/2003
	SAMPLE TIME	14:30	16:30	14:25	16:15	13:20	16:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001897026	L010655005	L011564016	L020396015	L020956015	L030247014
	SAMPLE NUMBER	EHC-0011-144	EHC-0105-170	EHC-0111-168	EHC-0205-186	EHC-0211-182	AEH-0306-197
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	123	124	133	116	127	127
Calcium (Ca) (DIS)	51	45	37	36	85	59
Carbonate As CO3	<1		<1	<1	<1	<2
Chloride (Cl)	27	27	17	15	29	26
Magnesium (Mg) (DIS)	8.5	7.7	6.2	6.3	15	10
Potassium (K) (DIS)	59	50	53	41	62	45
Sodium (Na) (DIS)	64	50	53	35	95	52
Sulfate (SO4)	26 J	165 J	182	139	394	202
Total Alkalinity As CaCO3	101	102	109	95	104	104

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.01	<0.05	<0.05	<0.05	<0.05	
Arsenic (As) (DIS)	0.4	0.4	0.5	0.4	0.3	0.3
Arsenic III (dis)	<0.02	0.2	0.2	0.1	0.2	0.2
Arsenic V (dis)	0.3	0.3	0.4	0.3	0.2	0.2
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	0.005	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.3 UJ	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			56.3	4.1		
Oxygen (O) (DIS) (Fld)	2.03	4.8	1.9	7.1	8.04	5.7
pH	7.9	7.5	7.5	7	6.9	7.1
Silicon+Silica (Si+SiO2)	21	17	21	17	18	
Depth To Water Level (ft)	8.9	8.6	8.3	7.8	8.02	7.07
Eh (millivolts)	422	260	291			
pH (Fld)	7.01	7.4	7.1	6.4	6.05	6.5
SC (umhos/cm at 25 C) (Fld)	747	616	658	602	1090	659
SC (umhos/cm at 25 C)	839	703	650	524	1105	772
Total Suspended Solids		33	5.7	6	6 J	3.7
TDS (Measured at 180 C)	591	480	441	343	784	519
Salinity (G/KG) (Fld)					0.4	0.2
Turbidity (NTU) (Fld)					8	3
Water Temperature (C) (Fld)	11.3	7.8	13.7	8.3	11.1	9.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-52	EH-52	EH-52	EH-52	EH-52	EH-52
Water	SAMPLE DATE	10/28/2003	5/25/2004	10/26/2004	10/26/2004	5/10/2005	11/9/2005
	SAMPLE TIME	12:30	14:10	12:25	12:45	10:55	11:40
	LAB	TSC-SLC	ELI	ELI	ELI	ELI-Casper	ELI-Hel
	LAB NUMBER	L030604002	H04050175-010	H04100182-006	H04100182-007	C05050399-003	H05110081-007
	SAMPLE NUMBER	AEH-0310-402	AEH-0405-174	AEH-0411-115	AEH-0411-116	AEH-0505-102	AEH-0511-131
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	137	150	130	130	126	130
Calcium (Ca) (DIS)	99	51	52	54	35	88
Carbonate As CO3	<2					
Chloride (Cl)	28	19	20	20	16	24
Magnesium (Mg) (DIS)	18	9	9	9	6	16
Potassium (K) (DIS)	64	35	39	40	31	58
Sodium (Na) (DIS)	104	63	76	77	60	102
Sulfate (SO4)	435	190	293	296	136	488
Total Alkalinity As CaCO3	112	120	110	110	103	110

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.4	0.4	0.418	0.418	0.446	0.33
Arsenic III (dis)	0.4	<0.001	<0.003	<0.003	<0.005	<0.005
Arsenic V (dis)	<0.02 J	0.58	0.45	0.45	0.4	0.28
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.05	<0.01	<0.02	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.61	4.93	2.16		5.28	2.78
pH	7.5	7.2	7.2	7.3	7.28	7
Depth To Water Level (ft)	7.95	7.66	7.55		8.07	7.75
pH (Fld)	6.23	6.44	6.85		6.64	6.67
SC (umhos/cm at 25 C) (Fld)	1190	910	789		582	1122
SC (umhos/cm at 25 C)	1227	597	728	735	592	1160
Total Suspended Solids	8.4 J	<10	<10	10	<10	<10
TDS (Measured at 180 C)	872	468	540	542	364	840
TDS - Calculated					362	
Salinity (G/KG) (Fld)	0.5	0.3				
Turbidity (NTU) (Fld)	8					
Water Temperature (C) (Fld)	13.7	9.5	13.2		7.8	12.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-52	EH-52	EH-52	EH-52	EH-52	EH-52
Water	SAMPLE DATE	5/3/2006	6/21/2006	11/8/2006	11/8/2006	4/3/2007	5/23/2007
	SAMPLE TIME	15:25	14:55	09:05	09:15	12:50	12:10
	LAB	ELI-Hel	ELI-Hel	ELI	ELI	ELI	ELI
	LAB NUMBER	H06050044-003	H06060220-004	H06110070-003	H06110070-004	H07040026-007	H07050275-007
	SAMPLE NUMBER	AEH-0605-137	AEH-0606-134	AEH-0611-117	AEH-0611-118	AEH-0703-144	AEH-0705-221
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION					No ORP-Pumping	EPA Split
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	130	150	150	150	130	140
Calcium (Ca) (DIS)	29	49 J	87	85	28	26
Chloride (Cl)	19	18	20	20	15	12
Magnesium (Mg) (DIS)	5	8 J	15	15	5	5
Potassium (K) (DIS)	31	33 J	59	59	31	32
Sodium (Na) (DIS)	52	52	108	106	63	51
Sulfate (SO4)	111	173	465	436	115	78
Total Alkalinity As CaCO3	110	120	120	120	110	120

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)						<0.005
Selenium-VI (DIS)						0.0158
Arsenic (As) (DIS)	0.401	0.354	0.33	0.327	0.391	0.394
Arsenic III (dis)	<0.005 J	<0.005	<0.005	<0.005	<0.005	<0.0028 J
Arsenic V (dis)	0.5 J	0.4	0.4	0.4	0.4	0.41
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02 J	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01 J	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)					0.028	0.02
Zinc (Zn) (DIS)	<0.02	<0.02 J	<0.02	<0.02	<0.02	<0.01

**Nutrients: ppm unless noted**

Total Organic Carbon						0.7
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**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential			95.6			
Oxygen (O) (DIS) (Fid)	4.12	3.1	3.96		6.06	5.14
pH	7.4	7.1	7.2	7.2	7.2	7.6
Depth To Water Level (ft)	7.54	6.7	7.83		8.49	7.89
pH (Fid)	6.58	6.64	6.63		5.73	6.82
SC (umhos/cm at 25 C) (Fid)	509	647	1157		554	521
SC (umhos/cm at 25 C)	518	648	959	980	555	502
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	344	446	816	827	354	323
Water Temperature (C) (Fid)	8.43	11.18	12.26		6.68	9.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-52	EH-52	EH-52	EH-52	EH-52	EH-52
Water	SAMPLE DATE	5/23/2007	7/26/2007	9/11/2007	9/12/2007	11/14/2007	2/1/2008
	SAMPLE TIME	12:15	10:45	16:00	08:50	12:02	09:00
	LAB	EPA-R8	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	8705007-26	H07070280-007	H07090102-009	H07090115-001	H07110122-005	H08020014-001
	SAMPLE NUMBER	AEH-0705-221	AEH-0707-130	AEH-0709-140	AEH-0709-141	AEH-0711-122	AEH-0801-139
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	AEH-0705-221-S					
	REMARKS	Split					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	140	170	200			140
Bicarbonate (HCO3) (dis)					150	
Calcium (Ca) (DIS)	54	46	44	40	28	
Chloride (Cl)	14	10	15	10	9	
Magnesium (Mg) (DIS)	9	8	7	7	5	
Potassium (K) (DIS)	47	46	90	43	33	
Sodium (Na) (DIS)	60	57	152	58	50	
Sulfate (SO4)	258	169	364	159	113	
Total Alkalinity As CaCO3	120	140	160	120	110	

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)					<0.005	
Selenium-VI (DIS)					0.0334	
Aluminum (Al) (DIS)	<0.1					
Antimony (Sb) (DIS)	0.021					
Arsenic (As) (DIS)	0.372	0.336	0.384	1.444	0.398	0.41
Arsenic III (DIS)					<0.0028	
Arsenic V (DIS)					0.435	
Barium (Ba) (DIS)	0.041					
Beryllium (Be) (DIS)	<0.001					
Cadmium (Cd) (DIS)	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.002					
Cobalt (Co) (DIS)	<0.002					
Copper (Cu) (DIS)	<0.01	<0.004	<0.004	<0.004	0.001	<0.004
Iron (Fe) (DIS)	<0.1	<0.02	0.02	<0.02	<0.01	<0.02
Lead (Pb) (DIS)	<0.001	<0.005	<0.005	<0.005	<0.003	<0.005
Manganese (Mn) (DIS)	<0.002	<0.01	<0.01	0.04	<0.01	<0.01
Mercury (Hg) (DIS)	<0.0001					
Nickel (Ni) (DIS)	0.0072					
Selenium (Se) (DIS)	0.0195	0.04	0.029	0.061	0.032	0.027
Silver (Ag) (DIS)	<0.0005					
Thallium (Tl) (DIS)	<0.0003					
Tin (Sn) (DIS)	<0.2					
Vanadium (V) (DIS)	<0.01					
Zinc (Zn) (DIS)	<0.04	0.01 UJ	0.01	<0.01	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.47	2.77	0.24	3.11	6.83	
pH	7.3	7	7.5	7.2	7.1	
Depth To Water Level (ft)	7.35	7.68	6.78	7.88	9.07	
pH (Fld)	6.77	6.73	7.27	9.58 R	7.17	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-52	EH-52	EH-52	EH-52	EH-52
Water	SAMPLE DATE	7/26/2007	9/11/2007	9/12/2007	11/14/2007	2/1/2008
	SAMPLE TIME	10:45	16:00	08:50	12:02	09:00
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H07070280-007	H07090102-009	H07090115-001	H07110122-005	H08020014-001
	SAMPLE NUMBER	AEH-0707-130	AEH-0709-140	AEH-0709-141	AEH-0711-122	AEH-0801-139
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	747	675	1179	677	548
SC (umhos/cm at 25 C)	743	618	1120	659	484
Total Suspended Solids	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	492	459	768	423	351
Water Temperature (C) (Fid)	13.88	15.9	11.9	12.58	8.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-52	EH-52	EH-52	EH-52	EH-52	EH-52
Water	SAMPLE DATE	4/29/2008	7/14/2008	11/10/2008	11/10/2008	2/9/2009	2/9/2009
	SAMPLE TIME	10:40	17:50	11:05	11:15	10:00	10:10
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08040441-002	H08070318-002	H08110106-003	H08110106-004	H09020078-004	H09020078-005
	SAMPLE NUMBER	AEH-0805-101	AEH-0807-114	AEH-0811-197	AEH-0811-198	AEH-0902-165	AEH-0902-166
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	130	130	140	150	130	130	
Calcium (Ca) (DIS)	25	39	37	38	33	33	
Chloride (Cl)	11	12	8	8	24	24	
Magnesium (Mg) (DIS)	4	7	7	7	6	6	
Potassium (K) (DIS)	28	38	36	36	32	32	
Sodium (Na) (DIS)	38	45	45	44	47	48	
Sulfate (SO4)	81	160	150	150	120	120	
Total Alkalinity As CaCO3	100	100	120	120	110	100	
<b>Metals (mg/L): ppm unless noted</b>							
Selenium-IV (DIS)	0.0098 J+		<0.005	<0.005			
Selenium-VI (DIS)	<0.005 J		0.03	0.031			
Aluminum (Al) (DIS)	<0.1		<0.1	<0.1			
Antimony (Sb) (DIS)	0.02		0.021	0.021			
Arsenic (As) (DIS)	0.418	0.345	0.387	0.394	0.37	0.367	
Arsenic III (DIS)	<0.005		<0.005	<0.005			
Arsenic V (DIS)	0.271		0.315	0.378			
Barium (Ba) (DIS)	<0.1		<0.1	<0.1			
Beryllium (Be) (DIS)	<0.001		<0.001	<0.001			
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chromium (Cr) (DIS)	<0.001		<0.001	<0.001			
Cobalt (Co) (DIS)	<0.01		<0.01	<0.01			
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Iron (Fe) (DIS)	<0.02	0.05	<0.02	<0.02	<0.02	<0.02	
Lead (Pb) (DIS)	<0.005 J	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Mercury (Hg) (DIS)	<0.006		<0.006	<0.006			
Nickel (Ni) (DIS)	<0.01		<0.01	<0.01			
Selenium (Se) (DIS)	0.01	0.03	0.031	0.032	0.023	0.023	
Silver (Ag) (DIS)	<0.005		<0.005	<0.005			
Thallium (Tl) (DIS)	<0.002		<0.002	<0.002			
Vanadium (V) (DIS)	<0.01		<0.01	<0.01			
Zinc (Zn) (DIS)	0.01	<0.01	<0.02	<0.02	<0.02	<0.02	
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	5.63	1.53	3.28		5.62		
pH	7.2	7	7.2	7.2	7.2	7.2	
Depth To Water Level (ft)	8.62	7.35	7.42		8.97		
pH (Fld)	6.87	6.69	6.79		6.52		
SC (umhos/cm at 25 C) (Fld)	437	623	603		559		
SC (umhos/cm at 25 C)	431	583	608	609	556	555	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-52	EH-52	EH-52	EH-52	EH-52	EH-52
Water	SAMPLE DATE	4/29/2008	7/14/2008	11/10/2008	11/10/2008	2/9/2009	2/9/2009
	SAMPLE TIME	10:40	17:50	11:05	11:15	10:00	10:10
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08040441-002	H08070318-002	H08110106-003	H08110106-004	H09020078-004	H09020078-005
	SAMPLE NUMBER	AEH-0805-101	AEH-0807-114	AEH-0811-197	AEH-0811-198	AEH-0902-165	AEH-0902-166
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
	<b>Physical/Fld-Lab: ppm unless noted</b>						
Total Suspended Solids		<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)		258	386	386	389	352	354
Water Temperature (C) (Fld)		8.5	12.5	11.9		8	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-52	EH-53	EH-53	EH-53	EH-53
Water	SAMPLE DATE	5/13/2009	11/13/1986	11/13/1986	11/13/1986	11/13/1986
	SAMPLE TIME	13:40	00:00	00:00	00:00	00:00
	LAB	ELI	RMAL	TSC-SLC	RMAL	TSC-SLC
	LAB NUMBER	H09050210-012	8611-17	86-7537	8611-18	86-7538
	SAMPLE NUMBER	AEH-0905-199	AEH-8611-17	AEH-8611-17	AEH-8611-18	AEH-8611-18
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Split		Field Duplicate	Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>						
	Bicarbonate (HCO3)	120	229	288		
	Calcium (Ca) (DIS)	26	191	195 M	192	
	Carbonate As CO3		<5	<1		
	Chloride (Cl)	14	78	76		
	Magnesium (Mg) (DIS)	5	65.3	66	65.3	
	Potassium (K) (DIS)	28	6.7	7.8	6.6	
	Sodium (Na) (DIS)	37	65.2	62	65	
	Sulfate (SO4)	78	509	488		
	Total Alkalinity As CaCO3	100				
<b>Metals (mg/L): ppm unless noted</b>						
	Aluminum (Al) (DIS)	<0.1				
	Antimony (Sb) (DIS)	0.019				
	Arsenic (As) (DIS)	0.387	<0.01	<0.006	<0.01	<0.006
	Arsenic III (dis)			<0.008		<0.008
	Arsenic V (dis)			0.02		0.08 M
	Barium (Ba) (DIS)	<0.1				
	Beryllium (Be) (DIS)	<0.001				
	Cadmium (Cd) (DIS)	<0.001	<0.005	<0.001	<0.005	<0.001
	Chromium (Cr) (DIS)	<0.001				
	Cobalt (Co) (DIS)	<0.0005 J				
	Copper (Cu) (DIS)	<0.001	<0.004	<0.008	<0.004	0.008
	Gold (Au) (DIS)	<0.01				
	Iron (Fe +2) (TOT)			0.08		0.06
	Iron (Fe) (DIS)	<0.02	<0.03	0.04	<0.03	0.04
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)	<0.01	0.2	0.2	0.2	0.2
	Mercury (Hg) (DIS)	<0.0001				
	Nickel (Ni) (DIS)	<0.01				
	Selenium (Se) (DIS)	0.016				
	Silver (Ag) (DIS)	<0.005				
	Tellurium (Te) (DIS)	<0.1				
	Thallium (Tl) (DIS)	<0.001				
	Vanadium (V) (DIS)	<0.01				
	Zinc (Zn) (DIS)	<0.01	0.02	0.02	0.02	0.02
<b>Physical/Fld-Lab: ppm unless noted</b>						
	Oxygen (O) (DIS) (Fld)	6.46		8		8
	pH	7.4	7.2	7.2		
	Depth To Water Level (ft)	8.1		22.6		22.6
	pH (Fld)	6.89		6.9		6.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-52	EH-53	EH-53	EH-53
Water	SAMPLE DATE	5/13/2009	11/13/1986	11/13/1986	11/13/1986
	SAMPLE TIME	13:40	00:00	00:00	00:00
	LAB	Hydrometrics	RMAL	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050210-012	8611-17	86-7537	86-7538
	SAMPLE NUMBER	AEH-0905-199	AEH-8611-17	AEH-8611-17	AEH-8611-18
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS		Split		Field Duplicate
<b>Physical/Fid-Lab: ppm unless noted</b>					
	SC (umhos/cm at 25 C) (Fld)	447		1478	1478
	SC (umhos/cm at 25 C)	455	1425	1425 M	
	Total Suspended Solids	<10			
	TDS (Measured at 180 C)	293	1180	1142 M	
	Water Temperature (C) (Fld)	7.7		9.2	9.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-53	EH-53	EH-53	EH-53	EH-53	EH-53
Water	SAMPLE DATE	2/3/1987	4/21/1987	4/21/1987	8/7/1987	8/7/1987	11/16/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC
	LAB NUMBER	87-779	87-2823	87-2424	8708-18	87-5211	87-10544
	SAMPLE NUMBER	AEH-8701-112	AEH-8704-15	AEH-8704-16	AEH-8708-18	AEH-8708-18	AEH-8711-203
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate		Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	278	281 M		220	261	248
Calcium (Ca) (DIS)	322 M	316		337	281	
Carbonate As CO3	<1	<1		<5	<1	
Chloride (Cl)	88	110		110	106	
Magnesium (Mg) (DIS)	78	97		98.5	100.5	
Potassium (K) (DIS)	6.5	7 M		5.9	7.4	
Sodium (Na) (DIS)	66	71		72.8	75	
Sulfate (SO4)	620	870		940	960 M	920 M

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.006	<0.006	<0.006	<0.004	<0.006	0.02 M
Arsenic III (dis)	0.01	0.02	0.02		0.008 M	<0.008
Arsenic V (dis)	<0.008	0.01	0.01		0.04 M	0.008
Cadmium (Cd) (DIS)	0.001	<0.001	<0.001	0.002	<0.001	0.001
Copper (Cu) (DIS)	0.008	0.01	0.009	0.002	<0.008	0.01
Iron (Fe +2) (TOT)	<0.01	<0.01	<0.01		0.01	<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	0.01	<0.02	0.03
Lead (Pb) (DIS)	<0.005 M	0.01 M	0.005 M	<0.002	0.006	<0.01 M
Manganese (Mn) (DIS)	0.01	0.008	0.009	0.002	0.003	0.004
Zinc (Zn) (DIS)	0.008	<0.008	<0.008	<0.003	0.009 M	0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5	5.8	5.8		4.9	4.4
pH	7.4	7.4			7.8	7.9
Depth To Water Level (ft)	26.9	31.05 M	31.05		25.7	26
pH (Fld)	6.9	5.6 M	6.8		6.2	6.09
SC (umhos/cm at 25 C) (Fld)	1706	2036	2057		2202	2177
SC (umhos/cm at 25 C)	1700	2100			2210	2100
Total Suspended Solids						47.5
TDS (Measured at 180 C)	1496	1822 M		1850	1806	1851 M
Water Temperature (C) (Fld)	9	11	11		11.8	8.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-53	EH-53	EH-53	EH-53	EH-53	EH-53
Water	SAMPLE DATE	4/13/1988	12/12/1988	4/12/1989	10/12/1989	4/28/1990	11/28/1990
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	88-2718	89-26	89-483	89-795	90-1048	90-2233
	SAMPLE NUMBER	AEH-8804-345	AEH-8812-164	AEH-8904-235	AEH-8910-443	AEH-9005-443	AEH-9011-747
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	202						
Calcium (Ca) (DIS)	290						
Carbonate As CO3	<1						
Chloride (Cl)	108	98	104	86.7	77.3	45 J	
Magnesium (Mg) (DIS)	95						
Potassium (K) (DIS)	8.1						
Sodium (Na) (DIS)	77.5						
Sulfate (SO4)	917	880	870	760	693	429 J	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.006	0.006	<0.004	<0.008	0.01	0.009
Arsenic III (dis)	<0.008	0.04 J	<0.008	<0.008	<0.008	0.02 U
Arsenic V (dis)	0.02	<0.008 J	0.02 J	0.008	0.01 U	0.004 U
Cadmium (Cd) (DIS)	<0.001	0.001	<0.002	<0.003	0.001	0.001 U
Copper (Cu) (DIS)		0.009	<0.008	<0.008	0.008	<0.008
Iron (Fe +2) (TOT)	0.01	<0.01	<0.01			
Iron (Fe) (DIS)	<0.02					
Lead (Pb) (DIS)	0.03 J	0.05	<0.02	<0.005 UJ	<0.005	<0.005 UJ
Zinc (Zn) (DIS)	0.01	<0.008	0.008	<0.008	0.006	

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.5	6.8	5.4	8.2	8.6	7.1
pH	6.9	6.9	6.6	7.8	7.6	7.9
Depth To Water Level (ft)	31.3	33.3	34.3	22.2	30.5	28.01
pH (Fld)	6.7	6.04	6.5	6.7	6.7	7.3
SC (umhos/cm at 25 C) (Fld)	2136	2066	2067	1893	1777	1303
SC (umhos/cm at 25 C)	2000	2030	2080	1820	1800	1300
TDS (Measured at 180 C)	1826 J	1648	1769 J	1520 J	1403	945 J
Water Temperature (C) (Fld)	11.5	11.1	11	11.9	9.7	9.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-53	EH-53	EH-53	EH-53	EH-53	EH-53
Water	SAMPLE DATE	5/3/1991	11/13/1991	11/13/1991	4/15/1992	11/13/1992	5/3/1993
	SAMPLE TIME	00:00	14:30	16:00	13:00	16:45	10:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	91-2660	91-3618	91-3623	92-4285	92-6785	93-7767
	SAMPLE NUMBER	AEH-9105-120	AEH-9111-318	AEH-9111-355	AEH-9204-106	EHC-9211-169	EHC-9305-134
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Calcium (Ca) (Dis)					202 J	224
	Chloride (Cl)	68	43	43	54 J	57	81
	Magnesium (Mg) (Dis)					60	70
	Potassium (K) (Dis)					5.2 J	6.3
	Sodium (Na) (Dis)					63	73
	Sulfate (SO4)	600	407	372	434	429	632
	Total Hardness As CaCO3						847
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.006	0.006	0.01	0.007	<0.004 UJ	<0.004
	Arsenic III (dis)	0.01	0.02 U	0.02 U	0.006	<0.004 J	<0.004
	Arsenic V (dis)	0.01	0.03 U	0.03 U	<0.004	0.005 UJ	0.01 J
	Cadmium (Cd) (DIS)	0.002	<0.001	<0.001	<0.001	0.001	0.001
	Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.004	0.006	0.005
	Lead (Pb) (DIS)	<0.005	<0.005 J	<0.005 J	<0.005	0.005	<0.005
	Zinc (Zn) (DIS)	0.008	0.02	0.02	0.01	<0.006	0.01
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	6.6	10.6	10.6	9.1	10.2	7.2
	pH	7.7	7.3	7.2	7.3	7.9	
	Depth To Water Level (ft)	33.4	14.6	14.6	25.9	23.8	29.9
	pH (Fld)	6.7	7.07	7.07	7.08	7	6.6
	SC (umhos/cm at 25 C) (Fld)	1607	1180	1180	1340	1390	1674
	SC (umhos/cm at 25 C)	1650	1200	1220	1400	1380	1700
	TDS (Measured at 180 C)	1363	974 J	904 J	1054 J	1090	1376
	Water Temperature (C) (Fld)	10.3	12.7	12.7	13	11	12.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-53	EH-53	EH-53	EH-53	EH-53	EH-53
Water	SAMPLE DATE	5/3/1993	11/5/1993	5/4/1994	11/9/1994	5/5/1995	11/7/1995
	SAMPLE TIME	13:50	10:20	16:15	16:20	15:40	09:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-7764	93-9199	94-1100	94-3263	95-4458	95-6095
	SAMPLE NUMBER	EHC-9305-131	EHC-9311-138	EHC-9405-142	EHC-9411-143	EHC-9505-143	EHC-9511-145
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)	244					
Chloride (Cl)	81	61 J	69	64	98	85
Magnesium (Mg) (Dis)	71					
Potassium (K) (Dis)	6.3					
Sodium (Na) (Dis)	73					
Sulfate (SO4)	597	467	556	495	729	649
Total Hardness As CaCO3	626 J					

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.004 J	<0.004	<0.004	<0.004 J	<0.004	<0.004
Arsenic III (dis)	<0.004 J	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic V (dis)	0.01 UJ	<0.004 J	<0.004	0.01 U	<0.004	<0.004
Cadmium (Cd) (DIS)	0.001	<0.001	0.001	0.001	0.003	0.001
Copper (Cu) (DIS)	0.004	<0.004	0.004	<0.004	0.01	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	0.009	<0.006	0.008	0.01	0.01	0.006

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.2	11.2	10.1	10.6	7.2	9.7
pH					6.8	7.5
Depth To Water Level (ft)	29.9	15.7	24.6	19.8	30.6	16
pH (Fld)	6.6	6.9	7.1	7.3	7.2	6.9
SC (umhos/cm at 25 C) (Fld)	1660	252 A	1460	1393	1786	1622
SC (umhos/cm at 25 C)	1650	1512 J	1545	1396	1800	1690
TDS (Measured at 180 C)	1383	1164	1159	1083	1384	1248
Water Temperature (C) (Fld)	12.6	7.9	12	10.4	11.3	9.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-53	EH-53	EH-53	EH-53	EH-53	EH-53
Water	SAMPLE DATE	11/7/1995	5/7/1996	11/6/1996	5/5/1997	11/3/1997	5/4/1998
	SAMPLE TIME	09:30	13:20	15:30	11:20	17:20	16:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-6103	96-6712	96-7738	97-913	187-2667	261-3765
	SAMPLE NUMBER	EHC-9511-165	EHC-9605-129	EHC-9611-129	EHC-9705-127	EHC-9711-129	EHC-9805-130
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)							260
Calcium (Ca) (DIS)							241
Chloride (Cl)	93	109	113	140	112		130
Magnesium (Mg) (DIS)							72
Potassium (K) (DIS)							9 J
Sodium (Na) (DIS)							110
Sulfate (SO4)	720	777	846 J	754	668		744
Total Alkalinity As CaCO3							213

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.004	<0.005	<0.004	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.004	<0.005 UJ	<0.004	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	0.004	<0.005 UJ	<0.004	<0.005	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	0.004	0.004	0.005	0.005	0.005	0.006
Iron (Fe) (DIS)							<0.05
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)							<0.02
Zinc (Zn) (DIS)	0.006	<0.02	<0.008	<0.02	<0.02	<0.02	0.03

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.8	8.02	8.2	7.9	8.5		5.8
pH	7.2	6.9	8	6.9	7.1		7
Depth To Water Level (ft)	16	25.6	21.9	26.3	19		29
pH (Fld)	6.9	6.5	7	7	6.9		6.5
SC (umhos/cm at 25 C) (Fld)	1634	1575	2060	1998	1683		1745
SC (umhos/cm at 25 C)	1778	1460	1950	2090	1774		1995
Total Suspended Solids					1		
TDS (Measured at 180 C)	1346	1344	1571	1723	1450		1610
Water Temperature (C) (Fld)	9.5	12	9.6	11.1	10.2		12.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-53	EH-53	EH-53	EH-53	EH-53	EH-53
Water	SAMPLE DATE	11/17/1998	5/7/1999	11/9/1999	5/2/2000	11/6/2000	11/6/2001
	SAMPLE TIME	13:45	14:50	09:25	10:40	14:45	14:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	310-4406	346-4873	L992008010	L000704001	L001873007	L011539008
	SAMPLE NUMBER	EHC-9811-129	EHC-9905-129	EHC-9911-145	EHC-0005-144	EHC-0011-145	EHC-0111-169
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	278	251 J	244	228	222	237
Calcium (Ca) (DIS)	208	241	221	203	212	174
Carbonate As CO3		<1 UJ	<1	<1	<1	<1
Chloride (Cl)	98	131	107	108	97 J	81 J
Magnesium (Mg) (DIS)	59	78	65	59	59	52
Potassium (K) (DIS)	6.3	12	7.7	7.2	7.5	6.4
Sodium (Na) (DIS)	112	134	107	109	123	99
Sulfate (SO4)	573	783	676	713	673 J	468
Total Alkalinity As CaCO3	228	206 J	200	187	182	194

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)					<0.01 J	<0.05
Arsenic (As) (DIS)	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.005	<0.005	<0.005	0.01 UJ	<0.02	<0.005
Arsenic V (dis)	<0.005	<0.005	<0.005	0.009 U	<0.02	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	0.004 U	<0.004	0.005	<0.004 J	<0.004
Iron (Fe) (DIS)	0.03	0.05 UJ	<0.02	0.02 UJ	<0.02 J	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02 UJ	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02 J	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential						124.3
Oxygen (O) (DIS) (Fld)	9.07	5.9	7.2	7.6	12.5	10.01
pH	7.1	7.3	7.1	7.1	7.4	7.6
Silicon+Silica (Si+SiO2)					33	33
Depth To Water Level (ft)	18.5	36	25.8	33.8	34.02	22.7
Eh (millivolts)	427	406	437	366	470	345
pH (Fld)	6.9	6.9	7.2	6.8	7.4	7.5
SC (umhos/cm at 25 C) (Fld)	1758	1767	1914	1855	1945	1428
SC (umhos/cm at 25 C)	1751	2030	1835	1862	1928	1503
Total Suspended Solids	<1		<1 UJ			1.3
TDS (Measured at 180 C)	1379	1590	1469 J	1455	1510	1147
Water Temperature (C) (Fld)	10.1	11.5	10.7	11.6	9.8	11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-53	EH-53	EH-53	EH-53	EH-53	EH-53
Water	SAMPLE DATE	5/17/2002	11/17/2002	6/4/2003	10/29/2003	5/19/2004	10/27/2004
	SAMPLE TIME	11:30	09:15	10:05	08:00	09:50	09:35
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	L020370002	L020957007	L030256005	L030604013	H04050121-002	H04100192-002
	SAMPLE NUMBER	EHC-0205-187	EHC-0211-183	AEH-0306-203	AEH-0310-415	AEH-0405-112	AEH-0411-127
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	244	261	237	227	240	250
Calcium (Ca) (DIS)	174	147	138	142	151	125
Carbonate As CO3	<1	<1	<2	<2		
Chloride (Cl)	59	68	68	68	120	80
Magnesium (Mg) (DIS)	50	44	42	41	44	41
Potassium (K) (DIS)	7.3	5.7	5.5	6.1	7 UJ	6
Sodium (Na) (DIS)	108	86	93	93	93	88
Sulfate (SO4)	567	430	372	400	470	450
Total Alkalinity As CaCO3	200	214	194	186	190	210

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05				
Arsenic (As) (DIS)	<0.005	<0.005	<0.005	0.008	<0.005	<0.005
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001
Arsenic V (dis)	<0.005	<0.005	<0.005	<0.005	0.0021	0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.03	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.01	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.05	<0.01	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	85.9					
Oxygen (O) (DIS) (Fld)	8.4	9	10.06	8	0.61	8.53
pH		7.2	7.3	7.6	7.2	7.1
Silicon+Silica (Si+SiO2)	30	29				
Depth To Water Level (ft)	32.5	24.4	27.3	24.05	27.53	22.61
pH (Fld)	5	6.1	6.3	6.19	6.25	6.77
SC (umhos/cm at 25 C) (Fld)	1386	1290	1300	1300	1460	1316
SC (umhos/cm at 25 C)	1538	1342	1332	1347	1220	1180
Total Suspended Solids	2.1	<1 J	16	2.8	<10 J	<10
TDS (Measured at 180 C)	1151	1018	969	976	1020	951
Salinity (G/KG) (Fld)		0.5	0.5	0.5	0.6	
Turbidity (NTU) (Fld)		1	1	1		
Water Temperature (C) (Fld)	11.4	11.2	11.1	11.1	11.2	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-53	EH-53	EH-53	EH-53	EH-53	EH-53
Water	SAMPLE DATE	10/27/2004	5/10/2005	11/7/2005	11/7/2005	5/1/2006	5/1/2006
	SAMPLE TIME	09:55	11:20	13:20	13:30	14:00	14:10
	LAB	ELI	ELI-Casper	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel
	LAB NUMBER	H04100192-003	C05050399-004	H05110055-004	H05110055-005	H06050010-006	H06050010-007
	SAMPLE NUMBER	AEH-0411-128	AEH-0505-103	AEH-0511-103	AEH-0511-104	AEH-0605-105	AEH-0605-106
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate		Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	250	235	240	230	240	240
Calcium (Ca) (DIS)	125	149	135	129	147	147
Chloride (Cl)	80	74	82	82	97	95
Magnesium (Mg) (DIS)	41	45	42	40	43	44
Potassium (K) (DIS)	6	6	6	5	6	6
Sodium (Na) (DIS)	88	100	98	91	111	112
Sulfate (SO4)	460	412	397	373	476	459
Total Alkalinity As CaCO3	200	192	200	190	190	200

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	0.003	0.003	0.004	0.002	0.003
Arsenic III (dis)	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	0.0013	0.004	<0.005	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	0.005	0.005	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		7.08	8.34		5.39	
pH	7.4	7.08	6.9	6.9	6.9	7
Depth To Water Level (ft)		31.53	24.45		27.7	
pH (Fld)		6.54	6.6		6.58	
SC (umhos/cm at 25 C) (Fld)		1379	1395		1500	
SC (umhos/cm at 25 C)	1170	1430	1350	1320	1360	1360
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	951	983	1020	1010	1070	1110
TDS - Calculated		935				
Water Temperature (C) (Fld)		11.1	11.81		11.81	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-53	EH-53	EH-53	EH-53	EH-53	EH-53
Water	SAMPLE DATE	6/19/2006	11/7/2006	4/3/2007	5/10/2007	7/24/2007	7/24/2007
	SAMPLE TIME	11:30	09:55	10:20	09:00	10:50	11:00
	LAB	ELI-Hel	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06060187-002	H06110064-002	H07040026-001	H07050128-001	H07070241-005	H07070241-006
	SAMPLE NUMBER	AEH-0606-101	AEH-0611-103	AEH-0703-138	AEH-0705-120	AEH-0707-104	AEH-0707-105
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION			No ORP-Pumping			
	REMARKS						Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	240	250	250	250	250	250
Calcium (Ca) (DIS)	142	116	124	136	133	132
Chloride (Cl)	87	66	82	80	85	85
Magnesium (Mg) (DIS)	45	36	36	40	42	42
Potassium (K) (DIS)	7	6	6	7	4	4
Sodium (Na) (DIS)	99	108	115	110	106	100
Sulfate (SO4)	404	354	378	374	400	395
Total Alkalinity As CaCO3	190	200	210	200	200	200

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.002	0.004	0.005	0.003	0.004 UJ	0.004 UJ
Arsenic III (DIS)	<0.005	<0.005	<0.005	<0.001		
Arsenic V (DIS)	<0.005	<0.005	<0.005	0.0012		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	0.011	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)			0.025	0.022	0.026	0.027
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential		107.9				
Oxygen (O) (DIS) (Fid)	13.02 A	7.96	7.16	6.99	7.44	
pH	7.2	7	7.1	7.2	7.2	7.2
Depth To Water Level (ft)	24.17	20.07	25.97	27.07	22.67	
pH (Fid)	6.49	6.66	6.71	6.73	6.76	
SC (umhos/cm at 25 C) (Fid)	1398	1281	1364	1374	1421	
SC (umhos/cm at 25 C)	1360	1250	1290	1310	1350	1340
Total Suspended Solids	<10	<10 J	<10	<10	<10	<10
TDS (Measured at 180 C)	1010	937	935	973	1030	1030
Water Temperature (C) (Fid)	11.07	11.8	11.21	11.32	11.3	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-53	EH-53	EH-53	EH-53	EH-53	EH-53
Water	SAMPLE DATE	9/5/2007	11/12/2007	11/12/2007	1/30/2008	5/1/2008	7/15/2008
	SAMPLE TIME	10:25	14:20	14:30	10:00	08:50	13:50
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07090032-004	H07110094-003	H07110094-004	H08010227-001	H08050019-003	H08070318-015
	SAMPLE NUMBER	AEH-0709-110	AEH-0711-102	AEH-0711-103	AEH-0801-110	AEH-0805-123	AEH-0807-127
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	Split w/EPA					
	REMARKS			Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	240			250	240	230
Bicarbonate (HCO3) (dis)		250	250			
Calcium (Ca) (DIS)	139	134	133	136	152	123
Chloride (Cl)	85	82	92	77	78	60
Magnesium (Mg) (DIS)	41	41	41	41	46	37
Potassium (K) (DIS)	6	7	7	6	6	6
Sodium (Na) (DIS)	119	117	118	122	121	120
Sulfate (SO4)	472	481	422	455	470	470
Total Alkalinity As CaCO3	200	200	200	200	190	190

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005 A	<0.005 A		0.0113 J+	
Selenium-VI (DIS)		0.0114 A	0.0125 A		<0.005 J	
Aluminum (Al) (DIS)					<0.1	
Antimony (Sb) (DIS)					<0.005	
Arsenic (As) (DIS)	0.005	0.005	0.006	0.005	0.005	0.003
Arsenic III (DIS)		0.0014	<0.001		<0.005	
Arsenic V (DIS)		0.0015	<0.001		<0.005	
Barium (Ba) (DIS)					<0.1	
Beryllium (Be) (DIS)					<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)					<0.001	
Cobalt (Co) (DIS)					<0.01	
Copper (Cu) (DIS)	<0.004	0.002	0.002	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.01	<0.01	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.003	<0.003	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)					<0.006	
Nickel (Ni) (DIS)					<0.01	
Selenium (Se) (DIS)	0.038	0.032	0.034	0.036	0.032	0.046
Silver (Ag) (DIS)					<0.005	
Thallium (Tl) (DIS)					<0.002	
Vanadium (V) (DIS)					<0.01	
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	98.1					
Oxygen (O) (DIS) (Fld)	6.84	6.6		5.43	5.59	6.42
pH	7	7.1	7.1	7.3	7.4	6.9
Depth To Water Level (ft)	22.64	23.36		28.09	31.81	25.91
pH (Fld)	6.58	6.71		6.8	6.81	6.62

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-53	EH-53	EH-53	EH-53	EH-53	EH-53
Water	SAMPLE DATE	9/5/2007	11/12/2007	11/12/2007	1/30/2008	5/1/2008	7/15/2008
	SAMPLE TIME	10:25	14:20	14:30	10:00	08:50	13:50
	LAB	Hydrometrics	Hydrometrics	ELI	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H07090032-004	H07110094-003	H07110094-004	H08010227-001	H08050019-003	H08070318-015
	SAMPLE NUMBER	AEH-0709-110	AEH-0711-102	AEH-0711-103	AEH-0801-110	AEH-0805-123	AEH-0807-127
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	Split w/EPA					
	REMARKS			Field Duplicate			
<b>Physical/Fid-Lab: ppm unless noted</b>							
	SC (umhos/cm at 25 C) (Fld)	1516	1473		1548	1509	1462
	SC (umhos/cm at 25 C)	1430	1390	1390	1460	1400	1330
	Total Suspended Solids	<10	<10	<10	<10	<10	<10
	TDS (Measured at 180 C)	1100	1060	1060	1090	1090	1040
	Water Temperature (C) (Fld)	11.35	11.68		11.6	11.4	11.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-53	EH-53	EH-53	EH-54	EH-54
Water	SAMPLE DATE	11/3/2008	2/3/2009	5/6/2009	11/24/1986	11/24/1986
	SAMPLE TIME	11:02	15:10	14:40	00:00	00:00
	LAB	ELI	ELI	ELI	RMAL	TSC-SLC
	LAB NUMBER	H08110021-001	H09020036-004	H09050142-013	8611-32	86-7836
	SAMPLE NUMBER	AEH-0811-147	AEH-0902-123	AEH-0905-136	AEH-8611-32	AEH-8611-32
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS				Split	
<b>Common Ions (mg/L): ppm unless noted</b>						
Bicarbonate (HCO3)		250	250	230	91	121
Calcium (Ca) (DIS)		149	141	147	41.2	37
Carbonate As CO3					<5	<1
Chloride (Cl)		69	69	60	4.5	3.3
Magnesium (Mg) (DIS)		46	41	45	8.9	7.8
Potassium (K) (DIS)		7	7	7	3.6	3.5 M
Sodium (Na) (DIS)		129	135	140	14.3	14 M
Sulfate (SO4)		500	490	510	61	52
Total Alkalinity As CaCO3		200	210	190		
<b>Metals (mg/L): ppm unless noted</b>						
Selenium-IV (DIS)		<0.005				
Selenium-VI (DIS)		0.031				
Aluminum (Al) (DIS)		<0.1		<0.1		
Antimony (Sb) (DIS)		<0.005		<0.005		
Arsenic (As) (DIS)		0.004	0.003	<0.005	0.01	0.01
Arsenic III (DIS)		<0.005				<0.008
Arsenic V (DIS)		<0.005 J-				0.03
Barium (Ba) (DIS)		<0.1		<0.1		
Beryllium (Be) (DIS)		<0.001		<0.001		
Cadmium (Cd) (DIS)		<0.001	<0.001	<0.001	<0.005	<0.001
Chromium (Cr) (DIS)		<0.001		<0.001		
Cobalt (Co) (DIS)		<0.01		<0.0005		
Copper (Cu) (DIS)		0.006	<0.004	0.002	<0.004	<0.008
Gold (Au) (DIS)				<0.01 UJ		
Iron (Fe +2) (TOT)						0.03 M
Iron (Fe) (DIS)		<0.02	<0.02	<0.02	<0.03	<0.02
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		<0.01	<0.01	<0.01	0.1	0.1
Mercury (Hg) (DIS)		<0.006		<0.0001		
Nickel (Ni) (DIS)		<0.01		<0.01		
Selenium (Se) (DIS)		0.044	0.038	0.048		
Silver (Ag) (DIS)		<0.005		<0.005		
Tellurium (Te) (DIS)				<0.1		
Thallium (Tl) (DIS)		<0.002		<0.001		
Vanadium (V) (DIS)		<0.01		<0.01		
Zinc (Zn) (DIS)		<0.02	<0.02	<0.01 J	<0.002	<0.008 M
<b>Physical/Fid-Lab: ppm unless noted</b>						
Oxygen (O) (DIS) (Fld)		7.45	5.73	6.02		2.8
pH		7.2	6.9	7.2	6.7	6.7 M

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-53	EH-53	EH-53	EH-54	EH-54
Water	SAMPLE DATE	11/3/2008	2/3/2009	5/6/2009	11/24/1986	11/24/1986
	SAMPLE TIME	11:02	15:10	14:40	00:00	00:00
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	RMAL	TSC-SLC
	LAB NUMBER	H08110021-001	H09020036-004	H09050142-013	8611-32	86-7836
	SAMPLE NUMBER	AEH-0811-147	AEH-0902-123	AEH-0905-136	AEH-8611-32	AEH-8611-32
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS				Split	
<b>Physical/Fid-Lab: ppm unless noted</b>						
	Depth To Water Level (ft)	25.35	29.13	31.79		8.4
	pH (Fid)	6.44	6.52	6.38		7.7 M
	SC (umhos/cm at 25 C) (Fid)	1559	1488	1506		299
	SC (umhos/cm at 25 C)	1470	1490	1490	305	305
	Total Suspended Solids	<10	<10	<10		
	TDS (Measured at 180 C)	1050	1060	1110	195	219
	Water Temperature (C) (Fid)	11.42	11.8	11.3		10.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-54	EH-54	EH-54	EH-54	EH-54	EH-54
Water	SAMPLE DATE	11/24/1986	11/24/1986	2/5/1987	2/5/1987	4/21/1987	4/21/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	RMAL	TSC-SLC	CHMTC	TSC-SLC	CHMTC	TSC-SLC
	LAB NUMBER	8611-35	86-7840	8701-114	87-790	8704-18	87-2826
	SAMPLE NUMBER	AEH-8611-35	AEH-8611-35	AEH-8701-114	AEH-8701-114	AEH-8704-18	AEH-8704-18
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate	Field Duplicate	Split		Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)				112		94 M
Calcium (Ca) (DIS)	40.6		34.5	48 M	35.7	39 M
Carbonate As CO3				<1		<1
Chloride (Cl)			5	3.5	6	3 M
Magnesium (Mg) (DIS)	8.7		7.6	11 M	8.3	8 M
Potassium (K) (DIS)	3.5		1.8	2.7	1.7	2.4 M
Sodium (Na) (DIS)	13.9		9.3	12	12.1	10.5 M
Sulfate (SO4)			55.8	58	48	61 M

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.01	0.01	<0.009	0.02 M	<0.009	<0.006
Arsenic III (dis)		0.03		0.02 M		0.03 M
Arsenic V (dis)		0.05 M		<0.008		0.008
Cadmium (Cd) (DIS)	<0.005	<0.001	<0.005	0.001	<0.004	<0.001
Copper (Cu) (DIS)	<0.004	<0.008	<0.02	<0.008	0.02	<0.008
Iron (Fe +2) (TOT)		0.02		<0.01		0.01
Iron (Fe) (DIS)	<0.03	<0.02	0.1	<0.02	<0.1	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	0.01	<0.005	<0.003	
Manganese (Mn) (DIS)	0.1	0.1	0.05	0.06	<0.01	0.003
Zinc (Zn) (DIS)	0.003	<0.008 M	0.2	<0.008	<0.02	<0.008

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)		2.8	7	8.4		7 M
pH				7.4		7.4
Depth To Water Level (ft)		8.4	9.4	9.03		10
pH (Fid)		7.7	7.2	7.4		5.7
SC (umhos/cm at 25 C) (Fid)		306		308.5		290.1
SC (umhos/cm at 25 C)				325		305
TDS (Measured at 180 C)			202	239	125	241.2 M
Water Temperature (C) (Fid)		10.5		5.5		3.5 M

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-54	EH-54	EH-54	EH-54	EH-54	EH-54
Water	SAMPLE DATE	8/7/1987	8/7/1987	11/16/1987	11/16/1987	4/13/1988	4/13/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-6486	87-6494	8711-203	87-10545	88-2719	88-2729
	SAMPLE NUMBER	AEH-8708-19	AEH-8708-42	AEH-8711-203	AEH-8711-204	AEH-8804-346	AEH-8804-356
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate	Split			Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	101		82	116	84		
Calcium (Ca) (DIS)	26 M		34.3		30.5		
Carbonate As CO3	<1		<5		<1		
Chloride (Cl)	2 M		2.6		4.3 J		
Magnesium (Mg) (DIS)	5.9		7.8		7.5		
Potassium (K) (DIS)	3 M		3.2		2.9		
Sodium (Na) (DIS)	11.2		14.7		12.8		
Sulfate (SO4)	31 M		40	45 M	48		
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)	0.04	0.04	0.006	<0.006	0.02	0.02	
Arsenic III (dis)	0.01 M	<0.008		<0.008	<0.008	<0.008	<0.008
Arsenic V (dis)	0.07	0.07 M		0.02	0.03	0.03	
Cadmium (Cd) (DIS)	0.005 M	0.004	<0.0001	0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.008	<0.008	<0.003	<0.008			
Iron (Fe +2) (TOT)	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
Iron (Fe) (DIS)	<0.02 M	0.07 M	0.007	<0.02	0.02 J	<0.02	<0.02
Lead (Pb) (DIS)	0.007 M	<0.005	0.003	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.02	0.02	0.03	0.03			
Zinc (Zn) (DIS)	0.008	<0.008	0.006	0.008	<0.008	0.009	
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	1.2	1.2		2.1	6.2	6.2	
pH	7.7			8	7.3		
Depth To Water Level (ft)	7.2 M	7.2		11.4	9.6	9.6	
pH (Fld)	6.2	6.2		6.5	7	7	
SC (umhos/cm at 25 C) (Fld)	239.2	238.3		299.9	287.4	275	
SC (umhos/cm at 25 C)	235 M			290	275		
Total Suspended Solids				72.5			
TDS (Measured at 180 C)	147 M		210	193 M	186 J		
Water Temperature (C) (Fld)	13.6	13.6		10.3	5.3	5.3	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-54	EH-54	EH-54	EH-54	EH-54	EH-54
Water	SAMPLE DATE	12/12/1988	4/11/1989	10/12/1989	10/12/1989	4/27/1990	11/28/1990
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-27	89-479	89-808	89-796	90-1049	90-2230
	SAMPLE NUMBER	AEH-8812-165	AEH-8904-236	AEH-8910-427	AEH-8910-444	AEH-9005-444	AEH-9011-748
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	5.8	4.2		2.5	2.1	2.6 J
Sulfate (SO4)	51	60		41	42.1	38 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.006	<0.004	0.03	0.03	0.01	0.01
Arsenic III (dis)	0.05 J	<0.008	<0.008	<0.008	0.02	0.8
Arsenic V (dis)	0.01 J	0.02 J	0.03	0.04 J	0.02 U	0.006 U
Cadmium (Cd) (DIS)	<0.001	<0.002	<0.001	<0.001	<0.001	0.001 U
Copper (Cu) (DIS)	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Iron (Fe +2) (TOT)	<0.01	<0.01				
Lead (Pb) (DIS)	<0.005 UJ	<0.02	<0.005	<0.005 J	<0.005	<0.005
Zinc (Zn) (DIS)	<0.008	<0.008	<0.008	<0.008	0.006 U	

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		7	4.3	4.3	10.2	5
pH	7.3	7.5		7.5	7.8	8.03
Depth To Water Level (ft)	14.01	12.9	8.9	8.9	8.8	15
pH (Fld)	6.9	5.7	6.7	6.7	6.5	7.3
SC (umhos/cm at 25 C) (Fld)	287.6	308	283.3	283.3	247.4	293.5
SC (umhos/cm at 25 C)	302	285		270	242	280
TDS (Measured at 180 C)	198	212 J		184 J	148	188 J
Water Temperature (C) (Fld)	13.3	11.6	13.5	13.5	6.7	10.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-54	EH-54	EH-54	EH-54	EH-54	EH-54
Water	SAMPLE DATE	5/3/1991	11/13/1991	4/15/1992	11/14/1992	4/30/1993	11/4/1993
	SAMPLE TIME	00:00	15:30	14:00	14:00	18:00	17:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	91-2661	91-3621	92-4280	92-6782	93-7741	93-9157
	SAMPLE NUMBER	AEH-9105-121	AEH-9111-328	AEH-9204-161	EHC-9211-160	EHC-9305-129	EHC-9311-139
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Calcium (Ca) (Dis)					36	32 J	
Chloride (Cl)	<2	2.6	2.3 J	3.2	2.8		2.5 J
Magnesium (Mg) (Dis)				7.5	6.4 J		
Potassium (K) (Dis)				<5	<5		
Sodium (Na) (Dis)				14	14 J		
Sulfate (SO4)	43	47	48	42 J	47		42 J
Total Hardness As CaCO3					106		
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)	0.02	0.04	0.007	0.02 J	0.02		0.03
Arsenic III (dis)	0.005 UJ	0.03 U	<0.004	<0.004	<0.004		<0.004
Arsenic V (dis)	0.02 UJ	0.06 U	0.01	0.03 UJ	0.03 UJ		0.02 J
Cadmium (Cd) (DIS)	<0.001	<0.001	0.001	0.001	0.001 UJ		0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.004	<0.004		<0.004
Lead (Pb) (DIS)	<0.005 UJ	<0.005 J	<0.005	<0.005 UJ	<0.005		<0.005
Zinc (Zn) (DIS)	<0.008	0.008	0.007	<0.006	<0.006		0.006
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	10.2	4.4	7.4	3.2	6.3		3.1
pH	7.8	7.2	7.3	8.1			
Depth To Water Level (ft)	12.2	8.1	9.5	10.1	7.8		7.5
pH (Fld)	7.9	8.2	7.5	7	7.6		7.6
SC (umhos/cm at 25 C) (Fld)	273.8	273	256	287	269		241
SC (umhos/cm at 25 C)	275	268	262	285	235 J		255 J
TDS (Measured at 180 C)	191	188 J	167 J	230	188		168
Water Temperature (C) (Fld)	5.3	13.7	6.8	13	3.8		7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-54	EH-54	EH-54	EH-54	EH-54	EH-54
Water	SAMPLE DATE	5/4/1994	11/9/1994	5/5/1995	11/7/1995	5/7/1996	11/6/1996
	SAMPLE TIME	17:00	17:30	14:30	10:40	14:00	14:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1101	94-3264	95-4459	95-6096	96-6713	96-7739
	SAMPLE NUMBER	EHC-9405-143	EHC-9411-144	EHC-9505-144	EHC-9511-146	EHC-9605-130	EHC-9611-130
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	2.1	3.3 U	3.2	2.7	6.2	4.1
	Sulfate (SO4)	49	47	70	47	70	57 J
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.02	0.03	0.007	0.03	0.02 J	0.03
	Arsenic III (dis)	<0.004	0.005 U	<0.004	<0.004	<0.005 UJ	<0.004
	Arsenic V (dis)	0.02	0.05	<0.004	0.02	0.02 J	0.03
	Cadmium (Cd) (DIS)	0.001	<0.001	0.001	<0.001	<0.005	<0.001
	Copper (Cu) (DIS)	<0.004	<0.004	0.006	<0.004	<0.004	<0.004
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	0.007	0.008	0.007	<0.006	<0.02	0.008
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	6	5.1	6.4	4.5	5.3	3.8
	pH			7.1	7.5	6.9	7.6
	Depth To Water Level (ft)	6.5	9.3	11.3	7.7	7.9	8
	pH (Fld)	7.5	7.6	7.4	6.9	7.3	7.2
	SC (umhos/cm at 25 C) (Fld)	258	352	308	272	287	341
	SC (umhos/cm at 25 C)	245	359	305	280	270	331
	TDS (Measured at 180 C)	160	216	192	198	194	224
	Water Temperature (C) (Fld)	6.1	12	7.5	10.8	6	11.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-54	EH-54	EH-54	EH-54	EH-54	EH-54
Water	SAMPLE DATE	5/5/1997	11/4/1997	5/4/1998	11/17/1998	5/7/1999	11/9/1999
	SAMPLE TIME	12:00	10:20	15:20	12:20	14:20	08:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	97-914	187-2678	261-3766	310-4407	346-4874	L992008011
	SAMPLE NUMBER	EHC-9705-128	EHC-9711-130	EHC-9805-131	EHC-9811-130	EHC-9905-130	EHC-9911-146
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)			102	137	100 J	127
	Calcium (Ca) (DIS)			34	38	34	38
	Carbonate As CO3					<1 UJ	<1
	Chloride (Cl)	3	3	4	4.7 J	4.1	5.1
	Magnesium (Mg) (DIS)			7	7.6	8.3	7.7
	Potassium (K) (DIS)			<5	<5	<5	<5
	Sodium (Na) (DIS)			11	12	14	13
	Sulfate (SO4)	52	56	241	47	62	39
	Total Alkalinity As CACO3			84	112	82 J	104
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.02	0.03	0.009	0.03	<0.005	0.01
	Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Arsenic V (dis)	0.02	0.03	0.01	0.02	0.009	0.02
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
	Iron (Fe) (DIS)			<0.05	0.03	0.07 UJ	<0.02
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)			<0.02	<0.02	<0.02	<0.02
	Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02 J
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fid)	7.3	3.3	6.8	4.3	7.6	3.3
	pH	7.2	7.5	7.4	7.1	7.6	7.8
	Depth To Water Level (ft)	8.8	7.9	10.4	9.5	12.02	10.9
	Eh (millivolts)				415	387	418
	pH (Fid)	8.3	6.9	7.08	7.2	7.4	7.2
	SC (umhos/cm at 25 C) (Fid)	315	346	259	319	302	312
	SC (umhos/cm at 25 C)	330	301	291	318	301	315
	Total Suspended Solids		<1		3.2		4.2 U
	TDS (Measured at 180 C)	222	202	191	229	201	248
	Water Temperature (C) (Fid)	5.9	12.7	9	11.6	8.6	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-54	EH-54	EH-54	EH-54	EH-54	EH-54
Water	SAMPLE DATE	5/8/2000	11/9/2000	5/4/2001	11/13/2001	6/1/2002	11/17/2002
	SAMPLE TIME	08:45	12:45	15:00	10:40	14:15	10:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000705029	L001897027	L010655004	L011564017	L020412035	L020957009
	SAMPLE NUMBER	EHC-0005-145	EHC-0011-146	EHC-0105-172	EHC-0111-170	EHC-0205-188	EHC-0211-184
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	106	132	110	140	100	120
Calcium (Ca) (DIS)	38	40	37	35	29	38
Carbonate As CO3	<1	<1		<1	<1	<1
Chloride (Cl)	4	5.3	5.2	6.7	2.8	5.8 J
Magnesium (Mg) (DIS)	8.1	9	8	7.2	5.9	7.4
Potassium (K) (DIS)	<5	<5	<5	<5	<5	<5
Sodium (Na) (DIS)	12	15	12	17	13	16
Sulfate (SO4)	61	70 J	65 J	43	50	59
Total Alkalinity As CaCO3	87	108	90	115	82	98

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		0.2	<0.05	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	<0.005 J	<0.005	<0.005	0.02	0.01	0.02
Arsenic III (dis)	0.01 UJ	<0.02	<0.005	0.007	0.007	0.009
Arsenic V (dis)	0.01 U	0.02	<0.005	0.005	0.009	0.01
Cadmium (Cd) (DIS)	<0.001 J	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.009	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	0.7 U	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	0.06	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02 J	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				14.8	-27.6	
Oxygen (O) (DIS) (Fld)	9.4	5.06	6.8	1.9	11.3	2.7
pH	7.1	8.2	7.6	7.1	6.3	6.8
Silicon+Silica (Si+SiO2)		24	17	24	17	20
Depth To Water Level (ft)	13.6	14.8	12.4	9.8	12.3	8.5
Eh (millivolts)	435	263	444	250		
pH (Fld)	6.8	7.7	7	7.7	7.3	6.1
SC (umhos/cm at 25 C) (Fld)	296	399	284	340	293	264
SC (umhos/cm at 25 C)	310	365	323	316	254	326
Total Suspended Solids			36	42	23	34 J
TDS (Measured at 180 C)	205	258	219	228	166	227
Salinity (G/KG) (Fld)						0.1
Turbidity (NTU) (Fld)						8
Water Temperature (C) (Fld)	7.4	11.2	7.7	11.9	5.1	11.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-54	EH-54	EH-54	EH-54	EH-54	EH-54
Water	SAMPLE DATE	11/17/2002	6/4/2003	10/29/2003	5/19/2004	5/19/2004	10/27/2004
	SAMPLE TIME	10:15	11:15	09:15	11:30	11:35	10:35
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI	ELI
	LAB NUMBER	L020957010	L030256007	L030604015	H04050121-004	H04050121-005	H04100192-007
	SAMPLE NUMBER	EHC-0211-247	AEH-0306-205	AEH-0310-417	AEH-0405-114	AEH-0405-115	AEH-0411-132
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	120	90	122	120 UJ	120 UJ	130
Calcium (Ca) (DIS)	38	24	40	34	34	35
Carbonate As CO3	<1	<2	<2			
Chloride (Cl)	4.4 J	1.8	4.4	4 UJ	3 UJ	4
Magnesium (Mg) (DIS)	7.4	<5	8.1	7	7	7
Potassium (K) (DIS)	<5	<5	<5	3 UJ	3 UJ	3
Sodium (Na) (DIS)	16	11	16	15 UJ	15 UJ	15
Sulfate (SO4)	60	26	63	54	49	41
Total Alkalinity As CaCO3	98	74	100	100 UJ	96 UJ	100

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05					
Arsenic (As) (DIS)	0.02	0.02	0.03	0.012	0.013	0.021
Arsenic III (dis)	0.01	0.006	<0.005	<0.001	<0.001	<0.001
Arsenic V (dis)	0.009	0.009	0.03	0.015	0.015	0.018
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.03	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.01	<0.01	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.05	<0.01	<0.01	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		6.8	3.66	0.47		2.82
pH	6.8	7.5	7.7	7.4	7.3	7.2
Silicon+Silica (Si+SiO2)	20					
Depth To Water Level (ft)		7.6	8.92	8.36		8.81
pH (Fld)		6.4	6.26	6.13		6.9
SC (umhos/cm at 25 C) (Fld)		180	283	370		299
SC (umhos/cm at 25 C)	326	221	346	246 UJ	237 UJ	275
Total Suspended Solids	25 J	19	14	23 J	70 J	<10
TDS (Measured at 180 C)	228	145	257	189 UJ	186 UJ	191
Salinity (G/KG) (Fld)		0.0	0.1	0.1		
Turbidity (NTU) (Fld)		5	9			
Water Temperature (C) (Fld)		6.4	14.4	6		13.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-54	EH-54	EH-54	EH-54	EH-54	EH-54
Water	SAMPLE DATE	5/10/2005	11/7/2005	5/1/2006	6/19/2006	6/19/2006	11/7/2006
	SAMPLE TIME	13:15	14:40	15:15	14:25	14:35	11:25
	LAB	ELI-Casper	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel	ELI
	LAB NUMBER	C05050399-008	H05110055-007	H06050010-010	H06060187-004	H06060187-005	H06110064-005
	SAMPLE NUMBER	AEH-0505-107	AEH-0511-106	AEH-0605-109	AEH-0606-103	AEH-0606-104	AEH-0611-106
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	104	110	110	130	130	120
Calcium (Ca) (DIS)	39	34	37	49	49	41
Chloride (Cl)	7	6	7	10	10	6
Magnesium (Mg) (DIS)	8	7	7	10	10	8
Potassium (K) (DIS)	<5	3	2	4	3	3
Sodium (Na) (DIS)	14	15	13	14	13	15
Sulfate (SO4)	52	57	53	52	49	63
Total Alkalinity As CaCO3	85	94	86	110	100	97

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.009	0.022	0.011	0.015	0.015	0.022
Arsenic III (dis)	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	0.01	0.024	0.01	0.02	0.02	0.03
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.007 UJ	0.007 UJ	0.005
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential						98.4
Oxygen (O) (DIS) (Fld)	9.31	3.97	6.83			4.27
pH	7.14	7.1	7.1	7.2	7.1	7.1
Depth To Water Level (ft)	23.87	8.45	8.47	6.46		8.07
pH (Fld)	7.04	6.5	6.44	6.39		6.74
SC (umhos/cm at 25 C) (Fld)	309	307	278	376		346
SC (umhos/cm at 25 C)	310	308	307	387	386	350
Total Suspended Solids	22	<10	<10	<10	<10	<10 J
TDS (Measured at 180 C)	202	208	196	242	245	234
TDS - Calculated	192					
Water Temperature (C) (Fld)	6.5	13.37	6.48	9.04		13.73

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-54	EH-54	EH-54	EH-54	EH-54	EH-54
Water	SAMPLE DATE	3/27/2007	5/23/2007	5/23/2007	7/26/2007	9/6/2007	11/13/2007
	SAMPLE TIME	11:00	10:00	10:00	14:30	00:00	09:25
	LAB	ELI	EPA-R8	ELI	ELI	Hydrometrics	ELI
	LAB NUMBER	H07030213-006	8705007-21	H07050275-002	H07070280-011	AEH-0709-EH54	H07110103-002
	SAMPLE NUMBER	AEH-0703-105	AEH-0705-216	AEH-0705-216	AEH-0707-134	AEH-0709-EH54	AEH-0711-108
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		AEH-0705-216-S	EPA Split		No Samp-Dry	EPA Split
	REMARKS		Split			No Sample	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	110		97		110		
Bicarbonate (HCO3) (dis)							130
Calcium (Ca) (DIS)	41		30		29		39
Chloride (Cl)	7		3		3		5
Magnesium (Mg) (DIS)	8		6		5		8
Potassium (K) (DIS)	2		2		3		3
Sodium (Na) (DIS)	13		14		13		14
Sulfate (SO4)	67		43		30		57
Total Alkalinity As CaCO3	87		79		89		110

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)			<0.005				<0.005
Selenium-VI (DIS)			<0.005				<0.005
Aluminum (Al) (DIS)		<0.1					
Antimony (Sb) (DIS)		0.0018					
Arsenic (As) (DIS)	0.012	0.0139	0.013 UJ		0.022 UJ		0.021
Arsenic III (DIS)	<0.001		<0.005 J				<0.001
Arsenic V (DIS)	0.0123		0.0116 UJ				0.0239
Barium (Ba) (DIS)		0.023					
Beryllium (Be) (DIS)		<0.001					
Cadmium (Cd) (DIS)	<0.001	<0.0002	<0.001		<0.001		<0.001
Chromium (Cr) (DIS)		<0.002					
Cobalt (Co) (DIS)		<0.002					
Copper (Cu) (DIS)	<0.004	<0.01	<0.004		<0.004		<0.001
Iron (Fe) (DIS)	<0.02	<0.1	<0.02		<0.02		<0.01
Lead (Pb) (DIS)	<0.005	<0.001	<0.005		<0.005		<0.003
Manganese (Mn) (DIS)	<0.01	<0.002	<0.01		<0.01		<0.01
Mercury (Hg) (DIS)		<0.0001					
Nickel (Ni) (DIS)		0.0011					
Selenium (Se) (DIS)	<0.005	<0.001	<0.005		<0.005		<0.003
Silver (Ag) (DIS)		<0.0005					
Thallium (Tl) (DIS)		<0.0003					
Tin (Sn) (DIS)		<0.2					
Vanadium (V) (DIS)		<0.01					
Zinc (Zn) (DIS)	<0.02	<0.04	<0.01		<0.01		<0.01

**Nutrients: ppm unless noted**

Total Organic Carbon			0.7				
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**Other: ppm unless noted**

No Analysis						0.0	
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**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	196						
Oxygen (O) (DIS) (Fld)	5.22		5.29		1.75		3.74

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-54	EH-54	EH-54	EH-54
Water	SAMPLE DATE	3/27/2007	5/23/2007	7/26/2007	11/13/2007
	SAMPLE TIME	11:00	10:00	14:30	09:25
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H07030213-006	H07050275-002	H07070280-011	H07110103-002
	SAMPLE NUMBER	AEH-0703-105	AEH-0705-216	AEH-0707-134	AEH-0711-108
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI
	DESCRIPTION		EPA Split		EPA Split
	REMARKS				

**Physical/Fid-Lab: ppm unless noted**

pH	7.3	7.4	7.3	6.9
Depth To Water Level (ft)	9.86	8.68	7.53	9.15
pH (Fid)	6.32	6.71	6.73	6.86
SC (umhos/cm at 25 C) (Fid)	317	277	247	339
SC (umhos/cm at 25 C)	348	268	254	345
Total Suspended Solids	<10	<10	<10	<10 J
TDS (Measured at 180 C)	222	177	156	225
Water Temperature (C) (Fid)	5.36	6.1	12.88	13.03

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-54	EH-54	EH-54	EH-54	EH-54	EH-54
Water	SAMPLE DATE	1/31/2008	5/5/2008	7/15/2008	11/3/2008	2/3/2009	5/12/2009
	SAMPLE TIME	13:15	09:25	14:25	15:01	15:35	13:55
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08010244-008	H08050066-002	H08070318-016	H08110021-006	H09020036-006	H09050193-009
	SAMPLE NUMBER	AEH-0801-130	AEH-0805-138	AEH-0807-128	AEH-0811-152	AEH-0902-125	AEH-0905-183
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	120	110	88	120	100	84
	Calcium (Ca) (DIS)	37	41	22	38	35	30
	Chloride (Cl)	6	6	2	4	8	6
	Magnesium (Mg) (DIS)	7	8	4	8	6	6
	Potassium (K) (DIS)	3	3	2	3	3	2
	Sodium (Na) (DIS)	15	13	11	15	13	11
	Sulfate (SO4)	56	54	22	48	55	41
	Total Alkalinity As CaCO3	94	89	72	100	82	69
<b>Metals (mg/L): ppm unless noted</b>							
	Selenium-IV (DIS)		<0.005		<0.005		
	Selenium-VI (DIS)		<0.005 J-		<0.005 UJ		
	Aluminum (Al) (DIS)		<0.1		<0.1		<0.1
	Antimony (Sb) (DIS)		<0.005		<0.005		<0.003
	Arsenic (As) (DIS)	0.008	0.006	0.018	0.019	0.01	0.011
	Arsenic III (DIS)		<0.005		<0.005		
	Arsenic V (DIS)		0.0054		0.0199		
	Barium (Ba) (DIS)		<0.1		<0.1		<0.1
	Beryllium (Be) (DIS)		<0.001		<0.001		<0.001
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Chromium (Cr) (DIS)		<0.001		<0.001		<0.001
	Cobalt (Co) (DIS)		<0.01		<0.01		<0.0005
	Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.002 UJ
	Gold (Au) (DIS)						<0.01
	Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	0.006	<0.005
	Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Mercury (Hg) (DIS)		<0.006		<0.006		<0.0001
	Nickel (Ni) (DIS)		<0.01		<0.01		<0.01
	Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	0.001 UJ
	Silver (Ag) (DIS)		<0.005 J		<0.005		<0.005 R
	Tellurium (Te) (DIS)						<0.1
	Thallium (Tl) (DIS)		<0.002		<0.002		<0.001
	Vanadium (V) (DIS)		<0.01		<0.01		<0.01
	Zinc (Zn) (DIS)	<0.01	0.01	<0.01	<0.02	<0.02	<0.01
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	3.29	6.5	1.83	3.36	5.33	9.9
	pH	7.3	7	6.9	7.5	7	7.4
	Depth To Water Level (ft)	12.83	12.41	7.51	8.82	11.15	10.04
	pH (Fld)	7	7.12	6.61	6.5	6.68	6.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-54	EH-54	EH-54	EH-54	EH-54	EH-54
Water	SAMPLE DATE	1/31/2008	5/5/2008	7/15/2008	11/3/2008	2/3/2009	5/12/2009
	SAMPLE TIME	13:15	09:25	14:25	15:01	15:35	13:55
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H08010244-008	H08050066-002	H08070318-016	H08110021-006	H09020036-006	H09050193-009
	SAMPLE NUMBER	AEH-0801-130	AEH-0805-138	AEH-0807-128	AEH-0811-152	AEH-0902-125	AEH-0905-183
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	334	315	212	315	303	266
SC (umhos/cm at 25 C)	334	311	202	305	309	274
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	219	185	155	190	204	184
Water Temperature (C) (Fid)	9.8	6.5	11.1	12.32	9	5.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-57A	EH-57A	EH-57A	EH-57A	EH-57A	EH-57A
Water	SAMPLE DATE	12/3/1987	12/3/1987	12/3/1987	12/3/1987	4/13/1988	12/12/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	WYRHR	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC
	LAB NUMBER	87-11012	8711-260	87-11017	8712-261	88-2720	89-25
	SAMPLE NUMBER	AEH-8711-260	AEH-8711-260	AEH-8712-261	AEH-8712-261	AEH-8804-347	AEH-8812-166
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Split	Field Duplicate	Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	154	130			137	
Calcium (Ca) (DIS)	39	38.5		39.1	69	
Carbonate As CO3	<1	<5			<1	
Chloride (Cl)	6	6			19	5.4
Magnesium (Mg) (DIS)	13.8	13.6		13.7	24	
Potassium (K) (DIS)	2.9	2.3		2.3	4	
Sodium (Na) (DIS)	21.3	22		22.1	23.5	
Sulfate (SO4)	65	58			170	54

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.008 J	0.006	0.01 J	<0.002	<0.006	0.006
Arsenic III (dis)	<0.008 J		0.008 J		<0.008	0.04 J
Arsenic V (dis)	0.03		0.03		0.01	0.008 J
Cadmium (Cd) (DIS)	0.003 J	0.001	0.004	0.003	<0.001	<0.001
Copper (Cu) (DIS)	<0.008	0.005	<0.008	0.009		0.009
Iron (Fe +2) (TOT)	<0.01		<0.01		<0.01	<0.01
Iron (Fe) (DIS)	0.03	<0.004	0.02	0.004	<0.02	
Lead (Pb) (DIS)	0.01 J	<0.002	<0.01 J	<0.002	<0.005	<0.005 UJ
Manganese (Mn) (DIS)	0.005 J	0.008	0.03	0.02		
Zinc (Zn) (DIS)	<0.008 J	0.009	0.02 J	0.009	0.01	<0.008

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	6.2		6.2		6.2	9.7
pH	8.02				7.5	7.6
Depth To Water Level (ft)	33.7		33.7		39.5	39.6
pH (Fld)	7.3		7.3		7.4	
SC (umhos/cm at 25 C) (Fld)	383.6		378.9			362.1
SC (umhos/cm at 25 C)	351				600	370
Total Suspended Solids	12					
TDS (Measured at 180 C)	257.2 J	240			428 J	236
Water Temperature (C) (Fld)	10.8		10.8		10.5	11.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-57A	EH-57A	EH-57A	EH-57A	EH-57A	EH-57A
Water	SAMPLE DATE	4/12/1989	4/12/1989	10/11/1989	4/28/1990	4/28/1990	11/28/1990
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-482	89-492	89-804	90-1040	90-1050	90-2226
	SAMPLE NUMBER	AEH-8904-237	AEH-8904-247	AEH-8910-445	AEH-9005-427	AEH-9005-445	AEH-9011-749
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	28		11.2		14.9	17 J
Sulfate (SO4)	158 J		61		135	75 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.004	0.006 J	<0.008	<0.008	<0.008	0.007
Arsenic III (dis)	<0.008	<0.008	<0.008	0.01	<0.008	0.01 U
Arsenic V (dis)	0.02 J	0.02 J	0.009 J	<0.008	0.01 U	<0.004
Cadmium (Cd) (DIS)	<0.002	<0.002	0.001	<0.001	0.001	0.001 U
Copper (Cu) (DIS)	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Iron (Fe +2) (TOT)	<0.01	<0.01				
Lead (Pb) (DIS)	<0.02	<0.02	<0.005 J	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	<0.008	0.01	<0.008	<0.006	<0.006	

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.2		9.2	6.1	6.1	6.6
pH	7.1		7.7		7.9	8.06
Depth To Water Level (ft)	40.4		27.5	38.7	38.7	34.03
pH (Fld)	6.3		7.06	7.07	7.07	7.3
SC (umhos/cm at 25 C) (Fld)	760.7		465.1	564.1	561.9	460
SC (umhos/cm at 25 C)	700		452		580	438
TDS (Measured at 180 C)	468 J		298 J		366	298 J
Water Temperature (C) (Fld)	10.2		10.7	8.9	8.9	9.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-57A	EH-57A	EH-57A	EH-57A	EH-57A	EH-57A
Water	SAMPLE DATE	5/3/1991	11/13/1991	4/15/1992	11/11/1992	4/30/1993	11/3/1993
	SAMPLE TIME	00:00	11:00	11:30	13:30	17:30	12:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	91-2662	91-3617	92-4283	92-6769	93-7740	93-9151
	SAMPLE NUMBER	AEH-9105-124	AEH-9111-317	AEH-9204-175	EHC-9211-101	EHC-9305-128	EHC-9311-140
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)				40 J	47 J	
Chloride (Cl)	11	12	5.5 J	5.7 J	6.9	112 J
Magnesium (Mg) (Dis)				14	16 J	
Potassium (K) (Dis)				<5	<5	
Sodium (Na) (Dis)				21	20 J	
Sulfate (SO4)	63	134	74	58 J	66	434 J
Total Hardness As CaCO3					183	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.006	0.004	0.004	<0.004	0.004	<0.004
Arsenic III (dis)	0.01 UJ	0.02 U	0.008	0.02 UJ	<0.004	<0.004
Arsenic V (dis)	0.005 UJ	0.03 U	<0.004	0.005 UJ	0.02 UJ	0.005 J
Cadmium (Cd) (DIS)	<0.001	0.001	<0.001	0.001	0.001 UJ	0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.005	<0.004	0.005
Lead (Pb) (DIS)	<0.005	<0.005 J	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	<0.008	0.01	0.007	<0.006	<0.006	0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	6.4	7.2	6.9	7.6	7.2	7.9
pH	7.9	7.3	7.5	8.2		
Depth To Water Level (ft)	40.5	19.4	34.5	30.5	38.6	23.2
pH (Fld)	7.6	7.3	7.3	7.3	6.9	7.3
SC (umhos/cm at 25 C) (Fld)	528.4	560	416	359	417	1246
SC (umhos/cm at 25 C)	520	560	420	340	350 J	1315 J
TDS (Measured at 180 C)	366	414 J	276 J	240	280	964
Water Temperature (C) (Fld)	10.8	14.9	13.3	10.4	11	10.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-57A	EH-57A	EH-57A	EH-57A	EH-57A	EH-57A
Water	SAMPLE DATE	5/4/1994	11/9/1994	5/5/1995	11/7/1995	5/7/1996	11/7/1996
	SAMPLE TIME	09:30	15:30	16:15	13:00	11:50	08:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1102	94-3265	95-4460	95-6097	96-6714	96-7762
	SAMPLE NUMBER	EHC-9405-144	EHC-9411-145	EHC-9505-145	EHC-9511-147	EHC-9605-131	EHC-9611-131
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	26	15	67	20	27	14
	Sulfate (SO4)	126	105	280	120	153	105
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.004	<0.004	<0.004	0.004	<0.005	<0.004
	Arsenic III (dis)	<0.004	0.004 U	<0.004	<0.004	<0.005 UJ	<0.004
	Arsenic V (dis)	0.009	0.01 U	<0.004	0.004	0.005 J	<0.004
	Cadmium (Cd) (DIS)	0.002	0.001	0.002	0.001	<0.005	<0.001
	Copper (Cu) (DIS)	<0.004	0.004	0.01	<0.004	<0.004	<0.004
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005 J	<0.005	<0.005
	Zinc (Zn) (DIS)	0.01	0.01	0.01	0.006	<0.02	<0.008
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	8.7	8.5	7.5	8.8	7.7	9.4
	pH			7.2	7.5	7.3	7.8
	Depth To Water Level (ft)	35.6	27.2	38.4	22.5	35.3	31
	pH (Fld)	7.3	7.7	7.7	7	6.8	7.2
	SC (umhos/cm at 25 C) (Fld)	622	624	926	656	611	547
	SC (umhos/cm at 25 C)	618	636	916	670	600	520
	TDS (Measured at 180 C)	405	412	631	414	427	332
	Water Temperature (C) (Fld)	10.8	10.6	11	9.7	11.9	8.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-57A	EH-57A	EH-57A	EH-57A	EH-57A	EH-57A
Water	SAMPLE DATE	5/5/1997	11/3/1997	5/5/1998	11/17/1998	5/7/1999	11/9/1999
	SAMPLE TIME	10:15	15:30	14:10	14:25	15:30	10:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	97-915	187-2668	261-3767	310-4408	346-4875	L992008012
	SAMPLE NUMBER	EHC-9705-129	EHC-9711-131	EHC-9805-132	EHC-9811-131	EHC-9905-131	EHC-9911-147
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)			207	259	159 J	146
	Calcium (Ca) (DIS)			112	76	43	34
	Carbonate As CO3					<1 UJ	<1
	Chloride (Cl)	71	18	48	23 J	13	10
	Magnesium (Mg) (DIS)			40	24	18	13
	Potassium (K) (DIS)			6 J	<5	<5	<5
	Sodium (Na) (DIS)			47	34	32	23
	Sulfate (SO4)	371	109	58	115	96	57
	Total Alkalinity As CaCO3			170	212	130 J	120
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.005	<0.005	<0.005	0.005	<0.005	<0.005
	Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Arsenic V (dis)	<0.005	<0.005	<0.005	<0.005	0.005	0.005
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)	0.004	<0.004	<0.004	<0.004	<0.004	<0.004
	Iron (Fe) (DIS)			<0.05	0.02	0.2 UJ	<0.02
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)			<0.02	<0.02	<0.02	<0.02
	Zinc (Zn) (DIS)	<0.02	<0.02	0.02	<0.02	<0.02	<0.02 J
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	8.02	8.8	8.7	9.5	7.6	8.6
	pH	7.3	7.4	7.5	7.5	7.8	8.1
	Depth To Water Level (ft)	36.6	27.4	37.8	23.6	38.08	33.2
	Eh (millivolts)				406	379	446
	pH (Fld)	8.08	7.2	7.2	7.6	7.6	8
	SC (umhos/cm at 25 C) (Fld)	1219	577	944	712	474	388
	SC (umhos/cm at 25 C)	1292	592	1002	676	472	380
	Total Suspended Solids		1		<1		<1
	TDS (Measured at 180 C)	994	395	731	447	301	321
	Water Temperature (C) (Fld)	10.9	10	12.7	9.1	11	10.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-57A	EH-57A	EH-57A	EH-57A	EH-57A	EH-57A
Water	SAMPLE DATE	5/2/2000	11/6/2000	5/9/2001	11/13/2001	5/17/2002	11/17/2002
	SAMPLE TIME	10:10	15:20	11:50	10:10	11:00	08:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000704002	L001873008	L010691009	L011564018	L020370001	L020957004
	SAMPLE NUMBER	EHC-0005-146	EHC-0011-147	EHC-0105-173	EHC-0111-171	EHC-0205-189	EHC-0211-185
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	215	166	203	167	177	168
Calcium (Ca) (DIS)	92	38	74	41	54	39
Carbonate As CO3	<1	<1		<1	<1	<1
Chloride (Cl)	47	8.1 J	41	11	15	11
Magnesium (Mg) (DIS)	33	14	27	15	20	14
Potassium (K) (DIS)	<5	<5	<5	<5	<5	<5
Sodium (Na) (DIS)	37	26	36	25	28	24
Sulfate (SO4)	261	58 J	134	61	91	54
Total Alkalinity As CaCO3	176	136	166	137	145	138

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		<0.01 J	<0.05	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	0.01	<0.005	0.02 U	0.007	<0.005	<0.005
Arsenic III (dis)	0.009 UJ	<0.02	0.01 U	<0.005	<0.005	<0.005
Arsenic V (dis)	0.009 U	<0.02	0.006	0.01	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	0.003	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004 J	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.4 J	0.03 UJ	<0.05	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				47.4	-6.1	
Oxygen (O) (DIS) (Fld)	8.1	9.2	5.3	6.1	7.8	8.02
pH	7.5	7.7	8.2	7.9		7
Silicon+Silica (Si+SiO2)		27	28	29	91	26
Depth To Water Level (ft)	40.2	39	42.4	29.5	40	32.7
Eh (millivolts)	335	485	411	282		
pH (Fld)	6.9	7.9	7.7	8.2	7.07	5.9
SC (umhos/cm at 25 C) (Fld)	945	438	548	481	495	337
SC (umhos/cm at 25 C)	941	425	714	438	542	413
Total Suspended Solids			7.8	1	7.3	1.4 J
TDS (Measured at 180 C)	649	276	478	288	359	254
Salinity (G/KG) (Fld)						0.1
Turbidity (NTU) (Fld)						1
Water Temperature (C) (Fld)	10.9	10.9	12.7	12.4	11.6	10.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-57A	EH-57A	EH-57A	EH-57A	EH-57A	EH-57A
Water	SAMPLE DATE	6/3/2003	10/27/2003	10/27/2003	5/18/2004	10/26/2004	5/17/2005
	SAMPLE TIME	11:10	11:30	11:30	10:00	10:15	13:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ASARCO	ELI	ELI-Casper
	LAB NUMBER	L030247003	L030601006	L030601007	AEH-0405-108	H04100182-001	C05050640-022
	SAMPLE NUMBER	AEH-0306-186	AEH-0310-386	AEH-0310-387	AEH-0405-108	AEH-0411-109	AEH-0505-179
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION				o Samp-Low SWL		
	REMARKS			Field Duplicate	No Sample		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	196	151	156		150	195
Calcium (Ca) (DIS)	57	38	38		36	74
Carbonate As CO3	<2	<2	<2			
Chloride (Cl)	28	8.5	7.9		10	32
Magnesium (Mg) (DIS)	20	14	14		13	26
Potassium (K) (DIS)	<5	<5	<5		3	<5
Sodium (Na) (DIS)	28	23	23		25	30
Sulfate (SO4)	98	61	61		58	123
Total Alkalinity As CaCO3	161	124	128		120	160

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	<0.005	<0.005		<0.005	<0.002
Arsenic III (dis)	<0.005	<0.005	<0.005		<0.001	<0.005
Arsenic V (dis)	<0.005	<0.005	<0.005		0.0015	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001		<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004		<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02		<0.02	0.23
Lead (Pb) (DIS)	<0.005	<0.005	<0.005		<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02		<0.02	0.02
Zinc (Zn) (DIS)	<0.02	<0.05	<0.05		<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.9	7.6			9.12	7.36
pH	7.4	7.9	7.9		7.4	7.84
Depth To Water Level (ft)	37.9	31.35		38.02	30.85	39.85
pH (Fld)	6.8	6.59			6.78	7
SC (umhos/cm at 25 C) (Fld)	512	625			377	570
SC (umhos/cm at 25 C)	593	409	410		336	660
Total Suspended Solids	45	2.4	1.1		<10	<10 J
TDS (Measured at 180 C)	395	280	256		252	495
TDS - Calculated						416
Salinity (G/KG) (Fld)	0.2	0.1				
Turbidity (NTU) (Fld)	3	2				
Water Temperature (C) (Fld)	11.6	11.2			11	11.27

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-57A	EH-57A	EH-57A	EH-57A	EH-57A	EH-57A
Water	SAMPLE DATE	11/7/2005	5/1/2006	6/20/2006	11/7/2006	4/4/2007	4/4/2007
	SAMPLE TIME	11:00	11:10	14:00	08:36	10:05	10:15
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	H05110055-002	H06050010-001	H06060206-001	H06110064-001	H07040049-001	H07040049-002
	SAMPLE NUMBER	AEH-0511-101	AEH-0605-100	AEH-0606-119	AEH-0611-100	AEH-0703-149	AEH-0703-150
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION					No ORP-Pumping	
	REMARKS						Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	160	200	190	200	170	170
Calcium (Ca) (DIS)	43	61	55 J	63	56	57
Chloride (Cl)	19	31	25	24	22	21
Magnesium (Mg) (DIS)	15	22	17 J	21	19	19
Potassium (K) (DIS)	4	3	3 J	4	4	4
Sodium (Na) (DIS)	26	28	26	30	27	25
Sulfate (SO4)	71	103	92	103	100	94
Total Alkalinity As CaCO3	140	160	150	160	140	140

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005
Arsenic V (dis)	<0.005	<0.005	<0.005	0.002	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.011	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02 J	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.01 J	<0.01	<0.01	<0.01
Selenium (Se) (DIS)					0.011	0.01
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02 J	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential				116.1		
Oxygen (O) (DIS) (Fid)	8.11	5.84	4.02	8.09	7.11	
pH	7.3	7.1	7.3	7.2	7.4	7.4
Depth To Water Level (ft)	32.06	36.96	31.34	28.33	35.79	
pH (Fid)	7.03	6.66	6.82	6.87	6.75	
SC (umhos/cm at 25 C) (Fid)	466	1285 R	634	608	565	
SC (umhos/cm at 25 C)	471	586	524	588	551	553
Total Suspended Solids	<10	<10	<10	<10 J	<10	<10
TDS (Measured at 180 C)	306	402	365	391	365	375
Water Temperature (C) (Fid)	11.62	12.13	11.25	11.03	11.15	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-57A	EH-57A	EH-57A	EH-57A	EH-57A	EH-57A
Water	SAMPLE DATE	5/9/2007	7/27/2007	9/5/2007	11/12/2007	1/25/2008	1/25/2008
	SAMPLE TIME	11:20	08:00	09:40	13:00	10:00	10:15
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07050114-006	H07070291-001	H07090032-002	H07110094-001	H08010206-001	H08010206-002
	SAMPLE NUMBER	AEH-0705-115	AEH-0707-136	AEH-0709-108	AEH-0711-100	AEH-0801-100	AEH-0801-101
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	180	170	180		170	160
Bicarbonate (HCO3) (dis)				150		
Calcium (Ca) (DIS)	61	49	45	36	54	54
Chloride (Cl)	24	13	14	9	23	23
Magnesium (Mg) (DIS)	21	17	15	12	19	18
Potassium (K) (DIS)	4	4	3	3	3	3
Sodium (Na) (DIS)	26	27	25	22	25	25
Sulfate (SO4)	118	84	79	53	103	103
Total Alkalinity As CaCO3	150	140	150	120	140	130

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)				<0.005		
Selenium-VI (DIS)				<0.005		
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	0.003	<0.002	<0.002
Arsenic III (DIS)	<0.001			<0.001		
Arsenic V (DIS)	<0.001			0.0024		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.001	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.003	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.014	0.007	<0.005	<0.003	0.007	0.007
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential			80.7			
Oxygen (O) (DIS) (Fid)	6.96	8.82	9.33	6.62	6.37	6.37
pH	7.4	7.6	7.2	7.9	7.3	7.3
Depth To Water Level (ft)	36.96	29.12	28.78	31.75	36.71	
pH (Fid)	7.08	7.12	6.92	7.12	6.64	6.64
SC (umhos/cm at 25 C) (Fid)	612	495	472	399	548	548
SC (umhos/cm at 25 C)	591	492	467	381	552	548
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	392	318	292	247	336	332
Water Temperature (C) (Fid)	11.77	11.5	11.31	11.34	11	11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-57A	EH-57A	EH-57A	EH-57A	EH-57A	EH-57A
Water	SAMPLE DATE	4/29/2008	7/14/2008	10/28/2008	2/2/2009	2/2/2009	5/8/2009
	SAMPLE TIME	14:06	08:22	12:20	11:30	11:45	11:40
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08040441-005	H08070284-001	H08100377-005	H09020024-001	H09020024-002	H09050167-006
	SAMPLE NUMBER	AEH-0805-104	AEH-0807-100	AEH-0811-112	AEH-0902-100	AEH-0902-101	AEH-0905-157
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	180	200	180	180	180	190
Calcium (Ca) (DIS)	62	70	45	50	50	55
Chloride (Cl)	18	32	12	18	18	18
Magnesium (Mg) (DIS)	21	24	16	17	17	19
Potassium (K) (DIS)	4	4	3	4	4	4
Sodium (Na) (DIS)	22	29	24	25	26	24
Sulfate (SO4)	99	150	68	92	92	98
Total Alkalinity As CaCO3	140	160	150	150	150	160

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	0.0118 J+		<0.005			
Selenium-VI (DIS)	<0.005 J		<0.005			
Aluminum (Al) (DIS)	<0.1		<0.1			<0.1
Antimony (Sb) (DIS)	<0.005		<0.005			<0.003
Arsenic (As) (DIS)	<0.002	0.004	<0.002	0.006	0.005	<0.005
Arsenic III (DIS)	<0.005		<0.005			
Arsenic V (DIS)	<0.005		<0.005 J-			
Barium (Ba) (DIS)	<0.1		<0.1			<0.1
Beryllium (Be) (DIS)	<0.001		<0.001			<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001		<0.001			<0.001
Cobalt (Co) (DIS)	<0.01		<0.01			<0.0005
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.002
Gold (Au) (DIS)						<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005 J	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.006		<0.006			<0.0001
Nickel (Ni) (DIS)	<0.01		<0.01			<0.01
Selenium (Se) (DIS)	0.023	0.108	0.007	0.009	0.009	0.038
Silver (Ag) (DIS)	<0.005		<0.005			<0.005
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)	<0.002		<0.002			<0.001
Vanadium (V) (DIS)	<0.01		<0.01			<0.01
Zinc (Zn) (DIS)	<0.01 J	<0.01	<0.02	<0.02	<0.02	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.95	5.05	7.9	7.49		6.94
pH	7.4	7.2	7.6	7.4	7.3	7.7
Depth To Water Level (ft)	39.68	38.5	32.9	37.92		40.47
pH (Fld)	6.94	6.84	7.17	6.94		7.14

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-57A	EH-57A	EH-57A	EH-57A	EH-57A	EH-57A
Water	SAMPLE DATE	4/29/2008	7/14/2008	10/28/2008	2/2/2009	2/2/2009	5/8/2009
	SAMPLE TIME	14:06	08:22	12:20	11:30	11:45	11:40
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	ELI	Hydrometrics
	LAB NUMBER	H08040441-005	H08070284-001	H08100377-005	H09020024-001	H09020024-002	H09050167-006
	SAMPLE NUMBER	AEH-0805-104	AEH-0807-100	AEH-0811-112	AEH-0902-100	AEH-0902-101	AEH-0905-157
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
	<b>Physical/Fid-Lab: ppm unless noted</b>						
SC (umhos/cm at 25 C) (Fld)		541	719	436	517		556
SC (umhos/cm at 25 C)		534	669	430	540	553	561
Total Suspended Solids		<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)		334	458	281	334	347	359
Water Temperature (C) (Fld)		13.4	11.56	11.4	10.9		11.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-58	EH-58	EH-58	EH-58	EH-58	EH-58
Water	SAMPLE DATE	12/8/1986	12/8/1986	12/8/1986	2/4/1987	2/4/1987	4/23/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	RMAL	TSC-SLC	TSC-SLC	CHMTC	TSC-SLC	TSC-SLC
	LAB NUMBER	8612-11	86-8132	86-8134	8701-115	87-789	87-2833
	SAMPLE NUMBER	AEH-8612-11	AEH-8612-11	AEH-8612-13	AEH-8701-115	AEH-8701-115	AEH-8704-26
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split		Field Duplicate	Split		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	134	163			117	153
Calcium (Ca) (DIS)	74.7	69		45.7	60 M	78
Carbonate As CO3	<5	<1			<1	<1
Chloride (Cl)	6.9	6		7	4	4
Magnesium (Mg) (DIS)	17.9	16		10.7	15	17.5
Potassium (K) (DIS)	5.3	5.9		2.8	3.5	3.7
Sodium (Na) (DIS)	27.5	26		14.9	17	21
Sulfate (SO4)	177	125		94.9	95	180

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.01	<0.006	<0.006	<0.009	<0.006	<0.006
Arsenic III (dis)		0.02 M			0.02	0.01
Arsenic V (dis)		0.01 M			<0.008	0.01
Cadmium (Cd) (DIS)	<0.005	0.002	<0.002	<0.005	0.001	0.001
Copper (Cu) (DIS)	0.006	<0.01	<0.01	<0.02	<0.008	<0.008
Iron (Fe +2) (TOT)		0.02			0.06 M	<0.01
Iron (Fe) (DIS)	<0.03	0.03	0.03	0.07	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	0.004	<0.005	<0.005 M
Manganese (Mn) (DIS)	0.05	0.05	0.05	<0.008	0.005	0.006
Zinc (Zn) (DIS)	0.01	0.01 M	0.02 M	0.1	0.008	<0.008

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)		6.6			4.4	6.2
pH	7	7			7.2	7.04
Depth To Water Level (ft)		14.2			15.9	16.2
pH (Fid)		6.8			6.8	6.4
SC (umhos/cm at 25 C) (Fid)		561			395.2	574.3
SC (umhos/cm at 25 C)	530	530			410	590
TDS (Measured at 180 C)	260	381		246	316	395
Water Temperature (C) (Fid)		10.5			9.8	9.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-58	EH-58	EH-58	EH-58	EH-58	EH-58
Water	SAMPLE DATE	4/23/1987	8/10/1987	8/10/1987	11/17/1987	4/15/1988	4/15/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-2834	87-6634	87-6648	87-10546	88-2721	88-2730
	SAMPLE NUMBER	AEH-8704-27	AEH-8708-20	AEH-8708-44	AEH-8711-205	AEH-8804-348	AEH-8804-357
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate			Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		226 M		126		82
Calcium (Ca) (DIS)		65				33.5
Carbonate As CO3		<1				<1
Chloride (Cl)		4				3.9
Magnesium (Mg) (DIS)		19.1				7.5
Potassium (K) (DIS)		4.2				3.2
Sodium (Na) (DIS)		22.5				14.1
Sulfate (SO4)		107		82 M		60

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.006	<0.006	0.008	<0.006	<0.006	<0.006
Arsenic III (dis)	0.01	0.01	0.01 M	<0.008	<0.008	<0.008
Arsenic V (dis)	0.01	0.04	0.05	0.01	0.01	0.01
Cadmium (Cd) (DIS)	<0.001	0.001	0.001	0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.008	<0.008	0.008	<0.008		
Iron (Fe +2) (TOT)	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001
Iron (Fe) (DIS)	<0.02	0.03	0.04	0.03	<0.02	<0.02
Lead (Pb) (DIS)	<0.005 M	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.006	0.004	0.003	0.003		
Zinc (Zn) (DIS)	<0.008	0.008	0.009	0.008	<0.008	<0.008

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	6.2	3.6	3.6	3.1	3.5	3.5
pH		7.2		7.8 M	7	
Depth To Water Level (ft)	16.2	13.8	13.8	15.7	15.7	15.7
pH (Fld)	6.5	6.7	6.7	6.1 M	6.5	6.5
SC (umhos/cm at 25 C) (Fld)	578.1	582.7	602.1	403.5 M	315.4	326.2
SC (umhos/cm at 25 C)		580		388	290	
Total Suspended Solids				9.5		
TDS (Measured at 180 C)		367		260 M	158 J	
Water Temperature (C) (Fld)	9.1	11.8	11.8	10.5	10.4	10.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-58	EH-58	EH-58	EH-58	EH-58	EH-58
Water	SAMPLE DATE	12/9/1988	4/11/1989	10/12/1989	4/28/1990	11/30/1990	11/30/1990
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-24	89-480	89-797	90-1051	90-2246	90-2255
	SAMPLE NUMBER	AEH-8812-167	AEH-8904-238	AEH-8910-446	AEH-9005-446	AEH-9011-732	AEH-9011-750
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	3.8	4.2	6.2	3.1	2 J	3.3 J
	Sulfate (SO4)	62	59	90	65	57 J	57 J
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.006	<0.004	<0.008	<0.008	0.007	0.01 J
	Arsenic III (dis)	0.02	<0.008	<0.008	0.008	0.01 U	0.04 UJ
	Arsenic V (dis)	0.02	0.02 J	0.008	0.01 U	<0.004	0.004 U
	Cadmium (Cd) (DIS)	<0.001	<0.002	<0.001	0.001	<0.001	<0.001
	Copper (Cu) (DIS)	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	Iron (Fe +2) (TOT)	<0.01	<0.01				
	Lead (Pb) (DIS)	<0.005 UJ	<0.02	<0.005 J	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	<0.008	<0.008	<0.008	<0.006		
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	10.2	4.8	6.2	2.6	5.2	5.2
	pH	7.7	7.1	7.2	7.6	8	8.1
	Depth To Water Level (ft)	16.7	16.2	14.7	17.1	18.2	18.2
	pH (Fld)	7.6	6.1	6.2	6.9	6.4	6.4
	SC (umhos/cm at 25 C) (Fld)	307.1	311	450.2	318.5	317.3	323.1
	SC (umhos/cm at 25 C)	325	275	428	318	294	288
	TDS (Measured at 180 C)	210	191 J	292 J	198	210 J	205 J
	Water Temperature (C) (Fld)	10.6	12	11.5	9.2	9.7	9.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-58	EH-58	EH-58	EH-58	EH-58	EH-58
Water	SAMPLE DATE	5/3/1991	11/15/1991	4/14/1992	4/15/1992	11/14/1992	5/3/1993
	SAMPLE TIME	00:00	09:00	12:15	15:15	12:40	18:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	91-2663	91-3857	92-4294	92-4279	92-6781	93-7769
	SAMPLE NUMBER	AEH-9105-125	AEH-9111-333	AEH-9204-137	AEH-9204-160	EHC-9211-113	EHC-9305-136
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)					41	50
Chloride (Cl)	<2	3.5 UJ	3.9 J	2.4 J	4.1	4.3
Magnesium (Mg) (Dis)					9	12
Potassium (K) (Dis)					<5	<5
Sodium (Na) (Dis)					18	19
Sulfate (SO4)	45	65	60 J	61	68 J	75
Total Hardness As CaCO3						173

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.01	<0.004	<0.004	<0.004	<0.004 JU	0.01
Arsenic III (dis)	0.008 UJ	0.03 U	0.005	<0.004	<0.004	<0.004 UJ
Arsenic V (dis)	0.02 UJ	0.03 U	<0.004	0.006	0.008 UJ	0.01 UJ
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	0.001	0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	<0.005 UJ	<0.005	<0.005	<0.005	<0.005 UJ	<0.005
Zinc (Zn) (DIS)	<0.008	<0.008	0.006	<0.006	<0.006	0.008

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.6	6	3.2	3.2	3.8	5.1
pH	7.8	7	7.3	7.2	8	
Depth To Water Level (ft)	18.6	15.4	15.8	15.8	14.8	15.3
pH (Fld)	7.2	8	7.1	7.1	6.9	7.2
SC (umhos/cm at 25 C) (Fld)	279.7	318	300	316	339	395
SC (umhos/cm at 25 C)	280	290	302	310	335	390
TDS (Measured at 180 C)	203	234 J	198 J	201 J	270	259
Water Temperature (C) (Fld)	10.1	12	11	11	11.6	11.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-58	EH-58	EH-58	EH-58	EH-58	EH-58
Water	SAMPLE DATE	11/4/1993	5/10/1994	11/10/1994	5/5/1995	11/7/1995	5/7/1996
	SAMPLE TIME	15:40	14:20	10:00	13:40	13:45	17:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-9154	94-1339	94-3273	95-4461	95-6098	96-6715
	SAMPLE NUMBER	EHC-9311-141	EHC-9405-145	EHC-9411-146	EHC-9505-146	EHC-9511-148	EHC-9605-132
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	6.6 J	3.8	4.1	4.1	4.1	6.5
	Sulfate (SO4)	201 J	83 J	59 J	53	95	95
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.005
	Arsenic III (dis)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.005 UJ
	Arsenic V (dis)	0.004 J	<0.004 J	0.01 U	<0.004	<0.004	<0.005 UJ
	Cadmium (Cd) (DIS)	<0.001	0.001	<0.001	0.001	<0.001	<0.005
	Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.005	<0.004	<0.004
	Lead (Pb) (DIS)	<0.005	<0.005 UJ	<0.005 UJ	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	0.007	0.008	<0.006	0.01	0.007	<0.02
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	4.2	5.8	5.7	4.6	4.5	5
	pH				6.9	7.3	6.8
	Depth To Water Level (ft)	14.3	14.8	15.2	16.5	14.6	15
	pH (Fld)	7.4	6.8	7.3	7.4	6.9	6.9
	SC (umhos/cm at 25 C) (Fld)	587	412 J	331	307	394	304
	SC (umhos/cm at 25 C)	598 J	392 J	333 J	300	405	305
	TDS (Measured at 180 C)	425	252	207 J	204	228	219
	Water Temperature (C) (Fld)	8.3	10.4	10.4	9.7	10	9.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-58	EH-58	EH-58	EH-58	EH-58	EH-58
Water	SAMPLE DATE	11/6/1996	5/2/1997	11/3/1997	5/4/1998	11/17/1998	11/17/1998
	SAMPLE TIME	13:45	12:55	13:10	14:10	10:20	10:35
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-7740	97-916	187-2669	261-3768	310-4409	310-4414
	SAMPLE NUMBER	EHC-9611-132	EHC-9705-130	EHC-9711-132	EHC-9805-133	EHC-9811-132	EHC-9811-146
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
	<b>Common Ions (mg/L): ppm unless noted</b>						
	Bicarbonate (HCO3)				99	118	117
	Calcium (Ca) (DIS)				37	42	43
	Chloride (Cl)	7.8	4	7	5	8.5 J	4.2 J
	Magnesium (Mg) (DIS)				9	9.7	9.7
	Potassium (K) (DIS)				<5	<5	<5
	Sodium (Na) (DIS)				15	17	16
	Sulfate (SO4)	147 J	68	93	71	81	77
	Total Alkalinity As CaCO3				81	97	96
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.004	<0.005	<0.005	<0.005	0.005	<0.005
	Arsenic III (dis)	<0.004	<0.005	<0.005	<0.005	<0.005	<0.005
	Arsenic V (dis)	<0.004	<0.005	<0.005	<0.005	<0.005	<0.005
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
	Iron (Fe) (DIS)				<0.05	<0.02	<0.02
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)				<0.02	<0.02	<0.02
	Zinc (Zn) (DIS)	<0.008	0.02	<0.02	<0.02	<0.02	<0.02
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	4.2	4.5	4.1	3.6	4.3	4.3
	pH	7.9	6.9	7.1	7.1	7	6.9
	Depth To Water Level (ft)	14.4	16.8	14.7	16.5	15.2	
	Eh (millivolts)					423	423
	pH (Fld)	6.9	8.09	7.1	6.6	7.6	7.6
	SC (umhos/cm at 25 C) (Fld)	513	328	412	313	391	391
	SC (umhos/cm at 25 C)	470	350	414	337	382	382
	Total Suspended Solids			<1		<1	<1
	TDS (Measured at 180 C)	327	241	276	231	259	253
	Water Temperature (C) (Fld)	10.1	9	9.5	10.7	10.2	10.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-58	EH-58	EH-58	EH-58	EH-58	EH-58
Water	SAMPLE DATE	5/7/1999	11/8/1999	5/8/2000	11/9/2000	5/7/2001	11/13/2001
	SAMPLE TIME	13:10	17:00	09:45	14:00	11:15	15:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	346-4876	L992008013	L000705030	L001897028	L010655006	L011565001
	SAMPLE NUMBER	EHC-9905-132	EHC-9911-148	EHC-0005-147	EHC-0011-148	EHC-0105-174	EHC-0111-172
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	102 J	110	105	98	110	105
Calcium (Ca) (DIS)	35	46	40	35	38	42
Carbonate As CO3	<1 UJ	<1	<1	<1		<1
Chloride (Cl)	3.7	11 J	6.2	4.9	6.6	8
Magnesium (Mg) (DIS)	9	11	9.3	8	8.6	9.8
Potassium (K) (DIS)	<5	<5	<5	<5	<5	<5
Sodium (Na) (DIS)	18	18	15	15	15	16
Sulfate (SO4)	67	93	87	79 J	70	86
Total Alkalinity As CaCO3	84 J	90	86	80	90	86

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)				<0.01	<0.05	<0.05
Arsenic (As) (DIS)	<0.005	<0.005	<0.005 J	<0.005	<0.005 J	<0.005
Arsenic III (dis)	<0.005	<0.005	0.009 UJ	<0.02	<0.005	<0.005
Arsenic V (dis)	<0.005	<0.005	0.01 U	<0.02	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001 J	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.3 UJ	<0.02	0.06 U	0.2 UJ	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	0.03	<0.02 J	<0.02 J	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential						44.8
Oxygen (O) (DIS) (Fld)	3.3	4.7	7	2.6	2.4	3.3
pH	7.4	7.3	7.2	7.7	7.4	7
Silicon+Silica (Si+SiO2)				20	19	21
Depth To Water Level (ft)	17.2	14.6	17.7	17.6	18.2	16.8
Eh (millivolts)	382	463	416	441	413	280
pH (Fld)	7.6	7.3	6.9	7.3	7.7	7.5
SC (umhos/cm at 25 C) (Fld)	328	394	354	295	372	395
SC (umhos/cm at 25 C)	321	407	346	338	350	379
Total Suspended Solids		2.3 J			<1	<1
TDS (Measured at 180 C)	213	310 J	231	232	230	259
Water Temperature (C) (Fld)	10.8	11.7	9.6	10.5	10.6	11.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-58	EH-58	EH-58	EH-58	EH-58	EH-58
Water	SAMPLE DATE	6/1/2002	11/17/2002	6/3/2003	10/29/2003	5/25/2004	10/26/2004
	SAMPLE TIME	14:45	12:10	15:45	16:21	13:30	11:35
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	L020412036	L020956011	L030247012	L030604016	H04050175-008	H04100182-003
	SAMPLE NUMBER	EHC-0205-190	EHC-0211-187	AEH-0306-195	AEH-0310-418	AEH-0405-172	AEH-0411-111
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	139	113	117	110	120	110
Calcium (Ca) (DIS)	40	46	61	44	43	39
Carbonate As CO3	<1	<1	<2	<2		
Chloride (Cl)	5.7	10	24	6.7	7	9
Magnesium (Mg) (DIS)	9.1	10	15	10	9	9
Potassium (K) (DIS)	<5	<5	<5	<5	3	3
Sodium (Na) (DIS)	17	17	19	16	16	18
Sulfate (SO4)	66	82	122	86	64	58
Total Alkalinity As CACO3	114	93	96	90	96	92

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05				
Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001
Arsenic V (dis)	<0.005	<0.005	<0.005	<0.005	0.0014	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.03	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.01	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.05	<0.01	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	3.9					
Oxygen (O) (DIS) (Fld)	4.8	6.4	4.1	5.1	4.42	3.89
pH	6.4	6.8	7.2	7.5	7.2	7.1
Silicon+Silica (Si+SiO2)	20	20				
Depth To Water Level (ft)	18.9	16.3	15.3	16.21	16.92	15.31
pH (Fld)	6.6	6.2	6.5	6.23	6.34	6.87
SC (umhos/cm at 25 C) (Fld)	386	324	472	316	577	372
SC (umhos/cm at 25 C)	342	398	545	389	298	329
Total Suspended Solids	4.8	20 J	6.2	9.1	<10	14
TDS (Measured at 180 C)	238	256	375	277	240	249
Salinity (G/KG) (Fld)		0.1	0.1	0.1	0.2	
Turbidity (NTU) (Fld)		8	1	1		
Water Temperature (C) (Fld)	9.7	11	10.1	10.9	10.5	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-58	EH-58	EH-58	EH-58	EH-58	EH-58
Water	SAMPLE DATE	5/10/2005	11/9/2005	5/3/2006	6/21/2006	11/8/2006	4/4/2007
	SAMPLE TIME	10:11	12:40	11:55	14:25	10:15	10:55
	LAB	ELI-Casper	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI
	LAB NUMBER	C05050399-001	H05110081-008	H06050038-005	H06060220-003	H06110070-007	H07040049-005
	SAMPLE NUMBER	AEH-0505-100	AEH-0511-132	AEH-0605-129	AEH-0606-133	AEH-0611-121	AEH-0703-153
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						No ORP-Pumping
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	104	110	120	150	110	110
Calcium (Ca) (DIS)	40	52	41	56 J	39	37
Chloride (Cl)	6	9 UJ	8	15	8	7
Magnesium (Mg) (DIS)	9	12	9	12 J	8	8
Potassium (K) (DIS)	<5	4	4	3 J	3	3
Sodium (Na) (DIS)	16	18	18	20	17	17
Sulfate (SO4)	65	82	71	99	61	64
Total Alkalinity As CaCO3	85	90	95	120	91	91

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Arsenic III (dis)	<0.001	<0.005	<0.005 J	<0.005	<0.005	<0.005
Arsenic V (dis)	0.001	<0.005	<0.005 J	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.006 UJ	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02 J	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.01	<0.01 J	<0.01	<0.01
Selenium (Se) (DIS)						<0.005
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02 J	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential					50.3	
Oxygen (O) (DIS) (Fid)	3.33	3.84	2.74	3.9	4.4	2.96
pH	7.18	7.1	7.3	7	7.1	7.1
Depth To Water Level (ft)	17.53	15.46	16.74	14.5	15.7	17.39
pH (Fid)	5.53 R	6.59	6.56	6.52	6.61	5.58
SC (umhos/cm at 25 C) (Fid)	333	394	397	473	361	351
SC (umhos/cm at 25 C)	340	394	367	460	315	347
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	220	256	234	306	241	231
TDS - Calculated	210					
Water Temperature (C) (Fid)	10.1	11.61	10.7	10.37	11.53	10.55

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-58	EH-58	EH-58	EH-58	EH-58	EH-58
Water	SAMPLE DATE	5/11/2007	5/11/2007	7/26/2007	9/4/2007	11/14/2007	1/25/2008
	SAMPLE TIME	13:40	13:40	13:00	13:50	12:37	14:30
	LAB	EPA-R8	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	8705007-10	H07050140-001	H07070280-009	H07090010-005	H07110122-006	H08010206-008
	SAMPLE NUMBER	AEH-0705-142	AEH-0705-142	AEH-0707-132	AEH-0709-104	AEH-0711-123	AEH-0801-107
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	AEH-0705-142-S	EPA Split			EPA Split	
	REMARKS	Split					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	110	110	110			110
Bicarbonate (HCO3) (dis)					120	
Calcium (Ca) (DIS)	37	43	39	36	36	
Chloride (Cl)	6	10	7	8	6	
Magnesium (Mg) (DIS)	8	10	8	8	8	
Potassium (K) (DIS)	3	3	3	3	3	
Sodium (Na) (DIS)	19	18	17	17	17	
Sulfate (SO4)	64	79	70	69	61	
Total Alkalinity As CaCO3	89	94	91	95	93	

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)					<0.005	
Selenium-VI (DIS)					<0.005	
Aluminum (Al) (DIS)	<0.1					
Antimony (Sb) (DIS)	<0.001					
Arsenic (As) (DIS)	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002
Arsenic III (DIS)		<0.001			0.0011	
Arsenic V (DIS)		<0.001			<0.001	
Barium (Ba) (DIS)	0.036					
Beryllium (Be) (DIS)	<0.001					
Cadmium (Cd) (DIS)	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.002					
Cobalt (Co) (DIS)	<0.002					
Copper (Cu) (DIS)	<0.01	<0.004	<0.004	<0.004	<0.001	<0.004
Iron (Fe) (DIS)	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02
Lead (Pb) (DIS)	<0.001	<0.005	<0.005	<0.005	<0.003	<0.005
Manganese (Mn) (DIS)	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.0001					
Nickel (Ni) (DIS)	0.0019					
Selenium (Se) (DIS)	0.0031	<0.005	<0.005	<0.005	<0.003	<0.005
Silver (Ag) (DIS)	<0.0005					
Thallium (Tl) (DIS)	<0.0003					
Tin (Sn) (DIS)	<0.2					
Vanadium (V) (DIS)	<0.01					
Zinc (Zn) (DIS)	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential				116.3		
Oxygen (O) (DIS) (Fld)	3.57	4.95	6.95	3.04	2.42	
pH	7	7.2	7.4	7.2	7.1	
Depth To Water Level (ft)	17.21	15.35	15.51	15.7	17.74	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-58	EH-58	EH-58	EH-58	EH-58
Water	SAMPLE DATE	5/11/2007	7/26/2007	9/4/2007	11/14/2007	1/25/2008
	SAMPLE TIME	13:40	13:00	13:50	12:37	14:30
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H07050140-001	H07070280-009	H07090010-005	H07110122-006	H08010206-008
	SAMPLE NUMBER	AEH-0705-142	AEH-0707-132	AEH-0709-104	AEH-0711-123	AEH-0801-107
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	EPA Split			EPA Split	
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

pH (Fld)	6.83	6.69	6.58	9.22 R	6.98
SC (umhos/cm at 25 C) (Fld)	343	397	350	369	344
SC (umhos/cm at 25 C)	352	395	353	351	343
Total Suspended Solids	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	230	258	225	221	206
Water Temperature (C) (Fld)	10.56	10.81	11.06	11.65	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-58	EH-58	EH-58	EH-58	EH-59
Water	SAMPLE DATE	4/29/2008	7/14/2008	10/28/2008	2/3/2009	5/13/1987
	SAMPLE TIME	11:45	18:20	11:30	10:05	00:00
	LAB	ELI	ELI	ELI	ELI	CHMTC
	LAB NUMBER	H08040441-004	H08070318-003	H08100377-004	H09020024-017	8705-112
	SAMPLE NUMBER	AEH-0805-103	AEH-0807-115	AEH-0811-111	AEH-0902-116	AEH-8705-112
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					Split
<b>Common Ions (mg/L): ppm unless noted</b>						
	Bicarbonate (HCO3)	110	120	120	110	
	Calcium (Ca) (DIS)	39	37	39	33	42
	Chloride (Cl)	6	11	8	5	20
	Magnesium (Mg) (DIS)	9	8	9	7	9.2
	Potassium (K) (DIS)	3	3	3	3	23
	Sodium (Na) (DIS)	15	17	17	16	29.7
	Sulfate (SO4)	60	68	67	55	110
	Total Alkalinity As CaCO3	90	99	96	94	
<b>Metals (mg/L): ppm unless noted</b>						
	Selenium-IV (DIS)	<0.005		<0.005		
	Selenium-VI (DIS)	<0.005 J		<0.005		
	Aluminum (Al) (DIS)	<0.1		<0.1		
	Antimony (Sb) (DIS)	<0.005		<0.005		
	Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	0.03
	Arsenic III (DIS)	<0.005		<0.005		
	Arsenic V (DIS)	<0.005		<0.005 J		
	Barium (Ba) (DIS)	<0.1		<0.1		
	Beryllium (Be) (DIS)	<0.001		<0.001		
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.004
	Chromium (Cr) (DIS)	<0.001		<0.001		
	Cobalt (Co) (DIS)	<0.01		<0.01		
	Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.02
	Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.1
	Lead (Pb) (DIS)	<0.005 J	<0.005	<0.005	<0.005	0.004
	Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	0.08
	Mercury (Hg) (DIS)	<0.006		<0.006		
	Nickel (Ni) (DIS)	<0.01		<0.01		
	Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	
	Silver (Ag) (DIS)	<0.005		<0.005		
	Thallium (Tl) (DIS)	<0.002		<0.002		
	Vanadium (V) (DIS)	<0.01		<0.01		
	Zinc (Zn) (DIS)	<0.01 J	<0.01	<0.02	<0.02	<0.02
<b>Physical/Fld-Lab: ppm unless noted</b>						
	Oxygen (O) (DIS) (Fld)	2.73	4.3	4.09	2.1	
	pH	7.1	6.9	7.1	7.1	
	Depth To Water Level (ft)	18.24	15.48	16.12	17.45	
	pH (Fld)	6.73	6.57	6.89	6.59	
	SC (umhos/cm at 25 C) (Fld)	357	371	340	318	
	SC (umhos/cm at 25 C)	327	355	334	333	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-58	EH-58	EH-58	EH-58	EH-59
Water	SAMPLE DATE	4/29/2008	7/14/2008	10/28/2008	2/3/2009	5/13/1987
	SAMPLE TIME	11:45	18:20	11:30	10:05	00:00
	LAB	ELI	ELI	ELI	ELI	CHMTC
	LAB NUMBER	H08040441-004	H08070318-003	H08100377-004	H09020024-017	8705-112
	SAMPLE NUMBER	AEH-0805-103	AEH-0807-115	AEH-0811-111	AEH-0902-116	AEH-8705-112
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					Split
<b>Physical/Fid-Lab: ppm unless noted</b>						
	Total Suspended Solids	<10	<10	798	<10	
	TDS (Measured at 180 C)	198 UJ	225	224	202	347
	Water Temperature (C) (Fld)	11.3	10.3	11.9	11.1	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-59	EH-59	EH-59	EH-59	EH-59	EH-59
Water	SAMPLE DATE	5/13/1987	5/13/1987	5/13/1987	6/26/1987	8/7/1987	8/7/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	CHMTC	TSC-SLC	TSC-SLC	WYRHR	TSC-SLC
	LAB NUMBER	87-3321	8705-40	87-3320	87-5179	8708-21	87-6488
	SAMPLE NUMBER	AEH-8705-112	AEH-8705-40	AEH-8705-40	AEH-8707-108	AEH-8708-21	AEH-8708-21
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate	Field Duplicate			Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)			116		98	121
Calcium (Ca) (DIS)		42.1	40.6		32.3	29
Carbonate As CO3			<1		<5	<1
Chloride (Cl)			5		3.4	3
Magnesium (Mg) (DIS)		9.2	8.7		7.3	7.1
Potassium (K) (DIS)		10.4	11.4		9.3	9.4
Sodium (Na) (DIS)		29	26.5		24.6	24.2
Sulfate (SO4)			106	74	62	66

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.008	<0.009	<0.006	<0.006	<0.004	<0.006
Arsenic III (dis)	0.02 M		0.01 M			0.01 M
Arsenic V (dis)	0.01		0.01			0.04
Cadmium (Cd) (DIS)	0.006	<0.004	0.006		0.0008	0.001
Copper (Cu) (DIS)	<0.008	<0.02	<0.008		0.002	<0.008
Iron (Fe +2) (TOT)	<0.01		<0.01			<0.01
Iron (Fe) (DIS)	<0.02	<0.1	0.02		0.02	<0.02
Lead (Pb) (DIS)	0.009 M	0.03	<0.005		<0.002	<0.005
Manganese (Mn) (DIS)	0.07	0.08	0.08		0.006	0.004
Zinc (Zn) (DIS)	0.02 M	<0.02	0.02 M		<0.002	<0.008

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7		7			2.8
pH			7.3	7.6		7.7
Depth To Water Level (ft)	7.9		7.9			6.8
pH (Fld)	6.9		6.6			6.5
SC (umhos/cm at 25 C) (Fld)	429.5		430			345.5
SC (umhos/cm at 25 C)			422	405		353
TDS (Measured at 180 C)			294	249	220	222
Water Temperature (C) (Fld)	11.5		11.5			15

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-59	EH-59	EH-59	EH-59	EH-59	EH-59
Water	SAMPLE DATE	11/17/1987	4/13/1988	11/30/1990	5/6/1991	5/6/1991	11/15/1991
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	12:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8711-243	88-2735	90-2254	91-2676	91-2671	91-3858
	SAMPLE NUMBER	AEH-8711-243	AEH-8804-349	AEH-9011-771	AEH-9105-122	AEH-9105-126	AEH-9111-344
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	121	95				
Calcium (Ca) (DIS)		42				
Carbonate As CO3		<1				
Chloride (Cl)		6.5	4.1 J	4.6	4.8	3.7 UJ
Magnesium (Mg) (DIS)		9.3				
Potassium (K) (DIS)		13.4				
Sodium (Na) (DIS)		26.1				
Sulfate (SO4)	71	108	72 J	66	66	70

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.006 J	<0.006	0.02	0.01	0.01	0.005
Arsenic III (dis)	<0.008	<0.008	0.02 U	0.007 UJ	0.02 M	0.02 U
Arsenic V (dis)	0.008	0.01	0.004 U	0.06 UJ	0.04 M	0.03 U
Cadmium (Cd) (DIS)	0.001	<0.001	<0.001	<0.001	0.001	0.001
Copper (Cu) (DIS)	<0.008		<0.008	<0.004	<0.004	<0.004
Iron (Fe +2) (TOT)	<0.01	<0.001				
Iron (Fe) (DIS)	0.02	<0.02				
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.006					
Zinc (Zn) (DIS)	<0.008	<0.008		<0.008	0.008	<0.008

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.9	6	5.3	8.2	8.2	2.8
pH	7.8	7.05	8.08	7.8	7.8	7.1
Depth To Water Level (ft)	7.7	8.3	10.3	9.7	9.7	7.5
pH (Fld)	6.3	6.7	6.9	7.2	7.2	7.8
SC (umhos/cm at 25 C) (Fld)		448.4	377.3	385.7	374.9	336
SC (umhos/cm at 25 C)	344	415	355	380	378	304
Total Suspended Solids	12					
TDS (Measured at 180 C)	233	274 J	245 J	263	267	240 J
Water Temperature (C) (Fld)	10.8	9.5	10.8	10.1	10.1	17.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-59	EH-59	EH-59	EH-59	EH-59	EH-59
Water	SAMPLE DATE	4/15/1992	11/14/1992	11/14/1992	5/3/1993	11/4/1993	5/5/1994
	SAMPLE TIME	17:30	11:00	12:00	14:50	12:35	11:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	92-4293	92-6779	92-6780	93-7766	93-9146	94-1106
	SAMPLE NUMBER	AEH-9204-134	EHC-9211-159	EHC-9211-131	EHC-9305-133	EHC-9311-142	EHC-9405-146
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)		36 J	36 J	40		
Chloride (Cl)	5.8 J	4.1	4.2	5.2	3.3 J	4.8
Magnesium (Mg) (Dis)		7.4	7.4	8		
Potassium (K) (Dis)		11	10	11		
Sodium (Na) (Dis)		23	23	27		
Sulfate (SO4)	87 J	70 J	72 J	88	57 J	93
Total Hardness As CaCO3				134		

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.01	0.004 J	0.005 J	0.006	0.006	0.007
Arsenic III (dis)	0.01	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic V (dis)	0.007	0.01 UJ	0.01 UJ	0.02 UJ	<0.004 J	0.009
Cadmium (Cd) (DIS)	0.001	0.001	0.001	0.001	0.001	0.002
Copper (Cu) (DIS)	<0.004	<0.004	0.004	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	<0.005	0.006 J	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	0.007	<0.006	<0.006	0.006	0.006	0.009 U

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	6.5	3.5	3.5	7.5	3.1	7.4
pH	7.2	8.1	7.9			
Depth To Water Level (ft)	8.08	7.6	7.6	7.6	6.9	7.2
pH (Fld)	7.08	6.9	6.9	6.9	7.5	6.8
SC (umhos/cm at 25 C) (Fld)	383	343	343	397	303	391
SC (umhos/cm at 25 C)	380	338	340	390	311 J	355
TDS (Measured at 180 C)	259 J	270	280	264	208	232
Water Temperature (C) (Fld)	10	11.7	11.7	10.2	8.4	7.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-59	EH-59	EH-59	EH-59	EH-59	EH-59
Water	SAMPLE DATE	11/10/1994	5/5/1995	11/7/1995	5/7/1996	11/7/1996	5/2/1997
	SAMPLE TIME	12:30	17:00	14:40	15:00	12:35	13:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-3274	95-4462	95-6099	96-6716	96-7756	97-917
	SAMPLE NUMBER	EHC-9411-147	EHC-9505-147	EHC-9511-149	EHC-9605-133	EHC-9611-133	EHC-9705-131
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	4.2	5.6	3.9	8.7	5.5	5
	Sulfate (SO4)	71 J	111	85	101	86 J	111
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.005	0.01	0.007	<0.005 J	0.008 J	0.01
	Arsenic III (dis)	0.005 U	0.004	<0.004	<0.005 UJ	<0.004	<0.005
	Arsenic V (dis)	0.02 U	0.006	0.005	0.01 J	0.01	0.007
	Cadmium (Cd) (DIS)	<0.001	0.001	<0.001	<0.005	<0.001	<0.001
	Copper (Cu) (DIS)	<0.004	0.005	<0.004	<0.004	<0.004	<0.004
	Lead (Pb) (DIS)	<0.005 JU	<0.005	<0.005	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	0.009 U	0.009	0.008	<0.02	<0.008	<0.02
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	5.2	7.9	3.3	7.1	4.1	7.7
	pH		7	7.3	6.9	7.8	7
	Depth To Water Level (ft)	7.7	8.6	7.4	7.7	7.4	8.01
	pH (Fld)	7.3	7.2	7	7.1	6.9	7.8
	SC (umhos/cm at 25 C) (Fld)	393	434	347	342	434	418
	SC (umhos/cm at 25 C)	396 J	428	365	340	424	448
	TDS (Measured at 180 C)	259 J	278	241	222	268	318
	Water Temperature (C) (Fld)	11.5	8.8	10.6	9.3	10.9	7.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-59	EH-59	EH-59	EH-59	EH-59	EH-59
Water	SAMPLE DATE	11/3/1997	5/4/1998	11/17/1998	5/7/1999	11/9/1999	5/8/2000
	SAMPLE TIME	14:30	14:35	11:10	13:35	11:20	09:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	187-2670	261-3769	310-4410	346-4877	L992008014	L000705031
	SAMPLE NUMBER	EHC-9711-133	EHC-9805-134	EHC-9811-133	EHC-9905-133	EHC-9911-149	EHC-0005-148
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		122	129	117 J	110	131
Calcium (Ca) (DIS)		60	36	50	57	44
Carbonate As CO3				<1 UJ	<1	<1
Chloride (Cl)	7	15	9.5 J	11	21	12
Magnesium (Mg) (DIS)		12	7.7	11	11	9.3
Potassium (K) (DIS)		17 J	14	21	17	17
Sodium (Na) (DIS)		47	35	51	36	45
Sulfate (SO4)	75	182	124	197	185	155
Total Alkalinity As CaCO3		100	106	96 J	90	107

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.006	0.01	0.01	0.01	0.007	0.01 J
Arsenic III (dis)	<0.005	0.005	<0.005	<0.005	<0.005	0.01 UJ
Arsenic V (dis)	0.009	0.01	0.01	0.02	0.01	0.02 U
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001 J
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)		<0.05	0.03	0.04 UJ	<0.02	0.09 U
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	0.03	<0.02 J	<0.02 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	2.8	8.03	3.5	7.7	4.5	9.3
pH	7.1	7.2	7	7.4	7.4	7.2
Depth To Water Level (ft)	7	8.3	7.7	8.7	7.7	9.6
Eh (millivolts)			445	393	434	429
pH (Fid)	7	6.4	7.01	7.3	7.2	6.9
SC (umhos/cm at 25 C) (Fid)	387	569	472	576	584	614
SC (umhos/cm at 25 C)	385	632	458	583	591	566
Total Suspended Solids	1		<1		<1	
TDS (Measured at 180 C)	245	335	308	390	493	393
Water Temperature (C) (Fid)	11.3	10.4	10	9.6	12.6	8.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-59	EH-59	EH-59	EH-59	EH-59	EH-59
Water	SAMPLE DATE	11/9/2000	5/4/2001	11/13/2001	6/1/2002	11/17/2002	6/3/2003
	SAMPLE TIME	13:30	15:30	14:45	15:20	12:30	16:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001897029	L010655056	L011565002	L020396013	L020956012	L030247013
	SAMPLE NUMBER	EHC-0011-149	EHC-0105-175	EHC-0111-173	EHC-0205-191	EHC-0211-188	AEH-0306-196
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	134	117	124	116	112	110
Calcium (Ca) (DIS)	50	48	49	40	46	33
Carbonate As CO3	<1		<1	<1	<1	<2
Chloride (Cl)	17	19 J	14	15	12	11
Magnesium (Mg) (DIS)	9.9	9.8	9.8	7.8	9	6.6
Potassium (K) (DIS)	22	21	23	19	21	20
Sodium (Na) (DIS)	55	49	47	41	39	34
Sulfate (SO4)	199 J	120 J	153	117	145	103
Total Alkalinity As CaCO3	110	96	102	95	92	90

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.01	<0.05	<0.05	<0.05	<0.05	
Arsenic (As) (DIS)	0.02	0.02	0.02	0.02	0.02	0.02
Arsenic III (dis)	<0.02	0.008 U	0.005	0.006	0.007	0.009
Arsenic V (dis)	0.02	0.009	0.01	0.01	0.007	0.009
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.005	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.2 UJ	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			44.1	2.7		
Oxygen (O) (DIS) (Fld)	3.6	6.3	2.5	9.1	5.8	8.02
pH	7.7	7.6	7.8	6.5	6.9	7.3
Silicon+Silica (Si+SiO2)	21	18	22	17	20	
Depth To Water Level (ft)	9.8	10.7	8.4	10.4	8.5	7.6
Eh (millivolts)	524	269	279			
pH (Fld)	7.5	7.2	7.3	6.6	6.1	6.5
SC (umhos/cm at 25 C) (Fld)	606	535	609	587	444	391
SC (umhos/cm at 25 C)	672	585	593	506	543	450
Total Suspended Solids		14	18	22	6.8 J	4.5
TDS (Measured at 180 C)	474	398	407	328	365	294
Salinity (G/KG) (Fld)					0.1	0.1
Turbidity (NTU) (Fld)					9	1
Water Temperature (C) (Fld)	11.8	10.4	12.7	8.2	11.9	9.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-59	EH-59	EH-59	EH-59	EH-59	EH-59
Water	SAMPLE DATE	10/28/2003	5/25/2004	10/26/2004	5/10/2005	11/9/2005	11/9/2005
	SAMPLE TIME	13:10	14:10	12:05	10:38	13:10	13:15
	LAB	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel
	LAB NUMBER	L030604003	H04050175-009	H04100182-005	C05050399-002	H05110081-009	H05110081-010
	SAMPLE NUMBER	AEH-0310-403	AEH-0405-173	AEH-0411-114	AEH-0505-101	AEH-0511-133	AEH-0511-134
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)		120	120	120	119	120	110
Calcium (Ca) (DIS)		63	41	36	39	36	37
Carbonate As CO3		<2					
Chloride (Cl)		15	14	10	10	8 UJ	8 UJ
Magnesium (Mg) (DIS)		12	7	7	8	7	7
Potassium (K) (DIS)		27	22	20	20	21	21
Sodium (Na) (DIS)		42	43	42	39	32	33
Sulfate (SO4)		219	150	150	112	94	93
Total Alkalinity As CACO3		98	98	97	97	96	94
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)		0.02	0.017	0.015	0.025	0.018	0.019
Arsenic III (dis)		<0.005	<0.001	<0.001	<0.001	<0.005	<0.005
Arsenic V (dis)		0.02 J	0.028	0.013	0.03	0.018	0.017
Cadmium (Cd) (DIS)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)		<0.03	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		0.03	<0.01	0.08	<0.02	0.02	0.02
Zinc (Zn) (DIS)		<0.05	<0.01	<0.02	<0.02	<0.02	<0.02
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)		2.14	5.57	0.97	7.03	1.54	
pH		7.5	7.3	7.1	7.22	7.1	7.2
Depth To Water Level (ft)		8.06	8.45	7.69	9.19	7.87	
pH (Fld)		6.2	6.38	6.89	6.45	6.69	
SC (umhos/cm at 25 C) (Fld)		555	849	484	473	409	
SC (umhos/cm at 25 C)		684	439	446	482	414	414
Total Suspended Solids		15 J	<10	68	<10	<10	<10
TDS (Measured at 180 C)		469	338	325	300	250	255
TDS - Calculated					304		
Salinity (G/KG) (Fld)		0.2	0.3				
Turbidity (NTU) (Fld)		7					
Water Temperature (C) (Fld)		13.2	9.5	12.5	8.5	12.83	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-59	EH-59	EH-59	EH-59	EH-59	EH-59
Water	SAMPLE DATE	5/3/2006	6/22/2006	11/8/2006	5/23/2007	5/23/2007	7/27/2007
	SAMPLE TIME	12:20	12:25	09:35	09:25	09:25	10:00
	LAB	ELI-Hel	ASARCO	ELI	EPA-R8	ELI	ELI
	LAB NUMBER	H06050038-006	z	H06110070-005	8705007-20	H07050275-001	H07070291-006
	SAMPLE NUMBER	AEH-0605-130	AEH-0606-141	AEH-0611-119	AEH-0705-215	AEH-0705-215	AEH-0707-141
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		Samp-Pump Down		AEH-0705-215-S	EPA Split	
	REMARKS		No Sample		Split		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	120	130	110	100
Calcium (Ca) (DIS)	39	38	32	26
Chloride (Cl)	11	6	7	5
Magnesium (Mg) (DIS)	7	7	6	5
Potassium (K) (DIS)	21	24	19	18
Sodium (Na) (DIS)	32	31	27	25
Sulfate (SO4)	110	94	84	61
Total Alkalinity As CaCO3	96	100	92	86

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)			<0.005	
Selenium-VI (DIS)			0.0068	
Aluminum (Al) (DIS)			<0.1	
Antimony (Sb) (DIS)			0.0095	
Arsenic (As) (DIS)	0.022	0.016	0.0214	0.02 UJ
Arsenic III (dis)	<0.005 J	<0.005		<0.005 J
Arsenic V (dis)	0.02 J	0.02		0.0185 UJ
Barium (Ba) (DIS)			0.084	
Beryllium (Be) (DIS)			<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.0002	<0.001
Chromium (Cr) (DIS)			<0.002	<0.001
Cobalt (Co) (DIS)			<0.002	
Copper (Cu) (DIS)	<0.004	<0.004	<0.01	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.1	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.001	<0.005
Manganese (Mn) (DIS)	<0.01	0.02	<0.002	<0.01
Mercury (Hg) (DIS)			<0.0001	
Nickel (Ni) (DIS)			0.0011	
Selenium (Se) (DIS)			0.0084	0.008
Silver (Ag) (DIS)			<0.0005	
Thallium (Tl) (DIS)			<0.0003	
Tin (Sn) (DIS)			<0.2	
Vanadium (V) (DIS)			<0.01	
Zinc (Zn) (DIS)	<0.02	<0.02	<0.04	<0.01

**Nutrients: ppm unless noted**

Total Organic Carbon			<0.5	
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**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential			88.6	
Oxygen (O) (DIS) (Fld)	2.74		2.46	5.46
pH	7.3		7.2	7.5
Depth To Water Level (ft)	8.84	7.2	7.9	5.61

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-59	EH-59	EH-59	EH-59
Water	SAMPLE DATE	5/3/2006	11/8/2006	5/23/2007	7/27/2007
	SAMPLE TIME	12:20	09:35	09:25	10:00
	LAB	Hydro	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H06050038-006	H06110070-005	H07050275-001	H07070291-006
	SAMPLE NUMBER	AEH-0605-130	AEH-0611-119	AEH-0705-215	AEH-0707-141
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI
	DESCRIPTION			EPA Split	
	REMARKS				

**Physical/Fid-Lab: ppm unless noted**

pH (Fld)	6.56	6.61	6.83	6.84
SC (umhos/cm at 25 C) (Fld)	397	461	414	339
SC (umhos/cm at 25 C)	470	410	393	341
Total Suspended Solids	<10	<10	<10	<10
TDS (Measured at 180 C)	292	306	257	213
Water Temperature (C) (Fld)	10.7	12.76	8.9	11.97

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-59	EH-59	EH-59	EH-59	EH-59	EH-59
Water	SAMPLE DATE	9/6/2007	11/16/2007	1/31/2008	5/7/2008	5/7/2008	7/16/2008
	SAMPLE TIME	16:00	11:33	15:00	08:40	08:40	15:05
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07090052-013	H07110140-004	H08010244-012	H08050136-004	H08050136-004RA	H08070357-003
	SAMPLE NUMBER	AEH-0709-131	AEH-0711-139	AEH-0801-136	AEH-0805-168	AEH-0805-168	AEH-0807-146
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		EPA Split		As Spec-Unpresrvd	As Spec-Presrvd	
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	120		120	120		100
Bicarbonate (HCO3) (dis)		130				
Calcium (Ca) (DIS)	28	35	38	40		28
Chloride (Cl)	5	7	7	8		8
Magnesium (Mg) (DIS)	5	7	7	8		5
Potassium (K) (DIS)	19	21	22	20		13
Sodium (Na) (DIS)	26	26	25	24		22
Sulfate (SO4)	49	81	99	80		59
Total Alkalinity As CaCO3	100	100	98	96		84

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005		<0.005		
Selenium-VI (DIS)		<0.005		<0.005 J-		
Aluminum (Al) (DIS)				<0.1		
Antimony (Sb) (DIS)				0.009		
Arsenic (As) (DIS)	0.019	0.017	0.023	0.026		0.024
Arsenic III (DIS)		<0.001		<0.005 J	<0.005	
Arsenic V (DIS)		0.0202		0.0294 J	0.0271	
Barium (Ba) (DIS)				<0.1		
Beryllium (Be) (DIS)				<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001		<0.001
Chromium (Cr) (DIS)				<0.001		
Cobalt (Co) (DIS)				<0.01		
Copper (Cu) (DIS)	<0.004	<0.001	<0.004	<0.004		<0.004
Iron (Fe) (DIS)	0.02 UJ	<0.01	<0.02	<0.02		<0.02
Lead (Pb) (DIS)	<0.005	<0.003	<0.005	<0.005		<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01		<0.01
Mercury (Hg) (DIS)				<0.006		
Nickel (Ni) (DIS)				<0.01		
Selenium (Se) (DIS)	<0.005	0.004	0.007	0.006		<0.005
Silver (Ag) (DIS)				<0.005		
Thallium (Tl) (DIS)				<0.002		
Vanadium (V) (DIS)				<0.01		
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.01		<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	51.6					
Oxygen (O) (DIS) (Fld)	1.43	2.35	4.63	7.13		2.8
pH	7.2	7.4	7	7.1		7.3
Depth To Water Level (ft)	7.94	8.04	9.91	9.87		7.86
pH (Fld)	6.66	6.86	6.88	6.82		6.65

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-59	EH-59	EH-59	EH-59	EH-59
Water	SAMPLE DATE	9/6/2007	11/16/2007	1/31/2008	5/7/2008	7/16/2008
	SAMPLE TIME	16:00	11:33	15:00	08:40	15:05
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H07090052-013	H07110140-004	H08010244-012	H08050136-004	H08070357-003
	SAMPLE NUMBER	AEH-0709-131	AEH-0711-139	AEH-0801-136	AEH-0805-168	AEH-0807-146
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION		EPA Split		As Spec-Unpresrvd	
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	349	425	488	400	548 A
SC (umhos/cm at 25 C)	328	411	448	391	335
Total Suspended Solids	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	227	272	295	249	219
Water Temperature (C) (Fid)	13.74	12.7	8.3	9	10.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-59	EH-59	EH-59	EH-59	EH-60
Water	SAMPLE DATE	11/5/2008	2/13/2009	2/13/2009	5/12/2009	12/2/1987
	SAMPLE TIME	11:49	09:20	09:30	14:30	00:00
	LAB	ELI	ELI	ELI	ELI	TSC-SLC
	LAB NUMBER	H08110073-007	H09020131-002	H09020131-003	H09050193-010	87-11009
	SAMPLE NUMBER	AEH-0811-175	AEH-0902-185	AEH-0902-186	AEH-0905-184	AEH-8712-245
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	120	110	110	110	208
Calcium (Ca) (DIS)	29	31	32	35	148.5
Carbonate As CO3					<1
Chloride (Cl)	5	6	6	10	130
Magnesium (Mg) (DIS)	6	6	6	7	41.5
Potassium (K) (DIS)	19	19	19	19	20.2
Sodium (Na) (DIS)	23	21	21	21	195
Sulfate (SO4)	61	77	77	82	750
Total Alkalinity As CaCO3	100	87	86	90	

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005				
Selenium-VI (DIS)	<0.005				
Aluminum (Al) (DIS)	<0.1 J			<0.1	
Antimony (Sb) (DIS)	0.009			0.008	
Arsenic (As) (DIS)	0.023	0.021	0.021	0.025	1.2
Arsenic III (DIS)	<0.005				<0.008 J
Arsenic V (DIS)	0.0238				1.6
Barium (Ba) (DIS)	<0.1			<0.1	
Beryllium (Be) (DIS)	<0.001			<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	0.01 J
Chromium (Cr) (DIS)	<0.001			<0.001	
Cobalt (Co) (DIS)	<0.01			<0.0005	
Copper (Cu) (DIS)	0.006	<0.004	<0.004	0.002 UJ	0.01 J
Gold (Au) (DIS)				<0.01	
Iron (Fe +2) (TOT)					<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	0.04
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	43
Mercury (Hg) (DIS)	<0.006			<0.0001	
Nickel (Ni) (DIS)	<0.01			<0.01	
Selenium (Se) (DIS)	<0.005	0.008	0.007	0.008 UJ	
Silver (Ag) (DIS)	<0.005			<0.005 R	
Tellurium (Te) (DIS)				<0.1	
Thallium (Tl) (DIS)	<0.002			<0.001	
Vanadium (V) (DIS)	<0.01			<0.01	
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.01	0.1 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.09	7.29		5.6	2
pH	7.2	7.3	7.3	7.3	7.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-59	EH-59	EH-59	EH-59	EH-60
Water	SAMPLE DATE	11/5/2008	2/13/2009	2/13/2009	5/12/2009	12/2/1987
	SAMPLE TIME	11:49	09:20	09:30	14:30	00:00
	LAB	Hydrometrics	Hydrometrics	ELI	Hydrometrics	TSC-SLC
	LAB NUMBER	H08110073-007	H09020131-002	H09020131-003	H09050193-010	87-11009
	SAMPLE NUMBER	AEH-0811-175	AEH-0902-185	AEH-0902-186	AEH-0905-184	AEH-8712-245
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Field Duplicate		

**Physical/Fid-Lab: ppm unless noted**

Depth To Water Level (ft)	8.19	9.5		9.26	21.2
pH (Fld)	6.62	6.65		6.84	6.05
SC (umhos/cm at 25 C) (Fld)	337	365		392	1987
SC (umhos/cm at 25 C)	344	369	370	399	1870
Total Suspended Solids	<10	<10	<10	<10	4.4
TDS (Measured at 180 C)	232	238	236	263	1538 J
Water Temperature (C) (Fld)	12	8.7		8.6	9.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-60	EH-60	EH-60
Water	SAMPLE DATE	12/2/1987	12/2/1987	12/2/1987	4/18/1988	12/14/1988	4/17/1989
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	WYRHR	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8712-245	87-11016	8712-259	88-2772	89-7	89-495
	SAMPLE NUMBER	AEH-8712-245	AEH-8712-259	AEH-8712-259	AEH-8804-350	AEH-8812-169	AEH-8904-240
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split	Field Duplicate	Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	170			148		
Calcium (Ca) (DIS)	139		141	109		
Carbonate As CO3	<5			<1		
Chloride (Cl)	129			99	96	93
Magnesium (Mg) (DIS)	35.5		36.1	32		
Potassium (K) (DIS)	14.9		15.1	16.9		
Sodium (Na) (DIS)	210		212	197		
Sulfate (SO4)	730			593	630 R	625

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.2	1.5	1.2	1.6	2.1	3.1
Arsenic III (dis)		<0.008 J		0.008	2.3 J	3.1
Arsenic V (dis)		1.7		1.8	0.2	0.04 J
Cadmium (Cd) (DIS)	0.01	0.006	0.01	0.001	0.001 J	<0.002
Copper (Cu) (DIS)	0.01	0.03	0.01		0.01	0.01
Iron (Fe +2) (TOT)		<0.01		<0.001	<0.01	<0.01
Iron (Fe) (DIS)	0.006	0.03	0.006	<0.02		
Lead (Pb) (DIS)	<0.002	<0.005 J	<0.002	0.02	<0.005 UJ	<0.02
Manganese (Mn) (DIS)	37.3	43.5	37.8			
Zinc (Zn) (DIS)	0.09	0.04	0.03	0.02	0.02	0.02 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)		2		1.8	2.6	2
pH				6.5	7	6.6
Depth To Water Level (ft)		21.2		27.5	22.8	22.5
pH (Fid)		6.05		6.4	6.5	6.09
SC (umhos/cm at 25 C) (Fid)		1993		1689	1786	1747
SC (umhos/cm at 25 C)				1600	1720 J	1000
TDS (Measured at 180 C)	1460			1312 J	1236 J	1424 J
Water Temperature (C) (Fid)		9.7		12.5	10.4	12.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-60	EH-60	EH-60
Water	SAMPLE DATE	10/17/1989	4/29/1990	12/4/1990	5/8/1991	5/8/1991	11/20/1991
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	16:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-811	90-1059	90-2248	91-2674	91-2673	91-3882
	SAMPLE NUMBER	AEH-8910-448	AEH-9005-448	AEH-9011-751	AEH-9105-127	AEH-9105-144	AEH-9111-329
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	112	117	142 J	129	133	139 J
	Sulfate (SO4)	800	747	940 J	928	876	1083
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	3.4 J	5.4	4.1	5	5.3	4
	Arsenic III (dis)	<0.008	3.6	3.5	0.02 UJ	0.02 UJ	0.2
	Arsenic V (dis)	3.1	0.7	0.006	4.8 J	4.7 J	4.2
	Cadmium (Cd) (DIS)	0.005	0.003	0.003	0.004	0.005	0.004
	Copper (Cu) (DIS)	<0.008	0.009	<0.008	0.008	0.006	0.008
	Lead (Pb) (DIS)	<0.01 UJ	<0.005 UJ	<0.005 UJ	<0.005 J	0.005 J	<0.005
	Zinc (Zn) (DIS)	0.02 J	0.02 U		0.04	0.04	0.04 U
<b>Other: ppm unless noted</b>							
	Branched Alcohol	0.01					
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)		1.8	2.2	2.3	2.3	
	pH	7.7	7.7	8	7.3	7.2	6.5
	Depth To Water Level (ft)	18.4	22.9	22	23.4	23.4	17.2
	pH (Fld)		6.7	7.05	6.7	6.7	6.5
	SC (umhos/cm at 25 C) (Fld)	2046	2001	2549	2283	2251	2510
	SC (umhos/cm at 25 C)	1980	2000	2350	2250	2250	2460
	TDS (Measured at 180 C)	1532 J	1448	1852 J	1709	1702	2060 J
	Water Temperature (C) (Fld)		9.4	11.3	12.9	12.9	11.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-60	EH-60	EH-60
Water	SAMPLE DATE	4/29/1992	11/21/1992	5/6/1993	11/12/1993	11/12/1993	5/12/1994
	SAMPLE TIME	14:00	10:30	13:00	13:20	16:30	16:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	92-4350	92-6806	93-7836	93-9278	93-9276	94-1386
	SAMPLE NUMBER	AEH-9204-155	EHC-9211-173	EHC-9305-161	EHC-9311-178	EHC-9311-143	EHC-9405-147
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		
<b>Common Ions (mg/L): ppm unless noted</b>							
Calcium (Ca) (Dis)			219 J	202			
Chloride (Cl)	150 J		190	164	176 J	185 J	177
Magnesium (Mg) (Dis)			60	56			
Potassium (K) (Dis)			14	19			
Sodium (Na) (Dis)			403	457			
Sulfate (SO4)	1115		1282	1155	1307 J	1110 J	1071 J
Total Hardness As CaCO3				735			
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)	5.4	6	6	6.1	7	9.07	
Arsenic III (dis)	0.09	1.7 J	0.6	0.8	0.8	1.4	
Arsenic V (dis)	4.3	4.9 J	4.4	8.2	6.8	5.3 J	
Cadmium (Cd) (DIS)	0.004 U	0.004	0.004	0.004	0.003	0.003	
Copper (Cu) (DIS)	0.01	0.01	0.01	0.01	0.01	0.01	
Lead (Pb) (DIS)	<0.005	<0.005 UJ	<0.005	<0.005	<0.005	<0.005 JU	
Zinc (Zn) (DIS)	0.05	0.04	0.05	0.03	0.04	0.04	
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	0.6	2.1	2	2	2	2.2	
pH	7.01	6.9					
Depth To Water Level (ft)	21.2	19.6	21.07	17.4	17.4	20.7	
pH (Fld)	6.3	6.2	6.4	6.5	6.5	6.3	
SC (umhos/cm at 25 C) (Fld)	2750	2915	2790	2795	2850	2770	
SC (umhos/cm at 25 C)	2710	3200	2780 J	2980 J	2980 J	2920 J	
TDS (Measured at 180 C)	2064	2360	2257	2242	2249	2184	
Water Temperature (C) (Fld)	15.5	10.7	12.2	11	11	13.6	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-60	EH-60	EH-60
Water	SAMPLE DATE	11/18/1994	11/18/1994	5/16/1995	5/16/1995	11/14/1995	11/14/1995
	SAMPLE TIME	13:15	14:30	13:30	13:45	10:20	10:35
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-3400	94-3393	95-4520	95-4526	95-6149	95-6153
	SAMPLE NUMBER	EHC-9411-184	EHC-9411-148	EHC-9505-148	EHC-9505-178	EHC-9511-150	EHC-9511-177
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate		Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	230	245	247	247	203 J	172 J
	Sulfate (SO4)	998	1069	1094	1068	1329 J	972 J
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	7.05	7.4	8.4	8.4	7.9	8.02
	Arsenic III (dis)	1.7	1.5	2.6	2.7	2.9	2.8
	Arsenic V (dis)	5.4 J	5.5 J	6.5	6.3	5.7	5.8
	Cadmium (Cd) (DIS)	0.004	0.004	0.005	0.007	0.002	0.002
	Copper (Cu) (DIS)	0.01	0.01	0.02	0.02	0.01	0.01
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005 J	<0.005 J
	Zinc (Zn) (DIS)	0.02	0.02	0.03 J	0.03 J	0.03 U	0.03 U
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	1.4	1.4	2.04	2.3	3	2.7
	pH	6.5	7.1	7.4	7.3	6.9	6.9
	Depth To Water Level (ft)	19.6	19.6	21.9	21.9	17.7	17.7
	pH (Fld)	6.4	6.4	6.5	6.5	6.5	6.5
	SC (umhos/cm at 25 C) (Fld)	2970	2950	2820	2830	2880	2880
	SC (umhos/cm at 25 C)	3000	2980	2900 J	2910 J	2920	2950
	TDS (Measured at 180 C)	2225 J	2239 J	2035 J	2129 J	2173	2175 J
	Water Temperature (C) (Fld)	8.2	8.2	11	11.8	12	11.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-60	EH-60	EH-60
Water	SAMPLE DATE	5/15/1996	5/15/1996	11/12/1996	5/7/1997	5/7/1997	11/5/1997
	SAMPLE TIME	12:45	13:00	16:00	16:00	16:15	17:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-6789	96-6765	96-7789	97-971	97-974	188-2686
	SAMPLE NUMBER	EHC-9605-134	EHC-9605-156	EHC-9611-134	EHC-9705-132	EHC-9705-152	EHC-9711-134
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	219	229	140	182	173	116
Sulfate (SO4)	909	1030	857 J	860	857	675

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	8	8.7	9.4	9.6	9.8	10
Arsenic III (dis)	4.7 J	4.1 J	4.8	5.5	5.6	4.3
Arsenic V (dis)	5.2 J	5.4 J	4.1 J	3.5 J	3.5 J	4 J
Cadmium (Cd) (DIS)	<0.005	<0.005	0.002	0.002	0.002	0.001
Copper (Cu) (DIS)	0.01	0.01	0.01	0.01	0.01	0.009
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	0.02	0.03	0.02	0.03	0.03	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.5	2.5	2.7	2.1	2.1	2.4
pH	6.5	6.5	7.2	6.9	6.8	6.9
Depth To Water Level (ft)	19.9	19.9	19.6	21.4	21.4	17.5
pH (Fld)	6.4	6.5	6.8	7.4	7.4	6.7
SC (umhos/cm at 25 C) (Fld)	2740	2780	2100	2290	2293	2320
SC (umhos/cm at 25 C)	2630	2580	2500	2350	2350	1988
Total Suspended Solids						<1
TDS (Measured at 180 C)	1984	1998	1765	1756	1766	1474
Water Temperature (C) (Fld)	13	11.7	10.4	11	11	11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-60	EH-60	EH-60
Water	SAMPLE DATE	5/6/1998	5/6/1998	11/19/1998	5/10/1999	5/10/1999	11/11/1999
	SAMPLE TIME	14:50	15:05	09:30	14:30	14:45	11:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	261-3770	261-3777	311-4434	347-4894	347-4895	L992008015
	SAMPLE NUMBER	EHC-9805-135	EHC-9805-150	EHC-9811-134	EHC-9905-134	EHC-9905-148	EHC-9911-150
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	262	265	266	256 J	256 J	268
Calcium (Ca) (DIS)	94	96	91	98	100	76
Carbonate As CO3				<1 UJ	<1 UJ	<1
Chloride (Cl)	97	96	95	121	125	85
Magnesium (Mg) (DIS)	27	27	26	29	29	23
Potassium (K) (DIS)	13 J	13 J	12	15	14	12
Sodium (Na) (DIS)	286	300	249	309	310	241
Sulfate (SO4)	647	644	618	841	831	511
Total Alkalinity As CaCO3	215	217	218	210 J	210 J	220

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	12.4	12.6	11.2 J	11.6	11.6	11
Arsenic III (dis)	12.09	12.2	7.7 J	7.8	8.5	7.8
Arsenic V (dis)	4.2	4.2	3.7	3.3	3.6	3.8
Cadmium (Cd) (DIS)	0.001	0.001	<0.001	0.001	0.001	<0.001
Copper (Cu) (DIS)	0.01	0.01	0.007	0.009	0.008	0.006
Iron (Fe) (DIS)	0.2	0.2	0.07	0.3 J	0.2 UJ	0.1 J
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	23	23.5	15.8	24.5	25	13
Zinc (Zn) (DIS)	0.03	0.03	<0.02	<0.02	<0.02	<0.02 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	2.4	2.4	2.2	1.4	1.3	1.4
pH	6.9	7	7	7	7	7.4
Depth To Water Level (ft)	21.6		18.4	22		20
Eh (millivolts)			392	387	386	370
pH (Fid)	6.5	6.4	6.8	6.7	6.7	6.9
SC (umhos/cm at 25 C) (Fid)	1770	1780	1883	1895	1897	1650
SC (umhos/cm at 25 C)	1942	1943	1970	2090	2080	1645
Total Suspended Solids						<1
TDS (Measured at 180 C)	1446	1461	1358	1522	1772	1315
Water Temperature (C) (Fid)	14.6	14	10.9	10.2	10.2	11.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-60	EH-60	EH-60	
Water	SAMPLE DATE	11/11/1999	5/3/2000	6/21/2000	8/3/2000	8/16/2000	8/31/2000	
	SAMPLE TIME	11:45	12:20	09:30	08:30	09:15	09:25	
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	
	LAB NUMBER	L992009010	L000704003	L000964001	L001239001	L001333001	L001441001	
	SAMPLE NUMBER	EHC-9911-174	EHC-0005-149	EHST-0006-300	EHST-0008-100	EHST-0008-200	EHST-0008-300	
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
	GROUP	RI	RI	RI	RI	RI	RI	
	DESCRIPTION							
	REMARKS	Field Duplicate						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	261	262	253	256		
Calcium (Ca) (DIS)	75	85	90	81		
Carbonate As CO3	<1	<1	<1	<1		
Chloride (Cl)	75	132	114	110		
Magnesium (Mg) (DIS)	22	25	27	23		
Potassium (K) (DIS)	12	12	11	11		
Sodium (Na) (DIS)	238	268	287	264		
Sulfate (SO4)	470	669	636	810 J		
Total Alkalinity As CaCO3	214	215				

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	11	11	11	11	11	11
Arsenic III (dis)	7.6	8.6	7.9	8.2	7.9	7.3
Arsenic V (dis)	3.7	3.6	4.6	4.5 J	4.2	3.7
Cadmium (Cd) (DIS)	<0.001	0.001	0.001	<0.001		
Copper (Cu) (DIS)	0.007	0.01				
Iron (Fe) (DIS)	0.08 J	0.2 UJ	0.2	0.2		
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005		
Manganese (Mn) (DIS)	14	21	22	19		
Zinc (Zn) (DIS)	<0.02 UJ	0.03	0.02	0.02		

**Physical/Fid-Lab: ppm unless noted**

Iron (Fe) (Fld)			<0.1		0.2	0.2
Iron (Fe+2) (Fld)			<0.1	0.2	0.2	0.2
Oxygen (O) (DIS) (Fld)	1.4	3.8	1.03	1.08	0.7	1
pH	7.4	6.9	7.1	7.3		
Depth To Water Level (ft)		22.8	21.1	20.9	21	21.3
Eh (millivolts)	365	384	268	287	288	286
pH (Fld)	6.9	6.7	6.4	6.3	6.1	6.7
SC (umhos/cm at 25 C) (Fld)	1590	2020	1883	2050	1432	2010
SC (umhos/cm at 25 C)	1650	1946	1973	1902		
Total Suspended Solids	1.7					
TDS (Measured at 180 C)	1135	1388				
Water Temperature (C) (Fld)	11.8	12.3	12.3	12.5	12.6	12.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-60	EH-60	EH-60
Water	SAMPLE DATE	9/13/2000	9/22/2000	10/3/2000	10/17/2000	11/3/2000	11/8/2000
	SAMPLE TIME	10:35	11:25	10:20	14:40	11:30	11:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001513001	L001585002	L001649001	L001753002	L001861002	L001873009
	SAMPLE NUMBER	EHST-0009-100	EHST-0009-201	EHST-0010-100	EHST-0010-201	EHST-0011-101	EHC-0011-150
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)					181	146
Calcium (Ca) (DIS)					23	14
Carbonate As CO3						<1
Chloride (Cl)					28	16 J
Magnesium (Mg) (DIS)					6.8	<5
Potassium (K) (DIS)					6.7	5.2
Sodium (Na) (DIS)					144	107
Sulfate (SO4)					236	150
Total Alkalinity As CACO3						120

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)						<0.01
Arsenic (As) (DIS)	11	9.3	13	12 J	13	12
Arsenic III (dis)	5.9	1.4	7.7	11	<0.005 R	<0.02
Arsenic V (dis)	4.5	7.4	4.5	4.5	3.8	11
Cadmium (Cd) (DIS)						<0.001
Copper (Cu) (DIS)						0.006
Iron (Fe) (DIS)						0.03 U
Lead (Pb) (DIS)						<0.005
Manganese (Mn) (DIS)						3.6
Zinc (Zn) (DIS)						<0.02

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)		0.2	0.2			
Iron (Fe+2) (Fld)		0.1	0.2	0.2	<0.01	
Oxygen (O) (DIS) (Fld)	0.9	0.9	0.6	0.8	0.7	3
pH						7.3
Silicon+Silica (Si+SiO2)						29
Depth To Water Level (ft)	21.03	21.4	22.2	22.3	21.6	21
Eh (millivolts)	396	330		272	367	435
pH (Fld)	6.9	6.7	6.3	6.6	6.8	7.3
SC (umhos/cm at 25 C) (Fld)	1847	1703	1636	1913	878	656
SC (umhos/cm at 25 C)						664
TDS (Measured at 180 C)						443
Water Temperature (C) (Fld)	13.2	11.4	12.2	13.5	12.2	11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-60	EH-60	EH-60	
Water	SAMPLE DATE	11/8/2000	12/20/2000	2/7/2001	5/10/2001	11/9/2001	6/1/2002	
	SAMPLE TIME	11:00	09:40	10:10	13:20	10:45	11:20	
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	
	LAB NUMBER	L001873015	L002044001	L010183002	L010691010	L011565003	L020412030	
	SAMPLE NUMBER	EHC-0011-172	EHST-0012-100	EHST-0102-101	EHC-0105-176	EHC-0111-174	EHC-0205-192	
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
	GROUP	RI	RI	RI	RI	RI	RI	
	DESCRIPTION							
	REMARKS	Field Duplicate						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	145	107	98	98	249	282
Calcium (Ca) (DIS)	13	8.1	12	23	78	97
Carbonate As CO3	<1	<1			<1	<1
Chloride (Cl)	15 J	6.4	5.8	8.3	126 J	158
Magnesium (Mg) (DIS)	<5	<5	3.9	7.5	23	28
Potassium (K) (DIS)	5.2	<5	3.5	<5	12	13
Sodium (Na) (DIS)	107	63	41	24 J	249	375
Sulfate (SO4)	160	68	60	64	516 J	788
Total Alkalinity As CaCO3	119	88		80	204	231

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.01			<0.05	<0.05	<0.05
Arsenic (As) (DIS)	12	6.2	3.4	1.7	9.4	12
Arsenic III (dis)	0.02	<0.02	<0.02	0.8	5.9	5.4
Arsenic V (dis)	11	5.5	3.7	0.9	3.4	5.6
Cadmium (Cd) (DIS)	<0.001	<0.001		<0.001	0.002	0.002
Copper (Cu) (DIS)	0.005	0.006		<0.004	0.01 J	0.09
Iron (Fe) (DIS)	0.03 U	<0.02	<0.1	<0.05	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005		<0.005	<0.005 J	<0.005
Manganese (Mn) (DIS)	3.5	2.2		4.4	11	23
Zinc (Zn) (DIS)	<0.02	<0.02		<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Chlorine (Cl) (DIS)			<0.05			
Chlorine (Cl) (TOT)			<0.05			
Iron (Fe+2) (Fld)		0.02				
Oxidation Reduction Potential					153.8	21.8
Oxygen (O) (DIS) (Fld)	2.9	1.2	1.4	8.3	1	1.2
pH	7.3	7.4		7.8	8.3	6.9
Silicon+Silica (Si+SiO2)	29			22	33	31
Depth To Water Level (ft)		21.8	22.3	22.3	19.7	24.04
Eh (millivolts)	436	434	426	470	408	
pH (Fld)	7.2	6.7	7.2	7.6	6.8	6.3
SC (umhos/cm at 25 C) (Fld)	670	1900 R	278	2080	1620	2060
SC (umhos/cm at 25 C)	660	350		308	1707	2040
Total Suspended Solids				<1	<1 UJ	<1
TDS (Measured at 180 C)	444	229		208	1204 J	1447
Water Temperature (C) (Fld)	11.5	10.8	8.7	10.5	11.4	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-60	EH-60	EH-60
Water	SAMPLE DATE	11/18/2002	6/3/2003	10/29/2003	5/26/2004	10/28/2004	5/17/2005
	SAMPLE TIME	12:30	14:30	13:10	08:40	09:52	14:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper
	LAB NUMBER	L020959009	L030247009	L030605002	H04050191-001	H04100202-002	C05050640-024
	SAMPLE NUMBER	EHC-0211-189	AEH-0306-192	AEH-0310-424	AEH-0405-179	AEH-0411-142	AEH-0505-181
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	237	195	244	230	280	241
Calcium (Ca) (DIS)	87	97	90	92	112	92
Carbonate As CO3	<1	<2	<2			
Chloride (Cl)	169	158	137	120	100	92
Magnesium (Mg) (DIS)	25	28	26	26	30	27
Potassium (K) (DIS)	13	13	13	12	13	12
Sodium (Na) (DIS)	297	302	271	284	224	263
Sulfate (SO4)	632	706	528	660	526	597
Total Alkalinity As CaCO3	194	160	200	190	230	198

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05 J					
Arsenic (As) (DIS)	12	11	11	10.84	8.19	9.92
Arsenic III (dis)	10	14	8.5	4.8	4.8	5.7
Arsenic V (dis)	1	<0.005	2.3	5.8 J	3.3	3.8
Cadmium (Cd) (DIS)	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.006 UJ	0.01	0.009	0.007	0.011	0.007
Iron (Fe) (DIS)	0.02	0.07	0.05	0.18	0.07	0.15
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	17	18	15	17.19	9.54	17.4
Zinc (Zn) (DIS)	<0.02	<0.02	<0.05	<0.01	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.9	0.2	0.05	0.24	1.84	1
pH	7.2	6.9	7.7	7	7.1	7.27
Silicon+Silica (Si+SiO2)	30					
Depth To Water Level (ft)	20.7	21.7	20.1	22.26	18.89	23.12
pH (Fld)	6.1	6.2	6.03	6.58	6.51	6.3
SC (umhos/cm at 25 C) (Fld)	1880	2190	1870	1948	1913	1775
SC (umhos/cm at 25 C)	1980	2100	1908	1870	1710	1850
Total Suspended Solids	2.5	1.9	10	<10	<10	<10 J
TDS (Measured at 180 C)	1372	1494	1318	1400	1280	1340
TDS - Calculated						1230
Salinity (G/KG) (Fld)	0.8	1	0.8			
Turbidity (NTU) (Fld)	1	1	5			
Water Temperature (C) (Fld)	12.3	11.3	12.2	11.4	12.4	11.44

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-60	EH-60	EH-60
Water	SAMPLE DATE	11/9/2005	5/3/2006	6/21/2006	11/7/2006	3/28/2007	5/22/2007
	SAMPLE TIME	09:20	10:30	10:10	15:00	10:25	13:00
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	H05110081-002	H06050038-003	H06060217-003	H06110064-012	H07030232-004	H07050262-005
	SAMPLE NUMBER	AEH-0511-126	AEH-0605-127	AEH-0606-125	AEH-0611-113	AEH-0703-115	AEH-0705-210
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	270	260	260	310	290	270
Calcium (Ca) (DIS)	65	72	86 J	98	82	76
Chloride (Cl)	99	90	82	120	87	77
Magnesium (Mg) (DIS)	19	21	24 J	26	24	22
Potassium (K) (DIS)	12	11	11 J	12	12	11
Sodium (Na) (DIS)	229	240	237	230	257	244
Sulfate (SO4)	441	483	516	452	467	490
Total Alkalinity As CaCO3	220	210	210	250	240	220

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)						<0.005
Selenium-VI (DIS)						<0.005
Arsenic (As) (DIS)	9.78	9.77	8.63 J	7.975	8.574	7.815
Arsenic III (dis)	1.7	8.1 J	5.2	6.5	6.2	6.67
Arsenic V (dis)	6.4	2.6 J	3.9	3.9	2.5	2.22
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Copper (Cu) (DIS)	0.006	0.007	0.005 UJ	0.009	0.004	0.005
Iron (Fe) (DIS)	0.09	0.2	0.12 UJ	0.1	0.18	0.3
J						
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	9.13	13.36	9.63 J	7.98	14.64	14.29
Selenium (Se) (DIS)					0.013	<0.005
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02 J	<0.02	<0.02	<0.01

**Nutrients: ppm unless noted**

Total Organic Carbon						<0.5
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**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential				75.5	87	
Oxygen (O) (DIS) (Fid)	1.37	2.24	2.33	2.05	1.83	3.36
pH	6.8	7	6.8	6.8	6.9	7.6
Depth To Water Level (ft)	19.48	21.89	18.72	19.02	22.27	22.78
pH (Fid)	6.45	6.56	6.36	6.45	6.56	6.6
SC (umhos/cm at 25 C) (Fid)	1640	1758	1633	1703	1691	1649
SC (umhos/cm at 25 C)	1520	1540	1550	1620	1610	1540
Total Suspended Solids	<10	<10	<10	<10 J	<10	<10
TDS (Measured at 180 C)	1020	1130	1180	1180	1150	1140
Water Temperature (C) (Fid)	12.62	12.39	11.72	13.08	11.53	11.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-60	EH-60	EH-60
Water	SAMPLE DATE	7/25/2007	9/13/2007	12/10/2007	1/31/2008	5/13/2008	7/23/2008
	SAMPLE TIME	16:45	09:15	14:55	10:00	08:35	10:40
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07070259-012	H07090135-001	H07120088-009	H08010244-003	H08050222-008	H08070463-006
	SAMPLE NUMBER	AEH-0707-123	AEH-0709-153	AEH-0711-223	AEH-0801-125	AEH-0805-220	AEH-0807-184
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	280	310		310	280	280
Bicarbonate (HCO3) (dis)			310			
Calcium (Ca) (DIS)	90	95	76	77	69	68
Chloride (Cl)	82	90	92	77	70	69
Magnesium (Mg) (DIS)	24	26	22	22	20	19
Potassium (K) (DIS)	8	12	11	11	10	10
Sodium (Na) (DIS)	220	242	243	234	235	223
Sulfate (SO4)	428	413	421	430	440	450
Total Alkalinity As CaCO3	230	250	260	260	230	230

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)			<0.005		<0.005	
Selenium-VI (dis)			<0.005		<0.005	
Aluminum (Al) (DIS)					<0.1	
Antimony (Sb) (DIS)					<0.005	
Arsenic (As) (DIS)	6.945	7.145	8.55	7.6	7.05	6.4
Arsenic III (dis)			5.58		6.14	
Arsenic V (dis)			2.29		2.26	
Barium (Ba) (DIS)					<0.1	
Beryllium (Be) (DIS)					<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)					<0.001	
Cobalt (Co) (DIS)					<0.01	
Copper (Cu) (DIS)	0.004 UJ	0.005	0.004	<0.004	<0.004	0.01
Iron (Fe) (DIS)	0.12	0.12	0.21	0.29	0.07	0.06
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	8.1	8.32	12.43	10.88	12.83	11.67
Mercury (Hg) (DIS)					<0.006	
Nickel (Ni) (DIS)					<0.01	
Selenium (Se) (DIS)	0.012	0.012	0.013	0.011	0.005 J	0.01
Silver (Ag) (DIS)					<0.005	
Thallium (Tl) (DIS)					<0.002	
Vanadium (V) (DIS)					<0.01	
Zinc (Zn) (DIS)	0.01 UJ	0.01	<0.02	<0.01	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.05	1.04	1.13	0.57	1.61	0.46
pH	7.1	6.7	7.4	7	6	7.1
Depth To Water Level (ft)	17.51	18.56	20.09	22.83	24.05	20.98
pH (Fld)	6.54	6.55	6.62	6.55	6.66	6.4
SC (umhos/cm at 25 C) (Fld)	1672	1636	1657	1659	1561	1587

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-60	EH-60	EH-60
Water	SAMPLE DATE	7/25/2007	9/13/2007	12/10/2007	1/31/2008	5/13/2008	7/23/2008
	SAMPLE TIME	16:45	09:15	14:55	10:00	08:35	10:40
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07070259-012	H07090135-001	H07120088-009	H08010244-003	H08050222-008	H08070463-006
	SAMPLE NUMBER	AEH-0707-123	AEH-0709-153	AEH-0711-223	AEH-0801-125	AEH-0805-220	AEH-0807-184
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Physical/Fid-Lab: ppm unless noted</b>							
	SC (umhos/cm at 25 C)	1570	1560	1520	1580	1470	1440
	Total Suspended Solids	<10	<10	<10	<10	64	<10
	TDS (Measured at 180 C)	1130	1100	1080	1080	1030	1060
	Water Temperature (C) (Fid)	11.79	12.6	12.2	9.2	12.4	11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-61	EH-61
Water	SAMPLE DATE	11/12/2008	2/9/2009	5/18/2009	12/2/1987	12/2/1987
	SAMPLE TIME	13:31	13:50	11:25	00:00	00:00
	LAB	ELI	ELI	ELI	TSC-SLC	WYRHR
	LAB NUMBER	H08110140-010	H09020078-013	H09050256-006	87-11010	8712-246
	SAMPLE NUMBER	AEH-0811-232	AEH-0902-174	AEH-0905-244	AEH-8712-246	AEH-8712-246
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					Split
<b>Common Ions (mg/L): ppm unless noted</b>						
Bicarbonate (HCO3)		350	330	280	211	180
Calcium (Ca) (DIS)		73	61	59	182.5	168
Carbonate As CO3					<1	<5
Chloride (Cl)		87	73	58	60	52
Magnesium (Mg) (DIS)		21	18	17	40	35
Potassium (K) (DIS)		11	11	10	13.5	10.6
Sodium (Na) (DIS)		227	217	211	95	104
Sulfate (SO4)		380	400	410	560	570
Total Alkalinity As CaCO3		290	270	230		
<b>Metals (mg/L): ppm unless noted</b>						
Selenium-IV (DIS)		<0.005				
Selenium-VI (DIS)		<0.005				
Aluminum (Al) (DIS)		<0.1		<0.1		
Antimony (Sb) (DIS)		<0.005		<0.003		
Arsenic (As) (DIS)		7.13	8.4	6.45	0.02 J	0.009
Arsenic III (DIS)		3.35			0.01 J	
Arsenic V (DIS)		4.06			0.03	
Barium (Ba) (DIS)		<0.1		<0.1		
Beryllium (Be) (DIS)		<0.001		<0.001		
Cadmium (Cd) (DIS)		<0.001	<0.001	0.002 UJ	0.005	0.004
Chromium (Cr) (DIS)		<0.001		0.003		
Cobalt (Co) (DIS)		<0.01		0.0074		
Copper (Cu) (DIS)		<0.004	0.004	0.006	0.008	0.008
Gold (Au) (DIS)				0.05		
Iron (Fe +2) (TOT)					<0.01	
Iron (Fe) (DIS)		<0.02	0.08	0.09 UJ	0.04	0.6
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.002
Manganese (Mn) (DIS)		8.96	10.4	9.99	5.3	4.6
Mercury (Hg) (DIS)		<0.006		<0.0001		
Nickel (Ni) (DIS)		<0.01		<0.01		
Selenium (Se) (DIS)		0.005	0.006	0.011		
Silver (Ag) (DIS)		<0.005		<0.005		
Tellurium (Te) (DIS)				<0.1		
Thallium (Tl) (DIS)		<0.002		<0.001		
Vanadium (V) (DIS)		<0.01		<0.01		
Zinc (Zn) (DIS)		<0.02	<0.02	<0.01	0.03	0.03
<b>Physical/Fid-Lab: ppm unless noted</b>						
Oxygen (O) (DIS) (Fld)		0.39	1.51	1.36	1.2	
pH		6.9	6.9	7.1	7.9	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-61	EH-61
Water	SAMPLE DATE	11/12/2008	2/9/2009	5/18/2009	12/2/1987	12/2/1987
	SAMPLE TIME	13:31	13:50	11:25	00:00	00:00
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	TSC-SLC	WYRHR
	LAB NUMBER	H08110140-010	H09020078-013	H09050256-006	87-11010	8712-246
	SAMPLE NUMBER	AEH-0811-232	AEH-0902-174	AEH-0905-244	AEH-8712-246	AEH-8712-246
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					Split
<b>Physical/Fid-Lab: ppm unless noted</b>						
	Depth To Water Level (ft)	20.13	22.7	23.83	22.9	
	pH (Fid)	6.35	6.49	6.64	6.7	
	SC (umhos/cm at 25 C) (Fid)	1513	1474	1428	1498	
	SC (umhos/cm at 25 C)	1500	1450	1430	1360	
	Total Suspended Solids	<10	<10	<10	448	
	TDS (Measured at 180 C)	993	974	952	1183 J	1120
	Water Temperature (C) (Fid)	12.42	12	11.6	10.6	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-61	EH-61	EH-61	EH-61	EH-61	EH-61
Water	SAMPLE DATE	4/18/1988	4/18/1988	12/15/1988	12/6/1990	5/10/1991	11/21/1991
	SAMPLE TIME	00:00	00:00	00:00	15:10	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ATI	ATI	ATI
	LAB NUMBER	88-2773	88-2783	89-8	9012-078	9105-124-2	9111-241-5
	SAMPLE NUMBER	AEH-8804-351	AEH-8804-358	AEH-8812-170	AEH-9011-752	AEH-9105-128	AEH-9111-368
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	183		
Calcium (Ca) (DIS)	135.5		
Carbonate As CO3	<1		
Chloride (Cl)	40 J		38
Magnesium (Mg) (DIS)	34.5		
Potassium (K) (DIS)	12.7		
Sodium (Na) (DIS)	106		
Sulfate (SO4)	475		470 R

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.006	<0.006	<0.006
Arsenic III (dis)	<0.008	<0.008	0.04 J
Arsenic V (dis)	0.02	0.01	0.008 J
Cadmium (Cd) (DIS)	<0.001	0.001	0.001 J
Copper (Cu) (DIS)			<0.008
Iron (Fe +2) (TOT)	<0.001	<0.001	<0.01
Iron (Fe) (DIS)	<0.02	<0.02	
Lead (Pb) (DIS)	0.02	0.01	0.04
Zinc (Zn) (DIS)	<0.008	0.009	0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.8	1.8	3.5	3.4	6.9	3.6
pH	6.8		7.8			
Depth To Water Level (ft)	22	22	24.7		25.4	18.8
pH (Fld)	6.6	6.6	6.8	7.9	7.2	8.06
SC (umhos/cm at 25 C) (Fld)	1349	1346	1312		1440	
SC (umhos/cm at 25 C)	1350	1346	1290 J			
TDS (Measured at 180 C)	1066 J		938 J			
Water Temperature (C) (Fld)	11.5	11.5	11.3	10.2	11.9	12.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-61	EH-61	EH-61	EH-61	EH-61	EH-61
Water	SAMPLE DATE	4/29/1992	11/21/1992	5/6/1993	11/12/1993	5/12/1994	11/18/1994
	SAMPLE TIME	15:00	12:15	12:30	15:45	17:10	16:00
	LAB	ATI	ATI	ATI	ATI	ATI	ATI
	LAB NUMBER	9205-008-5	9211-235-4	9305-064-1	9311-159-6	9405-095-9	411143-6
	SAMPLE NUMBER	AEH-9204-172	EHC-9211-164	EHC-9305-164	EHC-9311-144	EHC-9405-148	EHC-9411-150
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)					2.4		1.6
Depth To Water Level (ft)	23.1	21.4	23.03	19.03	22.6		21.4
pH (Fld)				6.8			6.9
SC (umhos/cm at 25 C) (Fld)				1427			
Water Temperature (C) (Fld)				10.9			9.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-61	EH-61	EH-61	EH-61	EH-61	EH-61
Water	SAMPLE DATE	11/8/1995	5/15/1996	11/12/1996	5/7/1997	5/7/1997	11/7/1997
	SAMPLE TIME	12:00	14:30	17:00	14:40	14:55	09:15
	LAB	ATI	ATI	ATI	ATI	ATI	ATI
	LAB NUMBER	511049-6	605045-4	611035-6	705025-8	705025-2	711029-4
	SAMPLE NUMBER	EHC-9511-152	EHC-9605-135	EHC-9611-135	EHC-9705-139	EHC-9705-151	EHC-9711-135
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	8.8	2.5	1.6	1.6	1.6	8
	Depth To Water Level (ft)	19.3	21.9	21.4	23.4	23.3	19.3
	pH (Fld)	6.9	6.9	6.9	7.4	7.4	7
	SC (umhos/cm at 25 C) (Fld)	1704	1627	1550	1463	1459	1588
	Water Temperature (C) (Fld)	12	14.3	10.6	12	12	10.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-61	EH-61	EH-61	EH-61	EH-61	EH-61
Water	SAMPLE DATE	5/6/1998	11/19/1998	5/10/1999	11/11/1999	5/3/2000	11/8/2000
	SAMPLE TIME	14:00	10:30	13:50	11:10	11:30	10:20
	LAB	MULTICHEM	MULTICHEM	MULTICHEM	MULTICHEM	ENERGY	ENERGY
	LAB NUMBER	805027-5	811076-4	905024-3	911050-3	00-53528-6	00-90952-6
	SAMPLE NUMBER	EHC-9805-136	EHC-9811-135	EHC-9905-135	EHC-9911-151	EHC-0005-150	EHC-0011-151
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	1.5	1.9	1.5	1.6	3.03	1.6
	Depth To Water Level (ft)	23.5	20	23.9	21.5	24.8	23.8
	Eh (millivolts)		394	416	455	374	440
	pH (Fld)	6.9	7.2	7.3	7.2	6.7	7.07
	SC (umhos/cm at 25 C) (Fld)	1590	2415	2050	2260	1696	1712
	Water Temperature (C) (Fld)	14.8	10.3	10.6	11	12.9	10.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-61	EH-61	EH-61	EH-61	EH-61	EH-61
Water	SAMPLE DATE	5/10/2001	11/9/2001	6/1/2002	11/16/2002	6/3/2003	10/29/2003
	SAMPLE TIME	12:40	10:15	12:00	15:10	14:10	12:45
	LAB	EL	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	60190487	L011565004	L020412031	L020951009	L030247008	L030605001
	SAMPLE NUMBER	EHC-0105-177	EHC-0111-175	EHC-0205-193	EHC-0211-190	AEH-0306-191	AEH-0310-423
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	171	195	170	190	193
Calcium (Ca) (DIS)	173	183	197	209	240
Carbonate As CO3	<1	<1	<1	<2	<2
Chloride (Cl)	144 J	101	106	108	106
Magnesium (Mg) (DIS)	37	36	39	43	49
Potassium (K) (DIS)	13	12	13	13	15
Sodium (Na) (DIS)	195	191	181	176	188
Sulfate (SO4)	647 J	778	733	761	851
Total Alkalinity As CaCO3	140	160	139	156	158

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05	<0.05		
Arsenic (As) (DIS)	<0.005	0.005	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	<0.005	0.006	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	0.003	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004 J	0.004	0.004	0.007	0.005
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.03
Lead (Pb) (DIS)	<0.005 J	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.4	3.1	0.5	0.6	1.5
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.05

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential		180.5	17.5		
Oxygen (O) (DIS) (Fld)	7.8	0.1	0.09	0.3	0.35
pH		7.3	6.7	6.9	7.7
Silicon+Silica (Si+SiO2)		17	28	27	
Depth To Water Level (ft)	25.2	21.4	25.6	22.3	21.81
Eh (millivolts)	464	435			
pH (Fld)	7.4	6.9	6.5	6.09	6.18
SC (umhos/cm at 25 C) (Fld)	1512	1850	1790	1790	2060
SC (umhos/cm at 25 C)		1888	1750	1859	1971
Total Suspended Solids		1.8 J	2.4	313	13
TDS (Measured at 180 C)		1421 J	1327	1414	1530
Salinity (G/KG) (Fld)				0.8	0.9
Turbidity (NTU) (Fld)				9	18
Water Temperature (C) (Fld)	12.7	11.6	11.8	12	11.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-61	EH-61	EH-61	EH-61	EH-61	EH-61
Water	SAMPLE DATE	5/26/2004	10/28/2004	5/17/2005	11/9/2005	5/3/2006	6/21/2006
	SAMPLE TIME	09:05	10:35	15:00	09:40	11:20	10:45
	LAB	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel	ELI-Hel
	LAB NUMBER	H04050191-002	H04100202-003	C05050640-025	H05110081-003	H06050038-004	H06060217-004
	SAMPLE NUMBER	AEH-0405-180	AEH-0411-143	AEH-0505-182	AEH-0511-127	AEH-0605-128	AEH-0606-126
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	200	200	217	200	220	220
Calcium (Ca) (DIS)	251	258	249	215	191	187 J
Chloride (Cl)	98	100	75	88	70	70
Magnesium (Mg) (DIS)	48	50	48	42	38	35 J
Potassium (K) (DIS)	14	15	14	15	14	12 J
Sodium (Na) (DIS)	184	178	182	189	180	168
Sulfate (SO4)	880	895	884	950	707	772
Total Alkalinity As CaCO3	170	160	178	170	180	180

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	0.009	0.006	<0.002	0.005	0.004
Arsenic III (dis)	<0.001	<0.001	<0.005	<0.005	<0.005 J	<0.005
Arsenic V (dis)	<0.001 J	<0.001	<0.005	<0.005	<0.005 J	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	0.005	<0.004	<0.004	0.005	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02 J
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.41	2.37	2.78	2.67	2.32	2.29 J
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02 J

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.1	0.06	0.1	0.78	1.16	1.55
pH	7.1	7.1	7.26	6.9	7.1	7
Depth To Water Level (ft)	24.19	20.65	25.06	21.22	23.78	20.34
pH (Fld)	6.79	6.63	6.51	6.54	6.56	6.55
SC (umhos/cm at 25 C) (Fld)	2180	2260	2235	2140	1758	1761
SC (umhos/cm at 25 C)	2060	2000	2120	1970	1720	1660
Total Suspended Solids	<10	<10	<10 J	<10	<10	<10
TDS (Measured at 180 C)	1750	1720	1730	1570	1430	1360
TDS - Calculated			1590			
Water Temperature (C) (Fld)	12.1	11.9	12.1	12.24	12.39	12.31

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-61	EH-61	EH-61	EH-61	EH-61	EH-61
Water	SAMPLE DATE	11/7/2006	4/3/2007	5/9/2007	7/25/2007	9/5/2007	11/16/2007
	SAMPLE TIME	14:40	14:20	12:50	16:30	15:20	10:28
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110064-011	H07040026-010	H07050114-009	H07070259-011	H07090032-012	H07110140-002
	SAMPLE NUMBER	AEH-0611-112	AEH-0703-147	AEH-0705-118	AEH-0707-122	AEH-0709-117	AEH-0711-137
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		No ORP-Pumping			Split w/EPA	
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	220	210	220	220	220	
Bicarbonate (HCO3) (dis)						220
Calcium (Ca) (DIS)	167	186	187	192	165	172
Chloride (Cl)	75	70	62	67	67	62
Magnesium (Mg) (DIS)	31	35	36	36	32	33
Potassium (K) (DIS)	12	13	12	9	12	12
Sodium (Na) (DIS)	170	194	177	169	166	176
Sulfate (SO4)	607	709	715	684	648	620
Total Alkalinity As CaCO3	180	180	180	180	180	180

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)						<0.005
Selenium-VI (DIS)						0.0793
Arsenic (As) (DIS)	0.006	0.004	0.007	0.005 UJ	0.006	0.006
Arsenic III (DIS)	<0.005	<0.005	<0.001			<0.001
Arsenic V (DIS)	<0.005	<0.005	<0.001			<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Copper (Cu) (DIS)	0.007	<0.004	<0.004	<0.004	<0.004	0.002
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	0.03	0.01
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.003
Manganese (Mn) (DIS)	2.41	2.32	2.55	2.44	2.37	2.54
Selenium (Se) (DIS)		0.111	0.125	0.108	0.086	0.088
Zinc (Zn) (DIS)	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	79.4				42.2	
Oxygen (O) (DIS) (Fid)	1.46	0.9	0.04	0.09	0.04	0.33
pH	7.1	7	7	7.3	6.9	7.3
Depth To Water Level (ft)	20.69	24.18	24.67	19.05	19.73	21.94
pH (Fid)	6.66	6.66	6.72	6.69	6.62	6.74
SC (umhos/cm at 25 C) (Fid)	1709	1840	1928	1899	1785	1759
SC (umhos/cm at 25 C)	1620	1730	1760	1760	1680	1670
Total Suspended Solids	22 J	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	1290	1420	1440	1430	1320	1340
Water Temperature (C) (Fid)	12.23	11.93	12.5	12.4	12.43	11.98

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-61	EH-61	EH-61	EH-61	EH-61	EH-61
Water	SAMPLE DATE	1/31/2008	5/5/2008	7/15/2008	11/3/2008	2/4/2009	5/6/2009
	SAMPLE TIME	11:00	10:10	17:10	14:10	08:30	16:20
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08010244-004	H08050066-003	H08070334-002	H08110021-005	H09020036-007	H09050142-015
	SAMPLE NUMBER	AEH-0801-126	AEH-0805-139	AEH-0807-130	AEH-0811-151	AEH-0902-126	AEH-0905-138
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	230	230	230	230	250	230
Calcium (Ca) (DIS)	202	237	214	212	202	210
Chloride (Cl)	67	61	63	57	51	48
Magnesium (Mg) (DIS)	39	44	40	41	36	40
Potassium (K) (DIS)	12	14	14	14	13	15
Sodium (Na) (DIS)	178	195	187	190	189	186
Sulfate (SO4)	747	820	880	790	800	820
Total Alkalinity As CaCO3	190	190	190	190	200	190

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005		<0.005		
Selenium-VI (DIS)		0.143		0.124		
Aluminum (Al) (DIS)		<0.1		<0.1		<0.1
Antimony (Sb) (DIS)		<0.005		<0.005		<0.003
Arsenic (As) (DIS)	0.009	0.006	0.007	0.005	0.004	0.007
Arsenic III (DIS)		<0.005		<0.005		
Arsenic V (DIS)		<0.005		<0.005 J-		
Barium (Ba) (DIS)		<0.1		<0.1		<0.1
Beryllium (Be) (DIS)		<0.001		<0.001		<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.001		<0.001		<0.001
Cobalt (Co) (DIS)		<0.01		<0.01		<0.0005
Copper (Cu) (DIS)	<0.004	<0.004	0.004	<0.004	<0.004	0.003
Gold (Au) (DIS)						<0.01 UJ
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.85	3.26	2.93	2.53	2.78	2.59
Mercury (Hg) (DIS)		<0.006		<0.006		<0.0001
Nickel (Ni) (DIS)		<0.01		<0.01		<0.01
Selenium (Se) (DIS)	0.138	0.178	0.238	0.135	0.163	0.214
Silver (Ag) (DIS)		<0.005 J		<0.005		<0.005
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)		<0.002		<0.002		<0.001
Vanadium (V) (DIS)		<0.01		<0.01		<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.16	0.4	0.15	0.24	0.65	0.25
pH	7	6.9	7	7.3	6.9	7.1
Depth To Water Level (ft)	24.7	25.92	23.27	21.89	24.5	25.75
pH (Fld)	6.65	6.61	6.61	6.43	6.57	6.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-61	EH-61	EH-61	EH-61	EH-61	EH-61
Water	SAMPLE DATE	1/31/2008	5/5/2008	7/15/2008	11/3/2008	2/4/2009	5/6/2009
	SAMPLE TIME	11:00	10:10	17:10	14:10	08:30	16:20
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H08010244-004	H08050066-003	H08070334-002	H08110021-005	H09020036-007	H09050142-015
	SAMPLE NUMBER	AEH-0801-126	AEH-0805-139	AEH-0807-130	AEH-0811-151	AEH-0902-126	AEH-0905-138
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	1963	2001	2095	1986	1930	1922
SC (umhos/cm at 25 C)	1890	1860	1920	1870	1870	1900
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	1440	1540	1590	1410	1450	1490
Water Temperature (C) (Fid)	11.6	12	12.3	11.89	11.6	11.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-62	EH-62	EH-62	EH-62	EH-62	EH-62
Water	SAMPLE DATE	12/2/1987	12/2/1987	4/15/1988	12/13/1988	4/18/1989	10/17/1989
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-11011	8712-247	88-2722	89-17	89-496	89-812
	SAMPLE NUMBER	AEH-8712-247	AEH-8712-247	AEH-8804-352	AEH-8812-171	AEH-8904-242	AEH-8910-450
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Split			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	199	170	132			
Calcium (Ca) (DIS)	130	121	73			
Carbonate As CO3	<1	<5	<1			
Chloride (Cl)	23	21.3	9	7.8	6.5	10.2
Magnesium (Mg) (DIS)	30.5	27.6	18.4			
Potassium (K) (DIS)	6.5	5.4	4.8			
Sodium (Na) (DIS)	46.7	46.8	36.5			
Sulfate (SO4)	340	320	191	200	120	168

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.05 J	0.006	<0.006	<0.006	0.006 J	<0.008
Arsenic III (dis)	0.008 J		<0.008	0.04 J	<0.008	<0.008
Arsenic V (dis)	0.03		0.01	0.01 J	0.02 J	0.01
Cadmium (Cd) (DIS)	0.01 J	0.008	<0.001	<0.001	<0.002	0.001
Copper (Cu) (DIS)	<0.008	0.006		<0.008	0.01 J	<0.008
Iron (Fe +2) (TOT)	<0.01		<0.001	<0.01	<0.01	
Iron (Fe) (DIS)	0.04	0.005	<0.02			
Lead (Pb) (DIS)	<0.005	<0.002	<0.005	<0.005	<0.02	<0.005 UJ
Manganese (Mn) (DIS)	0.02 J	0.004				
Zinc (Zn) (DIS)	0.02	0.02	<0.008	<0.008	<0.008	<0.008 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.2		4.8	4.9	5.1	4.7
pH	7.9		7.05	7.2	6.9	7.8
Depth To Water Level (ft)	28.3		28.3	33.4	32.7	24.3
pH (Fld)	6.8		6.5	6.3	5.9	7.1
SC (umhos/cm at 25 C) (Fld)	974.5		676.1	624.9	472.5	643.6
SC (umhos/cm at 25 C)	940		650	650	455	610
Total Suspended Solids	13.5					
TDS (Measured at 180 C)	747.6 J	720	458 J	468	383	444 J
Water Temperature (C) (Fld)	10.7		10.8	9.1	11.2	11.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-62	EH-62	EH-62	EH-62	EH-62	EH-62
Water	SAMPLE DATE	4/27/1990	11/30/1990	5/6/1991	11/13/1991	4/23/1992	4/23/1992
	SAMPLE TIME	00:00	00:00	00:00	16:30	10:00	13:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	90-1052	90-2250	91-2675	91-3620	92-4298	92-4311
	SAMPLE NUMBER	AEH-9005-450	AEH-9011-753	AEH-9105-132	AEH-9111-325	AEH-9204-119	AEH-9204-149
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	11.1	19 J	9.7	72	29 J	28 J
	Sulfate (SO4)	124	314 J	68	496	303	307
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.01	0.01	0.006	0.009	<0.004	<0.004
	Arsenic III (dis)	0.01	0.02 U	<0.004 UJ	0.02 U	0.007	0.004
	Arsenic V (dis)	0.02 U	0.006 U	0.02 UJ	0.005 U	0.008	<0.004
	Cadmium (Cd) (DIS)	0.001	<0.001	<0.001	<0.001	0.001	0.001
	Copper (Cu) (DIS)	<0.008	<0.008	<0.004	<0.004	0.004	<0.004
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005 J	<0.005	<0.005
	Zinc (Zn) (DIS)	0.006 U		<0.008	0.02	0.01	0.007
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	5.2	3.9	7.2	7.1	6.9	7.4
	pH	7.8	7.9	7.8	7	7.1	7.3
	Depth To Water Level (ft)	28.3	31.4	32.5	19.7	21.7	26.9
	pH (Fld)	6.4	6.8	7.2	7.6	6.7	6.6
	SC (umhos/cm at 25 C) (Fld)	530.5	949.2	515.6	1415	963	1014
	SC (umhos/cm at 25 C)	530	920	540	1880	1020	990
	TDS (Measured at 180 C)	328	671 J	365	1064 J	704	687
	Water Temperature (C) (Fld)	10.7	9.3	12.6	13.9	11.8	10.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-62	EH-62	EH-62	EH-62	EH-62	EH-62
Water	SAMPLE DATE	11/12/1992	5/4/1993	11/8/1993	11/8/1993	5/10/1994	11/10/1994
	SAMPLE TIME	14:30	08:30	09:00	10:30	15:40	13:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	92-6777	93-7771	93-9204	93-9200	94-1340	94-3275
	SAMPLE NUMBER	EHC-9211-118	EHC-9305-138	EHC-9311-167	EHC-9311-145	EHC-9405-149	EHC-9411-151
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)	140 J	88				
Chloride (Cl)	38	15	28 J	28 J	19	34
Magnesium (Mg) (Dis)	34	21				
Potassium (K) (Dis)	<5	<5				
Sodium (Na) (Dis)	79	59				
Sulfate (SO4)	317 J	205	344 J	360	239 J	415 J
Total Hardness As CaCO3		306				

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.004 JU	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic III (dis)	0.004 UJ	0.02	<0.004	<0.004	<0.004	0.006 U
Arsenic V (dis)	0.01 UJ	0.008 UJ	0.005 J	0.02 UJ	0.009 J	0.006 U
Cadmium (Cd) (DIS)	0.001	0.001	0.001	0.001	0.001	0.001
Copper (Cu) (DIS)	0.005	<0.004	<0.004	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	0.005 JU	<0.005	<0.005	<0.005	<0.005 UJ	<0.005 UJ
Zinc (Zn) (DIS)	<0.006	0.007	<0.006	<0.006	0.007	0.01 U

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.4	7.1	5	5	7	5.9
pH	8.3					
Depth To Water Level (ft)	25.4	28.1	18.6	18.6	22.4	22.6
pH (Fld)	6.8	6.5	6.9	6.9	6.9	7.2
SC (umhos/cm at 25 C) (Fld)	1096	764	1011	1011	861 J	1179
SC (umhos/cm at 25 C)	1100	750	1068 J	1070 J	868 J	1214 J
TDS (Measured at 180 C)	800	531	752	754	582	1032 J
Water Temperature (C) (Fld)	11.3	9.6	10	10	11.4	10.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-62	EH-62	EH-62	EH-62	EH-62	EH-62
Water	SAMPLE DATE	5/9/1995	11/8/1995	5/8/1996	11/7/1996	11/7/1996	5/5/1997
	SAMPLE TIME	14:30	09:00	13:00	13:45	14:00	14:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-4489	95-6100	96-6717	96-7765	96-7753	97-918
	SAMPLE NUMBER	EHC-9505-150	EHC-9511-151	EHC-9605-136	EHC-9611-136	EHC-9611-148	EHC-9705-133
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	22	29	21	29	25	23
	Sulfate (SO4)	332	503 J	356	442	462	380
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.004	<0.004	<0.005	0.004 J	0.004 J	0.008
	Arsenic III (dis)	<0.004	<0.004	<0.005 UJ	<0.004	<0.004	<0.005
	Arsenic V (dis)	<0.004	0.004 J	<0.005 UJ	<0.004	0.005	<0.005
	Cadmium (Cd) (DIS)	0.002	0.001	<0.005	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)	0.006	<0.004	<0.004	<0.004	0.004 J	<0.004
	Lead (Pb) (DIS)	<0.005 J	<0.005 J	<0.005	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	0.01	0.01	<0.02	<0.008	<0.008	<0.02
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	5.7	4.8	5	6.5	6.5	6.7
	pH	7.3	7.5 J	6.9	7.8	7.9	7
	Depth To Water Level (ft)	29.5	19.6	25	23.08	23.08	25.5
	pH (Fld)	7.3	6.8	6.5	7	7	7.1
	SC (umhos/cm at 25 C) (Fld)	347 A	1296	958	1241	1241	1062
	SC (umhos/cm at 25 C)	1060 J	1310	970	1173	1174	1105
	TDS (Measured at 180 C)	713 J	934	740	887	901	848
	Water Temperature (C) (Fld)	11.5	9.8	10	9.6	9.6	11.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-62	EH-62	EH-62	EH-62	EH-62	EH-62
Water	SAMPLE DATE	5/5/1997	11/5/1997	11/5/1997	5/6/1998	11/18/1998	5/8/1999
	SAMPLE TIME	14:15	12:30	12:45	10:50	09:15	10:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	97-925	188-2687	188-2699	261-3771	310-4411	346-4885
	SAMPLE NUMBER	EHC-9705-146	EHC-9711-136	EHC-9711-150	EHC-9805-137	EHC-9811-136	EHC-9905-136
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)				210	222	215 J
Calcium (Ca) (DIS)				134	199	169
Carbonate As CO3						<1 UJ
Chloride (Cl)	25	27	27	26	44	49
Magnesium (Mg) (DIS)				32	47	47
Potassium (K) (DIS)				7 J	6.4	11
Sodium (Na) (DIS)				83	111	123
Sulfate (SO4)	357	553	513	413	643	544
Total Alkalinity As CaCO3				172	182	176 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.008	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.005	<0.005	<0.005	0.005	<0.005	<0.005
Arsenic V (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.004	<0.004	<0.004
Iron (Fe) (DIS)				<0.05	0.05	0.06 UJ
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)				<0.02	<0.02 UJ	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	6.6	5.03	5.2	6.2	4.9	5.3
pH	7	7.1	7	7.2	7	7.3
Depth To Water Level (ft)	25.5	20.9	20.9	28.2	22.8	30.3
Eh (millivolts)					407	432
pH (Fid)	7.3	6.8	6.8	6.7	7.1	6.9
SC (umhos/cm at 25 C) (Fid)	1051	1446	1439	1215	1584	1341
SC (umhos/cm at 25 C)	1106	1275	1293	1176	1585	1476
Total Suspended Solids		<1	<1		<1	
TDS (Measured at 180 C)	848	1022	1018	903	1272	1153
Water Temperature (C) (Fid)	11.5	10.8	10.8	11.2	9.9	10.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-62	EH-62	EH-62	EH-62	EH-62	EH-62
Water	SAMPLE DATE	11/10/1999	11/10/1999	5/2/2000	11/7/2000	5/9/2001	11/6/2001
	SAMPLE TIME	12:15	12:30	11:35	12:15	15:00	14:25
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L992009001	L992009008	L000704004	L001873010	L010691011	L011539009
	SAMPLE NUMBER	EHC-9911-152	EHC-9911-172	EHC-0005-151	EHC-0011-152	EHC-0105-178	EHC-0111-176
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	215	185	195	176 J	135	168
Calcium (Ca) (DIS)	176	176	113	99	36	88
Carbonate As CO3	<1	<1	<1	<1		<1
Chloride (Cl)	60	59	32	30 J	2.5	25 J
Magnesium (Mg) (DIS)	43	44	27	23	8.7	22
Potassium (K) (DIS)	7.7	7.4	5.7	5.2	<5	5.1
Sodium (Na) (DIS)	90	85	76	77	44	85
Sulfate (SO4)	548	540	405	370 J	100	248
Total Alkalinity As CaCO3	176	152	160	144 J	111	138

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)				<0.01	<0.05	<0.05
Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	0.01 U	<0.005
Arsenic III (dis)	0.03 J	<0.005 J	0.01 UJ	<0.02 J	0.01 U	<0.005
Arsenic V (dis)	0.005 U	0.005 U	0.008 U	0.02 U	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	0.006	0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	0.03 UJ	0.02 U	<0.05	<0.02
Lead (Pb) (DIS)	<0.005	0.008 U	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02 UJ	<0.02 UJ	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential						107.6
Oxygen (O) (DIS) (Fld)	4.5	4.5	7.07	12.6	5.1	6.1
pH	7.3	7.8	7.1	7.5	7.8	8.1
Silicon+Silica (Si+SiO2)				25	25	26
Depth To Water Level (ft)	27.2		33.03	34.3	35.05	25.7
Eh (millivolts)	446	451	346	486	350	328
pH (Fld)	7.2	7.1	6.9	7.5	6.8	7.7
SC (umhos/cm at 25 C) (Fld)	1432	1447	1106	1046	417	917
SC (umhos/cm at 25 C)	1470	1470	1119	1036	467	900
Total Suspended Solids	1	1.1			6.1	<1
TDS (Measured at 180 C)	1111	1115	813	742	315	627
Water Temperature (C) (Fld)	11.6	11.6	11.7	9	13.3	11.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-62	EH-62	EH-62	EH-62	EH-62	EH-62
Water	SAMPLE DATE	11/6/2001	5/17/2002	5/17/2002	11/17/2002	6/4/2003	10/29/2003
	SAMPLE TIME	14:30	12:00	12:10	10:00	10:50	08:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011538006	L020370003	L020370004	L020957008	L030256006	L030604014
	SAMPLE NUMBER	EHC-0111-192	EHC-0205-194	EHC-0205-228B	EHC-0211-191	AEH-0306-204	AEH-0310-416
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	163	156	151	159	151	151
Calcium (Ca) (DIS)	89	47	47	47	36	47
Carbonate As CO3	<1	<1	<1	<1	<2	<2
Chloride (Cl)	27	17	14	19	10	19
Magnesium (Mg) (DIS)	22	11	11	11	8.6	12
Potassium (K) (DIS)	5.1	<5	<5	<5	<5	<5
Sodium (Na) (DIS)	82	55	55	48	42	48
Sulfate (SO4)	205	131	142	116	62	114
Total Alkalinity As CaCO3	134	128	124	130	124	124

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05	<0.05	<0.05		
Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	107	72.2	71			
Oxygen (O) (DIS) (Fld)	6.1	6.7	6.7	6.9	8.2	6.84
pH	7.5			7	7.4	7.7
Silicon+Silica (Si+SiO2)	26	22	22			
Depth To Water Level (ft)		31		23.8	23.8	24
Eh (millivolts)	327					
pH (Fld)	7.7	5.2	5.2	6.2	6.4	6.35
SC (umhos/cm at 25 C) (Fld)	915	520	521	445	354	463
SC (umhos/cm at 25 C)	907	581	581	552	445	570
Total Suspended Solids	<1	2	1.6	1 J	6.1	3.4
TDS (Measured at 180 C)	656	388	384	357	291	395
Salinity (G/KG) (Fld)				0.1	0.1	0.1
Turbidity (NTU) (Fld)				1	1	1
Water Temperature (C) (Fld)	11.3	11	11	10.5	10.4	10.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-62	EH-62	EH-62	EH-62	EH-62	EH-62
Water	SAMPLE DATE	5/19/2004	10/27/2004	5/10/2005	11/7/2005	5/1/2006	6/19/2006
	SAMPLE TIME	10:40	10:10	12:55	14:00	14:40	13:55
	LAB	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel	ELI-Hel
	LAB NUMBER	H04050121-003	H04100192-004	C05050399-007	H05110055-006	H06050010-008	H06060187-003
	SAMPLE NUMBER	AEH-0405-113	AEH-0411-129	AEH-0505-106	AEH-0511-105	AEH-0605-107	AEH-0606-102
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	150 UJ	160	152	160	140	140
Calcium (Ca) (DIS)	40	68	52	62	52	41
Chloride (Cl)	14 UJ	30	21	27	25	16
Magnesium (Mg) (DIS)	9	17	13	14	11	10
Potassium (K) (DIS)	4 UJ	5	<5	4	4	4
Sodium (Na) (DIS)	41 UJ	63	53	53	45	35
Sulfate (SO4)	92	249	118	184	115	68
Total Alkalinity As CaCO3	120 UJ	130	124	130	110	110

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	<0.005	<0.002	<0.002	<0.002	<0.002
Arsenic III (dis)	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Arsenic V (dis)	0.002	0.0011	0.001	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.55	5.79	5.99	6.87	5.37	
pH	7.5	7.4	7.23	7.1	7.3	7.4
Depth To Water Level (ft)	25.26	23.68	45.3	24.86	25.61	21.9
pH (Fld)	6.37	6.93	6.99	6.78	6.72	6.73
SC (umhos/cm at 25 C) (Fld)	597	732	555	693	1233 R	449
SC (umhos/cm at 25 C)	402	661	574	673	529	447
Total Suspended Solids	<10 J	<10	43	<10	<10	<10
TDS (Measured at 180 C)	308 UJ	493	365	451	361	277
TDS - Calculated			360			
Salinity (G/KG) (Fld)	0.2					
Water Temperature (C) (Fld)	10.6	10.4	10.6	11.41	11.52	10.49

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-62	EH-62	EH-62	EH-62	EH-62	EH-62
Water	SAMPLE DATE	11/7/2006	4/3/2007	5/10/2007	7/27/2007	7/27/2007	9/5/2007
	SAMPLE TIME	10:40	11:25	10:00	09:00	09:15	08:40
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110064-003	H07040026-002	H07050128-002	H07070291-003	H07070291-004	H07090032-001
	SAMPLE NUMBER	AEH-0611-104	AEH-0703-139	AEH-0705-121	AEH-0707-138	AEH-0707-139	AEH-0709-107
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		No ORP-Pumping				
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	180	170	170	160	160	170
Calcium (Ca) (DIS)	143	89	85	65	65	103
Chloride (Cl)	52	37	37	30	29	45
Magnesium (Mg) (DIS)	32	20	20	15	15	24
Potassium (K) (DIS)	7	5	6	5	5	6
Sodium (Na) (DIS)	92	81	70	54	55	72
Sulfate (SO4)	462	277	252	157	156	347
Total Alkalinity As CaCO3	150	140	140	130	130	140

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.005	0.002	<0.002	<0.002	<0.002	0.003
Arsenic III (DIS)	<0.005	<0.005	<0.001			
Arsenic V (DIS)	<0.005	<0.005	0.001			
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.011	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)		0.122	0.101	0.062	0.061	0.14
Zinc (Zn) (DIS)	<0.02	<0.02	<0.01	<0.01	<0.01	0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	101					90.2
Oxygen (O) (DIS) (Fid)	5.54	5.9	5.44	6.88		6.88
pH	7.1	7.2	7	7.6	7.5	6.9
Depth To Water Level (ft)	21.58	25.98	25.74	22.54		23.88
pH (Fid)	6.73	6.78	6.84	6.9		6.64
SC (umhos/cm at 25 C) (Fid)	1289	926	857	691		1037
SC (umhos/cm at 25 C)	1260	898	832	681	678	1000
Total Suspended Solids	<10 J	<10	13	<10	<10	<10
TDS (Measured at 180 C)	981	647	590	438	453	718
Water Temperature (C) (Fid)	11.85	10.86	10.91	11.06		11.07

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-62	EH-62	EH-62	EH-62	EH-62	EH-62
Water	SAMPLE DATE	11/13/2007	1/25/2008	4/29/2008	4/29/2008	7/14/2008	10/28/2008
	SAMPLE TIME	08:35	10:35	15:25	15:30	15:10	13:30
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07110103-001	H08010206-003	H08040441-008	H08040441-009	H08070284-011	H08100377-006
	SAMPLE NUMBER	AEH-0711-107	AEH-0801-102	AEH-0805-107	AEH-0805-108	AEH-0807-110	AEH-0811-113
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		180	170	170	140	170
Bicarbonate (HCO3) (dis)	180					
Calcium (Ca) (DIS)	119	110	90	89	37	87
Chloride (Cl)	44	37	25	25	<1	24
Magnesium (Mg) (DIS)	27	26	20	20	8	20
Potassium (K) (DIS)	6	6	5	5	3	5
Sodium (Na) (DIS)	78	76	60	59	34	58
Sulfate (SO4)	351	342	240	240	95	260
Total Alkalinity As CaCO3	150	150	140	140	110	140

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005		0.0501 J+	0.0493 J+		<0.005
Selenium-VI (DIS)	0.132 J-		0.0216 J	0.0167 J		0.087
Aluminum (Al) (DIS)			<0.1	<0.1		<0.1
Antimony (Sb) (DIS)			<0.005	<0.005		<0.005
Arsenic (As) (DIS)	0.004	0.004	<0.002	0.003	<0.002	0.002
Arsenic III (DIS)	<0.001		<0.005	<0.005		<0.005
Arsenic V (DIS)	<0.001		<0.005	<0.005		<0.005 J-
Barium (Ba) (DIS)			<0.1	<0.1		<0.1
Beryllium (Be) (DIS)			<0.001	<0.001		<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)			<0.001	<0.001		<0.001
Cobalt (Co) (DIS)			<0.01	<0.01		<0.01
Copper (Cu) (DIS)	0.001	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.003	<0.005	<0.005	<0.005 J	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)			<0.006	<0.006		<0.006
Nickel (Ni) (DIS)			<0.01	<0.01		<0.01
Selenium (Se) (DIS)	0.162	0.149	0.091	0.088	0.014	0.082
Silver (Ag) (DIS)			<0.005	<0.005		<0.005
Thallium (Tl) (DIS)			<0.002	<0.002		<0.002
Vanadium (V) (DIS)			<0.01	<0.01		<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	0.01	<0.01	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.63	4.93	5.31	5.31	4.06	5.38
pH	6.9	7.3	7.2	7.3	7.2	7.3
Depth To Water Level (ft)	23.92	28.29	30.11		22.81	26.08
pH (Fld)	6.8	6.79	6.81	6.81	6.8	7.16
SC (umhos/cm at 25 C) (Fld)	1125	1099	837	837	463	814

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-62	EH-62	EH-62	EH-62	EH-62	EH-62
Water	SAMPLE DATE	11/13/2007	1/25/2008	4/29/2008	4/29/2008	7/14/2008	10/28/2008
	SAMPLE TIME	08:35	10:35	15:25	15:30	15:10	13:30
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07110103-001	H08010206-003	H08040441-008	H08040441-009	H08070284-011	H08100377-006
	SAMPLE NUMBER	AEH-0711-107	AEH-0801-102	AEH-0805-107	AEH-0805-108	AEH-0807-110	AEH-0811-113
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		
<b>Physical/Fid-Lab: ppm unless noted</b>							
	SC (umhos/cm at 25 C)	1110	1070	808	807	439	791
	Total Suspended Solids	<10 J	<10	<10	<10	<10	<10
	TDS (Measured at 180 C)	788	746	549	552	288	558
	Water Temperature (C) (Fld)	10.98	10.9	11.4	11.4	11.1	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-62	EH-62	EH-62	EH-63	EH-63
Water	SAMPLE DATE	2/3/2009	2/3/2009	5/5/2009	7/10/2001	12/6/2001
	SAMPLE TIME	08:30	08:45	16:00	14:20	13:15
	LAB	ELI	ELI	ELI	TSC-SLC	TSC-SLC
	LAB NUMBER	H09020024-012	H09020024-013	H09050115-014	L011005011	L011627003
	SAMPLE NUMBER	AEH-0902-111	AEH-0902-112	AEH-0905-122	EHC-0107-111	EHC-0111-222
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	160	160	140	115	134
Calcium (Ca) (DIS)	56	56	39	30	49
Carbonate As CO3				<1	<1
Chloride (Cl)	15	15	12	7.5	25
Magnesium (Mg) (DIS)	12	12	9	6.1	11
Potassium (K) (DIS)	4	4	4	<5	<5
Sodium (Na) (DIS)	48	48	34	36	52
Sulfate (SO4)	150	150	93	66	125
Total Alkalinity As CaCO3	130	130	120	94	110

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.1	<0.05	<0.05
Antimony (Sb) (DIS)			<0.003		
Arsenic (As) (DIS)	<0.002	<0.002	<0.005	0.006	<0.005
Arsenic III (dis)				<0.005	<0.005
Arsenic V (dis)				<0.005	<0.005
Barium (Ba) (DIS)			<0.1		
Beryllium (Be) (DIS)			<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)			<0.001		
Cobalt (Co) (DIS)			<0.0005		
Copper (Cu) (DIS)	<0.004	<0.004	<0.001	<0.004	<0.004
Gold (Au) (DIS)			<0.01 UJ		
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.02	<0.02
Mercury (Hg) (DIS)			<0.0001		
Nickel (Ni) (DIS)			<0.01		
Selenium (Se) (DIS)	0.043	0.043	0.015		
Silver (Ag) (DIS)			<0.005		
Tellurium (Te) (DIS)			<0.1		
Thallium (Tl) (DIS)			<0.001		
Vanadium (V) (DIS)			<0.01		
Zinc (Zn) (DIS)	<0.02	<0.02	<0.01	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential					243
Oxygen (O) (DIS) (Fld)	5.73		7.63	6.4	3.9
pH	7.2	7.2	7.4	7.7	7.8
Silicon+Silica (Si+SiO2)				24	23
Depth To Water Level (ft)	28.82		29.1	21.5	24.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-62	EH-62	EH-62	EH-63	EH-63
Water	SAMPLE DATE	2/3/2009	2/3/2009	5/5/2009	7/10/2001	12/6/2001
	SAMPLE TIME	08:30	08:45	16:00	14:20	13:15
	LAB	Hydrometrics	ELI	Hydrometrics	TSC-SLC	TSC-SLC
	LAB NUMBER	H09020024-012	H09020024-013	H09050115-014	L011005011	L011627003
	SAMPLE NUMBER	AEH-0902-111	AEH-0902-112	AEH-0905-122	EHC-0107-111	EHC-0111-222
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Field Duplicate			

**Physical/Fld-Lab: ppm unless noted**

Eh (millivolts)					517.2	489
pH (Fld)	6.78			6.86	7.2	7.7
SC (umhos/cm at 25 C) (Fld)	622			471	404	540
SC (umhos/cm at 25 C)	641	644		480	356	583
Total Suspended Solids	<10	<10		<10 J	10	126
TDS (Measured at 180 C)	405	402		308	240	384
Water Temperature (C) (Fld)	11.1			10.8	11.8	10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-63	EH-63	EH-63	EH-63	EH-63	EH-63
Water	SAMPLE DATE	5/17/2002	11/18/2002	6/3/2003	10/28/2003	5/19/2004	10/26/2004
	SAMPLE TIME	15:00	08:00	11:45	08:00	15:00	15:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	L020370005	L020959001	L030247005	L030601012	H04050121-011	H04100182-013
	SAMPLE NUMBER	EHC-0205-195	EHC-0211-170	AEH-0306-188	AEH-0310-392	AEH-0405-121	AEH-0411-122
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	127	127	122	120	130 UJ	130
Calcium (Ca) (DIS)	42	45	38	46	40	56
Carbonate As CO3	<1	<1	<2	<2		
Chloride (Cl)	14	21	19	20	14 UJ	20
Magnesium (Mg) (DIS)	8.7	9.1	7.9	9.7	8	11
Potassium (K) (DIS)	<5	<5	<5	<5	5 UJ	5
Sodium (Na) (DIS)	42	42	36	38	36 UJ	51
Sulfate (SO4)	112	92	69	105	95	157
Total Alkalinity As CaCO3	104	104	100	98	110 UJ	100

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05 J				
Arsenic (As) (DIS)	<0.005	<0.005 J	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001
Arsenic V (dis)	<0.005	<0.005	<0.005	<0.005	0.0025	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02 J	<0.02	<0.02	<0.01	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.05	<0.01	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	50.6					
Oxygen (O) (DIS) (Fld)	6.7	7.5	8.4	6.15	0.24	4.69
pH		6.6	7.3	7.8	7.3	7.2
Silicon+Silica (Si+SiO2)	20	20				
Depth To Water Level (ft)	25.2	19.01	19.2	19.32	20.43	18.48
pH (Fld)	6.2	5.6	6.8	6.21	6.29	6.95
SC (umhos/cm at 25 C) (Fld)	436	416	385	415	557	613
SC (umhos/cm at 25 C)	474	508	444	516	360	583
Total Suspended Solids	5	24	6.2	10 J	19 J	125
TDS (Measured at 180 C)	321	334	298	349	291 UJ	440
Salinity (G/KG) (Fld)		0.1	0.1	0.1	0.2	
Turbidity (NTU) (Fld)		34	6	21		
Water Temperature (C) (Fld)	11	10.9	10.8	11.1	11.4	11.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-63	EH-63	EH-63	EH-63	EH-63	EH-63
Water	SAMPLE DATE	5/11/2005	11/8/2005	5/4/2006	6/21/2006	11/8/2006	4/3/2007
	SAMPLE TIME	10:25	08:50	09:10	13:35	08:00	12:15
	LAB	ELI-Casper	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI
	LAB NUMBER	C05050444-003	H05110071-001	H06050056-001	H06060220-001	H06110070-001	H07040026-006
	SAMPLE NUMBER	AEH-0505-115	AEH-0511-110	AEH-0605-138	AEH-0606-131	AEH-0611-115	AEH-0703-143
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						No ORP-Pumping
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	130	120	130	120	160	150
Calcium (Ca) (DIS)	53	69	58	46 J	123	92
Chloride (Cl)	17	29	20	16	38	37
Magnesium (Mg) (DIS)	11	14	12	9 J	26	18
Potassium (K) (DIS)	5	6	6	5 J	8	7
Sodium (Na) (DIS)	43	53	43	36	86	71
Sulfate (SO4)	124	212	137	129	434	253
Total Alkalinity As CaCO3	106	99	110	100	130	120

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	0.005	0.002
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	0.006	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	0.02 UJ J	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.01 J	<0.01	<0.01
Selenium (Se) (DIS)						0.119
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02 J	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					108.7	
Oxygen (O) (DIS) (Fld)	4.71	6.56	5.14	2.66	4.87	5.93
pH	7.11	7	7	7	7.2	7
Depth To Water Level (ft)	23.81	19.41	20.66	17.37	17.4	21.35
pH (Fld)	6.92	6.6	6.13	6.42	6.6	6.26
SC (umhos/cm at 25 C) (Fld)	528	674	557	544	1143	903
SC (umhos/cm at 25 C)	524	683	589	488	955	880
Total Suspended Solids	40 J	168	21	52	34	84
TDS (Measured at 180 C)	332	464	364	334	815	634
TDS - Calculated	340					
Water Temperature (C) (Fld)	10.6	11.31	11.33	11.91	11.34	11.33

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-63	EH-63	EH-63	EH-63	EH-63	EH-63
Water	SAMPLE DATE	5/10/2007	7/26/2007	9/5/2007	9/5/2007	11/13/2007	11/13/2007
	SAMPLE TIME	10:45	13:45	10:55	11:00	10:00	10:10
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07050128-004	H07070280-010	H07090032-006	H07090032-007	H07110103-003	H07110103-004
	SAMPLE NUMBER	AEH-0705-123	AEH-0707-133	AEH-0709-111	AEH-0709-112	AEH-0711-109	AEH-0711-110
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)		150	140	140	140		
Bicarbonate (HCO3) (dis)						140	140
Calcium (Ca) (DIS)		79	70	73	73	78	78
Chloride (Cl)		30	21	21	21	27	25
Magnesium (Mg) (DIS)		16	14	14	15	16	16
Potassium (K) (DIS)		6	6	6	6	6	6
Sodium (Na) (DIS)		57	52	55	54	59	60
Sulfate (SO4)		239	189	269	238	284	284
Total Alkalinity As CaCO3		120	120	120	120	120	120
<b>Metals (mg/L): ppm unless noted</b>							
Selenium-IV (DIS)						<0.005	<0.005
Selenium-VI (DIS)						0.0815 J-	0.0803 J-
Arsenic (As) (DIS)		<0.002	0.002 UJ	0.002	0.003	<0.002	0.002
Arsenic III (DIS)		<0.001				<0.001	<0.001
Arsenic V (DIS)		0.0012				<0.001	0.0019
Cadmium (Cd) (DIS)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)		<0.004	<0.004	<0.004	<0.004	<0.001	<0.001
Iron (Fe) (DIS)		<0.02	<0.02	0.03	<0.02	0.02	<0.01
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.003	<0.003
Manganese (Mn) (DIS)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)		0.089	0.067	0.09	0.09	0.097	0.097
Zinc (Zn) (DIS)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxidation Reduction Potential				109.8			
Oxygen (O) (DIS) (Fld)		5.1	6.06	5.05		6.36	
pH		7.4	7.3	7	7	6.9	6.8
Depth To Water Level (ft)		21.22	17.75	18.58		19.28	
pH (Fld)		6.74	6.77	6.65		6.83	
SC (umhos/cm at 25 C) (Fld)		784	688	752		797	
SC (umhos/cm at 25 C)		766	684	735	741	803	802
Total Suspended Solids		308	34	<10	<10	27 J	41 J
TDS (Measured at 180 C)		550	461	502	504	542	552
Water Temperature (C) (Fld)		11.92	11.47	11.1		11.66	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-63	EH-63	EH-63	EH-63	EH-63	EH-63
Water	SAMPLE DATE	1/25/2008	4/29/2008	7/14/2008	10/28/2008	2/3/2009	5/6/2009
	SAMPLE TIME	12:25	11:10	16:00	10:50	08:55	08:35
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08010206-004	H08040441-003	H08070284-012	H08100377-003	H09020024-015	H09050142-001
	SAMPLE NUMBER	AEH-0801-103	AEH-0805-102	AEH-0807-111	AEH-0811-110	AEH-0902-114	AEH-0905-123
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	130	130	120	120	120	110	
Calcium (Ca) (DIS)	60	46	32	42	38	32	
Chloride (Cl)	22	11	<1	13	13	7	
Magnesium (Mg) (DIS)	12	9	6	9	7	7	
Potassium (K) (DIS)	5	5	4	5	4	4	
Sodium (Na) (DIS)	50	34	29	35	33	27	
Sulfate (SO4)	167	96	77	100	85	66	
Total Alkalinity As CaCO3	110	100	96	96	96	92	
<b>Metals (mg/L): ppm unless noted</b>							
Selenium-IV (DIS)		0.0111 J+		<0.005			
Selenium-VI (DIS)		<0.005 J		0.016			
Aluminum (Al) (DIS)		<0.1		<0.1		<0.1	
Antimony (Sb) (DIS)		<0.005		<0.005		<0.003	
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	
Arsenic III (DIS)		<0.005		<0.005			
Arsenic V (DIS)		<0.005		<0.005 J-			
Barium (Ba) (DIS)		<0.1		<0.1		<0.1	
Beryllium (Be) (DIS)		<0.001		<0.001		<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chromium (Cr) (DIS)		<0.001		<0.001		<0.001	
Cobalt (Co) (DIS)		<0.01		<0.01		<0.0005	
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.001	
Gold (Au) (DIS)						<0.01 UJ	
Iron (Fe) (DIS)	<0.02	<0.02	0.03	<0.02	<0.02	<0.02	
Lead (Pb) (DIS)	<0.005	<0.005 J	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Mercury (Hg) (DIS)		<0.006		<0.006		<0.0001	
Nickel (Ni) (DIS)		<0.01		<0.01		<0.01	
Selenium (Se) (DIS)	0.056	0.017	0.008	0.018	0.013	0.006	
Silver (Ag) (DIS)		<0.005		<0.005 J		<0.005	
Tellurium (Te) (DIS)						<0.1	
Thallium (Tl) (DIS)		<0.002		<0.002		<0.001	
Vanadium (V) (DIS)		<0.01		<0.01		<0.01	
Zinc (Zn) (DIS)	<0.01	0.01	<0.01	<0.02	<0.02	<0.01 J	
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	4.76	3.95	4.05	6.14	5.71	4.33	
pH	7	7.1	7.1	7.2	7.1	7.4	
Depth To Water Level (ft)	23.49	24.82	18.77	20.56	23.21	23.78	
pH (Fld)	6.86	6.69	6.76	6.91	6.75	6.71	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-63	EH-63	EH-63	EH-63	EH-63	EH-63
Water	SAMPLE DATE	1/25/2008	4/29/2008	7/14/2008	10/28/2008	2/3/2009	5/6/2009
	SAMPLE TIME	12:25	11:10	16:00	10:50	08:55	08:35
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H08010206-004	H08040441-003	H08070284-012	H08100377-003	H09020024-015	H09050142-001
	SAMPLE NUMBER	AEH-0801-103	AEH-0805-102	AEH-0807-111	AEH-0811-110	AEH-0902-114	AEH-0905-123
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	667	454	396	438	432	354
SC (umhos/cm at 25 C)	652	445	373	429	450	361
Total Suspended Solids	79	10	309	495	<10	<10
TDS (Measured at 180 C)	421	279	248	294	278	229
Water Temperature (C) (Fid)	11	11.8	14	12.4	11.4	10.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-64	EH-64	EH-64	EH-64	EH-64	EH-64
Water	SAMPLE DATE	7/10/2001	12/6/2001	5/17/2002	11/17/2002	6/4/2003	10/28/2003
	SAMPLE TIME	15:00	12:10	16:00	15:00	15:20	11:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011005012	L011627002	L020370006	L020957003	L030256016	L030601020
	SAMPLE NUMBER	EHC-0107-112	EHC-0111-221	EHC-0205-196	EHC-0211-193	AEH-0306-214	AEH-0310-400
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	183	168	156	179	176	210
Calcium (Ca) (DIS)	106	83	66	84	74	80
Carbonate As CO3	<1	<1	<1	<1	<2	<2
Chloride (Cl)	60	45	28	57	45	39
Magnesium (Mg) (DIS)	25	20	15	19	17	19
Potassium (K) (DIS)	7	5.6	5.5	6	6.8	6.6
Sodium (Na) (DIS)	93	84	75	78	79	72
Sulfate (SO4)	321	507	209	256	235	237
Total Alkalinity As CaCO3	150	138	128	147	144	172

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05	<0.05	<0.05		
Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential		167.8	51			
Oxygen (O) (DIS) (Fld)	9.7	5.5	7.5	8.5	9.4	6.55
pH	7.7	7.8		6.9	7.4	7.8
Silicon+Silica (Si+SiO2)	26	26	22	23		
Depth To Water Level (ft)	28	30.8	31.7	25.9	25.4	25.28
Eh (millivolts)	507.5	414				
pH (Fld)	7.02	7.4	5.7	6.4	6.4	6.25
SC (umhos/cm at 25 C) (Fld)	1109	900	735	740	727	738
SC (umhos/cm at 25 C)	1084	936	798	939	898	921
Total Suspended Solids	127	261	21	109	29	33 J
TDS (Measured at 180 C)	761	643	531	634	611	624
Salinity (G/KG) (Fld)				0.3	0.3	0.3
Turbidity (NTU) (Fld)				26	11	42
Water Temperature (C) (Fld)	11.9	11.4	12.2	12	10.8	12

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-64	EH-64	EH-64	EH-64	EH-64	EH-64
Water	SAMPLE DATE	5/19/2004	10/26/2004	5/10/2005	11/7/2005	5/2/2006	6/20/2006
	SAMPLE TIME	14:50	14:10	13:35	15:15	12:05	11:20
	LAB	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel	ELI-Hel
	LAB NUMBER	H04050121-010	H04100182-011	C05050399-009	H05110055-008	H06050019-010	H06060201-008
	SAMPLE NUMBER	AEH-0405-120	AEH-0411-120	AEH-0505-108	AEH-0511-107	AEH-0605-120	AEH-0606-115
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	220	170	161	170	170	170
Calcium (Ca) (DIS)	87	100	111	118	129	124
Chloride (Cl)	44	70	56	78	80	50
Magnesium (Mg) (DIS)	20	24	25	27	29	28
Potassium (K) (DIS)	7 UJ	6	7	7	8	8
Sodium (Na) (DIS)	74	90	97	92	110	101
Sulfate (SO4)	290	230	346	444	454	483
Total Alkalinity As CaCO3	180	140	132	140	140	140

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	<0.005	<0.002	<0.004	<0.002	0.003
Arsenic III (dis)	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Arsenic V (dis)	0.0022	<0.001	0.004	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.005 J	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	0.03	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.17	6.27	6.36	7.12	4.1	3.82
pH	7.2	7.3	7.06	6.9	7.2	7
Depth To Water Level (ft)	26.59	24.49	30.23	25.52	26.98	23.3
pH (Fld)	6.28	6.91	6.77	6.52	6.46	6.54
SC (umhos/cm at 25 C) (Fld)	950	1057	1139	1201	1362	1300
SC (umhos/cm at 25 C)	771	960	1170	1260	1210	1180
Total Suspended Solids	<10 J	24	43	59	176	13
TDS (Measured at 180 C)	647	678	796	936	959	918
TDS - Calculated			746			
Salinity (G/KG) (Fld)	0.4					
Water Temperature (C) (Fld)	11.6	12.2	11	12.65	11.76	12.14

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-64	EH-64	EH-64	EH-64	EH-64	EH-64
Water	SAMPLE DATE	11/7/2006	11/7/2006	4/3/2007	4/3/2007	5/10/2007	7/25/2007
	SAMPLE TIME	13:10	13:20	11:50	11:55	10:20	14:45
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110064-008	H06110064-009	H07040026-004	H07040026-005	H07050128-003	H07070259-010
	SAMPLE NUMBER	AEH-0611-109	AEH-0611-110	AEH-0703-141	AEH-0703-142	AEH-0705-122	AEH-0707-121
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI		RI	RI	RI
	DESCRIPTION			No ORP-Pumping			
	REMARKS		Field Duplicate		Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	180	200	180	190	180	220
Calcium (Ca) (DIS)	167	169	157	162	153	162
Chloride (Cl)	72	82	67	72	62	110
Magnesium (Mg) (DIS)	36	37	35	34	33	36
Potassium (K) (DIS)	9	9	9	9	8	6
Sodium (Na) (DIS)	124	123	139	138	124	111
Sulfate (SO4)	626	565	549	553	557	429
Total Alkalinity As CaCO3	150	160	150	150	150	180

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.007	0.006	0.003	0.004	0.003	0.004 UJ
Arsenic III (DIS)	<0.005	<0.005	<0.005	<0.005	<0.001	
Arsenic V (DIS)	<0.005	<0.005	<0.005	<0.005	<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.005	0.006	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)			0.242	0.247	0.238	0.211
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	94.6					
Oxygen (O) (DIS) (Fid)	5.78		5.69		4.9	7.09
pH	7	7	7	7.1	7	7.2
Depth To Water Level (ft)	23.21		27.37		27.34	23.57
pH (Fid)	6.6		6.73		6.68	6.75
SC (umhos/cm at 25 C) (Fid)	1538		1496		1522	1532
SC (umhos/cm at 25 C)	1480	1470	1470	1480	1460	1410
Total Suspended Solids	25 J	156 J	38	28	44	13
TDS (Measured at 180 C)	1160	1150	1160	1150	1140	1080
Water Temperature (C) (Fid)	12.74		11.5		12	12.98

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-64	EH-64	EH-64	EH-64	EH-64	EH-64
Water	SAMPLE DATE	9/5/2007	11/13/2007	1/30/2008	1/30/2008	5/1/2008	7/15/2008
	SAMPLE TIME	11:25	11:45	10:30	10:45	10:15	09:00
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07090032-008	H07110103-005	H08010227-002	H08010227-003	H08050019-007	H08070318-007
	SAMPLE NUMBER	AEH-0709-113	AEH-0711-111	AEH-0801-111	AEH-0801-112	AEH-0805-127	AEH-0807-119
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	200		200	200	180	190
Bicarbonate (HCO3) (dis)		200				
Calcium (Ca) (DIS)	153	156	153	154	135	103
Chloride (Cl)	67	67	57	52	39	38
Magnesium (Mg) (DIS)	34	35	34	34	29	22
Potassium (K) (DIS)	8	8	8	9	7	7
Sodium (Na) (DIS)	120	118	127	128	117	99
Sulfate (SO4)	552	563	560	572	470	380
Total Alkalinity As CaCO3	170	160	170	160	150	160

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005			0.0874 J+	
Selenium-VI (DIS)		0.187 J-			0.059 J	
Aluminum (Al) (DIS)					<0.1	
Antimony (Sb) (DIS)					<0.005	
Arsenic (As) (DIS)	0.005	0.004	0.006	0.007	0.004	0.003
Arsenic III (DIS)		<0.001			<0.005	
Arsenic V (DIS)		<0.001			<0.005	
Barium (Ba) (DIS)					<0.1	
Beryllium (Be) (DIS)					<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)					<0.001	
Cobalt (Co) (DIS)					<0.01	
Copper (Cu) (DIS)	<0.004	0.001	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.03	<0.01	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.003	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)					<0.006	
Nickel (Ni) (DIS)					<0.01	
Selenium (Se) (DIS)	0.24	0.237	0.246	0.248	0.2	0.142
Silver (Ag) (DIS)					<0.005	
Thallium (Tl) (DIS)					<0.002	
Vanadium (V) (DIS)					<0.01	
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	118.2					
Oxygen (O) (DIS) (Fld)	5.19	5.53	4.61		4.82	6.76
pH	7	6.9	7.2	7.1	7.3	7
Depth To Water Level (ft)	24.51	25.19	29.63		31.05	24.75
pH (Fld)	6.6	6.77	6.74		6.68	6.71

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-64	EH-64	EH-64	EH-64	EH-64	EH-64
Water	SAMPLE DATE	9/5/2007	11/13/2007	1/30/2008	1/30/2008	5/1/2008	7/15/2008
	SAMPLE TIME	11:25	11:45	10:30	10:45	10:15	09:00
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	ELI	Hydrometrics	Hydrometrics
	LAB NUMBER	H07090032-008	H07110103-005	H08010227-002	H08010227-003	H08050019-007	H08070318-007
	SAMPLE NUMBER	AEH-0709-113	AEH-0711-111	AEH-0801-111	AEH-0801-112	AEH-0805-127	AEH-0807-119
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)	1539	1517	1608		1349	1155
SC (umhos/cm at 25 C)	1470	1520	1510	1500	1240	1080
Total Suspended Solids	14	12 J	11	15	<10	74
TDS (Measured at 180 C)	1120	1170	1130	1140	955	813
Water Temperature (C) (Fld)	11.89	12.62	12.5		12.1	12.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-64	EH-64	EH-64	EH-65	EH-65
Water	SAMPLE DATE	10/29/2008	2/3/2009	5/6/2009	7/10/2001	12/6/2001
	SAMPLE TIME	14:50	13:50	13:40	15:30	11:30
	LAB	ELI	ELI	ELI	TSC-SLC	TSC-SLC
	LAB NUMBER	H08100394-012	H09020036-002	H09050142-012	L011005013	L011627001
	SAMPLE NUMBER	AEH-0811-131	AEH-0902-121	AEH-0905-134	EHC-0107-113	EHC-0111-220
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					
<b>Common Ions (mg/L): ppm unless noted</b>						
Bicarbonate (HCO3)		190	180	160	144	173
Calcium (Ca) (DIS)		111	105	73	61	80
Carbonate As CO3					<1	<1
Chloride (Cl)		39	37	29	50	97
Magnesium (Mg) (DIS)		26	23	16	16	21
Potassium (K) (DIS)		7	7	6	7.3	8
Sodium (Na) (DIS)		101	111	86	192	210
Sulfate (SO4)		430	400	270	393	469
Total Alkalinity As CaCO3		150	150	130	118	142
<b>Metals (mg/L): ppm unless noted</b>						
Selenium-IV (DIS)		0.006 J				
Selenium-VI (DIS)		0.114 J				
Aluminum (Al) (DIS)		<0.1		<0.1	<0.05	<0.05
Antimony (Sb) (DIS)		<0.005		<0.003		
Arsenic (As) (DIS)		0.003	0.003	<0.005	<0.005	0.01
Arsenic III (DIS)		<0.005			<0.005	<0.005
Arsenic V (DIS)		<0.005 J-			<0.005	0.007
Barium (Ba) (DIS)		<0.1		<0.1		
Beryllium (Be) (DIS)		<0.001		<0.001		
Cadmium (Cd) (DIS)		<0.001	<0.001	<0.001	<0.001	0.001
Chromium (Cr) (DIS)		<0.001		<0.001		
Cobalt (Co) (DIS)		<0.01		<0.0005		
Copper (Cu) (DIS)		<0.004	<0.004	<0.001	0.004	<0.004
Gold (Au) (DIS)				<0.01 UJ		
Iron (Fe) (DIS)		<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		<0.01	<0.01	<0.01	1.5	1.1
Mercury (Hg) (DIS)		<0.006		<0.0001		
Nickel (Ni) (DIS)		<0.01		<0.01		
Selenium (Se) (DIS)		0.162	0.143	0.084		
Silver (Ag) (DIS)		<0.005 J		<0.005		
Tellurium (Te) (DIS)				<0.1		
Thallium (Tl) (DIS)		<0.002		<0.001		
Vanadium (V) (DIS)		<0.01		<0.01		
Zinc (Zn) (DIS)		<0.02	<0.02	<0.01 J	<0.02	<0.02
<b>Physical/Fld-Lab: ppm unless noted</b>						
Oxidation Reduction Potential						175.3
Oxygen (O) (DIS) (Fld)		6.34	5.18	5.44	4.4	0.3
pH		7.2	7	7.4	7.2	7.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-64	EH-64	EH-64	EH-65	EH-65
Water	SAMPLE DATE	10/29/2008	2/3/2009	5/6/2009	7/10/2001	12/6/2001
	SAMPLE TIME	14:50	13:50	13:40	15:30	11:30
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	TSC-SLC	TSC-SLC
	LAB NUMBER	H08100394-012	H09020036-002	H09050142-012	L011005013	L011627001
	SAMPLE NUMBER	AEH-0811-131	AEH-0902-121	AEH-0905-134	EHC-0107-113	EHC-0111-220
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

Silicon+Silica (Si+SiO2)					40	37
Depth To Water Level (ft)	20.56	29.36	30.07		26.7	20.4
Eh (millivolts)					480.7	422
pH (Fld)	7.02	6.63	6.61		6.7	7.8
SC (umhos/cm at 25 C) (Fld)	1168	1150	908		1251	1306
SC (umhos/cm at 25 C)	1150	1170	911		1216	1447
Total Suspended Solids	<10 J	<10	<10		63	6.6
TDS (Measured at 180 C)	813	795	626		856	1010
Water Temperature (C) (Fld)	12.2	12.3	11.3		11.9	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-65	EH-65	EH-65	EH-65	EH-65	EH-65
Water	SAMPLE DATE	5/17/2002	11/17/2002	6/4/2003	10/28/2003	5/19/2004	10/26/2004
	SAMPLE TIME	16:30	11:20	15:00	11:00	13:15	16:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	L020370007	L020956009	L030256015	L030601019	H04050121-008	H04100182-015
	SAMPLE NUMBER	EHC-0205-197	EHC-0211-194	AEH-0306-213	AEH-0310-399	AEH-0405-118	AEH-0411-124
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	163	166	181	178	190 UJ	190
Calcium (Ca) (DIS)	80	106	101	124	121	132
Carbonate As CO3	<1	<1	<2	<2		
Chloride (Cl)	81	122	127	127	120	100
Magnesium (Mg) (DIS)	21	27	27	33	31	35
Potassium (K) (DIS)	7.9	10	10	12	12	10
Sodium (Na) (DIS)	207	217	218	209	233	248
Sulfate (SO4)	524	566	568	657	710	630
Total Alkalinity As CaCO3	134	136	148	146	160 UJ	160

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05				
Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001
Arsenic V (dis)	<0.005	<0.005	<0.005	<0.005	0.0073	0.0014
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.007	0.006 UJ	0.008	0.007	0.005 UJ	0.005
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3	3.2	4.8	4.6	4.82	4.26
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.05	<0.01	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	85					
Oxygen (O) (DIS) (Fld)	1.9	3.7	0.2	0.36	0.54	0.83
pH		6.7	7	7.8	6.8	6.8
Silicon+Silica (Si+SiO2)	34	36				
Depth To Water Level (ft)	31.5	22.8	24.2	22.95	25.24	21.99
pH (Fld)	5.4	5.9	6.2	5.94	5.92	6.52
SC (umhos/cm at 25 C) (Fld)	1460	1640	1680	1830	1920	1948
SC (umhos/cm at 25 C)	1495	1675	1701	1874	1510	1810
Total Suspended Solids	2.6	18 J	12	23 J	<10 J	38
TDS (Measured at 180 C)	1063	1159	1221	1405	1350	1430
Salinity (G/KG) (Fld)		0.7	0.7	0.8	0.8	
Turbidity (NTU) (Fld)		8	3	9		
Water Temperature (C) (Fld)	11.8	12.1	11	12.4	11.5	12.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-65	EH-65	EH-65	EH-65	EH-65	EH-65
Water	SAMPLE DATE	5/10/2005	11/8/2005	5/2/2006	6/20/2006	11/7/2006	3/28/2007
	SAMPLE TIME	14:05	10:00	11:05	10:25	12:50	13:10
	LAB	ELI-Casper	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI
	LAB NUMBER	C05050399-010	H05110071-003	H06050019-006	H06060201-004	H06110064-007	H07030232-010
	SAMPLE NUMBER	AEH-0505-109	AEH-0511-112	AEH-0605-116	AEH-0606-111	AEH-0611-108	AEH-0703-121
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	178	190	200	210	230	220
Calcium (Ca) (DIS)	129	138	116	119	114	106
Chloride (Cl)	114	110	105	92	93	87
Magnesium (Mg) (DIS)	34	36	30	30	28	28
Potassium (K) (DIS)	10	11	11	10	11	10
Sodium (Na) (DIS)	260	247	236	217	222	247
Sulfate (SO4)	690	695	620	643	571	536
Total Alkalinity As CaCO3	146	160	160	170	190	180

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.007	0.006	0.012	0.007	0.008	0.01
Arsenic III (dis)	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	0.005	<0.005	0.01	0.006	<0.005	0.006
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	0.002	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	0.005	0.007	0.005	0.009	0.005
Iron (Fe) (DIS)	<0.02	<0.02	0.07	<0.02	0.03	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	7.83	5.49	6.44	5.36	3.73	5.34
Selenium (Se) (DIS)						0.032
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential					108	125.3
Oxygen (O) (DIS) (Fld)	0.09	1	1.27	2.71	2.15	0.57
pH	6.63	6.6	6.7	6.7	6.8	6.7
Depth To Water Level (ft)	28.23	22.93	25.32	21.58	20.51	25.18
pH (Fld)	6.57	6.34	6.1	6.18	6.33	6.45
SC (umhos/cm at 25 C) (Fld)	1951	1920	1883	1792	1738	1824
SC (umhos/cm at 25 C)	1980	1880	1600	1650	1670	1670
Total Suspended Solids	6.5	34	14	28	<10 J	103
TDS (Measured at 180 C)	1400	1360	1320	1320	1270	1220
TDS - Calculated	1360					
Water Temperature (C) (Fld)	10.9	12.34	11.69	11.4	12.98	10.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-65	EH-65	EH-65	EH-65	EH-65	EH-65
Water	SAMPLE DATE	5/22/2007	7/25/2007	9/6/2007	11/13/2007	1/31/2008	5/6/2008
	SAMPLE TIME	15:00	10:15	14:25	12:20	00:00	14:30
	LAB	ELI	ELI	ELI	ELI	Hydrometrics	ELI
	LAB NUMBER	H07050262-009	H07070259-003	H07090052-010	H07110103-006	AEH-0801-134	H08050097-015
	SAMPLE NUMBER	AEH-0705-214	AEH-0707-114	AEH-0709-128	AEH-0711-112	AEH-0801-134	AEH-0805-164
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION			Split w/EPA		Samp-Under Snow	
	REMARKS					No Sample	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	220	230	250			220
Bicarbonate (HCO3) (dis)				150		
Calcium (Ca) (DIS)	99	101	107	101		100
Chloride (Cl)	87	87	85	85		78
Magnesium (Mg) (DIS)	25	26	27	26		26
Potassium (K) (DIS)	10	7	10	10		10
Sodium (Na) (DIS)	238	209	217	213		227
Sulfate (SO4)	554	495	517	623		540
Total Alkalinity As CaCO3	180	190	200	120		180

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005			<0.005 A		<0.005 J
Selenium-VI (DIS)	0.0128			0.0166 A		0.0128 J
Aluminum (Al) (DIS)						<0.1
Antimony (Sb) (DIS)						<0.005
Arsenic (As) (DIS)	0.014	0.01 UJ	0.01 UJ	0.014		0.068
Arsenic III (DIS)	<0.005			<0.001		<0.005
Arsenic V (DIS)	<0.005			0.0117		0.077
Barium (Ba) (DIS)						<0.1
Beryllium (Be) (DIS)						<0.001
Cadmium (Cd) (DIS)	0.001	<0.001	<0.001	<0.001		<0.001
Chromium (Cr) (DIS)						0.001
Cobalt (Co) (DIS)						<0.01
Copper (Cu) (DIS)	0.005	0.005 UJ	0.006	0.005		0.005
Iron (Fe) (DIS)	0.03	<0.02	0.04 UJ	0.03		<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.003		<0.005
Manganese (Mn) (DIS)	5.84	4.55	4.02	5.04		5.85
Mercury (Hg) (DIS)						<0.006
Nickel (Ni) (DIS)						0.01
Selenium (Se) (DIS)	0.013	0.027	0.027	0.028		0.026
Silver (Ag) (DIS)						<0.005
Thallium (Tl) (DIS)						<0.002
Vanadium (V) (DIS)						<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.01		0.01

**Nutrients: ppm unless noted**

Total Organic Carbon	<0.5					
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**Other: ppm unless noted**

No Analysis						0.0
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**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential			96.2			
Oxygen (O) (DIS) (Fid)	0.23	0.81	1.01	0.51		0.42
pH	7.1	6.9	6.9	6.6		6.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-65	EH-65	EH-65	EH-65	EH-65
Water	SAMPLE DATE	5/22/2007	7/25/2007	9/6/2007	11/13/2007	5/6/2008
	SAMPLE TIME	15:00	10:15	14:25	12:20	14:30
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	
	LAB NUMBER	H07050262-009	H07070259-003	H07090052-010	H07110103-006	H08050097-015
	SAMPLE NUMBER	AEH-0705-214	AEH-0707-114	AEH-0709-128	AEH-0711-112	AEH-0805-164
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION			Split w/EPA		
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

	EH-65	EH-65	EH-65	EH-65	EH-65
Depth To Water Level (ft)	25.75	20.85	21.53	22.86	29.03
pH (Fid)	6.43	6.4	6.28	6.44	6.3
SC (umhos/cm at 25 C) (Fid)	1793	1671	1675	1624	1636
SC (umhos/cm at 25 C)	1610	1580	1470	1630	1550
Total Suspended Solids	15	<10	<10	24 J	<10
TDS (Measured at 180 C)	1240	1180	1180	1150	1140
Water Temperature (C) (Fid)	10.7	12.01	12.61	12.63	11.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-65	EH-65	EH-65	EH-65	EH-66
Water	SAMPLE DATE	7/16/2008	11/5/2008	2/5/2009	5/13/2009	5/8/2008
	SAMPLE TIME	10:35	13:02	10:55	09:25	11:35
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08070334-011	H08110073-009	H09020058-013	H09050210-004	H08050154-011
	SAMPLE NUMBER	AEH-0807-139	AEH-0811-177	AEH-0902-146	AEH-0905-191	AEH-0805-188
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	210	230	230	210	120
Calcium (Ca) (DIS)	97	101	93	90	48
Chloride (Cl)	76	67	68	62	9
Magnesium (Mg) (DIS)	24	27	23	23	11
Potassium (K) (DIS)	9	10	10	9	3
Sodium (Na) (DIS)	204	198	212	205	14
Sulfate (SO4)	540	550	550	510	58
Total Alkalinity As CaCO3	170	190	190	170	98

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005			<0.005
Selenium-VI (DIS)		0.015			<0.005
Aluminum (Al) (DIS)		<0.1 J		<0.1	<0.1
Antimony (Sb) (DIS)		<0.005		<0.003	<0.005
Arsenic (As) (DIS)	0.069	0.095	0.158	0.229	<0.002
Arsenic III (DIS)		<0.005			<0.005
Arsenic V (DIS)		0.103 J-			<0.005
Barium (Ba) (DIS)		<0.1		<0.1	<0.1
Beryllium (Be) (DIS)		<0.001		<0.001	<0.001
Cadmium (Cd) (DIS)	0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.001		<0.001	<0.001
Cobalt (Co) (DIS)		0.01		0.0009 J	<0.01
Copper (Cu) (DIS)	0.005	0.007	0.004	0.005 UJ	<0.004
Gold (Au) (DIS)				0.02	
Iron (Fe) (DIS)	<0.02	<0.02	0.02	0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	4.8	3.65	4.87	4.82	0.01
Mercury (Hg) (DIS)		<0.006		0.0002	<0.006
Nickel (Ni) (DIS)		<0.01		<0.01	<0.01
Selenium (Se) (DIS)	0.032	0.036	0.033	0.043	<0.005
Silver (Ag) (DIS)		<0.005		<0.005	<0.005
Tellurium (Te) (DIS)				<0.1	
Thallium (Tl) (DIS)		<0.002		<0.001	<0.002
Vanadium (V) (DIS)		<0.01		<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	0.01 UJ	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.87	0.35	0.64	0.39	10.24
pH	7.9 A	7	7	6.9	7.2
Depth To Water Level (ft)	23.06	24.04	22.3	28.22	32.42
pH (Fld)	6.24	6.34	6.35	6.42	6.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-65	EH-65	EH-65	EH-65	EH-66
Water	SAMPLE DATE	7/16/2008	11/5/2008	2/5/2009	5/13/2009	5/8/2008
	SAMPLE TIME	10:35	13:02	10:55	09:25	11:35
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H08070334-011	H08110073-009	H09020058-013	H09050210-004	H08050154-011
	SAMPLE NUMBER	AEH-0807-139	AEH-0811-177	AEH-0902-146	AEH-0905-191	AEH-0805-188
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	1658	1541	1622	1529	349
SC (umhos/cm at 25 C)	1520	1530	1470	1510	346
Total Suspended Solids	<10	14	<10	11	443
TDS (Measured at 180 C)	1140	1120	1120	1100	239
Water Temperature (C) (Fid)	11.3	12.31	12.2	11.7	10.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-66	EH-66	EH-66	EH-66	EH-67
Water	SAMPLE DATE	7/14/2008	10/28/2008	2/2/2009	5/5/2009	5/8/2008
	SAMPLE TIME	14:20	16:10	14:30	13:15	09:05
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08070284-010	H08100377-012	H09020024-009	H09050115-011	H08050154-006
	SAMPLE NUMBER	AEH-0807-109	AEH-0811-119	AEH-0902-108	AEH-0905-119	AEH-0805-183
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					
<b>Common Ions (mg/L): ppm unless noted</b>						
	Bicarbonate (HCO3)	140	130	130	110	100
	Calcium (Ca) (DIS)	41	40	39	32	41
	Chloride (Cl)	6	6	5	5	6
	Magnesium (Mg) (DIS)	10	10	9	8	9
	Potassium (K) (DIS)	3	3	3	3	3
	Sodium (Na) (DIS)	15	13	14	12	13
	Sulfate (SO4)	63	61	55	52	52
	Total Alkalinity As CaCO3	120	100	110	90	84
<b>Metals (mg/L): ppm unless noted</b>						
	Selenium-IV (DIS)		<0.005			<0.005
	Selenium-VI (DIS)		<0.005			<0.005
	Aluminum (Al) (DIS)		<0.1		<0.1	<0.1
	Antimony (Sb) (DIS)		<0.005		<0.003	<0.005
	Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.005	<0.002
	Arsenic III (DIS)		<0.005			<0.005
	Arsenic V (DIS)		<0.005 J			<0.005
	Barium (Ba) (DIS)		<0.1		<0.1	<0.1
	Beryllium (Be) (DIS)		<0.001		<0.001	<0.001
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
	Chromium (Cr) (DIS)		<0.001		<0.001	<0.001
	Cobalt (Co) (DIS)		<0.01		<0.0005	<0.01
	Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.002	<0.004
	Gold (Au) (DIS)				<0.01 UJ	
	Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	0.02
	Mercury (Hg) (DIS)		<0.006		<0.0001	<0.006
	Nickel (Ni) (DIS)		<0.01		<0.01	<0.01
	Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.001	<0.005
	Silver (Ag) (DIS)		<0.005 J		<0.005	<0.005
	Tellurium (Te) (DIS)				<0.1	
	Thallium (Tl) (DIS)		<0.002		<0.001	<0.002
	Vanadium (V) (DIS)		<0.01		<0.01	<0.01
	Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.01	<0.01
<b>Physical/Fld-Lab: ppm unless noted</b>						
	Oxygen (O) (DIS) (Fld)	7.98	7.89	8.32	7.74	8.15
	pH	7.3	7.4	7.3	7.7	7
	Depth To Water Level (ft)	24.07	29.05	31.8	31.32	28.75
	pH (Fld)	6.98	7.27	6.87	6.85	6.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-66	EH-66	EH-66	EH-66	EH-67
Water	SAMPLE DATE	7/14/2008	10/28/2008	2/2/2009	5/5/2009	5/8/2008
	SAMPLE TIME	14:20	16:10	14:30	13:15	09:05
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H08070284-010	H08100377-012	H09020024-009	H09050115-011	H08050154-006
	SAMPLE NUMBER	AEH-0807-109	AEH-0811-119	AEH-0902-108	AEH-0905-119	AEH-0805-183
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	403	339	353	307	300
SC (umhos/cm at 25 C)	376	337	356	315	294
Total Suspended Solids	83	741	176	191 J	50
TDS (Measured at 180 C)	248	219	224	195	203
Water Temperature (C) (Fid)	10.6	9.8	9.9	10	9.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-67	EH-67	EH-67	EH-67	EH-67
Water	SAMPLE DATE	7/14/2008	10/29/2008	10/29/2008	2/2/2009	5/5/2009
	SAMPLE TIME	13:00	09:25	09:35	15:20	15:00
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08070284-007	H08100394-002	H08100394-003	H09020024-011	H09050115-012
	SAMPLE NUMBER	AEH-0807-106	AEH-0811-121	AEH-0811-122	AEH-0902-110	AEH-0905-120
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	88	93	93	100	93
Calcium (Ca) (DIS)	26	29	29	28	27
Chloride (Cl)	3	5	4	4	4
Magnesium (Mg) (DIS)	6	6	6	5	6
Potassium (K) (DIS)	2	3	3	3	3
Sodium (Na) (DIS)	11	12	12	13	11
Sulfate (SO4)	44	41	39	39	46
Total Alkalinity As CaCO3	72	77	77	82	77

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005	<0.005		
Selenium-VI (DIS)		<0.005	<0.005		
Aluminum (Al) (DIS)		<0.1	<0.1		<0.1
Antimony (Sb) (DIS)		<0.005	<0.005		<0.003
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.005
Arsenic III (DIS)		<0.005	<0.005		
Arsenic V (DIS)		<0.005 J-	<0.005 J-		
Barium (Ba) (DIS)		<0.1	<0.1		<0.1
Beryllium (Be) (DIS)		<0.001	<0.001		<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.001	<0.001		<0.001
Cobalt (Co) (DIS)		<0.01	<0.01		<0.0005
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.001
Gold (Au) (DIS)					<0.01 UJ
Iron (Fe) (DIS)	0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)		<0.006	<0.006		<0.0001
Nickel (Ni) (DIS)		<0.01	<0.01		<0.01
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.001
Silver (Ag) (DIS)		<0.005 J	<0.005 J		<0.005
Tellurium (Te) (DIS)					<0.1
Thallium (Tl) (DIS)		<0.002	<0.002		<0.001
Vanadium (V) (DIS)		<0.01	<0.01		<0.01
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.29	8.32		5.36	8.22
pH	7.4	7.2	7.2	7.3	7.6
Depth To Water Level (ft)	21.43	26.9		29.65	28.63
pH (Fld)	6.73	6.53		6.72	6.82

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-67	EH-67	EH-67	EH-67	EH-67
Water	SAMPLE DATE	7/14/2008	10/29/2008	10/29/2008	2/2/2009	5/5/2009
	SAMPLE TIME	13:00	09:25	09:35	15:20	15:00
	LAB	Hydrometrics	Hydrometrics	ELI	Hydrometrics	Hydrometrics
	LAB NUMBER	H08070284-007	H08100394-002	H08100394-003	H09020024-011	H09050115-012
	SAMPLE NUMBER	AEH-0807-106	AEH-0811-121	AEH-0811-122	AEH-0902-110	AEH-0905-120
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Field Duplicate		

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)	258	254		261	265
SC (umhos/cm at 25 C)	245	252	252	278	273
Total Suspended Solids	68	114 J	85 R	37	10 J
TDS (Measured at 180 C)	166	168	166	171	181
Water Temperature (C) (Fld)	11	9.7		10.5	9.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-68	EH-68	EH-68	EH-68	EH-68
Water	SAMPLE DATE	5/6/2008	7/15/2008	10/29/2008	2/3/2009	5/6/2009
	SAMPLE TIME	10:15	08:00	12:50	10:30	11:05
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08050097-008	H08070318-004	H08100394-009	H09020024-018	H09050142-007
	SAMPLE NUMBER	AEH-0805-157	AEH-0807-116	AEH-0811-128	AEH-0902-117	AEH-0905-129
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	140	180	190	130	120
Calcium (Ca) (DIS)	47	50	50	40	44
Chloride (Cl)	6	6	6	7	12
Magnesium (Mg) (DIS)	11	11	11	8	10
Potassium (K) (DIS)	3	3	4	3	3
Sodium (Na) (DIS)	17	30	19	16	17
Sulfate (SO4)	64	100	49	56	65
Total Alkalinity As CaCO3	110	150	150	110	99

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005		<0.005		
Selenium-VI (DIS)	<0.005		<0.005		
Aluminum (Al) (DIS)	<0.1		<0.1		<0.1
Antimony (Sb) (DIS)	<0.005		<0.005		<0.003
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.005
Arsenic III (DIS)	<0.005		<0.005		
Arsenic V (DIS)	<0.005		<0.005 J		
Barium (Ba) (DIS)	<0.1		<0.1		<0.1
Beryllium (Be) (DIS)	<0.001		<0.001		<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001		<0.001		<0.001
Cobalt (Co) (DIS)	<0.01		<0.01		<0.0005
Copper (Cu) (DIS)	<0.004	0.004	<0.004	<0.004	<0.001
Gold (Au) (DIS)					<0.01 UJ
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	0.17	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.006		<0.006		<0.0001
Nickel (Ni) (DIS)	<0.01		<0.01		<0.01
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	0.001
Silver (Ag) (DIS)	<0.005		<0.005 J		<0.005
Tellurium (Te) (DIS)					<0.1
Thallium (Tl) (DIS)	<0.002		<0.002		<0.001
Vanadium (V) (DIS)	<0.01		<0.01		<0.01
Zinc (Zn) (DIS)	0.01	<0.01	<0.02	<0.02	<0.01 J

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.54	5.5	1.68	5.94	6.89
pH	7	7.1	7.3	7.1	7.1
Depth To Water Level (ft)	12.2	9.38	11.16	10.5	11.03
pH (Fld)	6.68	6.8	6.71	6.54	6.21

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-68	EH-68	EH-68	EH-68	EH-68
Water	SAMPLE DATE	5/6/2008	7/15/2008	10/29/2008	2/3/2009	5/6/2009
	SAMPLE TIME	10:15	08:00	12:50	10:30	11:05
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H08050097-008	H08070318-004	H08100394-009	H09020024-018	H09050142-007
	SAMPLE NUMBER	AEH-0805-157	AEH-0807-116	AEH-0811-128	AEH-0902-117	AEH-0905-129
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	352	507	412	358	380
SC (umhos/cm at 25 C)	337	483	408	370	386
Total Suspended Solids	20	224	<10 J	<10	<10
TDS (Measured at 180 C)	212	318	258	218	244
Water Temperature (C) (Fid)	9.8	12.47	13.8	9.2	6.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-69	EH-69	EH-69	EH-69	EH-69
Water	SAMPLE DATE	5/6/2008	7/15/2008	10/29/2008	2/3/2009	5/6/2009
	SAMPLE TIME	09:45	08:35	12:25	10:55	10:40
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08050097-007	H08070318-006	H08100394-008	H09020024-019	H09050142-006
	SAMPLE NUMBER	AEH-0805-156	AEH-0807-118	AEH-0811-127	AEH-0902-118	AEH-0905-128
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	130	140	150	140	130
Calcium (Ca) (DIS)	59	45	53	43	43
Chloride (Cl)	10	9	11	9	7
Magnesium (Mg) (DIS)	13	10	12	9	10
Potassium (K) (DIS)	5	4	5	4	4
Sodium (Na) (DIS)	43	40	40	40	37
Sulfate (SO4)	130	130	120	120	110
Total Alkalinity As CaCO3	110	110	120	120	110

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005		<0.005		
Selenium-VI (DIS)	0.0089		0.01		
Aluminum (Al) (DIS)	<0.1		<0.1		<0.1
Antimony (Sb) (DIS)	<0.005		<0.005		<0.003
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.005
Arsenic III (DIS)	<0.005		<0.005		
Arsenic V (DIS)	<0.005		<0.005 J		
Barium (Ba) (DIS)	<0.1		<0.1		<0.1
Beryllium (Be) (DIS)	<0.001		<0.001		<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001		<0.001		<0.001
Cobalt (Co) (DIS)	<0.01		<0.01		<0.0005
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.001
Gold (Au) (DIS)					<0.01 UJ
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.02	0.03	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.006		<0.006		<0.0001
Nickel (Ni) (DIS)	<0.01		<0.01		<0.01
Selenium (Se) (DIS)	0.012	0.012	0.01	0.011	0.011
Silver (Ag) (DIS)	<0.005		<0.005 J		<0.005
Tellurium (Te) (DIS)					<0.1
Thallium (Tl) (DIS)	<0.002		<0.002		<0.001
Vanadium (V) (DIS)	<0.01		<0.01		<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.02	<0.02	<0.01 J

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.97	3.6	4.72	4.14	2.57
pH	7.1	6.9	7	7	7.1
Depth To Water Level (ft)	23.39	18.91	19.91	21.84	22.92
pH (Fld)	6.86	6.62	6.61	6.58	6.35

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-69	EH-69	EH-69	EH-69	EH-69
Water	SAMPLE DATE	5/6/2008	7/15/2008	10/29/2008	2/3/2009	5/6/2009
	SAMPLE TIME	09:45	08:35	12:25	10:55	10:40
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H08050097-007	H08070318-006	H08100394-008	H09020024-019	H09050142-006
	SAMPLE NUMBER	AEH-0805-156	AEH-0807-118	AEH-0811-127	AEH-0902-118	AEH-0905-128
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	538	525	530	497	470
SC (umhos/cm at 25 C)	513	501	522	515	479
Total Suspended Solids	<10	218	31 J	35	62
TDS (Measured at 180 C)	334	362	348	318	314
Water Temperature (C) (Fid)	12.3	11.1	11.1	11.3	10.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
Water	SAMPLE DATE	11/17/2000	5/14/2001	11/7/2001	5/20/2002	11/15/2002	5/30/2003
	SAMPLE TIME	09:15	12:45	11:30	11:50	09:45	09:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001922024	L010699001	L011539010	L020370010	L020950004	L030242001
	SAMPLE NUMBER	IMMW-0011-125	EHC-0105-181	EHC-0111-178	EHC-0205-207	EHC-0211-196	AEH-0306-100
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	206	134	140	149	137	143
Calcium (Ca) (DIS)	43	47	46	44	51	46
Carbonate As CO3	<1		<1	<1	<1	<2
Chloride (Cl)	18	16	12	11	13 J	13
Magnesium (Mg) (DIS)	9.3	10	10	9.5	11	9.8
Potassium (K) (DIS)	<5	<5	<5	<5	5.5	<5
Sodium (Na) (DIS)	25	23	27	23	26	25
Sulfate (SO4)	64	69	58	76	73	74
Total Alkalinity As CaCO3	169	110	115	122	112	117

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.01	<0.05	<0.05	<0.05	<0.05	
Arsenic (As) (DIS)	0.005	0.005 U	0.006 UJ	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.03	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.08 U	<0.05	<0.02	<0.02	0.03	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			139	11.4		
Oxygen (O) (DIS) (Fld)	6.8	6.1	5.9	8.8	9.6	7.6
pH	7.7	8.3	8.2		7.3	7.8
Silicon+Silica (Si+SiO2)	47	47	50	43	48	
Depth To Water Level (ft)	50.09	50.6	50.07	50.6	53	51.07
Eh (millivolts)	401	334	387			
pH (Fld)	7.4	8.3	7.5	7.5	6.6	5.8
SC (umhos/cm at 25 C) (Fld)	342	325	433	367	347	3600 R
SC (umhos/cm at 25 C)	422	423	422	414	424	431
Total Suspended Solids		<1	<1	<1	63 J	2.8
TDS (Measured at 180 C)	311	306	310	298	298 J	313
Salinity (G/KG) (Fld)					0.1	0.1
Turbidity (NTU) (Fld)					94	1
Water Temperature (C) (Fld)	10.8	12.1	10.4	11.3	10.7	10.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
Water	SAMPLE DATE	10/24/2003	5/20/2004	11/3/2004	5/17/2005	11/11/2005	5/5/2006
	SAMPLE TIME	12:15	14:50	11:00	13:00	09:00	14:15
	LAB	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel
	LAB NUMBER	L030598006	H04050133-014	H04110037-009	C05050640-019	H05110105-002	H06050069-003
	SAMPLE NUMBER	AEH-0310-324	AEH-0405-137	AEH-0411-211	AEH-0505-176	AEH-0511-156	AEH-0605-167
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	138	180	150	145	130	150
Calcium (Ca) (DIS)	48	50	54	49	48	50
Carbonate As CO3	<2					
Chloride (Cl)	10	14	10	12	15 UJ	14
Magnesium (Mg) (DIS)	10	10	11	11	10	11
Potassium (K) (DIS)	5.4	5	5	<5	5	5
Sodium (Na) (DIS)	26	25 UJ	24	25	26	26
Sulfate (SO4)	70	83	65	88	72	76
Total Alkalinity As CaCO3	113	150	120	119	110	120

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	0.009	<0.005	0.004	0.004	0.004 UJ
Arsenic III (dis)	<0.005	<0.001 J	<0.001	<0.005	<0.005	<0.005
Arsenic V (dis)	<0.005	0.018 UJ	0.0035	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.03	<0.02	0.33	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	0.007	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.01	0.03	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.11	0.18	9.82	9.54	8.23	6.01
pH	7.9	7.7	7.5	7.92	7.6	7.4
Depth To Water Level (ft)	51.78	51.35	50.66	51.02	50.58	51.21
pH (Fld)	7.29	6.61	7.33	7.14	7.17	7.16
SC (umhos/cm at 25 C) (Fld)	419	550	433	415	466	420
SC (umhos/cm at 25 C)	428	478	384	418	412	445
Total Suspended Solids	<1	12	1440	930 J	17	<10
TDS (Measured at 180 C)	301	295	309	320 UJ	288	302
TDS - Calculated				309		
Salinity (G/KG) (Fld)	0.1	0.2				
Turbidity (NTU) (Fld)	7	10				
Water Temperature (C) (Fld)	10.8	10.9	10	10.14	11.1	11.36

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
Water	SAMPLE DATE	11/8/2006	6/5/2007	6/5/2007	11/26/2007	3/3/2008	5/5/2008
	SAMPLE TIME	14:05	11:30	11:45	12:40	12:00	11:10
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110071-005	H07060043-003	H07060043-004	H07110183-001	H08030053-004	H08050066-005
	SAMPLE NUMBER	AEH-0611-127	AEH-0705-233	AEH-0705-234	AEH-0711-144	AEH-0802-140	AEH-0805-141
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	140	140	140				140
Calcium (Ca) (DIS)	45	46	46	47	45		53
Chloride (Cl)	14	12	13	13	13		14
Magnesium (Mg) (DIS)	9	10	10	10	10		11
Potassium (K) (DIS)	5	5	5	5	6		5
Sodium (Na) (DIS)	24	26	25	24	24		25
Sulfate (SO4)	69	76	75	76	74		75
Total Alkalinity As CaCO3	120	120	120	120	110		120

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005	<0.005	<0.005	<0.005		<0.005
Selenium-VI (DIS)		<0.005	<0.005	<0.005	<0.005		<0.005 J-
Aluminum (Al) (DIS)		<0.1	<0.1	<0.1	<0.1		<0.1
Aluminum (Al) (TOT)					0.3		
Antimony (Sb) (DIS)		<0.005	<0.005	<0.005	<0.005		<0.005
Antimony (Sb) (TOT)					<0.005		
Arsenic (As) (DIS)	0.004	0.004	0.004	<0.005	<0.005		0.004
Arsenic (As) (TOT)					<0.005		
Arsenic III (DIS)	<0.005	<0.005 R	<0.005	<0.001	<0.001		<0.005
Arsenic V (DIS)	0.005	<0.005 R	<0.005	0.0051	0.0039		<0.005
Barium (Ba) (DIS)		<0.1	<0.1	<0.1	<0.1		<0.1
Barium (Ba) (TOT)					<0.1		
Beryllium (Be) (DIS)		<0.001	<0.001	<0.001	<0.001		<0.001
Beryllium (Be) (TOT)					<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
Cadmium (Cd) (TOT)					<0.001		
Chromium (Cr) (DIS)		<0.001	<0.001	<0.001	<0.001		<0.001
Chromium (Cr) (TOT)					<0.001		
Cobalt (Co) (DIS)		<0.01	<0.01	<0.01	<0.01		<0.01
Cobalt (Co) (TOT)					<0.01		
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004		<0.004
Copper (Cu) (TOT)					<0.004		
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02		<0.02
Iron (Fe) (TOT)					0.22		
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
Lead (Pb) (TOT)					<0.005		
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01
Manganese (Mn) (TOT)					<0.01		
Mercury (Hg) (DIS)		<0.006	<0.006	<0.006	<0.006		<0.006

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
Water	SAMPLE DATE	11/8/2006	6/5/2007	6/5/2007	11/26/2007	3/3/2008	5/5/2008
	SAMPLE TIME	14:05	11:30	11:45	12:40	12:00	11:10
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110071-005	H07060043-003	H07060043-004	H07110183-001	H08030053-004	H08050066-005
	SAMPLE NUMBER	AEH-0611-127	AEH-0705-233	AEH-0705-234	AEH-0711-144	AEH-0802-140	AEH-0805-141
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Metals (mg/L): ppm unless noted**

Mercury (Hg) (TOT)						<0.006	
Nickel (Ni) (DIS)			<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni) (TOT)						<0.01	
Selenium (Se) (DIS)			<0.005	<0.005	<0.005	<0.005	<0.005
Selenium (Se) (TOT)						<0.005	
Silver (Ag) (DIS)			<0.005	<0.005	<0.005	<0.005	<0.005 J
Silver (Ag) (TOT)						<0.005	
Thallium (Tl) (DIS)			<0.002	<0.002	<0.002	<0.002	<0.002
Thallium (Tl) (TOT)						<0.002	
Tin (Sn) (DIS)			<0.1	<0.1	<0.1	<0.1	
Tin (Sn) (TOT)						<0.1	
Vanadium (V) (DIS)			<0.01	<0.01	<0.01	<0.01	<0.01
Vanadium (V) (TOT)						<0.01	
Zinc (Zn) (DIS)	<0.02	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01
Zinc (Zn) (TOT)						<0.01	

**Nutrients: ppm unless noted**

Total Organic Carbon		<0.5	<0.5				
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**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	85.5						
Oxygen (O) (DIS) (Fld)	8.78	9.29			9.4	8.84 J	8.31
pH	7.6	7.6		7.6			7.6
Depth To Water Level (ft)	50.26	50.96			50.42	50.87	50.9
pH (Fld)	7.18	7.42			7.08	7.22	7.16
SC (umhos/cm at 25 C) (Fld)	432	439			472	457	443
SC (umhos/cm at 25 C)	429	423		425	446	452	434
Total Suspended Solids	<10	<10		<10			<10
TDS (Measured at 180 C)	312	301		300	312	305	295
Water Temperature (C) (Fld)	10.13	12.33			9.14	9.8	10.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-1	MW-1	MW-1	MW-1	MW-1
Water	SAMPLE DATE	8/20/2008	10/30/2008	2/6/2009	2/6/2009	5/7/2009
	SAMPLE TIME	10:45	11:05	11:10	11:20	09:20
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08080360-001	H08100411-003	H09020067-004	H09020067-005	H09050158-004
	SAMPLE NUMBER	AEH-0808-102	AEH-0811-136	AEH-0902-153	AEH-0902-154	AEH-0905-142
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS				Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)			140	150	130
Calcium (Ca) (DIS)	54	52	46	46	46
Chloride (Cl)	13	14	12	12	12
Magnesium (Mg) (DIS)	12	11	9	9	10
Potassium (K) (DIS)	5	5	5	5	5
Sodium (Na) (DIS)	24	25	24	23	23
Sulfate (SO4)	79	82	76	76	79
Total Alkalinity As CaCO3	110	120	120	120	110

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005			
Selenium-VI (DIS)	<0.005	<0.005			
Aluminum (Al) (DIS)	<0.1	<0.1	<0.01	<0.01	<0.1
Antimony (Sb) (DIS)	<0.005	<0.005	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	<0.005	<0.005	0.004	0.004	<0.005
Arsenic III (DIS)	<0.005	<0.005			
Arsenic V (DIS)	0.0073	0.0063			
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.0005
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	0.002
Gold (Au) (DIS)					<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.006	<0.006	<0.001	<0.001	<0.0001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	0.006
Silver (Ag) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005 J
Tellurium (Te) (DIS)					<0.1
Thallium (Tl) (DIS)	<0.002	<0.002	<0.001	<0.001	<0.001
Vanadium (V) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	8.14	9.21	7.12		8.57
pH			7.6	7.8	7.6
Depth To Water Level (ft)	50.73	51.12	50.67		51
pH (Fld)	7.01	7	7.13		7.09

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-1	MW-1	MW-1	MW-1	MW-1
Water	SAMPLE DATE	8/20/2008	10/30/2008	2/6/2009	2/6/2009	5/7/2009
	SAMPLE TIME	10:45	11:05	11:10	11:20	09:20
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	ELI	Hydrometrics
	LAB NUMBER	H08080360-001	H08100411-003	H09020067-004	H09020067-005	H09050158-004
	SAMPLE NUMBER	AEH-0808-102	AEH-0811-136	AEH-0902-153	AEH-0902-154	AEH-0905-142
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS				Field Duplicate	
<b>Physical/Fid-Lab: ppm unless noted</b>						
	SC (umhos/cm at 25 C) (Fld)	452	430	435		436
	SC (umhos/cm at 25 C)	430	414	434	437	439
	Total Suspended Solids			13	13	<10
	TDS (Measured at 180 C)	291	310	302	303	300
	Water Temperature (C) (Fld)	11.5	10.1	10		10.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10
Water	SAMPLE DATE	11/9/2006	6/5/2007	11/27/2007	3/4/2008	5/5/2008	8/20/2008
	SAMPLE TIME	08:25	14:30	09:00	10:50	16:40	16:30
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110081-001	H07060043-008	H07110195-001	H08030072-006	H08050097-002	H08080360-008
	SAMPLE NUMBER	AEH-0611-130	AEH-0705-238	AEH-0711-154	AEH-0802-149	AEH-0805-151	AEH-0808-109
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	320	310			320	
Calcium (Ca) (DIS)	92	90	92	90	106	107
Chloride (Cl)	15 J	29	15	15	16	17
Magnesium (Mg) (DIS)	22	22	22	23	25	27
Potassium (K) (DIS)	7	7	8	7	7	8
Sodium (Na) (DIS)	35	37	37	36	32	35
Sulfate (SO4)	110	117	119	120	120	130
Total Alkalinity As CaCO3	260	260	260	270	260	260

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005
Selenium-VI (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005
Aluminum (Al) (DIS)		<0.1	<0.1	<0.1	<0.1	<0.1
Aluminum (Al) (TOT)				4.2 J+		
Antimony (Sb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005
Antimony (Sb) (TOT)				<0.005		
Arsenic (As) (DIS)	0.01	0.011	0.014	0.011	0.01	0.01
Arsenic (As) (TOT)				0.012		
Arsenic III (DIS)	<0.005	<0.005	0.0013 J-	<0.001 J	<0.005	<0.005
Arsenic V (DIS)	0.01	0.0101	0.0133	0.011 J	0.015	0.009
Barium (Ba) (DIS)		<0.1	<0.1	<0.1	<0.1	<0.1
Barium (Ba) (TOT)				0.1		
Beryllium (Be) (DIS)		<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium (Be) (TOT)				<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)				<0.001		
Chromium (Cr) (DIS)		<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (TOT)				0.002		
Cobalt (Co) (DIS)		<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co) (TOT)				<0.01		
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)				<0.004		
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Iron (Fe) (TOT)				2.12		
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)				<0.005		
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Manganese (Mn) (TOT)				0.04		
Mercury (Hg) (DIS)		<0.006	<0.006	<0.006	<0.006	<0.006

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10
Water	SAMPLE DATE	11/9/2006	6/5/2007	11/27/2007	3/4/2008	5/5/2008	8/20/2008
	SAMPLE TIME	08:25	14:30	09:00	10:50	16:40	16:30
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110081-001	H07060043-008	H07110195-001	H08030072-006	H08050097-002	H08080360-008
	SAMPLE NUMBER	AEH-0611-130	AEH-0705-238	AEH-0711-154	AEH-0802-149	AEH-0805-151	AEH-0808-109
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Metals (mg/L): ppm unless noted**

Mercury (Hg) (TOT)					<0.006		
Nickel (Ni) (DIS)			<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni) (TOT)					<0.01		
Selenium (Se) (DIS)			<0.005	<0.005	<0.005	<0.005	<0.005
Selenium (Se) (TOT)					<0.005		
Silver (Ag) (DIS)			<0.005	<0.005	<0.005	<0.005	<0.005
Silver (Ag) (TOT)					<0.005		
Thallium (Tl) (DIS)			<0.002	<0.002	<0.002	<0.002	<0.002
Thallium (Tl) (TOT)					<0.002		
Tin (Sn) (DIS)			<0.1	<0.1	<0.1		
Tin (Sn) (TOT)					<0.1		
Vanadium (V) (DIS)			<0.01	<0.01	<0.01	<0.01	<0.01
Vanadium (V) (TOT)					<0.01		
Zinc (Zn) (DIS)		<0.02	<0.01	<0.02	<0.01	0.01	<0.02
Zinc (Zn) (TOT)					0.02		

**Nutrients: ppm unless noted**

Total Organic Carbon			0.8				
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**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	107.7						
Oxygen (O) (DIS) (Fld)	4.89	4.29	4.12	5.26	4.49	4.24	
pH	7.6	7.5			7.5		
Depth To Water Level (ft)	37.71	39.52	37.38	39.41	39.43	39.01	
pH (Fld)	7.17	7.28	7.16	7.12	7.1	7.01	
SC (umhos/cm at 25 C) (Fld)	739	764	686	762	752	797	
SC (umhos/cm at 25 C)	721	712	743	770	720	748	
Total Suspended Solids	15 J	13			<10		
TDS (Measured at 180 C)	508	500	514	513	496	505	
Water Temperature (C) (Fld)	9.47	10.11	9.51	9.6	10.5	11.3	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-10	MW-10	MW-10	MW-11	MW-11
Water	SAMPLE DATE	10/30/2008	2/6/2009	5/7/2009	6/8/2007	11/26/2007
	SAMPLE TIME	14:00	14:10	14:05	09:35	14:30
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08100411-008	H09020067-010	H09050158-010	H07060083-002	H07110183-005
	SAMPLE NUMBER	AEH-0811-141	AEH-0902-159	AEH-0905-148	AEH-0705-241	AEH-0711-149
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION				New Site	
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		320	300	140	
Calcium (Ca) (DIS)	103	94	94	51	51
Chloride (Cl)	19	19	19	30	28
Magnesium (Mg) (DIS)	25	22	24	12	12
Potassium (K) (DIS)	8	7	7	11	12
Sodium (Na) (DIS)	36	35	34	52	59
Sulfate (SO4)	140	140	150	155	155
Total Alkalinity As CaCO3	260	260	250	110	110

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005			<0.005	<0.005
Selenium-VI (DIS)	<0.005			<0.002	<0.005
Aluminum (Al) (DIS)	<0.1	<0.01	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.005	<0.003	<0.003	<0.005	<0.005
Arsenic (As) (DIS)	0.01	0.01	0.01	0.015	0.016
Arsenic III (DIS)	<0.005			<0.005	<0.001
Arsenic V (DIS)	0.0096			0.0161	0.0183
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01	<0.0005	<0.01	<0.01
Copper (Cu) (DIS)	<0.004	<0.004	<0.001	<0.004	0.005 UJ
Gold (Au) (DIS)			<0.01		
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	0.02	<0.01
Mercury (Hg) (DIS)	<0.006	<0.001	<0.0001	<0.006	<0.006
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	<0.005	<0.005	0.007	<0.005	<0.005
Silver (Ag) (DIS)	<0.005	<0.005	<0.005 J	<0.005	<0.005
Tellurium (Te) (DIS)			<0.1		
Thallium (Tl) (DIS)	<0.002	<0.001	<0.001	<0.002	<0.002
Tin (Sn) (DIS)				<0.1	<0.1
Vanadium (V) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.02	<0.02	<0.01	<0.01	<0.02

**Nutrients: ppm unless noted**

Total Organic Carbon				<0.5	
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	4.94	4.47	5.32	8.95	9.89
pH		7.7	7.7	7.9	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-10	MW-10	MW-10	MW-11	MW-11
Water	SAMPLE DATE	10/30/2008	2/6/2009	5/7/2009	6/8/2007	11/26/2007
	SAMPLE TIME	14:00	14:10	14:05	09:35	14:30
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H08100411-008	H09020067-010	H09050158-010	H07060083-002	H07110183-005
	SAMPLE NUMBER	AEH-0811-141	AEH-0902-159	AEH-0905-148	AEH-0705-241	AEH-0711-149
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION				New Site	
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

Depth To Water Level (ft)	39.88	38.21	38.06	62.38	62.32
pH (Fid)	7.09	6.99	7	7.61	7.5
SC (umhos/cm at 25 C) (Fid)	755	777	796	667	686
SC (umhos/cm at 25 C)	725	780	791	620	656
Total Suspended Solids		54	30 J+	200	
TDS (Measured at 180 C)	519	520	542	462	453
Water Temperature (C) (Fid)	10.4	9.8	9.9	10.4	9.86

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11
Water	SAMPLE DATE	3/4/2008	5/5/2008	8/20/2008	10/30/2008	2/9/2009	5/7/2009
	SAMPLE TIME	09:10	12:50	18:00	15:55	08:40	15:05
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08030072-001	H08050066-010	H08080360-010	H08100411-012	H09020078-001	H09050158-013
	SAMPLE NUMBER	AEH-0802-144	AEH-0805-146	AEH-0808-111	AEH-0811-145	AEH-0902-162	AEH-0905-151
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		140			130	140
Calcium (Ca) (DIS)	50	58	58	56	50	50
Chloride (Cl)	29	30	29	31	29	26
Magnesium (Mg) (DIS)	12	13	14	13	12	12
Potassium (K) (DIS)	10	11	12	11	11	11
Sodium (Na) (DIS)	60	60	57	60	56	56
Sulfate (SO4)	160	160	160	170	160	160
Total Alkalinity As CaCO3	110	110	110	110	110	110

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005	<0.005	<0.005		
Selenium-VI (DIS)	<0.005	<0.005 J-	<0.005	<0.005		
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1	<0.01	<0.1
Aluminum (Al) (TOT)	0.9 J+					
Antimony (Sb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.003	<0.003
Antimony (Sb) (TOT)	<0.005					
Arsenic (As) (DIS)	0.018	0.016	0.017	0.016	0.017	0.018
Arsenic (As) (TOT)	0.018					
Arsenic III (DIS)	<0.001 J	<0.005	<0.005	<0.005		
Arsenic V (DIS)	0.0161 J	0.0189	0.0151	0.0146		
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Barium (Ba) (TOT)	<0.1					
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium (Be) (TOT)	<0.001					
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)	<0.001					
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.01	<0.001
Chromium (Cr) (TOT)	<0.001					
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0005
Cobalt (Co) (TOT)	<0.01					
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.002
Copper (Cu) (TOT)	<0.004					
Gold (Au) (DIS)						<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Iron (Fe) (TOT)	0.49					
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	<0.005					
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Manganese (Mn) (TOT)	<0.01					

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11
Water	SAMPLE DATE	3/4/2008	5/5/2008	8/20/2008	10/30/2008	2/9/2009	5/7/2009
	SAMPLE TIME	09:10	12:50	18:00	15:55	08:40	15:05
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08030072-001	H08050066-010	H08080360-010	H08100411-012	H09020078-001	H09050158-013
	SAMPLE NUMBER	AEH-0802-144	AEH-0805-146	AEH-0808-111	AEH-0811-145	AEH-0902-162	AEH-0905-151
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Metals (mg/L): ppm unless noted**

Mercury (Hg) (DIS)	<0.006	<0.006	<0.006	<0.006	<0.001	<0.0001
Mercury (Hg) (TOT)	<0.006					
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni) (TOT)	<0.01					
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	0.01
Selenium (Se) (TOT)	<0.005					
Silver (Ag) (DIS)	<0.005	<0.005 J	<0.005	<0.005	<0.005	<0.005 J
Silver (Ag) (TOT)	<0.005					
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001
Thallium (Tl) (TOT)	<0.002					
Tin (Sn) (DIS)	<0.1					
Tin (Sn) (TOT)	<0.1					
Vanadium (V) (DIS)	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
Vanadium (V) (TOT)	<0.01					
Zinc (Zn) (DIS)	<0.01	0.01	<0.02	<0.02	<0.02	<0.01
Zinc (Zn) (TOT)	0.01					

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.57	7.94	7.03	9.18	8.93	8.44
pH		7.7			7.7	7.8
Depth To Water Level (ft)	62.29	62.4	62.31	62.73	62.18	62.55
pH (Fld)	7.77	7.24	7.42	7.44	7.07	7.29
SC (umhos/cm at 25 C) (Fld)	705	662	671	567	650	645
SC (umhos/cm at 25 C)	676	644	632	631	642	642
Total Suspended Solids		33			<10	<10
TDS (Measured at 180 C)	465	455	451	452	458	445
Water Temperature (C) (Fld)	9.9	12.7	13.7	10.4	10.2	10.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
Water	SAMPLE DATE	11/16/2000	5/14/2001	11/7/2001	5/20/2002	5/20/2002	11/15/2002
	SAMPLE TIME	14:30	13:30	11:10	12:15	12:25	10:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001922025	L010699004	L011538001	L020370011	L020370012	L020950005
	SAMPLE NUMBER	IMMW-0011-126	EHC-0105-182	EHC-0111-179	EHC-0205-208	EHC-0205-228C	EHC-0211-197
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	295	290	298	306	303	304
Calcium (Ca) (DIS)	68	73	71	70	69	78
Carbonate As CO3	<1		<1	<1	<1	<1
Chloride (Cl)	6.6	8.4	7.4	5.6	5	6.3 J
Magnesium (Mg) (DIS)	15	16	16	16	15	17
Potassium (K) (DIS)	<5	<5	<5	<5	<5	6.1
Sodium (Na) (DIS)	21	19	22	20	20	22
Sulfate (SO4)	24	5.4	12 J	26	27	22
Total Alkalinity As CaCO3	242	238	244	251	248	249

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.01 J	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	0.01 U	0.01 U	0.01 UJ	0.01	0.01	0.01
Arsenic III (dis)	<0.03	0.02 U	0.01 U	0.01	0.01	0.007
Arsenic V (dis)	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004 J	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.3 U	<0.05	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.3 J	0.3	0.3	0.3	0.3	0.3
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			106.7	44.2		
Oxygen (O) (DIS) (Fld)		0.6	0.1	1.7	1.5	8.2
pH	7.4	8	8.1			7.4
Silicon+Silica (Si+SiO2)	39	41	42	38	37	40
Depth To Water Level (ft)	35.3	34.6	34.8	35.7		35.4
Eh (millivolts)	235.6	394	354			
pH (Fld)	7.5	7.8	7.3	7	7.1	6.4
SC (umhos/cm at 25 C) (Fld)	396	388	535	480	481	435
SC (umhos/cm at 25 C)	523	524	530	531	531	535
Total Suspended Solids		<1	<1	<1	1	17 J
TDS (Measured at 180 C)	354	345	355	345	352	344 J
Salinity (G/KG) (Fld)						0.1
Turbidity (NTU) (Fld)						7
Water Temperature (C) (Fld)	8.6	12	10.7	10.5	10.5	10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
Water	SAMPLE DATE	5/30/2003	10/24/2003	5/20/2004	11/3/2004	5/17/2005	11/11/2005
	SAMPLE TIME	09:45	12:45	14:10	10:20	13:10	09:15
	LAB	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel
	LAB NUMBER	L030242002	L030598007	H04050133-013	H04110037-006	C05050640-020	H05110105-003
	SAMPLE NUMBER	AEH-0306-101	AEH-0310-325	AEH-0405-136	AEH-0411-208	AEH-0505-177	AEH-0511-157
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	305	295	310	290	297	300
Calcium (Ca) (DIS)	72	73	74	82	72	65
Carbonate As CO3	<2	<2				
Chloride (Cl)	6	4.7	7	6	5	8 UJ
Magnesium (Mg) (DIS)	16	16	16	18	16	15
Potassium (K) (DIS)	5.7	<5	6	6	5	5
Sodium (Na) (DIS)	21	22	20 UJ	20	20	20
Sulfate (SO4)	26	30	34	23	24	21
Total Alkalinity As CaCO3	250	242	260	240	243	250

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.01	0.01	0.023	0.013	0.012	0.013
Arsenic III (dis)	0.01	0.009	0.012 J	0.0076	0.01	0.009
Arsenic V (dis)	<0.005	<0.005	0.016 UJ	0.007	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.03	<0.02	<0.02	0.12	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.3	0.3	0.29	0.31	0.26	0.24
Zinc (Zn) (DIS)	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.3	0.07	0.16	0.17	0.13	0.67
pH	7.7	8	7.4	7.3	7.61	7.2
Depth To Water Level (ft)	34.4	35.4	35.03	34.74	34.47	34.14
pH (Fld)	6.5	6.9	6.35	7.04	6.73	6.84
SC (umhos/cm at 25 C) (Fld)	446	525	672	517	489	480
SC (umhos/cm at 25 C)	538	534	580	476	514	486
Total Suspended Solids	<1	<1	10	<10	<10 J	<10
TDS (Measured at 180 C)	347	340	340	315	385 UJ	302
TDS - Calculated					331	
Salinity (G/KG) (Fld)	0.1	0.2	0.2			
Turbidity (NTU) (Fld)	1	1	10			
Water Temperature (C) (Fld)	10.1	9.9	10.7	9.8	9.99	10.44

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
Water	SAMPLE DATE	5/5/2006	11/8/2006	6/5/2007	11/26/2007	3/3/2008	5/5/2008
	SAMPLE TIME	14:40	14:35	12:00	13:20	12:30	12:15
	LAB	ELI-Hel	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06050069-004	H06110071-006	H07060043-005	H07110183-002	H08030053-005	H08050066-007
	SAMPLE NUMBER	AEH-0605-168	AEH-0611-128	AEH-0705-235	AEH-0711-145	AEH-0802-141	AEH-0805-143
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	290	290	290			280
Calcium (Ca) (DIS)	75	62	62	60	60	70
Chloride (Cl)	6	5	6	5	6	6
Magnesium (Mg) (DIS)	17	14	13	13	13	15
Potassium (K) (DIS)	5	6	5	6	6	5
Sodium (Na) (DIS)	20	20	19	19	19	18
Sulfate (SO4)	25	21	20	16	15	15
Total Alkalinity As CaCO3	230	240	240	240	240	230

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)			<0.005	<0.005	<0.005	<0.005
Selenium-VI (DIS)			<0.005	<0.005	<0.005	<0.005 J-
Aluminum (Al) (DIS)			<0.1	<0.1	<0.1	<0.1
Aluminum (Al) (TOT)					<0.1	
Antimony (Sb) (DIS)			<0.005	<0.005	<0.005	<0.005
Antimony (Sb) (TOT)					<0.005	
Arsenic (As) (DIS)	0.013 UJ	0.012	0.012	0.011	0.012	0.011
Arsenic (As) (TOT)					0.012	
Arsenic III (dis)	0.01	0.01	0.0113	0.0102	0.0102	0.0117
Arsenic V (dis)	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005
Barium (Ba) (DIS)			<0.1	<0.1	<0.1	<0.1
Barium (Ba) (TOT)					<0.1	
Beryllium (Be) (DIS)			<0.001	<0.001	<0.001	<0.001
Beryllium (Be) (TOT)					<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)					<0.001	
Chromium (Cr) (DIS)			<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (TOT)					<0.001	
Cobalt (Co) (DIS)			<0.01	<0.01	<0.01	<0.01
Cobalt (Co) (TOT)					<0.01	
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)					<0.004	
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Iron (Fe) (TOT)					<0.02	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)					<0.005	
Manganese (Mn) (DIS)	0.27	0.23	0.24	0.23	0.22	0.26
Manganese (Mn) (TOT)					0.22	
Mercury (Hg) (DIS)			<0.006	<0.006	<0.006	<0.006

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
Water	SAMPLE DATE	5/5/2006	11/8/2006	6/5/2007	11/26/2007	3/3/2008	5/5/2008
	SAMPLE TIME	14:40	14:35	12:00	13:20	12:30	12:15
	LAB	ELI-Hel	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06050069-004	H06110071-006	H07060043-005	H07110183-002	H08030053-005	H08050066-007
	SAMPLE NUMBER	AEH-0605-168	AEH-0611-128	AEH-0705-235	AEH-0711-145	AEH-0802-141	AEH-0805-143
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Metals (mg/L): ppm unless noted**

Mercury (Hg) (TOT)						<0.006	
Nickel (Ni) (DIS)				<0.01	<0.01	<0.01	<0.01
Nickel (Ni) (TOT)						<0.01	
Selenium (Se) (DIS)				<0.005	<0.005	<0.005	<0.005
Selenium (Se) (TOT)						<0.005	
Silver (Ag) (DIS)				<0.005	<0.005	<0.005	<0.005 J
Silver (Ag) (TOT)						<0.005	
Thallium (Tl) (DIS)				<0.002	<0.002	<0.002	<0.002
Thallium (Tl) (TOT)						<0.002	
Tin (Sn) (DIS)				<0.1	<0.1	<0.1	
Tin (Sn) (TOT)						<0.1	
Vanadium (V) (DIS)				<0.01	<0.01	<0.01	<0.01
Vanadium (V) (TOT)						<0.01	
Zinc (Zn) (DIS)	<0.02	<0.02		<0.01	<0.02	<0.01	<0.01
Zinc (Zn) (TOT)						<0.01	

**Nutrients: ppm unless noted**

Total Organic Carbon				1.7			
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**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			23				
Oxygen (O) (DIS) (Fld)	0.76	1.9	0.03	0.5	0.66	0.33	
pH	7.2	7.3	7.4			7.2	
Depth To Water Level (ft)	33.95	33.5	34.62	34.03	34.73	34.56	
pH (Fld)	6.71	6.86	7.04	6.94	6.92	6.84	
SC (umhos/cm at 25 C) (Fld)	486	487	497	500	497	482	
SC (umhos/cm at 25 C)	512	483	477	480	497	476	
Total Suspended Solids	<10	<10	<10			<10	
TDS (Measured at 180 C)	314	309	302	305	302	282	
Water Temperature (C) (Fld)	10.77	9.91	10.27	9.71	9.7	10.3	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
Water	SAMPLE DATE	5/5/2008	8/20/2008	10/30/2008	10/30/2008	2/6/2009	5/7/2009
	SAMPLE TIME	12:35	17:10	10:40	10:50	14:40	14:55
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08050066-008	H08080360-009	H08100411-001	H08100411-002	H09020067-011	H09050158-012
	SAMPLE NUMBER	AEH-0805-144	AEH-0808-110	AEH-0811-134	AEH-0811-135	AEH-0902-160	AEH-0905-150
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	280				290	270
Calcium (Ca) (DIS)	70	71	68	68	63	63
Chloride (Cl)	6	6	6	6	6	6
Magnesium (Mg) (DIS)	15	16	15	15	13	14
Potassium (K) (DIS)	5	6	5	5	5	5
Sodium (Na) (DIS)	19	18	19	18	19	19
Sulfate (SO4)	16	14	19	20	25	29
Total Alkalinity As CaCO3	230	230	230	230	240	220

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005	<0.005	<0.005		
Selenium-VI (DIS)	<0.005 J-	<0.005	<0.005	<0.005		
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1	<0.01	<0.1
Antimony (Sb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.003	<0.003
Arsenic (As) (DIS)	0.011	0.011	0.011	0.011	0.012	0.01
Arsenic III (DIS)	0.0117	0.0103	0.0094	0.0067		
Arsenic V (DIS)	<0.005	<0.005	<0.005	0.0062		
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0005
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.001
Gold (Au) (DIS)						<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.26	0.26	0.22	0.22	0.23	0.24
Mercury (Hg) (DIS)	<0.006	<0.006	<0.006	<0.006	<0.001	0.0001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
Silver (Ag) (DIS)	<0.005 J	<0.005	<0.005	<0.005	<0.005	<0.005 J
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001
Vanadium (V) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	0.01	<0.02	<0.02	<0.02	<0.02	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		0.22	0.2		0.69	0.2
pH	7.3				7.3	7.3
Depth To Water Level (ft)		34.63	34.78		34.44	33.93
pH (Fld)		6.72	6.69		6.75	6.75

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
Water	SAMPLE DATE	5/5/2008	8/20/2008	10/30/2008	10/30/2008	2/6/2009	5/7/2009
	SAMPLE TIME	12:35	17:10	10:40	10:50	14:40	14:55
	LAB	ELI	Hydrometrics	Hydrometrics	ELI	Hydrometrics	Hydrometrics
	LAB NUMBER	H08050066-008	H08080360-009	H08100411-001	H08100411-002	H09020067-011	H09050158-012
	SAMPLE NUMBER	AEH-0805-144	AEH-0808-110	AEH-0811-134	AEH-0811-135	AEH-0902-160	AEH-0905-150
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate		

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)		488	470		490	499
SC (umhos/cm at 25 C)	467	462	454	454	497	499
Total Suspended Solids	<10				<10	<10
TDS (Measured at 180 C)	297	309	301	304	307	318
Water Temperature (C) (Fld)		10.7	10		9.9	9.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3
Water	SAMPLE DATE	11/16/2000	5/14/2001	11/7/2001	5/20/2002	11/15/2002	5/30/2003
	SAMPLE TIME	15:00	14:00	10:45	11:00	10:45	10:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001922026	L010699016	L011538002	L020370008	L020950006	L030242003
	SAMPLE NUMBER	IMMW-0011-127	EHC-0105-183	EHC-0111-180	EHC-0205-209	EHC-0211-198	AEH-0306-102
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	318	305	294	315	320	317
Calcium (Ca) (DIS)	80	85	81	79	91	79
Carbonate As CO3	<1		<1	<1	<1	<2
Chloride (Cl)	9.2	13	11	9.4	11 J	10
Magnesium (Mg) (DIS)	18	19	19	18	21	18
Potassium (K) (DIS)	5.6	5.3	5.7	5.5	6.9	5.3
Sodium (Na) (DIS)	24	21	25	22	24	22
Sulfate (SO4)	52	49	30 J	55	53	56
Total Alkalinity As CaCO3	261	250	241	258	262	260

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.01 J	<0.05	<0.05	<0.05	<0.05	
Arsenic (As) (DIS)	0.01 U	0.01 U	0.01 UJ	0.01	0.01	0.01
Arsenic III (dis)	<0.03	0.008 U	0.005 U	0.005	0.006	0.006
Arsenic V (dis)	<0.02	0.007	0.008	0.006	0.005	0.007
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004 J	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.07 U	<0.05	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.02 J	0.03	0.03	0.02	0.03	0.03
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			-91	9.5		
Oxygen (O) (DIS) (Fld)		0.8	0.2	0.6	1.5	0.2
pH	7.4	7.9	7.9		7.4	7.6
Silicon+Silica (Si+SiO2)	44	45	46	41	45	
Depth To Water Level (ft)	30.8	30.2	30.2	31.1	30.8	30
Eh (millivolts)	244.5	373	157			
pH (Fld)	7.3	7.4	7.04	7.6	6.5	6.6
SC (umhos/cm at 25 C) (Fld)	457	447	578	577	504	516
SC (umhos/cm at 25 C)	609	616	610	619	622	621
Total Suspended Solids		<1	<1	2	1.4 J	1.5
TDS (Measured at 180 C)	414	423	413	415	416 J	411
Salinity (G/KG) (Fld)					0.2	0.2
Turbidity (NTU) (Fld)					2	1
Water Temperature (C) (Fld)	8.5	11.5	9.7	10.7	9.6	10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3
Water	SAMPLE DATE	10/24/2003	5/20/2004	11/1/2004	5/17/2005	11/11/2005	5/5/2006
	SAMPLE TIME	13:10	15:55	15:45	13:20	09:45	15:00
	LAB	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel
	LAB NUMBER	L030598008	H04050133-016	H04110018-014	C05050640-021	H05110105-004	H06050069-005
	SAMPLE NUMBER	AEH-0310-326	AEH-0405-139	AEH-0411-184	AEH-0505-178	AEH-0511-158	AEH-0605-169
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	310	320	310	313	300	310
	Calcium (Ca) (DIS)	85	87	93	88	79	88
	Carbonate As CO3	<2					
	Chloride (Cl)	8.5	11	10 UJ	10	12 UJ	9
	Magnesium (Mg) (DIS)	20	19	21	20	18	20
	Potassium (K) (DIS)	6	7	7	6	6	6
	Sodium (Na) (DIS)	25	23 UJ	22	23	23	24
	Sulfate (SO4)	61	70	54	59	49	54
	Total Alkalinity As CaCO3	254	260	250	257	250	260
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.01	0.013	0.012	0.011	0.011	0.011 UJ
	Arsenic III (dis)	<0.005	<0.001 J	<0.001	<0.005	<0.005	<0.005
	Arsenic V (dis)	0.01	0.015 UJ	0.013	0.01	0.009	0.01
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
	Iron (Fe) (DIS)	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)	0.03	0.03	0.03	0.03	0.03	0.03
	Zinc (Zn) (DIS)	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	0.04	0.16	0.09	0.21	0.31	0.75
	pH	8	7.5	7.2	7.69	7.1	7.2
	Depth To Water Level (ft)	30.82	30.52	30.23	30.1	29.7	29.6
	pH (Fld)	6.91	6.38	6.95	6.7	6.77	6.67
	SC (umhos/cm at 25 C) (Fld)	622	795	621	1173 R	609	579
	SC (umhos/cm at 25 C)	630	674	563	623	583	607
	Total Suspended Solids	3.1	<10	<10 J	<10 J	<10	<10
	TDS (Measured at 180 C)	417	397	391	458	375	384
	TDS - Calculated				406		
	Salinity (G/KG) (Fld)	0.2	0.3				
	Turbidity (NTU) (Fld)	1	10				
	Water Temperature (C) (Fld)	9.9	10.3	9.7	9.82	10.17	10.49

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3
Water	SAMPLE DATE	11/8/2006	3/29/2007	3/29/2007	6/5/2007	7/27/2007	9/11/2007
	SAMPLE TIME	13:05	11:00	11:10	09:30	10:45	09:25
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110071-002	H07030242-004	H07030242-005	H07060043-001	H07070291-007	H07090102-001
	SAMPLE NUMBER	AEH-0611-124	AEH-0703-128	AEH-0703-129	AEH-0705-231	AEH-0707-142	AEH-0709-132
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	310	310	310	310	310	320
Calcium (Ca) (DIS)	76	91	93	79	81	81
Chloride (Cl)	9	9	11	9	11	9
Magnesium (Mg) (DIS)	17	21	21	18	18	18
Potassium (K) (DIS)	7	6	6	6	6	6
Sodium (Na) (DIS)	22	22	23	23	23	24
Sulfate (SO4)	52	56	56	58	57	64
Total Alkalinity As CaCO3	260	260	260	250	260	260

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)				<0.003		
Selenium-VI (DIS)				0.0039		
Aluminum (Al) (DIS)				<0.1		
Antimony (Sb) (DIS)				<0.005		
Arsenic (As) (DIS)	0.011	0.011	0.011	0.011	0.011 UJ	0.011
Arsenic III (DIS)	<0.005	<0.005	<0.005	<0.005		
Arsenic V (DIS)	0.01	0.01	0.01	0.0092		
Barium (Ba) (DIS)				<0.1		
Beryllium (Be) (DIS)				<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)				<0.001		
Cobalt (Co) (DIS)				<0.01		
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	0.04
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.03	0.03	0.03	0.03	0.03	0.03
Mercury (Hg) (DIS)				<0.006		
Nickel (Ni) (DIS)				<0.01		
Selenium (Se) (DIS)		0.006	0.006	0.012	0.006	0.006
Silver (Ag) (DIS)				<0.005		
Thallium (Tl) (DIS)				<0.002		
Tin (Sn) (DIS)				<0.1		
Vanadium (V) (DIS)				<0.01		
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01

**Nutrients: ppm unless noted**

Total Organic Carbon				0.9		
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**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	67.6	100.3				
Oxygen (O) (DIS) (Fld)	0.95	0.46		0.06	0.2	0.71
pH	7.3	7.5	7.6	7.3	7.4	7.2
Depth To Water Level (ft)	29.18	30.37		30.23	29.89	30.29

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3
Water	SAMPLE DATE	11/8/2006	3/29/2007	3/29/2007	6/5/2007	7/27/2007	9/11/2007
	SAMPLE TIME	13:05	11:00	11:10	09:30	10:45	09:25
	LAB	Hydrometrics	Hydrometrics	ELI	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H06110071-002	H07030242-004	H07030242-005	H07060043-001	H07070291-007	H07090102-001
	SAMPLE NUMBER	AEH-0611-124	AEH-0703-128	AEH-0703-129	AEH-0705-231	AEH-0707-142	AEH-0709-132
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			
<b>Physical/Fld-Lab: ppm unless noted</b>							
	pH (Fld)	6.79	6.9		7.03	6.96	7.02
	SC (umhos/cm at 25 C) (Fld)	589	615		611	615	607
	SC (umhos/cm at 25 C)	578	612	612	574	608	548
	Total Suspended Solids	<10	<10	<10	<10	<10	<10
	TDS (Measured at 180 C)	388	398	403	385	400	406
	Water Temperature (C) (Fld)	9.75	9.45		10.36	10.43	9.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3
Water	SAMPLE DATE	11/16/2007	2/1/2008	3/3/2008	5/5/2008	7/16/2008	8/20/2008
	SAMPLE TIME	13:08	11:15	11:00	11:40	17:15	12:35
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07110140-005	H08020014-006	H08030053-001	H08050066-006	H08070357-005	H08080360-002
	SAMPLE NUMBER	AEH-0711-140	AEH-0801-145	AEH-0802-137	AEH-0805-142	AEH-0807-149	AEH-0808-103
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		310		310	310	
Calcium (Ca) (DIS)	78	80	77	93	84	92
Chloride (Cl)	10	10	10	11	12	11
Magnesium (Mg) (DIS)	18	18	18	20	19	21
Potassium (K) (DIS)	7	6	7	6	4	7
Sodium (Na) (DIS)	22	22	22	22	20	21
Sulfate (SO4)	56	58	59	62	67	68
Total Alkalinity As CaCO3	260	260	250	250	250	240

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005		<0.005	<0.005		<0.005
Selenium-VI (DIS)	<0.005		<0.005	<0.005		0.0053
Aluminum (Al) (DIS)	<0.1		<0.1	<0.1		<0.1
Aluminum (Al) (TOT)			<0.1			
Antimony (Sb) (DIS)	<0.005		<0.005	<0.005		<0.005
Antimony (Sb) (TOT)			<0.005			
Arsenic (As) (DIS)	0.011	0.011	0.012	0.011	0.012	0.011
Arsenic (As) (TOT)			0.013			
Arsenic III (DIS)	<0.001		<0.001	<0.005		<0.005
Arsenic V (DIS)	0.0129		0.0114	9.699999E-03		0.0109
Barium (Ba) (DIS)	<0.1		<0.1	<0.1		<0.1
Barium (Ba) (TOT)			<0.1			
Beryllium (Be) (DIS)	<0.001		<0.001	<0.001		<0.001
Beryllium (Be) (TOT)			<0.001			
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)			<0.001			
Chromium (Cr) (DIS)	<0.001		<0.001	<0.001		<0.001
Chromium (Cr) (TOT)			<0.001			
Cobalt (Co) (DIS)	<0.01		<0.01	<0.01		<0.01
Cobalt (Co) (TOT)			<0.01			
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)			<0.004			
Iron (Fe) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02
Iron (Fe) (TOT)			0.03			
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)			<0.005			
Manganese (Mn) (DIS)	0.03	0.03	0.03	0.03	0.03	0.03
Manganese (Mn) (TOT)			0.03			
Mercury (Hg) (DIS)	<0.006		<0.006	<0.006		<0.006

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3
Water	SAMPLE DATE	11/16/2007	2/1/2008	3/3/2008	5/5/2008	7/16/2008	8/20/2008
	SAMPLE TIME	13:08	11:15	11:00	11:40	17:15	12:35
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07110140-005	H08020014-006	H08030053-001	H08050066-006	H08070357-005	H08080360-002
	SAMPLE NUMBER	AEH-0711-140	AEH-0801-145	AEH-0802-137	AEH-0805-142	AEH-0807-149	AEH-0808-103
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Metals (mg/L): ppm unless noted**

Mercury (Hg) (TOT)				<0.006			
Nickel (Ni) (DIS)	<0.01			<0.01	<0.01		<0.01
Nickel (Ni) (TOT)				<0.01			
Selenium (Se) (DIS)	0.006	0.007	0.006	0.006	0.006	0.006	0.006
Selenium (Se) (TOT)			0.006				
Silver (Ag) (DIS)	<0.005		<0.005	<0.005	<0.005		<0.005
Silver (Ag) (TOT)			<0.005				
Thallium (Tl) (DIS)	<0.002		<0.002	<0.002	<0.002		<0.002
Thallium (Tl) (TOT)			<0.002				
Tin (Sn) (DIS)	<0.1		<0.1				
Tin (Sn) (TOT)			<0.1				
Vanadium (V) (DIS)	<0.01		<0.01	<0.01	<0.01		<0.01
Vanadium (V) (TOT)			<0.01				
Zinc (Zn) (DIS)	<0.02	<0.01	<0.01	0.01	0.01		<0.02
Zinc (Zn) (TOT)			<0.01				

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.5	0.16	0.7	0.32	0.14	0.24
pH		7.2		7.2	7.4	
Depth To Water Level (ft)	29.72	30.34	30.33	30.18	29.33	30.16
pH (Fld)	6.85	6.77	6.94	6.85	6.76	6.74
SC (umhos/cm at 25 C) (Fld)	603	651	649	619	644	644
SC (umhos/cm at 25 C)	588	557	634	606	605	612
Total Suspended Solids	<10	<10		<10	<10	
TDS (Measured at 180 C)	392	408	402	390	406	389
Water Temperature (C) (Fld)	10.32	9.5	9.7	10.1	10.4	11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-3	MW-3	MW-3	MW-3	MW-4
Water	SAMPLE DATE	8/20/2008	10/30/2008	2/6/2009	5/7/2009	11/16/2000
	SAMPLE TIME	12:45	11:55	14:55	14:30	15:20
	LAB	ELI	ELI	ELI	ELI	TSC-SLC
	LAB NUMBER	H08080360-003	H08100411-006	H09020067-012	H09050158-011	L001922027
	SAMPLE NUMBER	AEH-0808-104	AEH-0811-139	AEH-0902-161	AEH-0905-149	IMMW-0011-128
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)				310	300	212
Calcium (Ca) (DIS)	92	87	79	76	55	
Carbonate As CO3						<1
Chloride (Cl)	11	11	10	9	8.8	
Magnesium (Mg) (DIS)	21	20	17	18	12	
Potassium (K) (DIS)	7	6	6	6	5.8	
Sodium (Na) (DIS)	22	22	22	20	31	
Sulfate (SO4)	67	67	63	63	64	
Total Alkalinity As CaCO3	240	250	250	250	174	

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005				
Selenium-VI (DIS)	0.005	<0.005				
Aluminum (Al) (DIS)	<0.1	<0.1	<0.01	<0.1		<0.01 J
Antimony (Sb) (DIS)	<0.005	<0.005	<0.003	<0.003		
Arsenic (As) (DIS)	0.011	0.01	0.011	0.01		<0.005
Arsenic III (DIS)	<0.005	<0.005				<0.03
Arsenic V (DIS)	0.0111	0.011				<0.02
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1		
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001		<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001	<0.001		
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.0005		
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.001		<0.004 J
Gold (Au) (DIS)				<0.01		
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02		0.1 U
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005		<0.005
Manganese (Mn) (DIS)	0.03	0.03	0.03	0.03		<0.02 J
Mercury (Hg) (DIS)	<0.006	<0.006	<0.001	<0.0001		
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01		
Selenium (Se) (DIS)	0.006	0.006	0.006	0.008		
Silver (Ag) (DIS)	<0.005	<0.005	<0.005	<0.005 J		
Tellurium (Te) (DIS)				<0.1		
Thallium (Tl) (DIS)	<0.002	<0.002	<0.001	<0.001		
Vanadium (V) (DIS)	<0.01	<0.01	<0.01	<0.01		
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.01		<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		0.28	0.51	0.19		
pH			7.5	7.3		7.8
Silicon+Silica (Si+SiO2)						45

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-3	MW-3	MW-3	MW-3	MW-4
Water	SAMPLE DATE	8/20/2008	10/30/2008	2/6/2009	5/7/2009	11/16/2000
	SAMPLE TIME	12:45	11:55	14:55	14:30	15:20
	LAB	ELI	Hydrometrics	Hydrometrics	Hydrometrics	TSC-SLC
	LAB NUMBER	H08080360-003	H08100411-006	H09020067-012	H09050158-011	L001922027
	SAMPLE NUMBER	AEH-0808-104	AEH-0811-139	AEH-0902-161	AEH-0905-149	IMMW-0011-128
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Field Duplicate				

**Physical/Fid-Lab: ppm unless noted**

Depth To Water Level (ft)		30.46	30.03	29.7	45.1
Eh (millivolts)					251.2
pH (Fld)		6.84	6.68	6.74	7.5
SC (umhos/cm at 25 C) (Fld)		602	611	608	382
SC (umhos/cm at 25 C)	615	582	616	607	511
Total Suspended Solids			<10	<10	
TDS (Measured at 180 C)	382	401	402	402	378
Water Temperature (C) (Fld)		9.9	9.7	9.7	8.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
Water	SAMPLE DATE	5/14/2001	11/7/2001	5/20/2002	11/15/2002	5/30/2003	10/24/2003
	SAMPLE TIME	11:30	12:05	11:30	09:15	10:35	11:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010699005	L011538003	L020370009	L020950003	L030242004	L030598004
	SAMPLE NUMBER	EHC-0105-184	EHC-0111-181	EHC-0205-210	EHC-0211-199	AEH-0306-103	AEH-0310-323
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	238	207	207	207	193	206
Calcium (Ca) (DIS)	59	55	56	62	52	58
Carbonate As CO3		<1	<1	<1	<2	<2
Chloride (Cl)	13	10	11	10 J	8	7.5
Magnesium (Mg) (DIS)	13	12	12	13	11	13
Potassium (K) (DIS)	6.1	5.9	6.1	8	6	6.6
Sodium (Na) (DIS)	29	30	30	32	27	32
Sulfate (SO4)	72	40 J	79	71	64	71
Total Alkalinity As CaCO3	195	170	170	170	158	169

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05	<0.05	<0.05		
Arsenic (As) (DIS)	<0.005	<0.005 J	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)	0.006 U	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	0.002	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.05	<0.02	<0.02	0.02	<0.02	<0.03
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential		110.5	9.8			
Oxygen (O) (DIS) (Fld)	6.6	7	8.3	8.8	7.9	7.08
pH	8.2	8		7.4	7.6	8
Silicon+Silica (Si+SiO2)	48	51	44	48		
Depth To Water Level (ft)	50.6	45	45.7	46.05	46.03	46.1
Eh (millivolts)	347	358				
pH (Fld)	8.7	7.5	7.6	6.5	6.7	7.3
SC (umhos/cm at 25 C) (Fld)	491	499	420	408	386	487
SC (umhos/cm at 25 C)	505	482	504	503	464	512
Total Suspended Solids	17	5.4	2.1	830	135	36
TDS (Measured at 180 C)	360	368	358	217 J	325	344
Salinity (G/KG) (Fld)				0.1	0.1	0.1
Turbidity (NTU) (Fld)				979	269	41
Water Temperature (C) (Fld)	12	9.8	11.3	10.3	13.7	10.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
Water	SAMPLE DATE	5/25/2004	11/3/2004	5/17/2005	11/11/2005	11/11/2005	5/5/2006
	SAMPLE TIME	11:45	10:40	12:30	08:45	08:45	13:55
	LAB	ELI	ELI	ELI-Casper	ASARCO	ELI-Hel	ELI-Hel
	LAB NUMBER	H04050175-005	H04110037-008	C05050640-018	H05110092-001	H05110105-001	H06050069-002
	SAMPLE NUMBER	AEH-0405-169	AEH-0411-210	AEH-0505-175	AEH-0511-155	AEH-0511-155	AEH-0605-166
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	210	200	203		190	200
Calcium (Ca) (DIS)	59	66	60		57	59
Chloride (Cl)	10	10	9		10 UJ	10
Magnesium (Mg) (DIS)	12	14	13		12	12
Potassium (K) (DIS)	7	7	6		6	6
Sodium (Na) (DIS)	30	27	29		28	30
Sulfate (SO4)	65	69	85		73	73
Total Alkalinity As CaCO3	180	170	167		160	170

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	<0.005	0.003		0.003	0.003 UJ
Arsenic III (dis)	<0.001	<0.001	<0.005		<0.005	<0.005
Arsenic V (dis)	0.0053	0.0023	<0.005		<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001		<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004		<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02		<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005		<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.02	<0.02		<0.02	<0.02
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02		<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	8.4	10.3	9.59	10.01		6.33
pH	7.8	7.7	7.88		7.6	7.3
Depth To Water Level (ft)	46.36	46.57	45.92	45.22		45.9
pH (Fld)	6.67	7.24	6.87	6.86		7.1
SC (umhos/cm at 25 C) (Fld)	804	507	467	575		473
SC (umhos/cm at 25 C)	412	462	493		476	490
Total Suspended Solids	27	241	648 J		44	72
TDS (Measured at 180 C)	343	336	373 UJ		325	323
TDS - Calculated			352			
Salinity (G/KG) (Fld)	0.3					
Water Temperature (C) (Fld)	10.3	9.9	9.98	10.29		10.87

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
Water	SAMPLE DATE	11/8/2006	6/5/2007	11/16/2007	3/3/2008	3/3/2008	5/5/2008
	SAMPLE TIME	13:35	10:30	14:15	11:25	11:45	10:45
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110071-004	H07060043-002	H07110140-007	H08030053-002	H08030053-003	H08050066-004
	SAMPLE NUMBER	AEH-0611-126	AEH-0705-232	AEH-0711-142	AEH-0802-138	AEH-0802-139	AEH-0805-140
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	210	210				210
Calcium (Ca) (DIS)	55	56	52	55	56	66
Chloride (Cl)	10	10	9	10	11	11
Magnesium (Mg) (DIS)	12	12	11	12	12	13
Potassium (K) (DIS)	7	7	7	7	7	6
Sodium (Na) (DIS)	28	30	27	30	30	31
Sulfate (SO4)	71	74	62	70	71	71
Total Alkalinity As CaCO3	170	170	160	170	170	170

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005
Selenium-VI (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005 J-
Aluminum (Al) (DIS)		<0.1	<0.1	<0.1	<0.1	<0.1
Aluminum (Al) (TOT)				0.4	0.5	
Antimony (Sb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005
Antimony (Sb) (TOT)				<0.005	<0.005	
Arsenic (As) (DIS)	0.003	0.004	<0.005	<0.005	<0.005	0.003
Arsenic (As) (TOT)				0.005	<0.005	
Arsenic III (DIS)	<0.005	<0.005	<0.001	<0.001	<0.001	<0.005
Arsenic V (DIS)	<0.005	<0.005	0.0031	0.003	0.0022	<0.005
Barium (Ba) (DIS)		<0.1	<0.1	<0.1	<0.1	<0.1
Barium (Ba) (TOT)				<0.1	<0.1	
Beryllium (Be) (DIS)		<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium (Be) (TOT)				<0.001	<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)				<0.001	<0.001	
Chromium (Cr) (DIS)		<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (TOT)				<0.001	<0.001	
Cobalt (Co) (DIS)		<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co) (TOT)				<0.01	<0.01	
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)				<0.004	<0.004	
Iron (Fe) (DIS)	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02
Iron (Fe) (TOT)				0.44	0.46	
Lead (Pb) (DIS)	0.142	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)				<0.005	<0.005	
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Manganese (Mn) (TOT)				<0.01	<0.01	
Mercury (Hg) (DIS)		<0.006	<0.006	<0.006	<0.006	<0.006

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
Water	SAMPLE DATE	11/8/2006	6/5/2007	11/16/2007	3/3/2008	3/3/2008	5/5/2008
	SAMPLE TIME	13:35	10:30	14:15	11:25	11:45	10:45
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110071-004	H07060043-002	H07110140-007	H08030053-002	H08030053-003	H08050066-004
	SAMPLE NUMBER	AEH-0611-126	AEH-0705-232	AEH-0711-142	AEH-0802-138	AEH-0802-139	AEH-0805-140
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Metals (mg/L): ppm unless noted</b>							
	Mercury (Hg) (TOT)				<0.006	<0.006	
	Nickel (Ni) (DIS)		<0.01	<0.01	<0.01	<0.01	<0.01
	Nickel (Ni) (TOT)				<0.01	<0.01	
	Selenium (Se) (DIS)		0.006	<0.005	<0.005	<0.005	<0.005
	Selenium (Se) (TOT)				<0.005	<0.005	
	Silver (Ag) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005 J
	Silver (Ag) (TOT)				<0.005	<0.005	
	Thallium (Tl) (DIS)		<0.002	<0.002	<0.002	<0.002	<0.002
	Thallium (Tl) (TOT)				<0.002	<0.002	
	Tin (Sn) (DIS)		<0.1	<0.1	<0.1	<0.1	
	Tin (Sn) (TOT)				<0.1	<0.1	
	Vanadium (V) (DIS)		<0.01	<0.01	<0.01	<0.01	<0.01
	Vanadium (V) (TOT)				<0.01	<0.01	
	Zinc (Zn) (DIS)	<0.02	<0.01	<0.02	<0.01	<0.01	0.01
	Zinc (Zn) (TOT)				0.01	<0.01	
<b>Nutrients: ppm unless noted</b>							
	Total Organic Carbon		<0.5				
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxidation Reduction Potential	82.3					
	Oxygen (O) (DIS) (Fld)	6.54	8.37	7.88	9.05		8.43
	pH	7.6	7.6				7.5
	Depth To Water Level (ft)	44.58	45.6	44.94	45.51		45.51
	pH (Fld)	7.21	7.45	7.32	7.1		7.04
	SC (umhos/cm at 25 C) (Fld)	492	506	475	534		517
	SC (umhos/cm at 25 C)	491	486	460	532	532	508
	Total Suspended Solids	37	<10				<10
	TDS (Measured at 180 C)	342	334	321	345	346	345
	Water Temperature (C) (Fld)	10.03	11.19	12.34	9.7		10.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-4	MW-4	MW-4	MW-4	MW-4
Water	SAMPLE DATE	8/19/2008	10/30/2008	2/6/2009	5/7/2009	5/7/2009
	SAMPLE TIME	10:50	11:40	10:45	08:45	09:05
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08080354-001	H08100411-005	H09020067-002	H09050158-002	H09050158-003
	SAMPLE NUMBER	AEH-0808-100	AEH-0811-138	AEH-0902-151	AEH-0905-140	AEH-0905-141
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)			220	200	200
Calcium (Ca) (DIS)	52	62	56	52	54
Chloride (Cl)	10	11	9	9	9
Magnesium (Mg) (DIS)	10	13	11	11	12
Potassium (K) (DIS)	5	7	6	6	6
Sodium (Na) (DIS)	26	30	29	26	26
Sulfate (SO4)	70	77	71	70	71
Total Alkalinity As CaCO3	160	180	180	160	170

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005			
Selenium-VI (DIS)	<0.005	<0.005			
Aluminum (Al) (DIS)	<0.1	<0.1	<0.01	<0.1	<0.1
Antimony (Sb) (DIS)	<0.005	<0.005	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	<0.005	<0.005	0.004	<0.005	<0.005
Arsenic III (DIS)	<0.005	<0.005			
Arsenic V (DIS)	0.0051	<0.005			
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	0.0006	0.0005
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.001	0.002
Gold (Au) (DIS)				<0.01	<0.01
Iron (Fe) (DIS)	0.03	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.006	<0.006	<0.001	<0.0001	<0.0001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	0.004 UJ	0.005 UJ
Silver (Ag) (DIS)	<0.005	<0.005	<0.005	<0.005 J	<0.005 J
Tellurium (Te) (DIS)				<0.1	<0.1
Thallium (Tl) (DIS)	<0.002	<0.002	<0.001	<0.001	<0.001
Tin (Sn) (DIS)	<0.1				
Vanadium (V) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	8.08	9.24	7.61	9.2	
pH			7.8	7.5	7.5
Depth To Water Level (ft)	45.31	45.71	45.37	45.66	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-4	MW-4	MW-4	MW-4	MW-4
Water	SAMPLE DATE	8/19/2008	10/30/2008	2/6/2009	5/7/2009	5/7/2009
	SAMPLE TIME	10:50	11:40	10:45	08:45	09:05
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	ELI
	LAB NUMBER	H08080354-001	H08100411-005	H09020067-002	H09050158-002	H09050158-003
	SAMPLE NUMBER	AEH-0808-100	AEH-0811-138	AEH-0902-151	AEH-0905-140	AEH-0905-141
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					Field Duplicate

**Physical/Fld-Lab: ppm unless noted**

pH (Fld)	7.09	7.04	7.11	7.02	
SC (umhos/cm at 25 C) (Fld)	507	497	494	489	
SC (umhos/cm at 25 C)	484	483	508	497	498
Total Suspended Solids			13	24 J+	20 J+
TDS (Measured at 180 C)	328	346	337	306	334
Water Temperature (C) (Fld)	12.2	10	9.8	10.2	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
Water	SAMPLE DATE	11/17/2000	5/14/2001	11/15/2001	5/20/2002	11/15/2002	5/30/2003
	SAMPLE TIME	09:50	12:00	16:15	14:35	08:45	11:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001922028	L010699011	L011573006	L020370014	L020950002	L030242005
	SAMPLE NUMBER	IMMW-0011-129	EHC-0105-185	EHC-0111-182	EHC-0205-211	EHC-0211-200	AEH-0306-104
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	161	166	149	156	167	166
Calcium (Ca) (DIS)	34	37	35	36	39	36
Carbonate As CO3	<1		7	<1	<1	<2
Chloride (Cl)	5.7	7.2	5.8	5.1	6.2 J	5.5
Magnesium (Mg) (DIS)	7.1	7.7	7.4	7.4	8	7.5
Potassium (K) (DIS)	<5	<5	<5	<5	<5	<5
Sodium (Na) (DIS)	25	23	25	25	26	25
Sulfate (SO4)	26	36	31	24	51	26
Total Alkalinity As CaCO3	132	136	133	128	137	136

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.01	<0.05	<0.05	<0.05	<0.05	
Arsenic (As) (DIS)	0.006	<0.005	0.009 U	0.006	0.007	0.006
Arsenic III (dis)	<0.03	0.008 U	<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)	<0.02	<0.005	<0.005	<0.005	0.008	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.04 U	<0.05	<0.02	<0.02	0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			-5.7	-30.8		
Oxygen (O) (DIS) (Fld)	7.2	6.04	9.2	7.1	9.8	8
pH	8	8.3	8.5		7.7	7.8
Silicon+Silica (Si+SiO2)	41	42	43	38	43	
Depth To Water Level (ft)	51.6	52	51.5	51.9	52.4	52.4
Eh (millivolts)	388.8	354	228			
pH (Fld)	7.7	8.5	7.6	8.3	6.4	7.1
SC (umhos/cm at 25 C) (Fld)	273	290	369	172	280	289
SC (umhos/cm at 25 C)	340	345	338	326	339	345
Total Suspended Solids		79	304	42	866	34
TDS (Measured at 180 C)	256	250	256	235	229 J	230
Salinity (G/KG) (Fld)					0.1	0.1
Turbidity (NTU) (Fld)					415	48
Water Temperature (C) (Fld)	10.3	11.7	11.5	17	10.4	10.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
Water	SAMPLE DATE	10/24/2003	5/25/2004	11/3/2004	5/17/2005	5/17/2005	11/10/2005
	SAMPLE TIME	00:00	11:15	09:50	12:00	12:05	12:00
	LAB	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Casper	ELI-Hel
	LAB NUMBER	AEH-0310-446	H04050175-004	H04110037-005	C05050640-016	C05050640-017	H05110092-007
	SAMPLE NUMBER	AEH-0310-446	AEH-0405-168	AEH-0411-207	AEH-0505-173	AEH-0505-174	AEH-0511-149
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only Req			No Fld DO		
	REMARKS	No Sample				Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	170	160	166	165	170
Calcium (Ca) (DIS)	38	46	39	39	41
Chloride (Cl)	7	9	6	6	11 UJ
Magnesium (Mg) (DIS)	7	9	8	8	9
Potassium (K) (DIS)	4	4	<5	<5	5
Sodium (Na) (DIS)	23	23	24	25	21
Sulfate (SO4)	33	33	42	38	37
Total Alkalinity As CaCO3	140	130	136	136	140

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.008	0.008	0.007	0.007	0.006
Arsenic III (dis)	0.0018	<0.001	<0.005	<0.005	<0.005
Arsenic V (dis)	0.0096	0.0049	0.006	0.006	0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02 J
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.11	14.3			6.15
pH	7.9	7.8	8.09	8.09	7.6
Depth To Water Level (ft)	52.53	52.62	52.09	52.35	52.02
pH (Fld)	6.91	7.28	7.55		7.28
SC (umhos/cm at 25 C) (Fld)	549	353	273		375
SC (umhos/cm at 25 C)	284	323	344	348	368
Total Suspended Solids	119	199	587 J	1970 J	478
TDS (Measured at 180 C)	240	255	257 UJ	264 UJ	238
TDS - Calculated			247	245	
Salinity (G/KG) (Fld)	0.2				
Water Temperature (C) (Fld)	10.7	10.2	11.06		10.79

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
Water	SAMPLE DATE	5/5/2006	11/9/2006	6/8/2007	6/8/2007	11/26/2007	11/26/2007
	SAMPLE TIME	13:30	09:50	10:05	10:15	14:00	14:10
	LAB	ELI-Hel	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06050069-001	H06110081-005	H07060083-003	H07060083-004	H07110183-003	H07110183-004
	SAMPLE NUMBER	AEH-0605-165	AEH-0611-134	AEH-0705-242	AEH-0705-243	AEH-0711-146	AEH-0711-147
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	190	170	170	170			
Calcium (Ca) (DIS)	41	40	37	37	37	37	
Chloride (Cl)	7	7 J	6	6	6	6	
Magnesium (Mg) (DIS)	8	8	7	8	8	8	
Potassium (K) (DIS)	4	5	4	4	5	5	
Sodium (Na) (DIS)	25	20	21	22	23	23	
Sulfate (SO4)	49	32	30	30	29	29	
Total Alkalinity As CaCO3	160	140	140	140	140	140	
<b>Metals (mg/L): ppm unless noted</b>							
Selenium-IV (DIS)			<0.005	<0.005	<0.005	<0.005	
Selenium-VI (DIS)			<0.002	<0.002	<0.005	<0.005	
Aluminum (Al) (DIS)			<0.1	<0.1	<0.1	<0.1	
Antimony (Sb) (DIS)			<0.005	<0.005	<0.005	<0.005	
Arsenic (As) (DIS)	0.007 UJ	0.005	0.006	0.006	0.006	0.006	
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	
Arsenic V (dis)	0.006	0.006	0.006	0.0063	0.0068	0.0083	
Barium (Ba) (DIS)			<0.1	<0.1	<0.1	<0.1	
Beryllium (Be) (DIS)			<0.001	<0.001	<0.001	<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chromium (Cr) (DIS)			<0.001	<0.001	0.002	<0.001	
Cobalt (Co) (DIS)			<0.01	<0.01	<0.01	<0.01	
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	
Mercury (Hg) (DIS)			<0.006	<0.006	<0.006	<0.006	
Nickel (Ni) (DIS)			<0.01	<0.01	<0.01	<0.01	
Selenium (Se) (DIS)			<0.005	<0.005	<0.005	<0.005	
Silver (Ag) (DIS)			<0.005	<0.005	<0.005	<0.005	
Thallium (Tl) (DIS)			<0.002	<0.002	<0.002	<0.002	
Tin (Sn) (DIS)			<0.1	<0.1	<0.1	<0.1	
Vanadium (V) (DIS)			<0.01	<0.01	<0.01	<0.01	
Zinc (Zn) (DIS)	<0.02	<0.02	<0.01	<0.01	<0.02	<0.02	
<b>Nutrients: ppm unless noted</b>							
Total Organic Carbon			<0.5	<0.5			
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxidation Reduction Potential		104.6					
Oxygen (O) (DIS) (Fld)	6.11	9.12	8.74		8.96		
pH	7.3	7.7	8	8			
Depth To Water Level (ft)	52.48	51.7	52.12		51.76		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
Water	SAMPLE DATE	5/5/2006	11/9/2006	6/8/2007	6/8/2007	11/26/2007	11/26/2007
	SAMPLE TIME	13:30	09:50	10:05	10:15	14:00	14:10
	LAB	ELI-Hel	Hydrometrics	Hydrometrics	ELI	Hydrometrics	ELI
	LAB NUMBER	H06050069-001	H06110081-005	H07060083-003	H07060083-004	H07110183-003	H07110183-004
	SAMPLE NUMBER	AEH-0605-165	AEH-0611-134	AEH-0705-242	AEH-0705-243	AEH-0711-146	AEH-0711-147
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		Field Duplicate
<b>Physical/Fld-Lab: ppm unless noted</b>							
	pH (Fld)	7.37	7.26	7.61		7.37	
	SC (umhos/cm at 25 C) (Fld)	403	357	345		367	
	SC (umhos/cm at 25 C)	360	353	330	332	357	362
	Total Suspended Solids	407	464 J	39 J	25 J		
	TDS (Measured at 180 C)	243	258	239	238	237	236
	Water Temperature (C) (Fld)	11.28	10.03	10.8		10.19	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
Water	SAMPLE DATE	3/4/2008	3/4/2008	5/5/2008	8/20/2008	10/30/2008	2/6/2009
	SAMPLE TIME	09:35	09:50	14:00	13:05	16:20	13:15
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08030072-002	H08030072-003	H08050066-011	H08080360-006	H08100411-013	H09020067-008
	SAMPLE NUMBER	AEH-0802-145	AEH-0802-146	AEH-0805-148	AEH-0808-107	AEH-0811-146	AEH-0902-157
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)			170			170
Calcium (Ca) (DIS)	35	36	40	34	39	35
Chloride (Cl)	6	6	6	6	6	6
Magnesium (Mg) (DIS)	7	7	8	7	8	6
Potassium (K) (DIS)	4	4	4	<5	4	4
Sodium (Na) (DIS)	23	23	23	23	23	23
Sulfate (SO4)	30	30	29	28	32	27
Total Alkalinity As CaCO3	140	140	140	140	140	140

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	
Selenium-VI (DIS)	<0.005	<0.005	<0.005 J-	<0.005	<0.005	
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.01
Aluminum (Al) (TOT)	9.1 J+	7.8 J+				
Antimony (Sb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.003
Antimony (Sb) (TOT)	<0.005	<0.005				
Arsenic (As) (DIS)	0.007	0.007	0.007	0.007	0.006	0.007
Arsenic (As) (TOT)	0.007	0.008				
Arsenic III (DIS)	0.0251 R	<0.001 R	<0.005	<0.005	<0.005	
Arsenic V (DIS)	0.0861 R	0.0217 R	0.0071	0.008	0.0075	
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Barium (Ba) (TOT)	<0.1	<0.1				
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium (Be) (TOT)	0.002	0.002				
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)	<0.001	<0.001				
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (TOT)	0.003	0.003				
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co) (TOT)	<0.01	<0.01				
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)	0.006	0.006				
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Iron (Fe) (TOT)	6.14	5.38				
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	0.017	0.014				
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Manganese (Mn) (TOT)	0.16	0.14				
Mercury (Hg) (DIS)	<0.006	<0.006	<0.006	<0.006	<0.006	<0.001

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
Water	SAMPLE DATE	3/4/2008	3/4/2008	5/5/2008	8/20/2008	10/30/2008	2/6/2009
	SAMPLE TIME	09:35	09:50	14:00	13:05	16:20	13:15
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08030072-002	H08030072-003	H08050066-011	H08080360-006	H08100411-013	H09020067-008
	SAMPLE NUMBER	AEH-0802-145	AEH-0802-146	AEH-0805-148	AEH-0808-107	AEH-0811-146	AEH-0902-157
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Metals (mg/L): ppm unless noted**

Mercury (Hg) (TOT)	<0.006	<0.006				
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni) (TOT)	<0.01	<0.01				
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Selenium (Se) (TOT)	<0.005	<0.005				
Silver (Ag) (DIS)	<0.005	<0.005	<0.005 J	<0.005	<0.005	<0.005
Silver (Ag) (TOT)	<0.005	<0.005				
Thallium (Tl) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001
Thallium (Tl) (TOT)	<0.002	<0.002				
Tin (Sn) (DIS)	<0.1	<0.1				
Tin (Sn) (TOT)	<0.1	<0.1				
Vanadium (V) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vanadium (V) (TOT)	<0.01	0.01				
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
Zinc (Zn) (TOT)	0.05	0.04				

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.22	9.22	7.66	7.5	9.09	7.52
pH			7.8			8
Depth To Water Level (ft)	52.02		52.08	51.98	52.28	51.99
pH (Fld)	7.64	7.64	7.46	7.37	7.52	7.41
SC (umhos/cm at 25 C) (Fld)	365	365	346	354	339	341
SC (umhos/cm at 25 C)	360	360	342	337	334	344
Total Suspended Solids			14			104
TDS (Measured at 180 C)	237	235	230	219	226	212
Water Temperature (C) (Fld)	9.8	9.8	10.7	11.7	10.5	9.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-5	MW-6	MW-6	MW-6	MW-6
Water	SAMPLE DATE	5/7/2009	11/16/2000	5/14/2001	11/7/2001	5/20/2002
	SAMPLE TIME	12:50	16:00	14:15	10:30	14:15
	LAB	ELI	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050158-007	L001922029	L010699002	L011538004	L020370013
	SAMPLE NUMBER	AEH-0905-145	IMMW-0011-130	EHC-0105-186	EHC-0111-183	EHC-0205-212
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	170	362	346	349	354
Calcium (Ca) (DIS)	34	85	93	88	92
Carbonate As CO3		<1		<1	<1
Chloride (Cl)	5	8.2	14	8.7	10
Magnesium (Mg) (DIS)	7	18	21	19	20
Potassium (K) (DIS)	4	<5	5.1	<5	<5
Sodium (Na) (DIS)	22	26	23	25	23
Sulfate (SO4)	28	43	53	6.1 J	63
Total Alkalinity As CaCO3	140	297	284	286	290

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.01 J	<0.05	<0.05	<0.05
Antimony (Sb) (DIS)	<0.003				
Arsenic (As) (DIS)	0.007	0.2 U	0.1	0.1 J	0.2
Arsenic III (dis)		0.09 U	0.09	0.1	0.1
Arsenic V (dis)		<0.02	0.04	0.02	0.05
Barium (Ba) (DIS)	<0.1				
Beryllium (Be) (DIS)	<0.001				
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001				
Cobalt (Co) (DIS)	<0.0005				
Copper (Cu) (DIS)	<0.001	<0.004 J	0.004	<0.004	<0.004
Gold (Au) (DIS)	<0.01				
Iron (Fe) (DIS)	<0.02	0.3 U	0.2	0.2	0.2
Lead (Pb) (DIS)	<0.005	<0.005	0.009	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	5.1 J	4.7	4.6	4.8
Mercury (Hg) (DIS)	<0.0001				
Nickel (Ni) (DIS)	<0.01				
Selenium (Se) (DIS)	0.003 UJ				
Silver (Ag) (DIS)	<0.005 J				
Tellurium (Te) (DIS)	<0.1				
Thallium (Tl) (DIS)	<0.001				
Vanadium (V) (DIS)	<0.01				
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential				-151.7	24.1
Oxygen (O) (DIS) (Fld)	9.27		1	0.6	0.8
pH	7.8	7.5	8	7.8	
Silicon+Silica (Si+SiO2)		42	43	44	40
Depth To Water Level (ft)	52.25	27	26.2	26.5	27.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-5	MW-6	MW-6	MW-6	MW-6
Water	SAMPLE DATE	5/7/2009	11/16/2000	5/14/2001	11/7/2001	5/20/2002
	SAMPLE TIME	12:50	16:00	14:15	10:30	14:15
	LAB	Hydrometrics	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050158-007	L001922029	L010699002	L011538004	L020370013
	SAMPLE NUMBER	AEH-0905-145	IMMW-0011-130	EHC-0105-186	EHC-0111-183	EHC-0205-212
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

Eh (millivolts)		132.4	142	96	
pH (Fid)	7.47	7.5	7.8	6.2	7.4
SC (umhos/cm at 25 C) (Fid)	343	472	482	634	643
SC (umhos/cm at 25 C)	344	662	662	650	680
Total Suspended Solids	748 J+		27	15	5.9
TDS (Measured at 180 C)	229	464	444	444	455
Water Temperature (C) (Fid)	10	6.9	11.6	9.5	10.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6
Water	SAMPLE DATE	11/15/2002	5/30/2003	5/30/2003	10/24/2003	5/25/2004	11/3/2005
	SAMPLE TIME	11:00	12:30	12:45	13:25	10:50	15:22
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ASARCO
	LAB NUMBER	L020950007	L030242007	L030242008	L030598009	H04050175-003	AEH-0511-252
	SAMPLE NUMBER	EHC-0211-201	AEH-0306-106	AEH-0306-107	AEH-0310-327	AEH-0405-167	AEH-0511-252
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						SWL Only
	REMARKS			Field Duplicate			No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	354	351	359	339	350
Calcium (Ca) (DIS)	106	94	92	99	92
Carbonate As CO3	<1	<2	<2	<2	
Chloride (Cl)	9.9 J	9.4	8.8	7.1	8
Magnesium (Mg) (DIS)	23	21	20	21	19
Potassium (K) (DIS)	6.1	5	<5	5.2	5
Sodium (Na) (DIS)	27	25	25	28	25
Sulfate (SO4)	74	69	78	84	88
Total Alkalinity As CACO3	290	288	294	278	290

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05				
Arsenic (As) (DIS)	0.2	0.1	0.1	0.2	0.172
Arsenic III (dis)	0.1	0.1	0.1	0.1 J	0.022
Arsenic V (dis)	0.03	0.05	0.05	0.007	0.18
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.2	0.2	0.2	0.2	0.25
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	5.4	4.8	4.8	5.3	5.22
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.2	0.2		0.9	1.51
pH	7.7	7.5	7.5	8	7.5
Silicon+Silica (Si+SiO2)	43				
Depth To Water Level (ft)	27.4	26		27.05	26.69
pH (Fld)	6.5	6.8		7.01	6.46
SC (umhos/cm at 25 C) (Fld)	576	574		703	950
SC (umhos/cm at 25 C)	713	700	699	706	546
Total Suspended Solids	7.9 J	5	5	17	11
TDS (Measured at 180 C)	484 J	464	466	482	441
Salinity (G/KG) (Fld)	0.2	0.2		0.2	0.3
Turbidity (NTU) (Fld)	4	15		4	
Water Temperature (C) (Fld)	9.5	10		9.7	10.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6
Water	SAMPLE DATE	4/28/2006	11/6/2006	6/8/2007	11/27/2007	3/4/2008	5/5/2008
	SAMPLE TIME	11:21	00:00	12:10	09:40	11:20	17:10
	LAB	Hydro	Hydrometrics	ELI	ELI	ELI	ELI
	LAB NUMBER	AEH-0605-MW6	z	H07060083-008	H07110195-002	H08030072-008	H08050097-003
	SAMPLE NUMBER	AEH-0605-MW6	AEH-0611-MW6	AEH-0705-247	AEH-0711-155	AEH-0802-151	AEH-0805-152
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only	SWL Only				
	REMARKS	No Sample	No Sample				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	330			320
Calcium (Ca) (DIS)	98	95	92	106
Chloride (Cl)	9	10	9	10
Magnesium (Mg) (DIS)	21	20	20	22
Potassium (K) (DIS)	5	6	5	5
Sodium (Na) (DIS)	26	29	29	26
Sulfate (SO4)	116	124	110	120
Total Alkalinity As CaCO3	270	260	260	260

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005	<0.005	<0.005
Selenium-VI (DIS)	<0.002	<0.005	<0.005	<0.005
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1
Aluminum (Al) (TOT)			0.3 J+	
Antimony (Sb) (DIS)	<0.005	<0.005	<0.005	<0.005
Antimony (Sb) (TOT)			<0.005	
Arsenic (As) (DIS)	0.137	0.121	0.134	0.124
Arsenic (As) (TOT)			0.135	
Arsenic III (DIS)	0.121	0.0965 J-	0.121 J	0.14
Arsenic V (DIS)	<0.0025	0.0013	0.0019 J	<0.005
Barium (Ba) (DIS)	0.1	0.1	0.1	0.1
Barium (Ba) (TOT)			0.1	
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001
Beryllium (Be) (TOT)			<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)			<0.001	
Chromium (Cr) (DIS)	0.001	<0.001	<0.001	<0.001
Chromium (Cr) (TOT)			<0.001	
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01
Cobalt (Co) (TOT)			<0.01	
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)			<0.004	
Iron (Fe) (DIS)	0.29	0.24	0.28	0.32
Iron (Fe) (TOT)			0.43	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)			<0.005	
Manganese (Mn) (DIS)	5.57	5.37	5	5.72
Manganese (Mn) (TOT)			5.03	
Mercury (Hg) (DIS)	<0.006	<0.006	<0.006	<0.006

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6
Water	SAMPLE DATE	4/28/2006	11/6/2006	6/8/2007	11/27/2007	3/4/2008	5/5/2008
	SAMPLE TIME	11:21	00:00	12:10	09:40	11:20	17:10
	LAB	Hydro	Hydrometrics	ELI	ELI	ELI	ELI
	LAB NUMBER	AEH-0605-MW6	z	H07060083-008	H07110195-002	H08030072-008	H08050097-003
	SAMPLE NUMBER	AEH-0605-MW6	AEH-0611-MW6	AEH-0705-247	AEH-0711-155	AEH-0802-151	AEH-0805-152
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only	SWL Only				
	REMARKS	No Sample	No Sample				

**Metals (mg/L): ppm unless noted**

Mercury (Hg) (TOT)						<0.006	
Nickel (Ni) (DIS)				<0.01	<0.01	<0.01	<0.01
Nickel (Ni) (TOT)						<0.01	
Selenium (Se) (DIS)				<0.005	<0.005	<0.005	<0.005
Selenium (Se) (TOT)						<0.005	
Silver (Ag) (DIS)				<0.005	<0.005	<0.005	<0.005
Silver (Ag) (TOT)						<0.005	
Thallium (Tl) (DIS)				<0.002	<0.002	<0.002	<0.002
Thallium (Tl) (TOT)						<0.002	
Tin (Sn) (DIS)				<0.1	<0.1	<0.1	
Tin (Sn) (TOT)						<0.1	
Vanadium (V) (DIS)				<0.01	<0.01	<0.01	<0.01
Vanadium (V) (TOT)						<0.01	
Zinc (Zn) (DIS)				<0.01	<0.02	<0.01	<0.01
Zinc (Zn) (TOT)						<0.01	

**Nutrients: ppm unless noted**

Total Organic Carbon				2			
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**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)				0.91	0.14	1.14	0.32
pH				7.5			7.3
Depth To Water Level (ft)	25.64	25.24		26.34	25.74	26.42	26.27
pH (Fld)				7.08	7.13	7	7.01
SC (umhos/cm at 25 C) (Fld)				734	674	726	727
SC (umhos/cm at 25 C)				701	730	738	696
Total Suspended Solids				10 J			68
TDS (Measured at 180 C)				505	502	491	472
Water Temperature (C) (Fld)				14.1	9.82	9.6	12.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-6	MW-6	MW-6	MW-6	MW-6
Water	SAMPLE DATE	8/20/2008	10/30/2008	2/9/2009	5/8/2009	5/8/2009
	SAMPLE TIME	18:30	13:20	09:10	09:25	09:50
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08080360-011	H08100411-007	H09020078-002	H09050167-001	H09050167-002
	SAMPLE NUMBER	AEH-0808-112	AEH-0811-140	AEH-0902-163	AEH-0905-152	AEH-0905-153
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)			320	300	300
Calcium (Ca) (DIS)	124	102	99	88	88
Chloride (Cl)	26	11	18	12	12
Magnesium (Mg) (DIS)	28	22	22	18	18
Potassium (K) (DIS)	7	6	6	5	5
Sodium (Na) (DIS)	27	26	26	24	25
Sulfate (SO4)	180	110	140	99	100
Total Alkalinity As CaCO3	240	260	260	250	250

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005			
Selenium-VI (DIS)	<0.005	<0.005			
Aluminum (Al) (DIS)	<0.1	<0.1	<0.01	0.1	0.1
Antimony (Sb) (DIS)	<0.005	<0.005	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	0.089	0.116	0.077	0.073	0.074
Arsenic III (DIS)	0.045	8.930001E-02			
Arsenic V (DIS)	0.0357	0.0066			
Barium (Ba) (DIS)	0.1	0.1	0.1	0.1	0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	<0.01	<0.001	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	0.0006	0.0007
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.002	0.002
Gold (Au) (DIS)				0.03	0.03
Iron (Fe) (DIS)	0.07	0.35	0.18	0.23	0.23
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	4.72	4.42	4.52	4.26	4.25
Mercury (Hg) (DIS)	<0.006	<0.006	<0.001	0.0003	0.0002
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.007	<0.005	<0.005	0.003 UJ	0.003 UJ
Silver (Ag) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)				<0.1	<0.1
Thallium (Tl) (DIS)	<0.002	<0.002	<0.001	<0.001	<0.001
Vanadium (V) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		0.18	1.54	0.15	
pH			7.3	7.5	7.6
Depth To Water Level (ft)		26.51	26.12	25.62	
pH (Fld)		6.83	6.8	6.86	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-6	MW-6	MW-6	MW-6	MW-6
Water	SAMPLE DATE	8/20/2008	10/30/2008	2/9/2009	5/8/2009	5/8/2009
	SAMPLE TIME	18:30	13:20	09:10	09:25	09:50
	LAB	ELI	Hydrometrics	Hydrometrics	Hydrometrics	ELI
	LAB NUMBER	H08080360-011	H08100411-007	H09020078-002	H09050167-001	H09050167-002
	SAMPLE NUMBER	AEH-0808-112	AEH-0811-140	AEH-0902-163	AEH-0905-152	AEH-0905-153
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					Field Duplicate

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)		691	772	767	
SC (umhos/cm at 25 C)	763	662	758	682	679
Total Suspended Solids			<10	<10	<10
TDS (Measured at 180 C)	564	468	512	454	453
Water Temperature (C) (Fld)		10.2	9.9	10	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7
Water	SAMPLE DATE	11/17/2000	5/14/2001	11/7/2001	5/20/2002	11/15/2002	5/30/2003
	SAMPLE TIME	10:30	13:00	13:45	00:00	08:15	12:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ASARCO	TSC-SLC	TSC-SLC
	LAB NUMBER	L001922030	L010699008	L011538005	EHC0205213	L020950001	L030242006
	SAMPLE NUMBER	IMMW-0011-131	EHC-0105-187	EHC-0111-184	EHC-0205-213	EHC-0211-202	AEH-0306-105
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	116	102	113	106	104
Calcium (Ca) (DIS)	17	20	18	20	18
Carbonate As CO3	<1		<1	<1	<2
Chloride (Cl)	5.1	2.8	2.2	2.3 J	1.6
Magnesium (Mg) (DIS)	5	6	5.6	6	5.6
Potassium (K) (DIS)	<5	<5	<5	5.4	<5
Sodium (Na) (DIS)	19	18	20	22	18
Sulfate (SO4)	22	23	12 J	21	25
Total Alkalinity As CACO3	95	84	93	87	85

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	0.02	<0.05	<0.05	<0.05	
Arsenic (As) (DIS)	0.01	0.02 U	0.02 UJ	0.02	0.01
Arsenic III (dis)	<0.03	0.007 U	0.008 U	0.01	0.007
Arsenic V (dis)	0.04	0.01	0.01	0.01	0.008
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.04 U	<0.05	0.02	0.07	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.04	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			46.3	-27.5	
Oxygen (O) (DIS) (Fld)	5.9	6	9.1	5.5	10.2
pH	7.7	7.9	7.8		7.2
Silicon+Silica (Si+SiO2)	49	57	58		57
Depth To Water Level (ft)	54.7	55	55.2	55.2	55.9
Eh (millivolts)	393.5	350	294		
pH (Fld)	7.8	8.4	7.9	8.2	6
SC (umhos/cm at 25 C) (Fld)	174	193	258	168	193
SC (umhos/cm at 25 C)	225	230	227		231
Total Suspended Solids		678	156		2350
TDS (Measured at 180 C)	198	214	211		181 J
Salinity (G/KG) (Fld)					0.0
Turbidity (NTU) (Fld)					542
Water Temperature (C) (Fld)	9.6	13.2	10	17.5	10.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7
Water	SAMPLE DATE	10/24/2003	5/25/2004	11/3/2005	4/28/2006	11/6/2006	3/29/2007
	SAMPLE TIME	00:00	10:15	15:48	11:05	00:00	10:25
	LAB	TSC-SLC	ELI	ASARCO	Hydro	Hydrometrics	ELI
	LAB NUMBER	AEH-0310-445	H04050175-001	AEH-0511-258	AEH-0605-MW7	z	H07030242-003
	SAMPLE NUMBER	AEH-0310-445	AEH-0405-165	AEH-0511-258	AEH-0605-MW7	AEH-0611-MW7	AEH-0703-127
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only Req		SWL Only	SWL Only	SWL Only	
	REMARKS	No Sample		No Sample	No Sample	No Sample	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	110	100
Calcium (Ca) (DIS)	19	21
Chloride (Cl)	1	2
Magnesium (Mg) (DIS)	5	6
Potassium (K) (DIS)	5	5
Sodium (Na) (DIS)	20	20
Sulfate (SO4)	28	34
Total Alkalinity As CaCO3	90	85

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.02	0.015
Arsenic III (dis)	0.011	<0.005
Arsenic V (dis)	0.028	0.02
Cadmium (Cd) (DIS)	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01
Selenium (Se) (DIS)		<0.005
Zinc (Zn) (DIS)	<0.01	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential		85.2				
Oxygen (O) (DIS) (Fld)	8.17	8.76				
pH	7.4	7.8				
Depth To Water Level (ft)	56.03	56.12	56.42	56.96	56.77	57.43
pH (Fld)	6.85	7.31				
SC (umhos/cm at 25 C) (Fld)	369	236				
SC (umhos/cm at 25 C)	190	235				
Total Suspended Solids	16	365				
TDS (Measured at 180 C)	189	188				
Salinity (G/KG) (Fld)	0.1					
Water Temperature (C) (Fld)	12.3	8.37				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7
Water	SAMPLE DATE	6/8/2007	7/27/2007	9/11/2007	11/26/2007	2/1/2008	3/7/2008
	SAMPLE TIME	00:00	11:30	10:00	00:00	00:00	00:00
	LAB	Hydrometrics	ELI	ELI	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	z	H07070291-008	H07090102-002	AEH-0711-148	AEH-0801-144	AEH-0802-152
	SAMPLE NUMBER	AEH-0705-240	AEH-0707-143	AEH-0709-133	AEH-0711-148	AEH-0801-144	AEH-0802-152
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	lo Samp-Low SWL			lo Samp-Low SWL	lo Samp-Low SWL	lo Samp-Low SWL
	REMARKS	No Sample			No Sample	No Sample	No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	110	130
Calcium (Ca) (DIS)	18	18
Chloride (Cl)	2	3
Magnesium (Mg) (DIS)	5	5
Potassium (K) (DIS)	5	5
Sodium (Na) (DIS)	20	21
Sulfate (SO4)	23	23
Total Alkalinity As CaCO3	87	110

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.016 UJ	0.017
Cadmium (Cd) (DIS)	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004
Iron (Fe) (DIS)	0.03	0.04
Lead (Pb) (DIS)	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01
Selenium (Se) (DIS)	<0.005	<0.005
Zinc (Zn) (DIS)	<0.01	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		9.45 J	9.26			
pH		7.9	7.9			
Depth To Water Level (ft)	57.11	57.56	57.04	56.6	57.05	57.08
pH (Fld)		7.59	7.39			
SC (umhos/cm at 25 C) (Fld)		230	264			
SC (umhos/cm at 25 C)		232	212			
Total Suspended Solids		32	135			
TDS (Measured at 180 C)		182	177			
Water Temperature (C) (Fld)		14.73	11.7			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-7	MW-7	MW-7	MW-7	MW-8
Water	SAMPLE DATE	5/5/2008	7/16/2008	2/6/2009	5/8/2009	11/9/2006
	SAMPLE TIME	13:30	00:00	09:15	10:30	08:50
	LAB		Hydrometrics	ELI	ELI	ELI
	LAB NUMBER	AEH-0805-147	AEH-0807-148	H09020067-001	H09050167-004	H06110081-002
	SAMPLE NUMBER	AEH-0805-147	AEH-0807-148	AEH-0902-150	AEH-0905-155	AEH-0611-131
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	to Samp-Low SWL	to Samp-Low SWL			
	REMARKS	No Sample	No Sample			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	120	110	190
Calcium (Ca) (DIS)	16	16	51
Chloride (Cl)	2	2	10 J
Magnesium (Mg) (DIS)	4	4	10
Potassium (K) (DIS)	5	5	6
Sodium (Na) (DIS)	19	19	24
Sulfate (SO4)	11	13	67
Total Alkalinity As CaCO3	94	88	160

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	0.02	<0.1	
Antimony (Sb) (DIS)	<0.003	<0.003	
Arsenic (As) (DIS)	0.017	0.014	0.005
Arsenic III (DIS)			<0.005
Arsenic V (DIS)			0.006
Barium (Ba) (DIS)	<0.1	<0.1	
Beryllium (Be) (DIS)	<0.001	<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	
Cobalt (Co) (DIS)	<0.01	0.0006	
Copper (Cu) (DIS)	<0.004	0.001	<0.004
Gold (Au) (DIS)		<0.01	
Iron (Fe) (DIS)	0.02	0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	0.05
Mercury (Hg) (DIS)	<0.001	<0.0001	
Nickel (Ni) (DIS)	<0.01	<0.01	
Selenium (Se) (DIS)	<0.005	<0.001	
Silver (Ag) (DIS)	<0.005	<0.005	
Tellurium (Te) (DIS)		<0.1	
Thallium (Tl) (DIS)	<0.001	<0.001	
Vanadium (V) (DIS)	0.02	0.02	
Zinc (Zn) (DIS)	<0.02	<0.01	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential				109.3
Oxygen (O) (DIS) (Fld)		7.74	6.92	9.72
pH			7.8	7.7
Depth To Water Level (ft)	57.04	57.35	57.1	57.47
pH (Fld)		7.13	7.35	7.27
SC (umhos/cm at 25 C) (Fld)		233	216	216

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-7	MW-7	MW-7	MW-8
Water	SAMPLE DATE	7/16/2008	2/6/2009	5/8/2009	11/9/2006
	SAMPLE TIME	00:00	09:15	10:30	08:50
	LAB	Hydrometrics	ELI	ELI	ELI
	LAB NUMBER	AEH-0807-148	H09020067-001	H09050167-004	H06110081-002
	SAMPLE NUMBER	AEH-0807-148	AEH-0902-150	AEH-0905-155	AEH-0611-131
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI
	DESCRIPTION	lo Samp-Low SWL			
	REMARKS	No Sample			

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C)	223	214	450
Total Suspended Solids	424	1090 J+	1020 J
TDS (Measured at 180 C)	174	171	340
Water Temperature (C) (Fid)	11.88	9.7	9.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8
Water	SAMPLE DATE	6/8/2007	11/26/2007	3/4/2008	5/5/2008	8/20/2008	10/30/2008
	SAMPLE TIME	11:10	15:40	10:20	14:35	15:50	14:50
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07060083-007	H07110183-009	H08030072-005	H08050066-012	H08080360-007	H08100411-009
	SAMPLE NUMBER	AEH-0705-246	AEH-0711-153	AEH-0802-148	AEH-0805-149	AEH-0808-108	AEH-0811-142
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	190			200		
Calcium (Ca) (DIS)	51	53	52	60	57	59
Chloride (Cl)	9	9	10	10	10	10
Magnesium (Mg) (DIS)	10	11	11	11	11	12
Potassium (K) (DIS)	7	7	6	6	7	7
Sodium (Na) (DIS)	23	23	24	24	24	23
Sulfate (SO4)	63	60	62	62	64	68
Total Alkalinity As CaCO3	160	160	160	160	160	160

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Selenium-VI (DIS)	<0.002	<0.005	<0.005	<0.005 J-	<0.005	<0.005
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aluminum (Al) (TOT)			5.5 J+			
Antimony (Sb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Antimony (Sb) (TOT)			<0.005			
Arsenic (As) (DIS)	0.007	0.007	0.008	0.007	0.006	0.007
Arsenic (As) (TOT)			0.01			
Arsenic III (DIS)	<0.005	<0.001	<0.001 J	<0.005	<0.005	<0.005
Arsenic V (DIS)	0.0069	0.0083	0.0075 J	0.0066	0.0079	0.0088
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Barium (Ba) (TOT)			<0.1			
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium (Be) (TOT)			0.001			
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)			<0.001			
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (TOT)			0.006			
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co) (TOT)			<0.01			
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)			0.007			
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Iron (Fe) (TOT)			4.77			
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)			0.008			
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Manganese (Mn) (TOT)			0.07			
Mercury (Hg) (DIS)	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8
Water	SAMPLE DATE	6/8/2007	11/26/2007	3/4/2008	5/5/2008	8/20/2008	10/30/2008
	SAMPLE TIME	11:10	15:40	10:20	14:35	15:50	14:50
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07060083-007	H07110183-009	H08030072-005	H08050066-012	H08080360-007	H08100411-009
	SAMPLE NUMBER	AEH-0705-246	AEH-0711-153	AEH-0802-148	AEH-0805-149	AEH-0808-108	AEH-0811-142
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Metals (mg/L): ppm unless noted**

Mercury (Hg) (TOT)				<0.006			
Nickel (Ni) (DIS)	<0.01	<0.01		<0.01	<0.01		<0.01
Nickel (Ni) (TOT)				<0.01			
Selenium (Se) (DIS)	<0.005	<0.005		<0.005	<0.005		<0.005
Selenium (Se) (TOT)				<0.005			
Silver (Ag) (DIS)	<0.005	<0.005		<0.005	0.005 J	<0.005	<0.005
Silver (Ag) (TOT)				<0.005			
Thallium (Tl) (DIS)	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002
Thallium (Tl) (TOT)				<0.002			
Tin (Sn) (DIS)	<0.1	<0.1		<0.1			
Tin (Sn) (TOT)				<0.1			
Vanadium (V) (DIS)	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
Vanadium (V) (TOT)				<0.01			
Zinc (Zn) (DIS)	<0.01	<0.02		<0.01	0.01	<0.02	<0.02
Zinc (Zn) (TOT)				0.04			

**Nutrients: ppm unless noted**

Total Organic Carbon	<0.5						
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**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.87	8.12	8.33	6.51	6.46	7.1
pH	7.8			7.5		
Depth To Water Level (ft)	50.92	50.46	50.68	50.72	50.62	51.09
pH (Fld)	7.26	7.22	7.26	7.21	7	7.28
SC (umhos/cm at 25 C) (Fld)	463	481	483	469	478	450
SC (umhos/cm at 25 C)	437	466	481	461	414	439
Total Suspended Solids	69 J			51		
TDS (Measured at 180 C)	321	312	323	315	301	322
Water Temperature (C) (Fld)	11.2	9.84	9.8	10.7	11.6	10.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-8	MW-8	MW-9	MW-9	MW-9
Water	SAMPLE DATE	2/6/2009	5/7/2009	11/9/2006	11/9/2006	6/8/2007
	SAMPLE TIME	13:45	13:25	09:20	09:30	10:25
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H09020067-009	H09050158-008	H06110081-003	H06110081-004	H07060083-005
	SAMPLE NUMBER	AEH-0902-158	AEH-0905-146	AEH-0611-132	AEH-0611-133	AEH-0705-244
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS				Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	190	190	190	190	180
Calcium (Ca) (DIS)	53	53	46	45	48
Chloride (Cl)	9	9	10 J	8 J	8
Magnesium (Mg) (DIS)	10	11	9	9	10
Potassium (K) (DIS)	6	6	5	5	5
Sodium (Na) (DIS)	23	21	24	23	22
Sulfate (SO4)	63	65	46	49	50
Total Alkalinity As CaCO3	160	150	150	160	150

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)					<0.005
Selenium-VI (DIS)					<0.002
Aluminum (Al) (DIS)	<0.01	<0.1			<0.1
Antimony (Sb) (DIS)	<0.003	<0.003			<0.005
Arsenic (As) (DIS)	0.008	0.007	0.006	0.006	0.006
Arsenic III (DIS)			<0.005	<0.005	<0.005
Arsenic V (DIS)			0.008	0.007	0.0064
Barium (Ba) (DIS)	<0.1	<0.1			<0.1
Beryllium (Be) (DIS)	<0.001	<0.001			<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001			<0.001
Cobalt (Co) (DIS)	<0.01	<0.0005			<0.01
Copper (Cu) (DIS)	<0.004	<0.001	<0.004	<0.004	<0.004
Gold (Au) (DIS)		<0.01			
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001	<0.0001			<0.006
Nickel (Ni) (DIS)	<0.01	<0.01			<0.01
Selenium (Se) (DIS)	<0.005	0.003 UJ			<0.005
Silver (Ag) (DIS)	<0.005	<0.005 J			<0.005
Tellurium (Te) (DIS)		<0.1			
Thallium (Tl) (DIS)	<0.001	<0.001			<0.002
Tin (Sn) (DIS)					<0.1
Vanadium (V) (DIS)	<0.01	<0.01			<0.01
Zinc (Zn) (DIS)	<0.02	<0.01	<0.02	<0.02	<0.01

**Nutrients: ppm unless noted**

Total Organic Carbon					<0.5
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**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential			105.6		
Oxygen (O) (DIS) (Fld)	6.28	7.62	10.24		7.26

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-8	MW-8	MW-9	MW-9	MW-9
Water	SAMPLE DATE	2/6/2009	5/7/2009	11/9/2006	11/9/2006	6/8/2007
	SAMPLE TIME	13:45	13:25	09:20	09:30	10:25
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H09020067-009	H09050158-008	H06110081-003	H06110081-004	H07060083-005
	SAMPLE NUMBER	AEH-0902-158	AEH-0905-146	AEH-0611-132	AEH-0611-133	AEH-0705-244
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS				Field Duplicate	

**Physical/Fld-Lab: ppm unless noted**

pH	7.7	7.5	7.7	7.8	8
Depth To Water Level (ft)	50.68	50.88	56.8		57.14
pH (Fld)	7.06	7.09	7.29		7.41
SC (umhos/cm at 25 C) (Fld)	458	464	419		424
SC (umhos/cm at 25 C)	466	466	416	415	407
Total Suspended Solids	81	31 J+	664 J	1370 J	95 J
TDS (Measured at 180 C)	311	324	306	294	292
Water Temperature (C) (Fld)	10.1	10.1	9.93		11.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9
Water	SAMPLE DATE	11/26/2007	3/4/2008	5/5/2008	8/20/2008	10/30/2008	2/6/2009
	SAMPLE TIME	15:00	10:00	13:20	14:20	15:30	12:10
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07110183-006	H08030072-004	H08050066-009	H08080360-005	H08100411-010	H09020067-007
	SAMPLE NUMBER	AEH-0711-150	AEH-0802-147	AEH-0805-145	AEH-0808-106	AEH-0811-143	AEH-0902-156
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)				190			190
Calcium (Ca) (DIS)	46	47	54	48	51	46	
Chloride (Cl)	8	8	9	8	9	8	
Magnesium (Mg) (DIS)	9	10	10	9	10	9	
Potassium (K) (DIS)	6	5	5	5	6	5	
Sodium (Na) (DIS)	25	25	25	24	24	24	
Sulfate (SO4)	48	50	51	50	55	49	
Total Alkalinity As CaCO3	160	150	150	160	160	160	

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Selenium-VI (DIS)	<0.005	<0.005	<0.005 J-	<0.005	<0.005	<0.005
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.01
Aluminum (Al) (TOT)		7.3 J+				
Antimony (Sb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.003
Antimony (Sb) (TOT)		<0.005				
Arsenic (As) (DIS)	0.005	0.006	0.006	0.006	0.006	0.006
Arsenic (As) (TOT)		0.007				
Arsenic III (DIS)	<0.001	0.0091 R	<0.005	<0.005	<0.005	<0.005
Arsenic V (DIS)	0.0067	0.0467 R	0.006	0.0075	0.0073	
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Barium (Ba) (TOT)		<0.1				
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium (Be) (TOT)		0.002				
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)		<0.001				
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (TOT)		0.003				
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co) (TOT)		<0.01				
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)		0.007				
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Iron (Fe) (TOT)		3.98				
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)		0.013				
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Manganese (Mn) (TOT)		0.13				
Mercury (Hg) (DIS)	<0.006	<0.006	<0.006	<0.006	<0.006	<0.001

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9
Water	SAMPLE DATE	11/26/2007	3/4/2008	5/5/2008	8/20/2008	10/30/2008	2/6/2009
	SAMPLE TIME	15:00	10:00	13:20	14:20	15:30	12:10
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07110183-006	H08030072-004	H08050066-009	H08080360-005	H08100411-010	H09020067-007
	SAMPLE NUMBER	AEH-0711-150	AEH-0802-147	AEH-0805-145	AEH-0808-106	AEH-0811-143	AEH-0902-156
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Metals (mg/L): ppm unless noted**

Mercury (Hg) (TOT)		<0.006				
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni) (TOT)		<0.01				
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Selenium (Se) (TOT)		<0.005				
Silver (Ag) (DIS)	<0.005	<0.005	<0.005 J	<0.005	<0.005	<0.005
Silver (Ag) (TOT)		<0.005				
Thallium (Tl) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001
Thallium (Tl) (TOT)		<0.002				
Tin (Sn) (DIS)	<0.1	<0.1				
Tin (Sn) (TOT)		<0.1				
Vanadium (V) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vanadium (V) (TOT)		<0.01				
Zinc (Zn) (DIS)	<0.02	<0.01	0.01	<0.02	<0.02	<0.02
Zinc (Zn) (TOT)		0.04				

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.41	9.11	7.67	7.35	8.57	6.99
pH			7.6			7.7
Depth To Water Level (ft)	56.88	56.94	56.96	56.96	57.28	55.95
pH (Fld)	7.37	7.42	7.35	7.17	7.37	7.17
SC (umhos/cm at 25 C) (Fld)	441	448	466	438	418	423
SC (umhos/cm at 25 C)	429	443	422	414	405	428
Total Suspended Solids			79			206
TDS (Measured at 180 C)	290	295	288	282	282	280
Water Temperature (C) (Fld)	9.85	9.7	10.6	11.9	10.4	9.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-9	PRB-1	PRB-2	PRB-2
Water	SAMPLE DATE	5/7/2009	11/17/2006	11/10/2006	11/1/2007
	SAMPLE TIME	10:35	15:11	12:00	13:08
	LAB	ELI	ELI	ELI	Hydrometrics
	LAB NUMBER	H09050158-006	H06110160-003	H06110088-009	AEH-0711-PRB2
	SAMPLE NUMBER	AEH-0905-144	AEH-0611-211	AEH-0611-152	AEH-0711-PRB2
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI
	DESCRIPTION				SWL Only Req
	REMARKS				No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	190	100	220
Calcium (Ca) (DIS)	46	120	112
Chloride (Cl)	7	80	67
Magnesium (Mg) (DIS)	10	46	22
Potassium (K) (DIS)	6	19	14
Sodium (Na) (DIS)	23	104	197
Sulfate (SO4)	51	520	415
Total Alkalinity As CaCO3	160	85	180

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1		
Antimony (Sb) (DIS)	<0.003		
Arsenic (As) (DIS)	0.006	6.405	2
Arsenic III (DIS)		<0.1 J-	<0.03 J
Arsenic V (DIS)		7.7 J-	2.7
Barium (Ba) (DIS)	<0.1		
Beryllium (Be) (DIS)	<0.001		
Cadmium (Cd) (DIS)	<0.001	0.82	0.003
Chromium (Cr) (DIS)	<0.001		
Cobalt (Co) (DIS)	<0.0005		
Copper (Cu) (DIS)	0.023	<0.004	<0.004
Gold (Au) (DIS)	<0.01		
Iron (Fe) (DIS)	<0.02	<0.02	0.02
Lead (Pb) (DIS)	<0.005	0.011	<0.005
Manganese (Mn) (DIS)	<0.01	25.52	2.23
Mercury (Hg) (DIS)	<0.0001		
Nickel (Ni) (DIS)	<0.01		
Selenium (Se) (DIS)	0.004 UJ		
Silver (Ag) (DIS)	<0.005 J		
Tellurium (Te) (DIS)	<0.1		
Thallium (Tl) (DIS)	<0.001		
Vanadium (V) (DIS)	<0.01		
Zinc (Zn) (DIS)	<0.01	1.9	0.12

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential		170.4	75.3	
Oxygen (O) (DIS) (Fld)	9.08	0.15	0.46	
pH	7.5	6.4	7.2	
Depth To Water Level (ft)	57.16	34.84	29.4	30.29
pH (Fld)	7.1	5.83	6.72	
SC (umhos/cm at 25 C) (Fld)	425	1519	1471	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MW-9	PRB-1	PRB-2
Water	SAMPLE DATE	5/7/2009	11/17/2006	11/10/2006
	SAMPLE TIME	10:35	15:11	12:00
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09050158-006	H06110160-003	H06110088-009
	SAMPLE NUMBER	AEH-0905-144	AEH-0611-211	AEH-0611-152
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI
	DESCRIPTION			
	REMARKS			

**Physical/Fid-Lab: ppm unless noted**

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SC (umhos/cm at 25 C)	417	1410	1430
Total Suspended Solids	99 J+	48	155
TDS (Measured at 180 C)	288	1120	1060
Water Temperature (C) (Fid)	10.1	11.19	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PRB-3	SPARGE 1	SPARGE 1	SPARGE 1	SPARGE 1
Water	SAMPLE DATE	11/17/2006	6/2/2003	10/30/2003	5/13/2004	10/22/2004
	SAMPLE TIME	14:41	00:00	00:00	13:15	00:00
	LAB	ELI	ASARCO	TSC-SLC	ASARCO	ASARCO
	LAB NUMBER	H06110160-002	0306-226	AEH-0310-459	AEH-0405-241	z
	SAMPLE NUMBER	AEH-0611-210	AEH-0306-226	AEH-0310-459	AEH-0405-241	AEH-0411-251
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION			SWL Only Req	SWL Only Req	SWL Only Req
	REMARKS			No Sample	No Sample	No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	120
Calcium (Ca) (DIS)	204
Chloride (Cl)	182
Magnesium (Mg) (DIS)	82
Potassium (K) (DIS)	15
Sodium (Na) (DIS)	104
Sulfate (SO4)	686
Total Alkalinity As CaCO3	96

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	2.92
Arsenic III (DIS)	<0.1
Arsenic V (DIS)	3.1
Cadmium (Cd) (DIS)	0.085
Copper (Cu) (DIS)	<0.004
Iron (Fe) (DIS)	0.05
Lead (Pb) (DIS)	<0.005
Manganese (Mn) (DIS)	15.02
Zinc (Zn) (DIS)	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	157.8				
Oxygen (O) (DIS) (Fld)	0.17				
pH	6.6				
Depth To Water Level (ft)	37.06	33.5	32.5	34.04	30.62
pH (Fld)	6.01				
SC (umhos/cm at 25 C) (Fld)	2080				
SC (umhos/cm at 25 C)	1880				
Total Suspended Solids	446				
TDS (Measured at 180 C)	1600				
Water Temperature (C) (Fld)	11.44				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SPARGE 1	SPARGE 1	SPARGE 1	SPARGE 1	SPARGE 1
Water	SAMPLE DATE	5/9/2005	11/3/2005	4/28/2006	11/6/2006	11/1/2007
	SAMPLE TIME	15:43	14:45	09:55	00:00	12:48
	LAB	ELI-Casper	ASARCO	Hydro	Hydrometrics	Hydrometrics
	LAB NUMBER	H-0505-SPARGE 1	AEH-0511-253	AEH-0605-SPAR1	z	AEH-0711-SPAR1
	SAMPLE NUMBER	H-0505-SPARGE 1	AEH-0511-253	AEH-0605-SPAR1	AEH-0611-SPAR1	AEH-0711-SPAR1
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only Req	SWL Only	SWL Only	SWL Only	SWL Only Req
	REMARKS	No Sample	No Sample	No Sample	No Sample	No Sample

**Physical/Fid-Lab: ppm unless noted**

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Depth To Water Level (ft)	34.82	31.57	34.03	31.71	32.36
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SPARGE 2	SPARGE 2	SPARGE 2	SPARGE 2	SPARGE 2	SPARGE 2
Water	SAMPLE DATE	6/2/2003	10/30/2003	5/13/2004	10/22/2004	5/9/2005	11/3/2005
	SAMPLE TIME	00:00	00:00	13:16	00:00	15:44	14:46
	LAB	ASARCO	TSC-SLC	ASARCO	ASARCO	ELI-Casper	ASARCO
	LAB NUMBER	0306-227	AEH-0310-460	AEH-0405-242	z	H-0505-SPARGE 2	AEH-0511-254
	SAMPLE NUMBER	AEH-0306-227	AEH-0310-460	AEH-0405-242	AEH-0411-252	H-0505-SPARGE 2	AEH-0511-254
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		SWL Only Req	SWL Only Req	SWL Only Req	SWL Only Req	SWL Only
	REMARKS		No Sample	No Sample	No Sample	No Sample	No Sample
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Depth To Water Level (ft)	33.8	32.75	34.32	30.88	35.09	31.84

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SPARGE 2	SPARGE 2	SPARGE 2	SPARGE 3	SPARGE 3
Water	SAMPLE DATE	4/28/2006	11/6/2006	11/1/2007	5/30/2000	8/3/2000
	SAMPLE TIME	09:56	00:00	12:47	14:35	13:00
	LAB	Hydro	Hydrometrics	Hydrometrics	TSC-SLC	TSC-SLC
	LAB NUMBER	AEH-0605-SPAR2	z	AEH-0711-SPAR2	L000825010	L001239010
	SAMPLE NUMBER	AEH-0605-SPAR2	AEH-0611-SPAR2	AEH-0711-SPAR2	EHST-0005-129	EHST-0008-109
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only	SWL Only	SWL Only Req		
	REMARKS	No Sample	No Sample	No Sample		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	59	49
Calcium (Ca) (DIS)	61	49
Carbonate As CO3	<1	<1
Chloride (Cl)	49	36
Magnesium (Mg) (DIS)	24	19
Potassium (K) (DIS)	15	13
Sodium (Na) (DIS)	133	113
Sulfate (SO4)	411	579 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	25	25
Arsenic III (dis)	22	21
Arsenic V (dis)	1.4	0.9 J
Cadmium (Cd) (DIS)	0.1	0.1
Iron (Fe) (DIS)	13	12
Lead (Pb) (DIS)	<0.005	<0.005
Manganese (Mn) (DIS)	8.3	7
Zinc (Zn) (DIS)	5.5	4.4

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)	0.0				
Iron (Fe+2) (Fld)	0.0	11.8			
Oxygen (O) (DIS) (Fld)	0.9	0.9			
pH	5.9	6			
Depth To Water Level (ft)	34.28	31.45	32.62	33.05	31.8
Eh (millivolts)			240		255
pH (Fld)			6.05		6.2
SC (umhos/cm at 25 C) (Fld)			1150		1116
SC (umhos/cm at 25 C)			1141		1080
Water Temperature (C) (Fld)			13.3		13.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3
Water	SAMPLE DATE	8/3/2000	8/16/2000	8/31/2000	9/13/2000	9/22/2000	10/3/2000
	SAMPLE TIME	13:15	13:45	14:10	15:20	12:35	14:55
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001239011	L001333010	L001441010	L001513011	L001585006	L001649012
	SAMPLE NUMBER	EHST-0008-110	EHST-0008-209	EHST-0008-309	EHST-0009-110	EHST-0009-205	EHST-0010-111
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	54
Calcium (Ca) (DIS)	46
Carbonate As CO3	<1
Chloride (Cl)	36
Magnesium (Mg) (DIS)	19
Potassium (K) (DIS)	12
Sodium (Na) (DIS)	106
Sulfate (SO4)	445 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	25	19	22	3.9	2.8	3.7
Arsenic III (dis)	23	17	21	0.3	<0.02	0.03
Arsenic V (dis)	1 J	1.4	0.7	3.8	2.9	3.8
Cadmium (Cd) (DIS)	0.1					
Iron (Fe) (DIS)	12					
Lead (Pb) (DIS)	<0.005					
Manganese (Mn) (DIS)	6.5					
Zinc (Zn) (DIS)	4.5					

**Physical/Fid-Lab: ppm unless noted**

Iron (Fe) (Fid)		4.6	8.8		<0.5	0.02
Iron (Fe+2) (Fid)		4.2	8.6		<0.5	0.02
Oxygen (O) (DIS) (Fid)	1	1.3	0.8	4.8	9.05	9.1
pH	6					
Depth To Water Level (ft)		33.2	33.5	34.2	34.3	34.4
Eh (millivolts)	251	275	244	409	396	
pH (Fid)	6.2	6.9	6.4	6.7	6.3	6
SC (umhos/cm at 25 C) (Fid)	1123	1098	1050	945	969	866
SC (umhos/cm at 25 C)	1080					
Water Temperature (C) (Fid)	13.8	13.6	13	14.8	10.4	11.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3
Water	SAMPLE DATE	10/17/2000	11/3/2000	11/3/2000	12/20/2000	12/20/2000	2/7/2001
	SAMPLE TIME	15:10	13:40	13:45	14:40	14:55	10:35
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001753003	L001861006	L001861007	L002044010	L002044011	L010183003
	SAMPLE NUMBER	EHST-0010-202	EHST-0011-105	EHST-0011-106	EHST-0012-109	EHST-0012-110	EHST-0102-102
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate	Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)				65	63	
Calcium (Ca) (DIS)				37	37	
Carbonate As CO3				<1	<1	
Chloride (Cl)				30	32	
Magnesium (Mg) (DIS)				16	16	
Potassium (K) (DIS)				11	11	
Sodium (Na) (DIS)				115	117	
Sulfate (SO4)				355	373	
Total Alkalinity As CaCO3				53	52	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	2.2 J	4.1	4.1	19	16	20
Arsenic III (dis)	0.02	<0.005	<0.005	2.7 R	15	17
Arsenic V (dis)	2.5	4.2	4.2	0.5 R	1.6	1.6
Cadmium (Cd) (DIS)				0.09	0.09	
Copper (Cu) (DIS)				0.005	0.005	
Iron (Fe) (DIS)				1.1	1.1	2.7
Lead (Pb) (DIS)				<0.005	<0.005	
Manganese (Mn) (DIS)				5.4	5.5	
Zinc (Zn) (DIS)				3.5	3.6	

**Physical/Fid-Lab: ppm unless noted**

Iron (Fe+2) (Fid)	0.01	<0.01			1	
Oxygen (O) (DIS) (Fid)	10.7	9.8	9.8	1.4	1.4	1.01
pH				6.4	6.4	
Depth To Water Level (ft)	36.4	34			34.9	35.5
Eh (millivolts)	304	375	375	334	334	296
pH (Fid)	6.5	6.2	6.2	6.4	6.4	6.8
SC (umhos/cm at 25 C) (Fid)	966	931	931	1030	1030	920
SC (umhos/cm at 25 C)				953	955	
TDS (Measured at 180 C)				658	660	
Water Temperature (C) (Fid)	13.6	11	11	10.8	10.8	11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3
Water	SAMPLE DATE	5/14/2001	9/26/2001	10/19/2001	11/2/2001	11/20/2001	12/7/2001
	SAMPLE TIME	16:45	13:00	15:20	09:26	00:00	11:30
	LAB	TSC-SLC	TSC-SLC	HYDRO	HYDRO	TSC-SLC	TSC-SLC
	LAB NUMBER	L010699010	L011367011	FIELD ONLY	FIELD ONLY	L011587001	L011626002
	SAMPLE NUMBER	EHC-0105-195	EHST-0109-110	EHST-0110-100	EHST-0111-100	EHST-0111-200	EHST-0112-201
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	65	45				26
	Calcium (Ca) (DIS)	51					
	Carbonate As CO3		<1				<1
	Chloride (Cl)	65					
	Magnesium (Mg) (DIS)	21					
	Potassium (K) (DIS)	13					
	Sodium (Na) (DIS)	135					
	Sulfate (SO4)	489	390				257
	Total Alkalinity As CaCO3	53	37				21
<b>Metals (mg/L): ppm unless noted</b>							
	Aluminum (Al) (DIS)	0.6					
	Arsenic (As) (DIS)	23	23			17	2.6
	Arsenic III (dis)	23	20			16	1
	Arsenic V (dis)	<0.005	3			4	1.7
	Cadmium (Cd) (DIS)	0.1	0.1				0.1
	Copper (Cu) (DIS)	0.007					
	Iron (Fe) (DIS)	8.3	10				0.06
	Lead (Pb) (DIS)	<0.005	<0.005				<0.005
	Manganese (Mn) (DIS)	7.1	6.8				8
	Zinc (Zn) (DIS)	3.8	3.9				4.8
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Iron (Fe) (Fld)		9.7	9	11	7.7	
	Iron (Fe+2) (Fld)		9.1	8.7	7.4	7.6	
	Oxygen (O) (DIS) (Fld)	0.8	0.1	0.1	0.03	0.2	8.3
	pH	6.4					
	Silicon+Silica (Si+SiO2)	34					
	Depth To Water Level (ft)	35.5	31.3	31.8	32.3	32.7	33.4
	Eh (millivolts)	313	207	250			
	pH (Fld)	6.5	5.5	6	5.9	5.8	5.9
	SC (umhos/cm at 25 C) (Fld)	909	1135	1157	1159	1213	1261
	SC (umhos/cm at 25 C)	1170					
	Total Suspended Solids	28					
	TDS (Measured at 180 C)	822					
	Water Temperature (C) (Fld)	13.7	11.7	11.4	11.5	11.6	11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3
Water	SAMPLE DATE	12/19/2001	1/10/2002	1/23/2002	2/5/2002	2/19/2002	4/19/2002
	SAMPLE TIME	11:20	12:40	13:15	12:10	12:00	13:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011661002	L020024001	L020042011	L020075002	L020110002	L020278002
	SAMPLE NUMBER	EHST-01112-401	EHST-0201-109	EHST-0201-310	EHST-0202-401	EHST-0202-901	EHST-0204-101
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

  

Common Ions (mg/L): ppm unless noted							
Bicarbonate (HCO3)	24	61	31	48	37	4.9	
Carbonate As CO3	<1	<1	<1	<1	<1	<1	
Sulfate (SO4)	464	457	601	560	586	639	
Total Alkalinity As CaCO3	20	50	25	39	30	4	

  

Metals (mg/L): ppm unless noted							
Arsenic (As) (DIS)	2.2	4.9	3.4	3.6	4.2	4.8	
Arsenic III (dis)	0.9	1.8	1	1.1	1.5	1.4	
Arsenic V (dis)	1.3	3	2.2	2.6	2.8	3.2	
Cadmium (Cd) (DIS)	0.1	0.2	0.2	0.2	0.2	0.2	
Copper (Cu) (DIS)					0.01		
Iron (Fe) (DIS)	<0.02	0.03	<0.02	<0.02	0.09	<0.02	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	8.4	10	9.9	11	11	12	
Zinc (Zn) (DIS)	5.3	6.5	6	6.2	6.8	9.9	

  

Physical/Fld-Lab: ppm unless noted							
Oxygen (O) (DIS) (Fld)	9.2	5.7	8.6	9.6	8.4	8.5	
pH					6.5		
Depth To Water Level (ft)	33.8	34.3	34.7	35.05	35.5	36.6	
pH (Fld)	5.9	6.1	6	6.8	7.2	6.03	
SC (umhos/cm at 25 C) (Fld)	1243	1171	1459	1450	1457	1654	
SC (umhos/cm at 25 C)					1540		
Water Temperature (C) (Fld)	11.3	11.5	11.2	10.5	11	12.1	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3
Water	SAMPLE DATE	5/10/2002	6/6/2002	8/8/2002	9/26/2002	11/13/2002	12/17/2002
	SAMPLE TIME	14:15	00:00	12:00	15:05	14:50	11:45
	LAB	TSC-SLC	ASARCO	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020364002	206110	L020638002	L020829002	L020943010	L021034002
	SAMPLE NUMBER	EHST-0205-101	EHST-0206-110	EHST-0208-101	EHST-0209-601	EHC-0211-211	EHST-0212-101
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	3.7		3.7	1.2	7.3	3.7	
Calcium (Ca) (DIS)					107		
Carbonate As CO3	<1		<1	<1	<1	<2	
Chloride (Cl)					148		
Magnesium (Mg) (DIS)					44		
Potassium (K) (DIS)					21		
Sodium (Na) (DIS)					236		
Sulfate (SO4)	657 J		831	821	823	837	
Total Alkalinity As CaCO3	3		3	1	6	3	
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (DIS)					2.8		
Arsenic (As) (DIS)	3.5		1.2	1	1.5	1.5	
Arsenic III (dis)	0.7		0.3	0.5	0.5	1	
Arsenic V (dis)	2.8		0.9	0.5	1	0.5	
Cadmium (Cd) (DIS)	0.3				0.2		
Copper (Cu) (DIS)					0.02		
Iron (Fe) (DIS)	0.03		<0.02	<0.02	<0.02	<0.02	
Lead (Pb) (DIS)	<0.005				<0.005		
Manganese (Mn) (DIS)	13				15		
Zinc (Zn) (DIS)	12				12		
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	1629		9.9	7.07	5.2	4.9	
pH					5.5		
Silicon+Silica (Si+SiO2)					37		
Depth To Water Level (ft)	36.5	36.8	31.3	31.7	32.9	35.04	
pH (Fld)	5.5		4.8	4.7	5.4	5.4	
SC (umhos/cm at 25 C) (Fld)	10.9		1939	1801	1920	1767	
SC (umhos/cm at 25 C)					1968		
Total Suspended Solids					<1		
TDS (Measured at 180 C)					1462		
Water Temperature (C) (Fld)	11.1		11.3	11.7	11.5	10.9	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3
Water	SAMPLE DATE	12/17/2002	6/2/2003	10/30/2003	5/20/2004	11/2/2004	5/16/2005
	SAMPLE TIME	11:45	12:45	08:00	13:00	16:05	13:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper
	LAB NUMBER	L021034-002	L030245009	L030605013	H04050133-011	H04110029-016	C05050640-008
	SAMPLE NUMBER	EHST-0212-101	AEH-0306-171	AEH-0310-436	AEH-0405-134	AEH-0411-200	AEH-0505-164
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	3	88	104	170	180	205
Calcium (Ca) (DIS)		81	86	81	78	63
Carbonate As CO3	<2	<2	<2			
Chloride (Cl)		132	110	130	100	82
Magnesium (Mg) (DIS)		35	36	32	31	26
Potassium (K) (DIS)		20	21	20	19	16
Sodium (Na) (DIS)		262	257	309	239	301
Sulfate (SO4)	837	705	712	750	802	622
Total Alkalinity As CaCO3	3	72	85	140	150	168

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	1.5	20	24	24.96	27.78	27.6
Arsenic III (dis)	0.98	16	19	16 J	22	16.5
Arsenic V (dis)	0.52	4	5.4	1.3 J	3.8	7.2
Cadmium (Cd) (DIS)		0.2	0.2	0.189	0.176	0.122
Copper (Cu) (DIS)		0.004 J	0.006	0.008	0.005	<0.004
Iron (Fe) (DIS)	<0.02	10	15	13.44	12.52	9.31
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		11	12	11.16	10.46	7.69
Zinc (Zn) (DIS)		7.3	6.1	5.21	3.92	2.79

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.86	0.08	0.17	0.08	0.1	0.29
pH		6.6	7	6.5	6.3	6.58
Depth To Water Level (ft)	35.04	33.8	32.6	34.33	30.84	35.11
pH (Fld)	5.35	5.9	5.52	5.65	6.09	7
SC (umhos/cm at 25 C) (Fld)	1767	1940	1970	2190	2069	1945
SC (umhos/cm at 25 C)		1996	1986	2340	1760	1950
Total Suspended Solids		31	16 J	31	28 J	<10
TDS (Measured at 180 C)		1424	1377	1500	1350	1330
TDS - Calculated						1240
Salinity (G/KG) (Fld)		0.9	0.9	1		
Turbidity (NTU) (Fld)		1	2	10		
Water Temperature (C) (Fld)	10.9	11.8	11.4	12.5	12.4	12.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3
Water	SAMPLE DATE	11/17/2005	5/9/2006	11/9/2006	5/16/2007	11/28/2007	5/15/2008
	SAMPLE TIME	08:50	14:35	14:40	12:05	15:00	10:30
	LAB	ELI-Hel	ELI-Hel	ELI	ELI	ELI	ELI
	LAB NUMBER	H05110153-001	H06050103-013	H06110083-003	H07050191-008	H07110218-014	H08050268-003
	SAMPLE NUMBER	AEH-0511-193	AEH-0605-200	AEH-0611-142	AEH-0705-159	AEH-0711-181	AEH-0805-252
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	230	260	250	270		270
Bicarbonate (HCO3) (dis)					260	
Calcium (Ca) (DIS)	54	50 J+	47	44	42	37
Chloride (Cl)	70	80	47	47	42	35
Magnesium (Mg) (DIS)	22	20 J-	18	17	17	15
Potassium (K) (DIS)	21	15	14	13	13	13
Sodium (Na) (DIS)	317	316	273	283	269	264
Sulfate (SO4)	601	635	504	493	443	450
Total Alkalinity As CaCO3	190	210	210	220	220	220

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)					<0.005	<0.005
Selenium-VI (dis)					<0.005	<0.005
Aluminum (Al) (DIS)						0.2
Antimony (Sb) (DIS)						<0.005
Arsenic (As) (DIS)	27.58	30.34	27.12	27.9	24.74	26.66
Arsenic III (dis)	27.9	24 J	26.8	22.4	18.6 J-	21
Arsenic V (dis)	1.6	3.3	4.1	8.53	4.66	1.86
Barium (Ba) (DIS)						<0.1
Beryllium (Be) (DIS)						0.004
Cadmium (Cd) (DIS)	0.116	0.097	0.091	0.078	0.071	0.059
Chromium (Cr) (DIS)						<0.001
Cobalt (Co) (DIS)						0.01
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	8.68	7.13	6.92	5.61	5.41	4.01
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	7.47	6.88	6	6.01	5.56	4.87
Mercury (Hg) (DIS)						<0.006
Nickel (Ni) (DIS)						<0.01
Selenium (Se) (DIS)					0.007	0.006
Silver (Ag) (DIS)						<0.005
Thallium (Tl) (DIS)						<0.002
Vanadium (V) (DIS)						<0.01
Zinc (Zn) (DIS)	2.5	2.11	1.86	1.42	1.31	1.07

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential			16.6			
Oxygen (O) (DIS) (Fld)	1.53	0.45	2.65	1.73	0.28	1.92
pH	6.2	6.6	6.6	6.9	6.4	6.5
Depth To Water Level (ft)	31.72	34.18	31.57	35.27	32.48	36.49
pH (Fld)	6.05	6.09	6.22	6.31	6.33	6.18

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3	SPARGE 3
Water	SAMPLE DATE	11/17/2005	5/9/2006	11/9/2006	5/16/2007	11/28/2007	5/15/2008
	SAMPLE TIME	08:50	14:35	14:40	12:05	15:00	10:30
	LAB	ASARCO	Hydro	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H05110153-001	H06050103-013	H06110083-003	H07050191-008	H07110218-014	H08050268-003
	SAMPLE NUMBER	AEH-0511-193	AEH-0605-200	AEH-0611-142	AEH-0705-159	AEH-0711-181	AEH-0805-252
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)	1952	1810	1640	1715	1499	1559
SC (umhos/cm at 25 C)	1840	1620	1550	1580	1560	1460
Total Suspended Solids	29 J	17 J+	11 J	19	30	15 J+
TDS (Measured at 180 C)	1300	1240	1140	1130	1090	1020
Water Temperature (C) (Fid)	12.53	13.33	12.29	12.35	12.11	14.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SPARGE 3	SPARGE 3	STW-1	STW-1	STW-1
Water	SAMPLE DATE	11/13/2008	5/19/2009	5/10/2000	5/18/2000	5/30/2000
	SAMPLE TIME	15:30	13:55	12:00	10:40	14:00
	LAB	ELI	ELI	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H08110162-013	H09050287-009	L000720001	L000759001	L000825007
	SAMPLE NUMBER	AEH-0811-249	AEH-0905-263	EHST-0005-100	EHST-0005-110	EHST-0005-126
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	280	280	256		
Calcium (Ca) (DIS)	33	35	68		
Carbonate As CO3			<1		
Chloride (Cl)	37	33	229		
Magnesium (Mg) (DIS)	14	15	16		
Potassium (K) (DIS)	13	13	13		
Sodium (Na) (DIS)	269	289	521		
Sulfate (SO4)	450	480	921		
Total Alkalinity As CaCO3	230	230			

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005				
Selenium-VI (DIS)	<0.005				
Aluminum (Al) (DIS)	0.2	0.1			
Antimony (Sb) (DIS)	<0.005	<0.003			
Arsenic (As) (DIS)	26.6	23.6	46	48	47
Arsenic III (DIS)	23.9		46		
Arsenic V (DIS)	5.63 J		3.8		
Barium (Ba) (DIS)	<0.1	<0.1			
Beryllium (Be) (DIS)	0.004	0.003			
Cadmium (Cd) (DIS)	0.055	0.056	<0.001	0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001			
Cobalt (Co) (DIS)	0.01	0.0107			
Copper (Cu) (DIS)	<0.004	0.003			
Gold (Au) (DIS)		0.02			
Iron (Fe) (DIS)	3.41	3.26	0.1	0.2	0.2
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	4.35	4.54	2.5	2.5	2.7
Mercury (Hg) (DIS)	<0.006	<0.0001			
Nickel (Ni) (DIS)	<0.01	<0.01			
Selenium (Se) (DIS)	0.011	0.018			
Silver (Ag) (DIS)	<0.005	<0.005			
Tellurium (Te) (DIS)		<0.1			
Thallium (Tl) (DIS)	<0.002	<0.001			
Vanadium (V) (DIS)	<0.01	<0.01			
Zinc (Zn) (DIS)	0.95	0.86	0.2	0.2	0.2

**Physical/Fid-Lab: ppm unless noted**

Iron (Fe) (Fld)			0.2	0.2	0.2
Iron (Fe+2) (Fld)			<0.1	0.2	0.2
Oxygen (O) (DIS) (Fld)	0.31	0.27	1.3	1.2	0.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SPARGE 3	SPARGE 3	STW-1	STW-1	STW-1
Water	SAMPLE DATE	11/13/2008	5/19/2009	5/10/2000	5/18/2000	5/30/2000
	SAMPLE TIME	15:30	13:55	12:00	10:40	14:00
	LAB	ELI	ELI	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H08110162-013	H09050287-009	L000720001	L000759001	L000825007
	SAMPLE NUMBER	AEH-0811-249	AEH-0905-263	EHST-0005-100	EHST-0005-110	EHST-0005-126
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fld-Lab: ppm unless noted**

pH	6.7	7	7.8		
Depth To Water Level (ft)	32.62	36.16	33.8	33.8	33.6
Eh (millivolts)			241	224	213
pH (Fld)	6.21	6.46	6.9	7	7.09
SC (umhos/cm at 25 C) (Fld)	1505	1597	2790	2940	2900
SC (umhos/cm at 25 C)	1480	1580	2890		
Total Suspended Solids	17	11			
TDS (Measured at 180 C)	1010	1060			
Water Temperature (C) (Fld)	11.77	13.6	12.7	13.6	13.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-1	STW-1	STW-1	STW-1	STW-1	STW-1	
Water	SAMPLE DATE	5/30/2000	6/6/2000	6/13/2000	6/21/2000	6/29/2000	6/29/2000	
	SAMPLE TIME	14:10	13:10	13:10	14:40	13:30	13:45	
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	
	LAB NUMBER	L000825008	L000882009	L000910008	L000964009	L001003008	L001003009	
	SAMPLE NUMBER	EHST-0005-127	EHST-0006-108	EHST-0006-207	EHST-0006-308	EHST-0006-407	EHST-0006-408	
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
	GROUP	RI	RI	RI	RI	RI	RI	
	DESCRIPTION							
	REMARKS	Field Duplicate					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	246
Calcium (Ca) (DIS)	74
Carbonate As CO3	<1
Chloride (Cl)	219
Magnesium (Mg) (DIS)	18
Potassium (K) (DIS)	12
Sodium (Na) (DIS)	561
Sulfate (SO4)	998

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	49	49	43	46	46	46
Arsenic III (dis)		51		48	58	63
Arsenic V (dis)		2.2		2.2	2.4	2.6
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001		
Iron (Fe) (DIS)	0.2	0.1	0.2	0.2		
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005		
Manganese (Mn) (DIS)	2.8	2.9	2.8	2.9		
Zinc (Zn) (DIS)	0.2	0.2	0.2	0.2		

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)		0.2	0.2	0.2	0.2	
Iron (Fe+2) (Fld)		0.2	0.2	0.2	0.2	
Oxygen (O) (DIS) (Fld)	0.6	1	1.3	1	0.6	0.6
pH				7		
Depth To Water Level (ft)		33.4	33.2	32.8	32.5	
Eh (millivolts)	211	214	206	199	194	190
pH (Fld)	7.08	7.02	7	7	6.9	6.9
SC (umhos/cm at 25 C) (Fld)	2900	3110	3190	2620	3160	3210
SC (umhos/cm at 25 C)				3060		
Water Temperature (C) (Fld)	13.5	14.2	13.3	14.5	14.9	14.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-1	STW-1	STW-1	STW-1	STW-1	STW-1
Water	SAMPLE DATE	7/13/2000	7/24/2000	8/3/2000	8/16/2000	8/31/2000	9/13/2000
	SAMPLE TIME	13:45	15:15	12:30	13:20	13:40	14:55
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001116009	L001190009	L001239009	L001333009	L001441008	L001513010
	SAMPLE NUMBER	EHST-0007-108	EHST-0007-208	EHST-0008-108	EHST-0008-208	EHST-0008-307	EHST-0009-109
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	264
Calcium (Ca) (DIS)	66
Carbonate As CO3	<1
Chloride (Cl)	185
Magnesium (Mg) (DIS)	15
Potassium (K) (DIS)	12
Sodium (Na) (DIS)	506
Sulfate (SO4)	1072 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	49	48	47	49	47	51
Arsenic III (dis)	52 J	47	64	48	54	49
Arsenic V (dis)	2.4	2.6	2.8 J	2.6	2.6	2.7
Cadmium (Cd) (DIS)			<0.001			
Iron (Fe) (DIS)			0.3			
Lead (Pb) (DIS)			<0.005			
Manganese (Mn) (DIS)			2.5			
Zinc (Zn) (DIS)			0.2			

**Physical/Fid-Lab: ppm unless noted**

Iron (Fe) (Fld)	0.3	0.3		0.2	0.2	
Iron (Fe+2) (Fld)	0.2	0.2	0.2	0.1	0.2	
Oxygen (O) (DIS) (Fld)	1	1.2	0.8	0.7	0.7	1.01
pH			7.2			
Depth To Water Level (ft)	32.4	32.4	32.5	32.6	32.9	33.2
Eh (millivolts)	181	186	204	200	212	245
pH (Fld)	7	7	7.2	7.8	7.5	7.5
SC (umhos/cm at 25 C) (Fld)	3130	3170	3020	2980	2720	3050
SC (umhos/cm at 25 C)			3000			
Water Temperature (C) (Fld)	15.1	15	14.9	14	13.7	14.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-1	STW-1	STW-1	STW-1	STW-1	STW-1
Water	SAMPLE DATE	10/3/2000	11/3/2000	12/20/2000	2/7/2001	5/14/2001	9/26/2001
	SAMPLE TIME	14:00	13:15	10:20	12:20	15:00	12:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001649008	L001861005	L002044002	L010183009	L010699006	L011367010
	SAMPLE NUMBER	EHST-0010-107	EHST-0011-104	EHST-0012-101	EHST-0102-108	EHC-0105-196	EHST-0109-109
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)				266		227	239
Calcium (Ca) (DIS)				62		87	
Carbonate As CO3				<1			<1
Chloride (Cl)				173		277	
Magnesium (Mg) (DIS)				14		19	
Potassium (K) (DIS)				12		14	
Sodium (Na) (DIS)				581		593	
Sulfate (SO4)				965		1250	869
Total Alkalinity As CACO3				218		186	196

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)						<0.05	
Arsenic (As) (DIS)	55	52	51	48	47	43	
Arsenic III (dis)	52	53	56	62	59	45	
Arsenic V (dis)	2.7	3	3.1	2.8	<0.005	<0.005	
Cadmium (Cd) (DIS)			0.002		0.002	<0.001	
Copper (Cu) (DIS)			<0.004		0.01		
Iron (Fe) (DIS)			0.2	0.3	0.3	0.2	
Lead (Pb) (DIS)			0.005		<0.005	0.01	
Manganese (Mn) (DIS)			2.3		3.1	2.4	
Zinc (Zn) (DIS)			0.2		0.2	0.2	

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)	0.2						0.2
Iron (Fe+2) (Fld)	0.2	0.2	0.2				0.3
Oxygen (O) (DIS) (Fld)	0.6	0.7	0.9	1.09	1.08	0.1	
pH				7.5	7.4		
Silicon+Silica (Si+SiO2)					25		
Depth To Water Level (ft)	33.7	33.2	34.09	34.8	34.7	30.8	
Eh (millivolts)		216	226	215	222	190	
pH (Fld)	7	7.05	7.4	7.5	8	6.6	
SC (umhos/cm at 25 C) (Fld)	2200	2590	2980	2740	2240	2920	
SC (umhos/cm at 25 C)			2790		3200		
Total Suspended Solids					25		
TDS (Measured at 180 C)			1988		2332		
Water Temperature (C) (Fld)	12.7	12.2	9.5	11.4	15.2	12.7	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-1	STW-1	STW-1	STW-1	STW-1	STW-1
Water	SAMPLE DATE	11/2/2001	11/20/2001	12/7/2001	12/19/2001	1/10/2002	1/23/2002
	SAMPLE TIME	13:23	00:00	13:30	14:00	09:50	10:25
	LAB	HYDRO	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	FIELD ONLY	L011587011	L011626012	L011661012	L020025001	L020042001
	SAMPLE NUMBER	EHST-01111-101	EHST-01111-210	EHST-01112-211	EHST-01112-411	EHST-0201-100	EHST-0201-300
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)		261	271	203	312	264
	Carbonate As CO3		<1	<1	<1	<1	<1
	Sulfate (SO4)		784	697	897	921	1044
	Total Alkalinity As CaCO3		214	222	166	256	216
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)		37	46	46	44	45
	Arsenic III (dis)		43	46	53	39	36
	Arsenic V (dis)		3	1	<0.02	6	8.7
	Cadmium (Cd) (DIS)			<0.001	0.007	0.006	0.001
	Iron (Fe) (DIS)			0.2	0.2	0.2	0.2
	Lead (Pb) (DIS)			<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)			2.4	2.4	2.4	2.4
	Zinc (Zn) (DIS)			0.2	0.2	0.2	0.1
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Iron (Fe) (Fld)	0.2	0.2				
	Iron (Fe+2) (Fld)	0.2	0.2				
	Oxygen (O) (DIS) (Fld)	0.03	0.06	0.2	0.1	0.1	0.1
	Depth To Water Level (ft)	31.8	32.3	32.8	33.1	33.7	34.01
	pH (Fld)	7.04	7.4	7.2	7.1	7.1	6.7
	SC (umhos/cm at 25 C) (Fld)	2900	2820	2980	2900	29.1	2970
	Water Temperature (C) (Fld)	12.4	12.8	12.3	12.4	12.3	12.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-1	STW-1	STW-1	STW-1	STW-1	STW-1
Water	SAMPLE DATE	2/5/2002	2/19/2002	2/27/2002	4/19/2002	5/10/2002	6/6/2002
	SAMPLE TIME	15:00	15:20	10:50	15:50	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ASARCO	ASARCO
	LAB NUMBER	L020075013	L020110013	L020142001	L020278011	205110	206109
	SAMPLE NUMBER	EHST-0202-412	EHST-0202-912	EHST-0202-200	EHST-0204-110	EHST-0205-110	EHST-0206-109
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	276	310	315	248		
	Carbonate As CO3	<1	<1	<1	<1		
	Sulfate (SO4)	981	1108	944	1026		
	Total Alkalinity As CaCO3	226	254	258	203		
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	47	44	44	42		
	Arsenic III (dis)	36	11		40		
	Arsenic V (dis)	12	32		1		
	Cadmium (Cd) (DIS)	<0.001	<0.001		<0.001		
	Copper (Cu) (DIS)		0.02				
	Iron (Fe) (DIS)	0.3	0.2	0.2	0.2		
	Lead (Pb) (DIS)	<0.005	<0.005		<0.005		
	Manganese (Mn) (DIS)	2.6	2.4		2.4		
	Zinc (Zn) (DIS)	0.1	0.1		0.2		
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	0.9	0.5	0.2	0.4		
	pH		7.6				
	Depth To Water Level (ft)	34.4	34.8	35.04	35.8	35.8	35
	pH (Fld)	7.1	7.3	6.9	7.5		
	SC (umhos/cm at 25 C) (Fld)	2880	3000	3010	3070		
	SC (umhos/cm at 25 C)		3000				
	Water Temperature (C) (Fld)	12.4	12.6	12.4	13.1		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-1	STW-1	STW-1	STW-1	STW-1	STW-1
Water	SAMPLE DATE	7/17/2002	7/24/2002	8/8/2002	9/26/2002	11/13/2002	6/2/2003
	SAMPLE TIME	14:40	00:00	14:45	00:00	12:45	11:45
	LAB	ASARCO	ASARCO	TSC-SLC	ASARCO	TSC-SLC	TSC-SLC
	LAB NUMBER	207102	207305	L020638003	209611	L020943009	L030245007
	SAMPLE NUMBER	EHST-0207-102	EHST-0207-305	EHST-0208-102	EHST-0209-611	EHC-0211-212	AEH-0306-169
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		226		287	234
Calcium (Ca) (DIS)				70	69
Carbonate As CO3			<1	<1	<2
Chloride (Cl)				183	171
Magnesium (Mg) (DIS)				15	17
Potassium (K) (DIS)				15	17
Sodium (Na) (DIS)				524	450
Sulfate (SO4)			1049	895	831
Total Alkalinity As CACO3			185	235	192

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)				<0.05	
Arsenic (As) (DIS)			32	34	25
Arsenic III (dis)			30	34	33
Arsenic V (dis)			4	<0.005	<0.005
Cadmium (Cd) (DIS)				<0.001	<0.001
Copper (Cu) (DIS)				<0.004	<0.004 UJ
Iron (Fe) (DIS)			0.3	0.3	0.4
Lead (Pb) (DIS)				<0.005	<0.005
Manganese (Mn) (DIS)				2.4	2.4
Zinc (Zn) (DIS)				0.1	0.2

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		0.8	0.4		0.2	0.1
pH					7.3	7.2
Silicon+Silica (Si+SiO2)					25	
Depth To Water Level (ft)	30.9		30.7	30.8	32.2	33.07
pH (Fld)		6.1	6.9		6.5	6.5
SC (umhos/cm at 25 C) (Fld)		6830	2830		2690	2500
SC (umhos/cm at 25 C)					2730	2570
Total Suspended Solids					5.2	8
TDS (Measured at 180 C)					1899	1807
Salinity (G/KG) (Fld)						1.2
Turbidity (NTU) (Fld)						4
Water Temperature (C) (Fld)		19.5	13		12	12.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-1	STW-1	STW-1	STW-1	STW-1	STW-1
Water	SAMPLE DATE	10/30/2003	5/20/2004	11/3/2004	5/16/2005	11/16/2005	5/9/2006
	SAMPLE TIME	09:00	11:35	11:20	10:55	13:30	10:00
	LAB	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel
	LAB NUMBER	L030605015	H04050133-008	H04110037-010	C05050640-002	H05110136-014	H06050103-003
	SAMPLE NUMBER	AEH-0310-438	AEH-0405-131	AEH-0411-212	AEH-0505-158	AEH-0511-186	AEH-0605-190
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	281	240	280	226	300	280
Calcium (Ca) (DIS)	76	88	84	86	77	74 J+
Carbonate As CO3	<2					
Chloride (Cl)	124	120	90	75	66	67
Magnesium (Mg) (DIS)	18	19	18	20	17	15 J-
Potassium (K) (DIS)	16	17	15	14	14 J-	14
Sodium (Na) (DIS)	405	352	312	279	285 J-	280
Sulfate (SO4)	746	820	582	597	530	540
Total Alkalinity As CaCO3	230	190	230	185	250	230

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	25	17.6	20.18	15.3	15.91	15.37
Arsenic III (dis)	30	<0.006 J	<0.18	11.7	15.1	11.9 J
Arsenic V (dis)	<0.05	20 J	20	2.6	2.6	2.7
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.004	<0.004	<0.004	<0.004	<0.004	0.006
Iron (Fe) (DIS)	0.4	0.54	0.46	0.48	0.44	0.54
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.6	3.18	3.01	3.01	2.36	2.65
Zinc (Zn) (DIS)	0.2	0.2	0.17	0.17	0.13	0.16

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.07	0.26	0.03	0.29	1.78	0.52
pH	7.8	7.3	7.2	7.26	7.1	7.2
Depth To Water Level (ft)	32.11	33.6	30.15	34.38	31.14	33.62
pH (Fld)	6.42	6.39	7.04	6.77	6.94	6.72
SC (umhos/cm at 25 C) (Fld)	2300	2200	2009	1575	1656	1650
SC (umhos/cm at 25 C)	2320	2290	1780	1820	1670	1550
Total Suspended Solids	17 J	54	14	<10	107 J	<10
TDS (Measured at 180 C)	1614	1520	1360	1250	1180	1180
TDS - Calculated				1210		
Salinity (G/KG) (Fld)	1	1				
Turbidity (NTU) (Fld)	29	10				
Water Temperature (C) (Fld)	11.8	13.4	12.3	13.2	11.93	13.17

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-1	STW-1	STW-1	STW-1	STW-1	STW-1
Water	SAMPLE DATE	11/10/2006	5/16/2007	11/28/2007	5/13/2008	11/12/2008	5/18/2009
	SAMPLE TIME	11:20	09:15	14:00	15:15	09:42	15:00
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110088-007	H07050191-001	H07110218-012	H08050243-002	H08110140-001	H09050256-013
	SAMPLE NUMBER	AEH-0611-150	AEH-0705-152	AEH-0711-179	AEH-0805-238	AEH-0811-223	AEH-0905-251
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	400	310		260	310	250
Bicarbonate (HCO3) (dis)			340			
Calcium (Ca) (DIS)	76	59	56	50	52	42
Chloride (Cl)	57	42	42	39	27	22
Magnesium (Mg) (DIS)	16	12	12	11	10	9
Potassium (K) (DIS)	16	13	12	13	13	12
Sodium (Na) (DIS)	327	253	239	213	216	175
Sulfate (SO4)	437	437	363	380	360	320
Total Alkalinity As CaCO3	320	250	280	210	250	200

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)			<0.005	<0.005	<0.005	
Selenium-VI (dis)			<0.005	<0.005	<0.005	
Aluminum (Al) (DIS)				<0.1	<0.1	<0.1
Antimony (Sb) (DIS)				<0.005	<0.005	<0.003
Arsenic (As) (DIS)	18.82	14.52	14.8	13.78	11.9	11
Arsenic III (DIS)	27.3	17	11.6 J	11	8.48	
Arsenic V (DIS)	2.6	3.41	2.14	3.1	4.05	
Barium (Ba) (DIS)				<0.1	<0.1	<0.1
Beryllium (Be) (DIS)				<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)				<0.001	<0.001	0.001
Cobalt (Co) (DIS)				<0.01	<0.01	0.0018
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.002
Gold (Au) (DIS)						<0.01
Iron (Fe) (DIS)	0.42	0.33	0.29	0.27	0.3	0.26
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.61	2.08	1.91	1.7	1.68	1.42
Mercury (Hg) (DIS)				<0.006	<0.006	0.0003
Nickel (Ni) (DIS)				<0.01	<0.01	<0.01
Selenium (Se) (DIS)			0.006	0.008 J	<0.005	0.008
Silver (Ag) (DIS)				<0.005	<0.005	<0.005
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)				<0.002	<0.002	<0.001
Vanadium (V) (DIS)				<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	0.14	0.13	0.11	0.11	0.1	0.09

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	-1					
Oxygen (O) (DIS) (Fld)	0.88	0.05	0.34	0.22	0.57	0.15
pH	7.4	7.4	7.1	7	7.2	7.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-1	STW-1	STW-1	STW-1	STW-1	STW-1
Water	SAMPLE DATE	11/10/2006	5/16/2007	11/28/2007	5/13/2008	11/12/2008	5/18/2009
	SAMPLE TIME	11:20	09:15	14:00	15:15	09:42	15:00
	LAB	Hydrometrics	Hydrometrics	Hydrometrics		Hydrometrics	Hydrometrics
	LAB NUMBER	H06110088-007	H07050191-001	H07110218-012	H08050243-002	H08110140-001	H09050256-013
	SAMPLE NUMBER	AEH-0611-150	AEH-0705-152	AEH-0711-179	AEH-0805-238	AEH-0811-223	AEH-0905-251
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

	STW-1	STW-1	STW-1	STW-1	STW-1	STW-1
Depth To Water Level (ft)	31.02	34.68	31.92	35.87	32.11	35.46
pH (Fid)	6.83	6.96	7.13	6.87	6.63	7.03
SC (umhos/cm at 25 C) (Fid)	1774	1553	1354	1338	1261	1124
SC (umhos/cm at 25 C)	1710	1420	1410	1250	1300	1120
Total Suspended Solids	98	<10	<10	141 J+	11	16
TDS (Measured at 180 C)	1230	1040	999	896	859	774
Water Temperature (C) (Fid)	12.08	12.93	12.49	14.8	12.67	13.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-2	STW-2	STW-2	STW-2	STW-2	STW-2
Water	SAMPLE DATE	5/10/2000	5/18/2000	5/30/2000	6/6/2000	6/13/2000	6/21/2000
	SAMPLE TIME	15:50	11:45	13:20	11:20	12:10	13:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000720006	L000759004	L000825006	L000882004	L000910005	L000964007
	SAMPLE NUMBER	EHST-0005-105	EHST-0005-113	EHST-0005-125	EHST-0006-103	EHST-0006-204	EHST-0006-306
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	268						156
Calcium (Ca) (DIS)	78						71
Carbonate As CO3	<1						<1
Chloride (Cl)	178						160
Magnesium (Mg) (DIS)	19						18
Potassium (K) (DIS)	13						12
Sodium (Na) (DIS)	464						465
Sulfate (SO4)	856						841

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	24	27	29	28	27	26
Arsenic III (dis)	14			3.3 J		0.03 U
Arsenic V (dis)	11			28		22
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Iron (Fe) (DIS)	<0.05	<0.05	<0.02	<0.05	<0.02	<0.03
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005 J	<0.005	<0.005
Manganese (Mn) (DIS)	2.7	2.7	2.5	2.4	2.2	2
Zinc (Zn) (DIS)	0.2	0.2	0.2	0.2	0.2	0.1

**Physical/Fid-Lab: ppm unless noted**

Iron (Fe) (Fid)	0.1	0.03	0.02	0.02	0.01	0.01
Iron (Fe+2) (Fid)	0.2	0.01	0.03	<0.01	<0.01	<0.01
Oxygen (O) (DIS) (Fid)	1.07	1.05	5.2	5.6	5.8	7.8
pH	7.8					7.6
Depth To Water Level (ft)	33.04	33	32.9	32.7	32.6	32
Eh (millivolts)	274	287	348	312	365	431
pH (Fid)	6.8	7	7.07	6.9	6.8	7
SC (umhos/cm at 25 C) (Fid)	2650	2640	2700	2780	2890	2520
SC (umhos/cm at 25 C)	2620					2610
Water Temperature (C) (Fid)	12.4	13.5	13.5	13.8	12.8	13.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-2	STW-2	STW-2	STW-2	STW-2	STW-2
Water	SAMPLE DATE	6/29/2000	7/13/2000	7/24/2000	8/3/2000	8/16/2000	8/31/2000
	SAMPLE TIME	12:20	12:20	13:35	11:20	12:15	13:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001003005	L001116005	L001190004	L001239006	L001333006	L001441007
	SAMPLE NUMBER	EHST-0006-404	EHST-0007-104	EHST-0007-203	EHST-0008-105	EHST-0008-205	EHST-0008-306
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	154
Calcium (Ca) (DIS)	72
Carbonate As CO3	<1
Chloride (Cl)	194
Magnesium (Mg) (DIS)	17
Potassium (K) (DIS)	12
Sodium (Na) (DIS)	448
Sulfate (SO4)	1008 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	25	25	27	28	28	27
Arsenic III (dis)	0.009 U	0.02 UJ	0.01 U	0.02 U	<0.02	<0.02
Arsenic V (dis)	24	26	26	34 J	27	25
Cadmium (Cd) (DIS)				<0.001		
Iron (Fe) (DIS)				<0.02		
Lead (Pb) (DIS)				<0.005		
Manganese (Mn) (DIS)				1.4		
Zinc (Zn) (DIS)				0.1		

**Physical/Fid-Lab: ppm unless noted**

Iron (Fe) (Fid)	<0.01	<0.01	0.03		0.01	0.01
Iron (Fe+2) (Fid)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Oxygen (O) (DIS) (Fid)	6.8	9.7	9.5	8.6	2.9	1.08
pH				7.7		
Depth To Water Level (ft)	31.8	31.7	31.9	31.8	31.8	32.1
Eh (millivolts)	363	390	355	407	438	332
pH (Fid)	7	7.2	7.05	7	7.4	7.4
SC (umhos/cm at 25 C) (Fid)	2650	2700	2790	2820	2400	2910
SC (umhos/cm at 25 C)				2760		
Water Temperature (C) (Fid)	14.9	14.5	14.9	14.2	14.2	13.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-2	STW-2	STW-2	STW-2	STW-2	STW-2
Water	SAMPLE DATE	9/13/2000	9/13/2000	10/3/2000	12/20/2000	5/14/2001	5/14/2001
	SAMPLE TIME	13:40	13:55	12:00	13:20	15:15	15:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001513006	L001513007	L001649004	L002044007	L010699003	L010699015
	SAMPLE NUMBER	EHST-0009-105	EHST-0009-106	EHST-0010-103	EHST-0012-106	EHC-0105-197	EHC-0105-232
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)				310	232	233
Calcium (Ca) (DIS)				87	99	99
Carbonate As CO3				<1		
Chloride (Cl)				161	210	239
Magnesium (Mg) (DIS)				20	23	22
Potassium (K) (DIS)				13	15	15
Sodium (Na) (DIS)				542	472	489
Sulfate (SO4)				1022	1038	1005
Total Alkalinity As CACO3				254	190	191

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)					<0.05	<0.05
Arsenic (As) (DIS)	27	23	23	26	24	24
Arsenic III (dis)	0.5	0.6	2	6.7	16	19
Arsenic V (dis)	25	22	26	18	8	4
Cadmium (Cd) (DIS)				0.002	0.003	0.003
Copper (Cu) (DIS)				0.01	0.02	0.02
Iron (Fe) (DIS)				<0.02	<0.05	<0.05
Lead (Pb) (DIS)				<0.005	<0.005	<0.005
Manganese (Mn) (DIS)				2.4	3.3	3.3
Zinc (Zn) (DIS)				0.2	0.2	0.2

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)				0.01		
Iron (Fe+2) (Fld)				<0.01	<0.01	
Oxygen (O) (DIS) (Fld)	1.06	1.04	0.6	0.9	1.05	1.05
pH				8.2	7.5	7.4
Silicon+Silica (Si+SiO2)					28	28
Depth To Water Level (ft)	32.5		32.9	33.4	34	
Eh (millivolts)	424	418		399	415	412
pH (Fld)	7.8	7.8	6.9	7.2	7.7	7.7
SC (umhos/cm at 25 C) (Fld)	3010	3000	2560	2970	1985	1978
SC (umhos/cm at 25 C)				2860	2770	2770
Total Suspended Solids					4.8	4.4
TDS (Measured at 180 C)				2054	1990	2017
Water Temperature (C) (Fld)	14.1	14.1	12.6	12	14.5	14.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-2	STW-2	STW-2	STW-2	STW-2	STW-2
Water	SAMPLE DATE	9/26/2001	10/19/2001	11/2/2001	11/20/2001	11/30/2001	12/4/2001
	SAMPLE TIME	11:15	14:10	11:37	00:00	13:40	15:00
	LAB	TSC-SLC	HYDRO	HYDRO	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011367006	FIELD ONLY	FIELD ONLY	L011587010	L011606001	L011614001
	SAMPLE NUMBER	EHST-0109-105	EHST-0110-101	EHST-0111-102	EHST-0111-209	EHST-0111-300	EHST-0112-100
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	231		155	170	170
Carbonate As CO3	<1		<1	<1	<1
Sulfate (SO4)	915		697	827	847
Total Alkalinity As CaCO3	189		127	139	139

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	27		26	25	26
Arsenic III (dis)	28		10		
Arsenic V (dis)	<0.005		18		
Cadmium (Cd) (DIS)	<0.001				
Iron (Fe) (DIS)	0.02			0.02	<0.02
Lead (Pb) (DIS)	<0.005				
Manganese (Mn) (DIS)	3.2				
Zinc (Zn) (DIS)	0.2				

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)	<0.01	<0.01	<0.01	<0.01	0.2	
Iron (Fe+2) (Fld)	<0.01	<0.01	<0.01	<0.01		<0.01
Oxygen (O) (DIS) (Fld)	0.1	5.6	6.3	6.2	3.3	3.5
Depth To Water Level (ft)	30	30.8	31	31.4		31.8
Eh (millivolts)	185	335				
pH (Fld)	6.6	7.05	6.9	6.8	7.01	6.9
SC (umhos/cm at 25 C) (Fld)	2800	2680	2650	2620	2640	2580
Water Temperature (C) (Fld)	12.5	12.2	12.3	12.5	12.2	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-2	STW-2	STW-2	STW-2	STW-2	STW-2
Water	SAMPLE DATE	12/7/2001	12/12/2001	12/14/2001	12/19/2001	12/27/2001	1/10/2002
	SAMPLE TIME	12:35	12:00	11:30	12:30	13:30	11:20
	LAB	TSC-SLC	HYDRO	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011626007	FIELD ONLY	L011652005	L011661006	L011677005	L020025006
	SAMPLE NUMBER	EHST-01112-206	EHST-01112-250	EHST-01112-304	EHST-01112-405	EHST-01112-504	EHST-0201-105
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	192		176	171	168	200
	Carbonate As CO3	<1		<1	<1	7	<1
	Sulfate (SO4)	719		839	944	855	860
	Total Alkalinity As CaCO3	157		144	140	150	164
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	23		25	26	25	23
	Arsenic III (dis)	9.1			10		9
	Arsenic V (dis)	15			16		14
	Cadmium (Cd) (DIS)	<0.001			<0.001		0.003
	Iron (Fe) (DIS)	<0.02		<0.02	<0.02	<0.02	<0.02
	Lead (Pb) (DIS)	<0.005			<0.005		<0.005
	Manganese (Mn) (DIS)	2.4			2		2
	Zinc (Zn) (DIS)	0.2			0.2		0.1
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Iron (Fe+2) (Fld)	<0.01	<0.01	<0.01			
	Oxygen (O) (DIS) (Fld)	5.5	6.3	5.01	7.2	7.2	5.03
	Depth To Water Level (ft)	32	32.1	32.1	32.2	34.5	32.9
	pH (Fld)	7.01	6.9	7.03	6.9	6.4	7
	SC (umhos/cm at 25 C) (Fld)	2690	2660	2710	2610	2600	2340
	Water Temperature (C) (Fld)	12.1	12.3	12.2	12.4	12.3	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-2	STW-2	STW-2	STW-2	STW-2	STW-2
Water	SAMPLE DATE	1/16/2002	1/23/2002	2/5/2002	2/12/2002	2/13/2002	2/14/2002
	SAMPLE TIME	12:30	12:05	14:20	10:10	14:40	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020027007	L020042009	L020075009	L020096003	L020096006	L020101002
	SAMPLE NUMBER	EHST-0201-206	EHST-0201-308	EHST-0202-408	EHST-0202-502	EHST-0202-600	EHST-0202-701
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	188	173	198	179	181	181
	Carbonate As CO3	<1	<1	<1	<1	<1	<1
	Sulfate (SO4)	863	930	921	845	897	818
	Total Alkalinity As CaCO3	154	142	162	147	148	148
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	25	23	24	24	23	23
	Arsenic III (dis)		6.7	6.9			
	Arsenic V (dis)		18	17			
	Cadmium (Cd) (DIS)		0.001	<0.001			
	Iron (Fe +2) (TOT)						<0.01
	Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	Lead (Pb) (DIS)		<0.005	<0.005			
	Manganese (Mn) (DIS)		1.8	2.2			
	Zinc (Zn) (DIS)		0.1	0.1			
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Iron (Fe) (Fld)				<0.01	<0.01	
	Oxygen (O) (DIS) (Fld)	6.3	6.4	6.4	6.9	5.7	7.7
	Depth To Water Level (ft)	33.04	33.3	33.6	34	33.9	34.1
	pH (Fld)	6.9	6.7	7.05	7.1	7.2	7.2
	SC (umhos/cm at 25 C) (Fld)	2470	2570	2560	2620	2520	2510
	Water Temperature (C) (Fld)	12.3	12.3	12.4	12.1	12.5	12.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-2	STW-2	STW-2	STW-2	STW-2	STW-2
Water	SAMPLE DATE	2/15/2002	2/19/2002	2/22/2002	2/27/2002	4/19/2002	5/10/2002
	SAMPLE TIME	00:00	13:50	10:50	13:15	13:45	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ASARCO
	LAB NUMBER	L020101007	L020110005	L020118005	L020142010	L020278004	205106
	SAMPLE NUMBER	EHST-0202-801	EHST-0202-904	EHST-0202-104	EHST-0202-209	EHST-0204-103	EHST-0205-106
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	171	151	166	166	176
Carbonate As CO3	<1	<1	<1	<1	<1
Sulfate (SO4)	851	897	965	1022	925
Total Alkalinity As CaCO3	140	124	136	136	144

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	25	25	23	23	23
Arsenic III (dis)		7.8			7.6
Arsenic V (dis)		16			14
Cadmium (Cd) (DIS)		<0.001			0.001
Copper (Cu) (DIS)		0.02			
Iron (Fe +2) (TOT)	<0.01				
Iron (Fe) (DIS)	<0.02	0.05	<0.02	<0.02	<0.02
Lead (Pb) (DIS)		<0.005			<0.005
Manganese (Mn) (DIS)		1.5			1.5
Zinc (Zn) (DIS)		0.1			0.1

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	8.6	7.6	8	8.2	7.6
pH		7.7			
Depth To Water Level (ft)	34.05	34.05	34.1	35.2	35
pH (Fld)	7.2	7.2	7.4	7.06	7.3
SC (umhos/cm at 25 C) (Fld)	2600	2670	2640	2750	2880
SC (umhos/cm at 25 C)		2650			
Water Temperature (C) (Fld)	12.3	12.4	12.6	12.1	12.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-2	STW-2	STW-2	STW-2	STW-2	STW-2
Water	SAMPLE DATE	6/6/2002	7/17/2002	7/24/2002	7/31/2002	8/8/2002	8/14/2002
	SAMPLE TIME	13:45	15:30	13:00	12:30	15:45	14:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020426003	L020591005	L020594003	L020606004	L020638007	L020650004
	SAMPLE NUMBER	EHST-0206-102	EHST-0207-105	EHST-0207-302	EHST-0207-503	EHST-0208-106	EHST-0208-303
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	156	154	151	149	146	142
Calcium (Ca) (DIS)	98					
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Chloride (Cl)	214					
Magnesium (Mg) (DIS)	23					
Potassium (K) (DIS)	14					
Sodium (Na) (DIS)	517					
Sulfate (SO4)	1158	1100	1041	1102	1160	1122
Total Alkalinity As CaCO3	128	126	124	122	120	116

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05					
Arsenic (As) (DIS)	21	18	20	18	17	17
Arsenic III (dis)	5.7	13	16	15	13	16
Arsenic V (dis)	15	6	4	4	4	1
Cadmium (Cd) (DIS)	<0.001		<0.001			
Copper (Cu) (DIS)	0.01					
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005		<0.005			
Manganese (Mn) (DIS)	1.3		1.4			
Zinc (Zn) (DIS)	0.09		0.1			

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.7	9.2	10.6	10.3	10	6.2
pH	7.3					
Silicon+Silica (Si+SiO2)	23					
Depth To Water Level (ft)	34.2	31.4		30.3	29.6	29.7
pH (Fld)	7.2	7.4	7.1	7.2	7.1	7.1
SC (umhos/cm at 25 C) (Fld)	2650	2390	2120	2800	3090	2360
SC (umhos/cm at 25 C)	2760					
Total Suspended Solids	3.7					
TDS (Measured at 180 C)	1992					
Water Temperature (C) (Fld)	13.5	13.2	13.2	13.1	12.4	13.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-2	STW-2	STW-2	STW-2	STW-2	STW-2
Water	SAMPLE DATE	8/22/2002	8/28/2002	9/4/2002	9/19/2002	9/26/2002	10/4/2002
	SAMPLE TIME	11:45	13:55	15:05	12:10	16:45	14:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020686005	L020705003	L020731003	L020785004	L020829008	L020845002
	SAMPLE NUMBER	EHST-0208-502	EHST-0208-602	EHST-0209-102	EHST-0209-403	EHST-0209-607	EHST-0210-101
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	171	170	142	150	144	154
	Carbonate As CO3	<1	<1	<1	<1	<1	<1
	Sulfate (SO4)	1066	1038	1133	1087	975	948
	Total Alkalinity As CaCO3	140	139	116	123	118	126
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	24	25	17	18	19	17
	Arsenic III (dis)	19	8.6	14	14	17	13
	Arsenic V (dis)	6	16	4	4	1	4
	Iron (Fe) (DIS)	0.04	0.04	<0.02	<0.02	<0.02	<0.02
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	6.8	6.7	6.8	7.08	6.4	6.2
	Depth To Water Level (ft)	29.8	29.7	29.8	31.2	30.1	30.3
	pH (Fld)	7.04	7.4	7.2	7.2	7.2	7.2
	SC (umhos/cm at 25 C) (Fld)	3450	2520	2070	2710	2540	1638
	TDS (Measured at 180 C)			2.070213E+07			
	Water Temperature (C) (Fld)	12.6	12.6	12.6	12.5	12.3	12.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-2	STW-2	STW-2	STW-2	STW-2	STW-2
Water	SAMPLE DATE	10/17/2002	10/23/2002	10/31/2002	11/13/2002	6/2/2003	10/30/2003
	SAMPLE TIME	10:50	13:15	14:30	12:10	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ASARCO	TSC-SLC
	LAB NUMBER	L020869002	L020888002	L020915002	L020943006	0306-228	AEH-0310-461
	SAMPLE NUMBER	EHST-0210-301	EHST-0210-401	EHST-0210-501	EHC-0211-213	AEH-0306-228	AEH-0310-461
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						SWL Only Req
	REMARKS						No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	161	159	142	167
Calcium (Ca) (DIS)				118
Carbonate As CO3	<1	<1	<1	<1
Chloride (Cl)				188
Magnesium (Mg) (DIS)				27
Potassium (K) (DIS)				16
Sodium (Na) (DIS)				485
Sulfate (SO4)	1010	1069	936	1122
Total Alkalinity As CaCO3	132	130	116	137

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)				<0.05
Arsenic (As) (DIS)	17	19	17	17
Arsenic III (dis)	16	18	16	9.6
Arsenic V (dis)	<0.005	<0.005	0.7	7.4
Cadmium (Cd) (DIS)				<0.001
Copper (Cu) (DIS)				<0.004
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)				<0.005
Manganese (Mn) (DIS)				1.2
Zinc (Zn) (DIS)				0.08

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.3	7.3	6.7	5.2
pH				7.7
Silicon+Silica (Si+SiO2)				23
Depth To Water Level (ft)	30.6	30.8	31.04	31.5
pH (Fld)	7.09	7.2	7.4	7.2
SC (umhos/cm at 25 C) (Fld)	2690	2710	2780	2750
SC (umhos/cm at 25 C)				2810
Total Suspended Solids				2
TDS (Measured at 180 C)				2049
Water Temperature (C) (Fld)	11.9	12	11.3	11.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-2	STW-2	STW-2	STW-2	STW-2	STW-2
Water	SAMPLE DATE	5/13/2004	10/22/2004	5/9/2005	11/3/2005	4/28/2006	11/6/2006
	SAMPLE TIME	13:21	00:00	15:49	14:46	10:01	00:00
	LAB	ASARCO	ASARCO	ELI-Casper	ASARCO	Hydro	Hydrometrics
	LAB NUMBER	AEH-0405-246	z	AEH-0505-STW2	AEH-0511-248	AEH-0605-STW2	z
	SAMPLE NUMBER	AEH-0405-246	AEH-0411-256	AEH-0505-STW2	AEH-0511-248	AEH-0605-STW2	AEH-0611-STW2
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only Req	SWL Only Req	SWL Only Req	SWL Only	SWL Only	SWL Only
	REMARKS	No Sample	No Sample	No Sample	No Sample	No Sample	No Sample
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Depth To Water Level (ft)	32.82	29.39	33.59	30.32	32.78	30.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-2	STW-3	STW-3	STW-3	STW-3
Water	SAMPLE DATE	11/1/2007	5/10/2000	5/18/2000	5/30/2000	6/6/2000
	SAMPLE TIME	12:45	12:50	12:00	12:50	12:35
	LAB	Hydrometrics	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	AEH-0711-STW2	L000720002	L000759005	L000825005	L000882007
	SAMPLE NUMBER	AEH-0711-STW2	EHST-0005-101	EHST-0005-114	EHST-0005-124	EHST-0006-106
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only Req				
	REMARKS	No Sample				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	259
Calcium (Ca) (DIS)	73
Carbonate As CO3	<1
Chloride (Cl)	188
Magnesium (Mg) (DIS)	18
Potassium (K) (DIS)	13
Sodium (Na) (DIS)	452
Sulfate (SO4)	842

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	22	25	22	21
Arsenic III (dis)	12			3.7 J
Arsenic V (dis)	13			21
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Iron (Fe) (DIS)	<0.05	0.05	<0.02	<0.05
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005 J
Manganese (Mn) (DIS)	2.9	3.3	2.6	2.5
Zinc (Zn) (DIS)	0.1	0.2	0.2	0.1

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)	0.1	0.09	0.01	<0.01
Iron (Fe+2) (Fld)	<0.1	0.07	0.0	<0.01
Oxygen (O) (DIS) (Fld)	1.4	1.02	4.9	4.6
pH	8			
Depth To Water Level (ft)	31.12	33.5	33.4	33.3
Eh (millivolts)		319	274	332
pH (Fld)		6.8	7	7.1
SC (umhos/cm at 25 C) (Fld)		2680	2580	2620
SC (umhos/cm at 25 C)		2550		
Water Temperature (C) (Fld)		11.9	13.7	12.6
				14

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-3	STW-3	STW-3	STW-3	STW-3	STW-3
Water	SAMPLE DATE	6/13/2000	6/21/2000	6/29/2000	7/13/2000	7/24/2000	7/24/2000
	SAMPLE TIME	11:40	12:30	11:45	11:40	14:15	14:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000910004	L000964006	L001003004	L001116004	L001190005	L001190006
	SAMPLE NUMBER	EHST-0006-203	EHST-0006-305	EHST-0006-403	EHST-0007-103	EHST-0007-204	EHST-0007-205
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	150
Calcium (Ca) (DIS)	70
Carbonate As CO3	<1
Chloride (Cl)	183
Magnesium (Mg) (DIS)	17
Potassium (K) (DIS)	13
Sodium (Na) (DIS)	479
Sulfate (SO4)	897

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	20	22	21	22	24	23
Arsenic III (dis)		0.5 U	0.1	0.03 UJ	0.02 U	0.03 U
Arsenic V (dis)		19	21	17	23	23
Cadmium (Cd) (DIS)	<0.001	<0.001				
Iron (Fe) (DIS)	<0.02	<0.03				
Lead (Pb) (DIS)	<0.005	<0.005				
Manganese (Mn) (DIS)	2.2	2.2				
Zinc (Zn) (DIS)	0.1	0.1				

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)	<0.01	<0.01	<0.01	0.01	0.02	
Iron (Fe+2) (Fld)	<0.01	<0.01	<0.01	<0.01	<0.01	
Oxygen (O) (DIS) (Fld)	5.2	6.5	5.7	7.8	7.9	7.9
pH		7.5				
Depth To Water Level (ft)	33.03	32.4	32.2	32.1	32.3	
Eh (millivolts)	347	368	363	364	390	388
pH (Fld)	6.9	7.03	7	7.03	7.3	7.2
SC (umhos/cm at 25 C) (Fld)	2910	2370	2570	2650	2820	2760
SC (umhos/cm at 25 C)		2580				
Water Temperature (C) (Fld)	12.8	13.9	14.5	14.6	15	15

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-3	STW-3	STW-3	STW-3	STW-3	STW-3
Water	SAMPLE DATE	8/3/2000	8/16/2000	8/31/2000	9/13/2000	10/3/2000	12/20/2000
	SAMPLE TIME	10:45	11:45	12:35	13:05	12:40	14:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001239005	L001333005	L001441006	L001513005	L001649005	L002044009
	SAMPLE NUMBER	EHST-0008-104	EHST-0008-204	EHST-0008-305	EHST-0009-104	EHST-0010-104	EHST-0012-108
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	162						272
Calcium (Ca) (DIS)	76						95
Carbonate As CO3	<1						<1
Chloride (Cl)	191						174
Magnesium (Mg) (DIS)	17						22
Potassium (K) (DIS)	12						14
Sodium (Na) (DIS)	451						557
Sulfate (SO4)	1024 J						1015
Total Alkalinity As CaCO3							223

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	25	23	20	22	24	19
Arsenic III (dis)	0.02 U	<0.02	0.1 U	1.8	3.8	5.1
Arsenic V (dis)	26 J	23	20	18	19	15
Cadmium (Cd) (DIS)	<0.001					0.001
Copper (Cu) (DIS)						0.009
Iron (Fe) (DIS)	0.04 U					0.03
Lead (Pb) (DIS)	0.005					0.007
Manganese (Mn) (DIS)	1.4					3.7
Zinc (Zn) (DIS)	0.1					0.2

**Physical/Fid-Lab: ppm unless noted**

Iron (Fe) (Fid)		0.01	0.01		0.02	
Iron (Fe+2) (Fid)	<0.01	<0.01	<0.01		0.01	0.08
Oxygen (O) (DIS) (Fid)	7.7	2.1	1.01	1.05	0.5	1.4
pH	7.9					7.6
Depth To Water Level (ft)	32.3	32.2	32.5	32.9	33.3	33.8
Eh (millivolts)	372	396	327	426		354
pH (Fid)	7.07	7.5	7.3	7.2	6.6	7.3
SC (umhos/cm at 25 C) (Fid)	2900	2350	2950	3030	2550	3190
SC (umhos/cm at 25 C)	2770					2880
TDS (Measured at 180 C)						2073
Water Temperature (C) (Fid)	14	14.2	13.9	14.3	12.7	12.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-3	STW-3	STW-3	STW-3	STW-3	STW-3
Water	SAMPLE DATE	5/14/2001	9/26/2001	10/19/2001	11/2/2001	11/20/2001	11/30/2001
	SAMPLE TIME	15:45	10:55	13:30	11:20	00:00	13:10
	LAB	TSC-SLC	TSC-SLC	HYDRO	HYDRO	TSC-SLC	TSC-SLC
	LAB NUMBER	L010699013	L011367005	FIELD ONLY	FIELD ONLY	L011587009	L011606002
	SAMPLE NUMBER	EHC-0105-198	EHST-0109-104	EHST-0110-102	EHST-0111-103	EHST-0111-208	EHST-0111-301
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	232	217		182	214
Calcium (Ca) (DIS)	97				
Carbonate As CO3		<1		<1	<1
Chloride (Cl)	242				
Magnesium (Mg) (DIS)	24				
Potassium (K) (DIS)	15				
Sodium (Na) (DIS)	469				
Sulfate (SO4)	1123	841		593	744
Total Alkalinity As CaCO3	190	178		149	175

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05				
Arsenic (As) (DIS)	23	19		21	21
Arsenic III (dis)	24	24		7.6	
Arsenic V (dis)	<0.005	<0.005		14	
Cadmium (Cd) (DIS)	0.002	<0.001			
Copper (Cu) (DIS)	0.01				
Iron (Fe) (DIS)	<0.05	<0.02			0.04
Lead (Pb) (DIS)	<0.005	<0.005			
Manganese (Mn) (DIS)	4.2	3.9			
Zinc (Zn) (DIS)	0.2	0.2			

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)		<0.01	<0.01	0.01	<0.01	0.7
Iron (Fe+2) (Fld)		<0.01	<0.01	<0.01	<0.01	
Oxygen (O) (DIS) (Fld)	0.7	0.2	6.3	5.4	6.2	2.2
pH	7.6					
Silicon+Silica (Si+SiO2)	28					
Depth To Water Level (ft)	34.4	30.4	31.3	31.4	31.9	
Eh (millivolts)	374	188	316			
pH (Fld)	7.7	6.7	7.06	6.9	6.8	7
SC (umhos/cm at 25 C) (Fld)	2040	2610	2580	2590	2580	2620
SC (umhos/cm at 25 C)	2720					
Total Suspended Solids	24					
TDS (Measured at 180 C)	1999					
Water Temperature (C) (Fld)	14.6	12.6	12.3	12.4	12.6	12.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-3	STW-3	STW-3	STW-3	STW-3	STW-3
Water	SAMPLE DATE	12/4/2001	12/7/2001	12/12/2001	12/14/2001	12/19/2001	12/27/2001
	SAMPLE TIME	14:00	13:00	12:40	11:50	13:15	14:00
	LAB	TSC-SLC	TSC-SLC	HYDRO	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011614002	L011626009	FIELD ONLY	L011652007	L011661009	L011677007
	SAMPLE NUMBER	EHST-0112-101	EHST-0112-208	EHST-0112-251	EHST-0112-306	EHST-0112-408	EHST-0112-506
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

  

Common Ions (mg/L): ppm unless noted							
Bicarbonate (HCO3)	220	207		207	210	196	
Carbonate As CO3	<1	<1		<1	<1	<1	
Sulfate (SO4)	841	661		768	881	834	
Total Alkalinity As CaCO3	180	170		170	172	161	

  

Metals (mg/L): ppm unless noted							
Arsenic (As) (DIS)	22	21		22	22	20	
Arsenic III (dis)		8.7			12		
Arsenic V (dis)		13			10		
Cadmium (Cd) (DIS)		<0.001			<0.001		
Iron (Fe) (DIS)	<0.02	<0.02		0.03	<0.02	<0.02	
Lead (Pb) (DIS)		<0.005			<0.005		
Manganese (Mn) (DIS)		2.2			1.9		
Zinc (Zn) (DIS)		0.2			0.1		

  

Physical/Fld-Lab: ppm unless noted							
Iron (Fe+2) (Fld)	<0.01	<0.01	<0.01	<0.01			
Oxygen (O) (DIS) (Fld)	1.2	5.2	5.8	4.5	6.01	6.7	
Depth To Water Level (ft)	32.2	32.5	32.5	32.6	32.8	35.08	
pH (Fld)	6.9	7.06	6.9	7.09	7	6.5	
SC (umhos/cm at 25 C) (Fld)	2570	2630	2530	2610	2540	2540	
Water Temperature (C) (Fld)	12.3	12.3	12.3	12.3	12.3	12.3	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-3	STW-3	STW-3	STW-3	STW-3	STW-3
Water	SAMPLE DATE	1/10/2002	1/16/2002	1/23/2002	2/5/2002	2/12/2002	2/13/2002
	SAMPLE TIME	11:45	12:40	11:45	14:00	10:30	15:05
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020025008	L020027008	L020042007	L020075007	L020096005	L020096008
	SAMPLE NUMBER	EHST-0201-107	EHST-0201-207	EHST-0201-306	EHST-0202-406	EHST-0202-504	EHST-0202-602
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	237	207	205	231	206	207
	Carbonate As CO3	<1	<1	<1	<1	<1	<1
	Sulfate (SO4)	879	803	905	963	902	880
	Total Alkalinity As CaCO3	194	170	168	189	169	170
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	21	22	21	22	21	20
	Arsenic III (dis)	8.2		6.7	7.2		
	Arsenic V (dis)	13		16	15		
	Cadmium (Cd) (DIS)	0.003		0.001	<0.001		
	Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	Lead (Pb) (DIS)	<0.005		<0.005	<0.005		
	Manganese (Mn) (DIS)	1.8		1.7	1.7		
	Zinc (Zn) (DIS)	0.2		0.1	0.1		
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Iron (Fe) (Fld)					<0.01	<0.01
	Oxygen (O) (DIS) (Fld)	4.02	6	5.8	6.8	6.3	5.7
	Depth To Water Level (ft)	33.3	33.4	33.7	34	34.3	34.2
	pH (Fld)	7.1	6.9	6.7	7.05	7.2	7.2
	SC (umhos/cm at 25 C) (Fld)	2560	2550	2570	2530	2600	2500
	Water Temperature (C) (Fld)	12.4	12.3	12.4	12.5	12.1	12.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-3	STW-3	STW-3	STW-3	STW-3	STW-3
Water	SAMPLE DATE	2/14/2002	2/15/2002	2/19/2002	2/22/2002	2/27/2002	4/19/2002
	SAMPLE TIME	14:40	10:00	14:10	11:00	12:55	15:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020101003	L020101008	L020110006	L020118006	L020142008	L020278008
	SAMPLE NUMBER	EHST-0202-702	EHST-0202-802	EHST-0202-905	EHST-0202-105	EHST-0202-207	EHST-0204-107
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	198	188	166	165	171	176
	Carbonate As CO3	<1	<1	<1	<1	<1	<1
	Sulfate (SO4)	891	906	971	1010	913	956
	Total Alkalinity As CaCO3	162	154	136	135	140	144
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	21	20	22	21	21	21
	Arsenic III (dis)			7			7.4
	Arsenic V (dis)			14			13
	Cadmium (Cd) (DIS)			<0.001			<0.001
	Copper (Cu) (DIS)			0.01			
	Iron (Fe +2) (TOT)	<0.01	<0.01				
	Iron (Fe) (DIS)	<0.02	<0.02	0.04	<0.02	<0.02	<0.02
	Lead (Pb) (DIS)			<0.005			<0.005
	Manganese (Mn) (DIS)			1.4			0.8
	Zinc (Zn) (DIS)			0.1			0.08
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	7.4	7.8	7.2	7.3	7.7	7.6
	pH			7.6			
	Depth To Water Level (ft)	34.5	34.4	34.4	34.5	35.8	35.4
	pH (Fld)	7.3	7.3	7.3	7.4	7.2	7.7
	SC (umhos/cm at 25 C) (Fld)	2440	2550	2590	2550	2490	2600
	SC (umhos/cm at 25 C)			2580			
	Water Temperature (C) (Fld)	12.1	12.2	12.4	12.7	12.2	13

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-3	STW-3	STW-3	STW-3	STW-3	STW-3
Water	SAMPLE DATE	5/10/2002	6/6/2002	7/17/2002	7/24/2002	7/31/2002	8/8/2002
	SAMPLE TIME	00:00	15:45	14:50	13:45	12:15	16:50
	LAB	ASARCO	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	205103	L020426007	L020591003	L020594005	L020606003	L020642003
	SAMPLE NUMBER	EHST-0205-103A	EHST-0206-106	EHST-0207-103	EHST-0207-304	EHST-0207-502	EHST-0208-110
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	173	174	168	168	167
Calcium (Ca) (DIS)	97				
Carbonate As CO3	<1	<1	<1	<1	<1
Chloride (Cl)	199				
Magnesium (Mg) (DIS)	23				
Potassium (K) (DIS)	15				
Sodium (Na) (DIS)	508				
Sulfate (SO4)	1098	983	1010	944	966
Total Alkalinity As CaCO3	142	143	138	138	137

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05				
Arsenic (As) (DIS)	20	17	17	16	15
Arsenic III (dis)	13	13	13	13	12
Arsenic V (dis)	6	4	5	3	4
Cadmium (Cd) (DIS)	<0.001		<0.001		
Copper (Cu) (DIS)	0.008				
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005		<0.005		
Manganese (Mn) (DIS)	0.8		1.2		
Zinc (Zn) (DIS)	0.08		0.1		

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.5	8.5	10	9.9	10
pH	7.5				
Silicon+Silica (Si+SiO2)	24				
Depth To Water Level (ft)	35.4	34.6	31.7	29.9	30.3
pH (Fld)	7.5	7.4	7.4	6.9	7.3
SC (umhos/cm at 25 C) (Fld)	2670	2470	2140	2670	2930
SC (umhos/cm at 25 C)	2810				
Total Suspended Solids	59				
TDS (Measured at 180 C)	1931				
Water Temperature (C) (Fld)	15.3	12.4	12.6	13.3	12.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-3	STW-3	STW-3	STW-3	STW-3	STW-3
Water	SAMPLE DATE	8/14/2002	8/22/2002	8/28/2002	9/5/2002	9/17/2002	9/19/2002
	SAMPLE TIME	14:00	12:00	14:15	11:30	11:00	12:25
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020650003	L020686003	L020705004	L020731004	L020869003	L020785005
	SAMPLE NUMBER	EHST-0208-302	EHST-0208-503	EHST-0208-603	EHST-0209-103	EHST-0210-302	EHST-0209-404
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	159	142	139	161	176	167
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Sulfate (SO4)	917	1182	1007	1148	976	1134
Total Alkalinity As CaCO3	130	116	114	132	144	137

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	16	17	18	15	15	15
Arsenic III (dis)	14	13	13	11	16	11
Arsenic V (dis)	1	4	5	4	<0.005	4
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	6.2	6.3	6.2	6.07	7.3	6.8
Depth To Water Level (ft)	30.07	30.2	30.2	30.2	31	31.3
pH (Fld)	7	7.2	7.4	7.2	7.3	7.2
SC (umhos/cm at 25 C) (Fld)	2300	3290	2280	2210	2700	2680
TDS (Measured at 180 C)				2016		
Water Temperature (C) (Fld)	13.2	12.5	12.7	12.4	11.8	12.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-3	STW-3	STW-3	STW-3	STW-3	STW-3
Water	SAMPLE DATE	9/26/2002	10/4/2002	10/23/2002	10/31/2002	11/13/2002	12/17/2002
	SAMPLE TIME	16:05	15:00	13:30	14:40	11:50	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ASARCO
	LAB NUMBER	L020829005	L020845003	L020888003	L020915003	L020943004	EHST-0212-104
	SAMPLE NUMBER	EHST-0209-604	EHST-0210-104	EHST-0210-402	EHST-0210-502	EHC-0211-214	EHST-0212-104
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	165	168	171	163	188	
	Calcium (Ca) (DIS)					120	
	Carbonate As CO3	<1	<1	<1	<1	<1	
	Chloride (Cl)					182	
	Magnesium (Mg) (DIS)					27	
	Potassium (K) (DIS)					17	
	Sodium (Na) (DIS)					453	
	Sulfate (SO4)	1041	1005	932	957	1065	
	Total Alkalinity As CACO3	135	138	140	134	154	
<b>Metals (mg/L): ppm unless noted</b>							
	Aluminum (Al) (DIS)					<0.05	
	Arsenic (As) (DIS)	15	15	15	15	15	
	Arsenic III (dis)	15	10	15	16	6.1	
	Arsenic V (dis)	<0.005	5	<0.005	<0.005	8.9	
	Cadmium (Cd) (DIS)					<0.001	
	Copper (Cu) (DIS)					0.006	
	Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	
	Lead (Pb) (DIS)					<0.005	
	Manganese (Mn) (DIS)					0.9	
	Zinc (Zn) (DIS)					0.06	
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	6	6.05	6.9	5.9	5.1	
	pH					7.5	
	Silicon+Silica (Si+SiO2)					24	
	Depth To Water Level (ft)	30.4	30.8	31.2	31.5	31.9	32.83
	pH (Fld)	7.2	6.8	7.4	7.5	7.2	
	SC (umhos/cm at 25 C) (Fld)	2490	1523	2640	2880	2620	
	SC (umhos/cm at 25 C)					2680	
	Total Suspended Solids					6.2	
	TDS (Measured at 180 C)					1925	
	Water Temperature (C) (Fld)	12.2	12.3	11.9	11.3	12.2	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-3	STW-3	STW-3	STW-3	STW-3	STW-3
Water	SAMPLE DATE	6/2/2003	10/30/2003	5/13/2004	10/22/2004	5/9/2005	11/3/2005
	SAMPLE TIME	00:00	00:00	13:17	00:00	15:45	14:47
	LAB	ASARCO	TSC-SLC	ASARCO	ASARCO	ELI-Casper	ASARCO
	LAB NUMBER	0306-229	AEH-0310-462	AEH-0405-243	z	AEH-0505-STW3	AEH-0511-255
	SAMPLE NUMBER	AEH-0306-229	AEH-0310-462	AEH-0405-243	AEH-0411-253	AEH-0505-STW3	AEH-0511-255
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		SWL Only Req	SWL Only Req	SWL Only Req	SWL Only Req	SWL Only
	REMARKS		No Sample	No Sample	No Sample	No Sample	No Sample
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Depth To Water Level (ft)	32.7	31.65	33.24	29.83	34.01	30.77

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-3	STW-3	STW-3	STW-4	STW-4
Water	SAMPLE DATE	4/28/2006	11/6/2006	11/1/2007	5/10/2000	5/18/2000
	SAMPLE TIME	09:57	00:00	12:46	15:20	11:30
	LAB	Hydro	Hydrometrics	Hydrometrics	TSC-SLC	TSC-SLC
	LAB NUMBER	AEH-0605-STW3	z	AEH-0711-STW3	L000720005	L000759003
	SAMPLE NUMBER	AEH-0605-STW3	AEH-0611-STW3	AEH-0711-STW3	EHST-0005-104	EHST-0005-112
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only	SWL Only	SWL Only Req		
	REMARKS	No Sample	No Sample	No Sample		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	251	
Calcium (Ca) (DIS)	70	
Carbonate As CO3	<1	
Chloride (Cl)	182	
Magnesium (Mg) (DIS)	18	
Potassium (K) (DIS)	13	
Sodium (Na) (DIS)	458	
Sulfate (SO4)	844	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	37	40
Arsenic III (dis)	37	
Arsenic V (dis)	3.1	
Cadmium (Cd) (DIS)	<0.001	<0.001
Iron (Fe) (DIS)	0.5	0.6
Lead (Pb) (DIS)	<0.005	<0.005
Manganese (Mn) (DIS)	3.2	3.4
Zinc (Zn) (DIS)	0.3	0.3

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)		0.5	0.6
Iron (Fe+2) (Fld)		0.7	0.6
Oxygen (O) (DIS) (Fld)		1.3	1
pH		7.5	
Depth To Water Level (ft)	33.22	30.64	31.54
Eh (millivolts)		216	204
pH (Fld)		6.8	7
SC (umhos/cm at 25 C) (Fld)		2670	2670
SC (umhos/cm at 25 C)		2650	
Water Temperature (C) (Fld)		12.3	13.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-4	STW-4	STW-4	STW-4	STW-4	STW-4
Water	SAMPLE DATE	5/30/2000	6/6/2000	6/13/2000	6/13/2000	6/21/2000	6/21/2000
	SAMPLE TIME	11:10	10:50	12:35	12:35	14:10	14:12
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	PEAK
	LAB NUMBER	L000825002	L000882003	L000910000	L000910007	L000964008	P000343
	SAMPLE NUMBER	EHST-0005-121	EHST-0006-102	EHST-0006-205	EHST-0006-206	EHST-0006-307	EHST-0006-307
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)						195	194
Calcium (Ca) (DIS)						72	71.5
Carbonate As CO3						<1	<1
Chloride (Cl)						195	149
Magnesium (Mg) (DIS)						19	20.9
Potassium (K) (DIS)						11	17.2
Sodium (Na) (DIS)						476	428
Sulfate (SO4)						893	626

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	37	36	32	32	28	25.5
Arsenic III (dis)		45			17	21.1
Arsenic V (dis)		4			9.9	4.5
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Iron (Fe) (DIS)	0.7	0.6	0.7	0.7	0.4	0.5
Lead (Pb) (DIS)	<0.005	<0.005 J	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.4	3.5	3.5	3.4	3.3	3.4
Zinc (Zn) (DIS)	0.3	0.3	0.3	0.3	0.3	0.3

**Physical/Fid-Lab: ppm unless noted**

Iron (Fe) (Fid)	0.7	0.7	0.7		0.5	
Iron (Fe+2) (Fid)	0.6	0.7	0.7		0.4	
Oxygen (O) (DIS) (Fid)	0.9	1	1.5	1.5	1	
pH					7.2	6.8
Depth To Water Level (ft)	32.6	32.5	32.2		31.7	
Eh (millivolts)	212	206	191	191	196	
pH (Fid)	6.8	6.8	6.8	6.8	6.8	
SC (umhos/cm at 25 C) (Fid)	2750	2780	2930	2950	2440	
SC (umhos/cm at 25 C)					2650	2690
Water Temperature (C) (Fid)	12.6	13.5	13.1	13.1	13.8	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-4	STW-4	STW-4	STW-4	STW-4	STW-4
Water	SAMPLE DATE	6/29/2000	7/13/2000	7/13/2000	7/24/2000	8/3/2000	8/16/2000
	SAMPLE TIME	12:55	13:00	13:15	13:00	11:50	12:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001003006	L001116006	L001116007	L001190003	L001239007	L001333007
	SAMPLE NUMBER	EHST-0006-405	EHST-0007-105	EHST-0007-106	EHST-0007-202	EHST-0008-106	EHST-0008-206
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)						171	
Calcium (Ca) (DIS)						73	
Carbonate As CO3						<1	
Chloride (Cl)						185	
Magnesium (Mg) (DIS)						18	
Potassium (K) (DIS)						12	
Sodium (Na) (DIS)						462	
Sulfate (SO4)						1006 J	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	25	27	26	25	28	29
Arsenic III (dis)	16	11 J	8.3 J	6.5	7.8	11
Arsenic V (dis)	13	19	17	19	25 J	20
Cadmium (Cd) (DIS)					<0.001	
Iron (Fe) (DIS)					0.2	
Lead (Pb) (DIS)					<0.005	
Manganese (Mn) (DIS)					3	
Zinc (Zn) (DIS)					0.2	

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)	0.4	0.2		0.2		0.3
Iron (Fe+2) (Fld)	0.3	0.1		0.1	0.09	0.2
Oxygen (O) (DIS) (Fld)	0.9	1.9	1.9	2.5	1.7	0.8
pH					7.2	
Depth To Water Level (ft)	31.5	31.4	31.4	31.5	31.5	31.6
Eh (millivolts)	201	202	202	230	247	221
pH (Fld)	6.8	7.07	7.08	6.6	7	7.1
SC (umhos/cm at 25 C) (Fld)	2680	2710	2660	2850	2730	2330
SC (umhos/cm at 25 C)					2710	
Water Temperature (C) (Fld)	14.5	14.8	14.8	14.5	14.4	13.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-4	STW-4	STW-4	STW-4	STW-4	STW-4
Water	SAMPLE DATE	8/31/2000	9/13/2000	10/3/2000	11/3/2000	12/20/2000	2/7/2001
	SAMPLE TIME	10:35	14:15	11:20	12:45	11:15	11:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001441003	L001513008	L001649003	L001861004	L002044004	L010183007
	SAMPLE NUMBER	EHST-0008-302	EHST-0009-107	EHST-0010-102	EHST-0011-103	EHST-0012-103	EHST-0102-106
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)						273	
Calcium (Ca) (DIS)						76	
Carbonate As CO3						<1	
Chloride (Cl)						156	
Magnesium (Mg) (DIS)						18	
Potassium (K) (DIS)						13	
Sodium (Na) (DIS)						571	
Sulfate (SO4)						934	
Total Alkalinity As CaCO3						224	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	30	32	36	37	37	33
Arsenic III (dis)	12	17	21	27	26	30
Arsenic V (dis)	17	16	13	11	8.6	8.6
Cadmium (Cd) (DIS)					0.002	
Copper (Cu) (DIS)					0.006	
Iron (Fe) (DIS)					0.2	0.2
Lead (Pb) (DIS)					0.007	
Manganese (Mn) (DIS)					3.1	
Zinc (Zn) (DIS)					0.2	

**Physical/Fid-Lab: ppm unless noted**

Iron (Fe) (Fid)	0.2	0.0	0.2			
Iron (Fe+2) (Fid)	0.2	0.0	0.2	0.2	0.2	
Oxygen (O) (DIS) (Fid)	0.9	0.9	0.6	0.7	0.9	1.02
pH					7.6	
Depth To Water Level (ft)	31.9	32.2	32.7	32.2	33.1	33.8
Eh (millivolts)	224	353		244	253	249
pH (Fid)	7.09	7.1	6.7	6.9	7.05	7.4
SC (umhos/cm at 25 C) (Fid)	2830	2770	2410	2620	2830	2760
SC (umhos/cm at 25 C)					2820	
TDS (Measured at 180 C)					2001	
Water Temperature (C) (Fid)	13.5	14	12.3	12.2	12.3	11.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-4	STW-4	STW-4	STW-4	STW-4	STW-4
Water	SAMPLE DATE	5/14/2001	9/26/2001	10/19/2001	11/2/2001	11/20/2001	12/7/2001
	SAMPLE TIME	16:00	10:00	12:20	10:27	00:00	12:00
	LAB	TSC-SLC	TSC-SLC	HYDRO	HYDRO	TSC-SLC	TSC-SLC
	LAB NUMBER	L010699012	L011367002	FIELD ONLY	FIELD ONLY	L011587004	L011626004
	SAMPLE NUMBER	EHC-0105-199	EHST-0109-101	EHST-0110-103	EHST-0111-104	EHST-0111-203	EHST-0112-203
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	222	217			206	228
	Calcium (Ca) (DIS)	87					
	Carbonate As CO3		<1			<1	<1
	Chloride (Cl)	246					
	Magnesium (Mg) (DIS)	21					
	Potassium (K) (DIS)	14					
	Sodium (Na) (DIS)	495					
	Sulfate (SO4)	1088	911			752	753
	Total Alkalinity As CaCO3	182	178			169	187
<b>Metals (mg/L): ppm unless noted</b>							
	Aluminum (Al) (DIS)	<0.05					
	Arsenic (As) (DIS)	34	33			34	32
	Arsenic III (dis)	39	35			17	19
	Arsenic V (dis)	<0.005	<0.005			17	15
	Cadmium (Cd) (DIS)	0.002	<0.001				<0.001
	Copper (Cu) (DIS)	0.01					
	Iron (Fe) (DIS)	0.2	0.2				0.2
	Lead (Pb) (DIS)	<0.005	<0.005				<0.005
	Manganese (Mn) (DIS)	3.3	3.1				3.1
	Zinc (Zn) (DIS)	0.2	0.2				0.3
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Iron (Fe) (Fld)		0.2	0.1	0.2	0.1	
	Iron (Fe+2) (Fld)		0.1	0.1	0.08	0.08	
	Oxygen (O) (DIS) (Fld)	0.8	0.2	0.03	0.3	0.1	0.3
	pH	7.5					
	Silicon+Silica (Si+SiO2)	27					
	Depth To Water Level (ft)	33.7	29.7	30.6	30.7	31.2	31.7
	Eh (millivolts)	362	250	273			
	pH (Fld)	7.5	6.8	6.9	6.7	6.6	6.9
	SC (umhos/cm at 25 C) (Fld)	2130	2820	2770	2740	2720	2870
	SC (umhos/cm at 25 C)	2860					
	Total Suspended Solids	76					
	TDS (Measured at 180 C)	2045					
	Water Temperature (C) (Fld)	14.4	12.5	12.3	12.3	12.4	12.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-4	STW-4	STW-4	STW-4	STW-4	STW-4
Water	SAMPLE DATE	12/14/2001	12/19/2001	12/27/2001	1/10/2002	1/16/2002	1/23/2002
	SAMPLE TIME	10:55	12:10	12:45	10:50	12:00	11:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011652002	L011661004	L011677002	L020025004	L020027004	L020042004
	SAMPLE NUMBER	EHST-0112-301	EHST-0112-403	EHST-0112-501	EHST-0201-103	EHST-0201-203	EHST-0201-303
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	229	237	220	248	240	229
	Carbonate As CO3	<1	<1	<1	<1	<1	<1
	Sulfate (SO4)	884	970	780	798	843	867
	Total Alkalinity As CaCO3	188	194	180	203	197	188
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	32	33	31	32	32	32
	Arsenic III (dis)		17		17		16
	Arsenic V (dis)		17		15		17
	Cadmium (Cd) (DIS)		<0.001		0.004		0.001
	Iron (Fe) (DIS)	0.1	0.1	0.1	0.2	0.2	0.2
	Lead (Pb) (DIS)		<0.005		<0.005		<0.005
	Manganese (Mn) (DIS)		3		3		3
	Zinc (Zn) (DIS)		0.3		0.2		0.2
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Iron (Fe+2) (Fld)	0.02					
	Oxygen (O) (DIS) (Fld)	0.3	0.3	0.3	0.2	0.2	0.2
	Depth To Water Level (ft)	31.9	32.07	34.3	32.7	32.8	33
	pH (Fld)	6.8	6.7	6.8	6.8	6.7	6.5
	SC (umhos/cm at 25 C) (Fld)	2900	2760	2710	2300	2690	2700
	Water Temperature (C) (Fld)	12.1	12.3	12.2	12.4	12.3	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-4	STW-4	STW-4	STW-4	STW-4	STW-4
Water	SAMPLE DATE	2/5/2002	2/19/2002	2/27/2002	4/19/2002	5/10/2002	6/6/2002
	SAMPLE TIME	13:30	14:40	12:30	14:15	14:55	13:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020075004	L020110009	L020142005	L020278006	L020364004	L020426002
	SAMPLE NUMBER	EHST-0202-403	EHST-0202-908	EHST-0202-204	EHST-0204-105	EHST-0205-103	EHST-0206-101
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)		226	222	217	211	200	190
Calcium (Ca) (DIS)							78
Carbonate As CO3		<1	<1	<1	<1	<1	<1
Chloride (Cl)							199
Magnesium (Mg) (DIS)							18
Potassium (K) (DIS)							13
Sodium (Na) (DIS)							549
Sulfate (SO4)		1008	904	1112	988	905 J	1081
Total Alkalinity As CaCO3		185	182	178	173	164	156
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (DIS)							<0.05
Arsenic (As) (DIS)		33	30	30	28	26	25
Arsenic III (dis)		17	16		11	8.8	13
Arsenic V (dis)		15	14		17	18	13
Cadmium (Cd) (DIS)		<0.001	<0.001		<0.001	<0.001	<0.001
Copper (Cu) (DIS)			0.02				0.006
Iron (Fe) (DIS)		0.2	0.1	0.2	0.06	0.05	0.07
Lead (Pb) (DIS)		<0.005	<0.005		<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		3.1	3.1		2.8	2.6	2.7
Zinc (Zn) (DIS)		0.2	0.2		0.2	0.2	0.2
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)		0.9	0.6	0.2	0.4	0.9	0.4
pH			7.4				7
Silicon+Silica (Si+SiO2)							25
Depth To Water Level (ft)		33.3	33.8	34.2	34.7	34.8	33.9
pH (Fld)		6.8	7.06	6.8	7	7.04	6.8
SC (umhos/cm at 25 C) (Fld)		2710	2720	2900	2950	2490	2720
SC (umhos/cm at 25 C)			2770				2770
Total Suspended Solids							4.6
TDS (Measured at 180 C)							1970
Water Temperature (C) (Fld)		12.3	12.3	12.4	12.8	13	13.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-4	STW-4	STW-4	STW-4	STW-4	STW-4
Water	SAMPLE DATE	7/17/2002	7/24/2002	7/31/2002	8/8/2002	8/14/2002	8/22/2002
	SAMPLE TIME	15:10	13:15	14:00	16:15	14:30	11:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020591004	L020594004	L020606005	L020642001	L020650005	L020686004
	SAMPLE NUMBER	EHST-0207-104	EHST-0207-303	EHST-0207-504	EHST-0208-108	EHST-0208-304	EHST-0208-504
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	168	171	166	168	166	161
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Sulfate (SO4)	895	990	1123	1140	960	1060
Total Alkalinity As CaCO3	138	140	136	138	136	132

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	24	27	25	24	24	15
Arsenic III (dis)	21	19	19	23	20	15
Arsenic V (dis)	3	8	8	2	5	1
Cadmium (Cd) (DIS)		<0.001				
Iron (Fe) (DIS)	0.04	0.03	0.05	0.05	0.04	<0.02
Lead (Pb) (DIS)		<0.005				
Manganese (Mn) (DIS)		2.4				
Zinc (Zn) (DIS)		0.2				

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.9	0.9	1.3	1	0.6	0.8
Depth To Water Level (ft)	30.4		29.6	29.6	29.4	29.5
pH (Fld)	7	6.9	6.6	6.8	6.8	6.6
SC (umhos/cm at 25 C) (Fld)	2480	2210	2900	3030	2430	3330
Water Temperature (C) (Fld)	12.7	13.1	14.1	12.6	13.1	12.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-4	STW-4	STW-4	STW-4	STW-4	STW-4
Water	SAMPLE DATE	8/28/2002	9/4/2002	9/19/2002	10/4/2002	10/17/2002	10/23/2002
	SAMPLE TIME	13:35	15:20	11:55	14:00	10:30	13:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020705005	L020731005	L020785003	L020845001	L020869001	L020888001
	SAMPLE NUMBER	EHST-0208-604	EHST-0209-104	EHST-0209-402	EHST-0210-100	EHST-0210-300	EHST-0210-400
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	156	173	178	193	195	193
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Sulfate (SO4)	962	1126	1060	984	984	1006
Total Alkalinity As CaCO3	128	142	146	158	160	158

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	16	25	24	25	25	26
Arsenic III (dis)	12	18	22	17	22	24
Arsenic V (dis)	4	7	2	7	3	2
Iron (Fe) (DIS)	<0.02	0.04	0.03	0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.4	0.9	1	1.4	1.3	1.5
Depth To Water Level (ft)	29.5	29.5	30.3	30.03	30.3	30.5
pH (Fld)	6.8	6.9	6.7	6.8	6.7	6.6
SC (umhos/cm at 25 C) (Fld)	2500	2070	2810	2520	2770	2740
TDS (Measured at 180 C)		2068				
Water Temperature (C) (Fld)	12.5	12.7	12.8	12.8	11.8	12

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-4	STW-4	STW-4	STW-4	STW-4	STW-4
Water	SAMPLE DATE	10/31/2002	11/13/2002	12/17/2002	6/2/2003	10/30/2003	5/20/2004
	SAMPLE TIME	14:15	11:15	00:00	11:15	10:30	10:20
	LAB	TSC-SLC	TSC-SLC	ASARCO	TSC-SLC	TSC-SLC	ELI
	LAB NUMBER	L020915001	L020943001	EHST-0212-105	L030245006	L030605019	H04050133-003
	SAMPLE NUMBER	EHST-0210-500	EHC-0211-215	EHST-0212-105	AEH-0306-168	AEH-0310-442	AEH-0405-126
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)		195	205		228	250	210
Calcium (Ca) (DIS)			84		70	74	83
Carbonate As CO3		<1	<1		<2	<2	
Chloride (Cl)			182		168	133	110
Magnesium (Mg) (DIS)			19		18	18	19
Potassium (K) (DIS)			14		13	12	14
Sodium (Na) (DIS)			535		449	406	358
Sulfate (SO4)		943	1058		851	736	890
Total Alkalinity As CACO3		160	168		187	205	180
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (DIS)			<0.05				
Arsenic (As) (DIS)		24	24		19	19	11.23
Arsenic III (dis)		24	14		25	8.5	3.1 J
Arsenic V (dis)		<0.005	10		<0.005	12	16 J
Cadmium (Cd) (DIS)			<0.001		<0.001	<0.001	<0.001
Copper (Cu) (DIS)			0.006		0.01 J	0.007	0.005
Iron (Fe) (DIS)		<0.02	<0.02		0.09	0.08	0.25
Lead (Pb) (DIS)			<0.005		<0.005	<0.005	<0.005
Manganese (Mn) (DIS)			1.9		2.7	3	3.58
Zinc (Zn) (DIS)			0.2		0.2	0.2	0.28
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)		1.2	0.8		0.3	0.27	0.29
pH			7.5		7.2	7.8	7.1
Silicon+Silica (Si+SiO2)			25				
Depth To Water Level (ft)		30.8	31.2	32.17	32.05	31.02	32.56
pH (Fld)		6.8	6.5		6.3	6.28	6.23
SC (umhos/cm at 25 C) (Fld)		2320	2610		2450	2370	2210
SC (umhos/cm at 25 C)			2870		2520	2400	2380
Total Suspended Solids			2.8		46	20 J	11
TDS (Measured at 180 C)			2024		1718	1652	1490
Salinity (G/KG) (Fld)					1.1	1.1	10
Turbidity (NTU) (Fld)					4	53	0.0
Water Temperature (C) (Fld)		11.5	12.1		12.5	11.9	12.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-4	STW-4	STW-4	STW-4	STW-4	STW-4
Water	SAMPLE DATE	11/3/2004	5/16/2005	11/16/2005	5/9/2006	11/10/2006	5/16/2007
	SAMPLE TIME	12:55	12:15	14:40	13:20	09:50	10:55
	LAB	ELI	ELI-Casper	ELI-Hel	ELI-Hel	ELI	ELI
	LAB NUMBER	H04110037-014	C05050640-006	H05110136-018	H06050103-007	H06110088-002	H07050191-006
	SAMPLE NUMBER	AEH-0411-216	AEH-0505-162	AEH-0511-190	AEH-0605-194	AEH-0611-145	AEH-0705-157
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	250	221	280	270	360	280
Calcium (Ca) (DIS)	81	86	77	75 J+	80	62
Chloride (Cl)	90	71	62	65	50	40
Magnesium (Mg) (DIS)	19	21	18	17 J-	19	13
Potassium (K) (DIS)	13	12	12 J-	12	13	10
Sodium (Na) (DIS)	323	280	301 J-	272	312	235
Sulfate (SO4)	685	609	557	502	487	427
Total Alkalinity As CaCO3	210	181	230	220	300	230

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	17.3	13	13.61	12.99	15.52	12.56
Arsenic III (dis)	5.8	4.3	7.5	5.2 J	8.6	8.84
Arsenic V (dis)	9.9	8.3	7.4	8.4	7.5	8.21
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.1	0.08	0.11	0.12	0.14	0.08
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.27	3.23	2.6	2.84	3.03	2.34
Zinc (Zn) (DIS)	0.27	0.24	0.19	0.2	0.2	0.15

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					26.1	
Oxygen (O) (DIS) (Fld)	0.05	0.26	1.03	0.45	2.25	0.61
pH	7.1	7.4	7	7.2	7.1	7.3
Depth To Water Level (ft)	29.13	33.33	30.06	32.52	29.94	33.58
pH (Fld)	6.84	6.99	6.7	6.62	6.75	6.87
SC (umhos/cm at 25 C) (Fld)	2078	1791	1790	1620	1885	1519
SC (umhos/cm at 25 C)	1880	1840	1660	1520	1720	1400
Total Suspended Solids	29	46	111 J	<10	181	<10
TDS (Measured at 180 C)	1450	1290	1240	1150	1220	998
TDS - Calculated		1210				
Water Temperature (C) (Fld)	12.4	13.5	12.41	13.48	9.9	12.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-4	STW-4	STW-4	STW-4	STW-5
Water	SAMPLE DATE	11/28/2007	5/13/2008	11/12/2008	5/18/2009	5/10/2000
	SAMPLE TIME	13:40	14:50	11:20	14:30	14:20
	LAB	ELI	ELI	ELI	ELI	TSC-SLC
	LAB NUMBER	H07110218-011	H08050243-001	H08110140-005	H09050256-012	L000720004
	SAMPLE NUMBER	AEH-0711-178	AEH-0805-237	AEH-0811-227	AEH-0905-250	EHST-0005-103
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		250	280	240	271
Bicarbonate (HCO3) (dis)	320				
Calcium (Ca) (dis)	54	53	53	46	92
Carbonate As CO3					<1
Chloride (Cl)	40	35	27	22	187
Magnesium (Mg) (dis)	13	12	12	11	23
Potassium (K) (dis)	10	11	11	10	12
Sodium (Na) (dis)	223	209	222	166	417
Sulfate (SO4)	380	370	370	330	875
Total Alkalinity As CaCO3	270	210	230	200	

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)	<0.005	<0.005	<0.005		
Selenium-VI (dis)	<0.005	<0.005	<0.005		
Aluminum (Al) (DIS)		<0.1	<0.1	<0.1	
Antimony (Sb) (DIS)		<0.005	<0.005	<0.003	
Arsenic (As) (DIS)	12.89	11.37	10.7	9.31	17
Arsenic III (dis)	5.82 J-	7.63	3.6		8.7
Arsenic V (dis)	7.26	6.42	11		9.8
Barium (Ba) (DIS)		<0.1	<0.1	<0.1	
Beryllium (Be) (DIS)		<0.001	<0.001	<0.001	
Cadmium (Cd) (dis)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.001	<0.001	<0.001	
Cobalt (Co) (DIS)		<0.01	<0.01	0.0029	
Copper (Cu) (dis)	<0.004	<0.004	<0.004	0.002	
Gold (Au) (DIS)				<0.01	
Iron (Fe) (DIS)	0.09	0.08	0.08	0.12 UJ	<0.05
Lead (Pb) (dis)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	1.99	1.95	1.83	1.67	2.7
Mercury (Hg) (DIS)		<0.006	<0.006	<0.0001	
Nickel (Ni) (DIS)		<0.01	<0.01	<0.01	
Selenium (Se) (DIS)	0.006	0.007 J	0.005	0.008	
Silver (Ag) (DIS)		<0.005	<0.005	<0.005	
Tellurium (Te) (DIS)				<0.1	
Thallium (Tl) (DIS)		<0.002	<0.002	<0.001	
Vanadium (V) (DIS)		<0.01	<0.01	<0.01	
Zinc (Zn) (dis)	0.14	0.13	0.14	0.11	0.2

**Physical/Fid-Lab: ppm unless noted**

Iron (Fe) (Fld)					0.1
Iron (Fe+2) (Fld)					<0.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-4	STW-4	STW-4	STW-4	STW-5
Water	SAMPLE DATE	11/28/2007	5/13/2008	11/12/2008	5/18/2009	5/10/2000
	SAMPLE TIME	13:40	14:50	11:20	14:30	14:20
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	TSC-SLC
	LAB NUMBER	H07110218-011	H08050243-001	H08110140-005	H09050256-012	L000720004
	SAMPLE NUMBER	AEH-0711-178	AEH-0805-237	AEH-0811-227	AEH-0905-250	EHST-0005-103
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

	STW-4	STW-4	STW-4	STW-4	STW-5
Oxygen (O) (DIS) (Fld)	0.38	0.21	0.27	0.13	1.4
pH	6.9	6.9	7.1	7.3	7.8
Depth To Water Level (ft)	30.84	30.84	30.98	34.39	32.7
Eh (millivolts)					316
pH (Fld)	7	6.77	6.63	6.91	6.7
SC (umhos/cm at 25 C) (Fld)	1360	1289	1276	1116	2720
SC (umhos/cm at 25 C)	1410	1220	1280	1120	2590
Total Suspended Solids	17	71 J+	<10	<10	
TDS (Measured at 180 C)	995	864	855	763	
Water Temperature (C) (Fld)	12.32	14	12.42	13.3	12.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-5	STW-5	STW-5	STW-5	STW-5	STW-5
Water	SAMPLE DATE	5/18/2000	5/30/2000	6/6/2000	6/13/2000	6/21/2000	6/29/2000
	SAMPLE TIME	11:10	11:45	10:15	10:30	11:20	10:35
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000759002	L000825003	L000882002	L000910002	L000964004	L001003002
	SAMPLE NUMBER	EHST-0005-111	EHST-0005-122	EHST-0006-101	EHST-0006-201	EHST-0006-303	EHST-0006-401
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)						146	
Calcium (Ca) (DIS)						79	
Carbonate As CO3						<1	
Chloride (Cl)						184	
Magnesium (Mg) (DIS)						21	
Potassium (K) (DIS)						11	
Sodium (Na) (DIS)						436	
Sulfate (SO4)						882	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	19	20	17	18	18	17
Arsenic III (dis)			9 J		4.6	3
Arsenic V (dis)			14		13	14
Cadmium (Cd) (DIS)	0.002	<0.001	<0.001	<0.001	<0.001	<0.001
Iron (Fe) (DIS)	<0.05	<0.02	<0.05	<0.02	<0.03	<0.03
Lead (Pb) (DIS)	<0.005	<0.005	<0.005 J	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.8	2.5	2.4	2.3	2.2	2.2
Zinc (Zn) (DIS)	0.3	0.3	0.2	0.2	0.2	0.2

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)	0.05	0.04	0.03	0.03	0.02	<0.01
Iron (Fe+2) (Fld)	0.03	0.01	0.02	<0.01	<0.01	<0.01
Oxygen (O) (DIS) (Fld)	1.2	1.1	1.2	1.3	1.8	1.6
pH					7.2	
Depth To Water Level (ft)	32.6	32.5	32.3	32.2	31.7	31.4
Eh (millivolts)	309	299	332	351	406	396
pH (Fld)	6.8	6.8	6.8	6.6	6.6	6.7
SC (umhos/cm at 25 C) (Fld)	2620	2650	2650	2740	2430	2550
SC (umhos/cm at 25 C)					2510	
Water Temperature (C) (Fld)	13.5	12.6	13.2	12.5	13.4	15.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-5	STW-5	STW-5	STW-5	STW-5	STW-5
Water	SAMPLE DATE	7/13/2000	7/24/2000	8/3/2000	8/16/2000	8/31/2000	9/13/2000
	SAMPLE TIME	10:20	12:30	09:45	10:50	11:15	11:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001116002	L001190002	L001239003	L001333003	L001441004	L001513003
	SAMPLE NUMBER	EHST-0007-101	EHST-0007-201	EHST-0008-102	EHST-0008-202	EHST-0008-303	EHST-0009-102
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	109
Calcium (Ca) (DIS)	81
Carbonate As CO3	<1
Chloride (Cl)	195
Magnesium (Mg) (DIS)	19
Potassium (K) (DIS)	11
Sodium (Na) (DIS)	413
Sulfate (SO4)	1026 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	20	19	19	20	20	22
Arsenic III (dis)	2 J	1.2	1.2	1	1	1.1
Arsenic V (dis)	17	17	19 J	19	19	20
Cadmium (Cd) (DIS)			<0.001			
Iron (Fe) (DIS)			0.01 U			
Lead (Pb) (DIS)			<0.005			
Manganese (Mn) (DIS)			1.8			
Zinc (Zn) (DIS)			0.2			

**Physical/Fid-Lab: ppm unless noted**

Iron (Fe) (Fid)	0.01	0.03		0.04	0.04	
Iron (Fe+2) (Fid)	<0.01	0.01	<0.01	0.03	0.01	
Oxygen (O) (DIS) (Fid)	3.3	3.9	4.1	2.04	1.2	1.2
pH			7.2			
Depth To Water Level (ft)	31.3	31.3	31.4	31.4	31.7	32.06
Eh (millivolts)	374	388	427	397	339	401
pH (Fid)	6.7	6.6	6.8	7.1	7.2	7.1
SC (umhos/cm at 25 C) (Fid)	2620	2690	2690	2260	2770	3070
SC (umhos/cm at 25 C)			2610			
Water Temperature (C) (Fid)	13.9	14.1	13.4	13.6	13.1	14.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-5	STW-5	STW-5	STW-5	STW-5	STW-5
Water	SAMPLE DATE	10/3/2000	12/20/2000	2/7/2001	5/14/2001	9/26/2001	10/19/2001
	SAMPLE TIME	13:35	13:00	12:00	16:15	10:15	12:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	HYDRO
	LAB NUMBER	L001649007	L002044005	L010183008	L010699009	L011367003	FIELD ONLY
	SAMPLE NUMBER	EHST-0010-106	EHST-0012-104	EHST-0102-107	EHC-0105-200	EHST-0109-102	EHST-0110-104
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		272		237	220
Calcium (Ca) (DIS)		93		98	
Carbonate As CO3		<1			<1
Chloride (Cl)		148		226	
Magnesium (Mg) (DIS)		23		23	
Potassium (K) (DIS)		13		14	
Sodium (Na) (DIS)		543		490	
Sulfate (SO4)		1016		1149	870
Total Alkalinity As CACO3		223		194	180

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)				<0.05	
Arsenic (As) (DIS)	23	19	19	20	21
Arsenic III (dis)	1.7	3.8	2.5	14	24
Arsenic V (dis)	20	15	13	5	<0.005
Cadmium (Cd) (DIS)		0.001		0.002	<0.001
Copper (Cu) (DIS)		0.008		0.04	
Iron (Fe) (DIS)		<0.02	<0.1	<0.05	0.6
Lead (Pb) (DIS)		<0.005		<0.005	<0.005
Manganese (Mn) (DIS)		2.1		2.6	2.7
Zinc (Zn) (DIS)		0.2		0.2	0.2

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)	0.04				0.6	0.2
Iron (Fe+2) (Fld)	0.02	0.02			0.6	0.1
Oxygen (O) (DIS) (Fld)	0.9	1.1	1	0.8	0.1	0.8
pH		7.5		7.7		
Silicon+Silica (Si+SiO2)				26		
Depth To Water Level (ft)	32.6	33	33.7	33.6	29.5	30.5
Eh (millivolts)		355	296	339	187	248
pH (Fld)	6.7	7.3	7.4	7.5	6.8	7
SC (umhos/cm at 25 C) (Fld)	2450	2930	2840	2160	2680	2590
SC (umhos/cm at 25 C)		2860		2770		
Total Suspended Solids				41		
TDS (Measured at 180 C)		2051		2032		
Water Temperature (C) (Fld)	12.6	9.7	11	14.6	12.6	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-5	STW-5	STW-5	STW-5	STW-5	STW-5
Water	SAMPLE DATE	11/2/2001	11/20/2001	12/7/2001	12/14/2001	12/19/2001	12/27/2001
	SAMPLE TIME	10:45	00:00	12:15	11:10	12:45	13:00
	LAB	HYDRO	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	FIELD ONLY	L011587006	L011626005	L011652003	L011661007	L011677003
	SAMPLE NUMBER	EHST-01111-105	EHST-01111-205	EHST-01112-204	EHST-01112-302	EHST-01112-406	EHST-01112-502
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)		150	168	173	173	159
	Carbonate As CO3		<1	<1	<1	<1	<1
	Sulfate (SO4)		683	692	744	890	879
	Total Alkalinity As CaCO3		123	138	142	142	130
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)		20	20	20	21	19
	Arsenic III (dis)		8.7	8.5		10	
	Arsenic V (dis)		12	13		11	
	Cadmium (Cd) (DIS)			<0.001		<0.001	
	Iron (Fe) (DIS)			0.03	0.03	0.02	<0.02
	Lead (Pb) (DIS)			<0.005		<0.005	
	Manganese (Mn) (DIS)			2.3		2	
	Zinc (Zn) (DIS)			0.2		0.2	
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Iron (Fe) (Fld)	0.05	0.01				
	Iron (Fe+2) (Fld)	0.01	0.02		<0.01		
	Oxygen (O) (DIS) (Fld)	1.3	2.07	1.3	1.3	2.1	2.1
	Depth To Water Level (ft)	30.6	31.05	31.7	31.8	32	34.2
	pH (Fld)	6.8	6.7	6.9	6.9	6.7	6.8
	SC (umhos/cm at 25 C) (Fld)	2580	2560	2600	2610	2520	2500
	Water Temperature (C) (Fld)	12.4	12.5	12.4	12.3	12.4	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-5	STW-5	STW-5	STW-5	STW-5	STW-5
Water	SAMPLE DATE	1/10/2002	1/16/2002	1/23/2002	2/5/2002	2/19/2002	2/22/2002
	SAMPLE TIME	11:15	12:05	11:20	13:40	14:30	10:35
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020025005	L020027005	L020042005	L020075005	L020110008	L020118003
	SAMPLE NUMBER	EHST-0201-104	EHST-0201-204	EHST-0201-304	EHST-0202-404	EHST-0202-907	EHST-0202-102
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	173	183	166	176	171	178
	Carbonate As CO3	<1	<1	<1	<1	<1	<1
	Sulfate (SO4)	829	841	903	941	969	1020
	Total Alkalinity As CaCO3	142	150	136	144	140	146
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	20	20	20	21	20	20
	Arsenic III (dis)	8.1		7.3	7.8	7	
	Arsenic V (dis)	12		14	13	13	
	Cadmium (Cd) (DIS)	0.002		<0.001	<0.001	<0.001	
	Copper (Cu) (DIS)					0.02	
	Iron (Fe) (DIS)	<0.02	0.03	<0.02	0.04	<0.02	0.03
	Lead (Pb) (DIS)	<0.005		<0.005	<0.005	<0.005	
	Manganese (Mn) (DIS)	1.9		1.8	2.1	2	
	Zinc (Zn) (DIS)	0.1		0.1	0.1	0.1	
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	2.4	2.1	2.6	2.3	2.3	2.5
	pH					7.4	
	Depth To Water Level (ft)	32.5	32.7	32.9	33.2	33.7	33.7
	pH (Fld)	6.9	6.8	6.5	6.8	7.2	7.2
	SC (umhos/cm at 25 C) (Fld)	2520	2510	2530	2550	2510	2520
	SC (umhos/cm at 25 C)					2570	
	Water Temperature (C) (Fld)	12.5	12.4	12.4	12.4	12.4	12.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-5	STW-5	STW-5	STW-5	STW-5	STW-5
Water	SAMPLE DATE	2/27/2002	4/19/2002	5/10/2002	6/6/2002	8/8/2002	8/8/2002
	SAMPLE TIME	12:35	14:00	14:40	14:15	00:00	16:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020142006	L020278005	L020364003	L020426004	L020685001	L020638008
	SAMPLE NUMBER	EHST-0202-205	EHST-0204-104	EHST-0205-102	EHST-0206-103	EHST-0208-107RR	EHST-0208-107
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)		173	154	163	159		146
Calcium (Ca) (DIS)					93		
Carbonate As CO3		<1	<1	<1	<1		<1
Chloride (Cl)					168		
Magnesium (Mg) (DIS)					22		
Potassium (K) (DIS)					13		
Sodium (Na) (DIS)					501		
Sulfate (SO4)		878	973	966 J	928		1031
Total Alkalinity As CaCO3		142	126	134	130		120
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (DIS)					<0.05		
Arsenic (As) (DIS)		20	19	19	18	10	16
Arsenic III (dis)			6.8	5.4	12		14
Arsenic V (dis)			11	14	7		2
Cadmium (Cd) (DIS)			0.001	0.001	<0.001		
Copper (Cu) (DIS)					0.009		
Iron (Fe) (DIS)		<0.02	<0.02	0.03	0.02	<0.02	<0.02
Lead (Pb) (DIS)			<0.005	<0.005	<0.005		
Manganese (Mn) (DIS)			1.7	1.9	1.7		
Zinc (Zn) (DIS)			0.1	0.2	0.1		
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)		2.9	2.6	2.7	3.4		5.9
pH					7.3		
Silicon+Silica (Si+SiO2)					23		
Depth To Water Level (ft)		34.1	34.6	34.6	33.8		29.5
pH (Fld)		6.7	7.02	5.5	6.8		6.9
SC (umhos/cm at 25 C) (Fld)		2550	2760	2350	2620		2930
SC (umhos/cm at 25 C)					2680		
Total Suspended Solids					7.3		
TDS (Measured at 180 C)					1929		
Water Temperature (C) (Fld)		12.3	12.7	12.3	13.1		12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-5	STW-5	STW-5	STW-5	STW-5	STW-5
Water	SAMPLE DATE	9/26/2002	9/26/2002	11/13/2002	11/13/2002	6/2/2003	10/30/2003
	SAMPLE TIME	16:20	16:20	11:30	11:30	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ASARCO	TSC-SLC
	LAB NUMBER	L020829006	L020829010	L020943002	L020943013	0306-230	AEH-0310-463
	SAMPLE NUMBER	EHST-0209-605	EHST-0209-608	EHC-0211-216	EHC-0211-239A	AEH-0306-230	AEH-0310-463
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						SWL Only Req
	REMARKS				Field Duplicate		No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	149	183	168	171
Calcium (Ca) (DIS)			115	116
Carbonate As CO3	<1	<1	<1	<1
Chloride (Cl)			186	190
Magnesium (Mg) (DIS)			26	26
Potassium (K) (DIS)			16	16
Sodium (Na) (DIS)			462	467
Sulfate (SO4)	1052	973	1106	1004
Total Alkalinity As CaCO3	122	150	138	140

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.05	<0.05
Arsenic (As) (DIS)	16	25	15	15
Arsenic III (dis)	16	27	9	9.2
Arsenic V (dis)	<0.005	<0.005	6	5.8
Cadmium (Cd) (DIS)			<0.001	<0.001
Copper (Cu) (DIS)			<0.004	0.005
Iron (Fe) (DIS)	<0.02	0.03	<0.02	<0.02
Lead (Pb) (DIS)			<0.005	<0.005
Manganese (Mn) (DIS)			1.7	1.9
Zinc (Zn) (DIS)			0.1	0.1

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.9	1	2.3		
pH			7.4	7.1	
Silicon+Silica (Si+SiO2)			24	24	
Depth To Water Level (ft)	29.6	29.7	31.06		31.9 30.88
pH (Fld)	6.9	6.8	6.7		
SC (umhos/cm at 25 C) (Fld)	2560	2630	2660		
SC (umhos/cm at 25 C)			2740	2720	
Total Suspended Solids			40	50	
TDS (Measured at 180 C)			1961	1954	
Water Temperature (C) (Fld)	12.2	12.3	12.1		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-5	STW-5	STW-5	STW-5	STW-5	STW-5
Water	SAMPLE DATE	5/13/2004	10/22/2004	5/9/2005	11/3/2005	4/28/2006	11/6/2006
	SAMPLE TIME	13:19	00:00	15:47	14:49	10:00	00:00
	LAB	ASARCO	ASARCO	ELI-Casper	ASARCO	Hydro	Hydrometrics
	LAB NUMBER	AEH-0405-245	z	AEH-0505-STW5	AEH-0511-257	AEH-0605-STW5	z
	SAMPLE NUMBER	AEH-0405-245	AEH-0411-255	AEH-0505-STW5	AEH-0511-257	AEH-0605-STW5	AEH-0611-STW5
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only Req	SWL Only Req	SWL Only Req	SWL Only	SWL Only	SWL Only
	REMARKS	No Sample	No Sample	No Sample	No Sample	No Sample	No Sample
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Depth To Water Level (ft)	32.45	29.03	33.22	29.96	32.39	29.83

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-5	STW-6	STW-6	STW-6	STW-6
Water	SAMPLE DATE	11/1/2007	5/10/2000	5/18/2000	5/30/2000	6/6/2000
	SAMPLE TIME	12:43	13:40	12:15	12:20	11:55
	LAB	Hydrometrics	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	AEH-0711-STW5	L000720003	L000759006	L000825004	L000882005
	SAMPLE NUMBER	AEH-0711-STW5	EHST-0005-102	EHST-0005-115	EHST-0005-123	EHST-0006-104
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only Req				
	REMARKS	No Sample				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	239
Calcium (Ca) (DIS)	66
Carbonate As CO3	<1
Chloride (Cl)	182
Magnesium (Mg) (DIS)	15
Potassium (K) (DIS)	12
Sodium (Na) (DIS)	453
Sulfate (SO4)	806

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	27	28	28	28
Arsenic III (dis)	15			17 J
Arsenic V (dis)	14			12
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Iron (Fe) (DIS)	0.09	<0.05	0.06	<0.05
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	0.08 J
Manganese (Mn) (DIS)	2.6	2.7	2.8	2.9
Zinc (Zn) (DIS)	0.1	0.2	0.2	0.1

**Physical/Fid-Lab: ppm unless noted**

Iron (Fe) (Fld)	0.2	0.07	0.07	0.08
Iron (Fe+2) (Fld)	0.1	0.05	0.05	0.05
Oxygen (O) (DIS) (Fld)	1.5	1	1.04	0.8
pH	7.8			
Depth To Water Level (ft)	30.73	32.9	32.9	32.7
Eh (millivolts)		301	282	244
pH (Fld)		6.9	7.05	7
SC (umhos/cm at 25 C) (Fld)		2700	2560	2680
SC (umhos/cm at 25 C)		2560		2730
Water Temperature (C) (Fld)		12.2	13.8	12.6
				13.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-6	STW-6	STW-6	STW-6	STW-6	STW-6
Water	SAMPLE DATE	6/6/2000	6/13/2000	6/21/2000	6/29/2000	7/13/2000	7/24/2000
	SAMPLE TIME	11:55	11:05	12:00	11:10	11:00	14:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000882006	L000910003	L000964005	L001003003	L001116003	L001190007
	SAMPLE NUMBER	EHST-0006-105	EHST-0006-202	EHST-0006-304	EHST-0006-402	EHST-0007-102	EHST-0007-206
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)				209			
Calcium (Ca) (DIS)				74			
Carbonate As CO3				<1			
Chloride (Cl)				186			
Magnesium (Mg) (DIS)				17			
Potassium (K) (DIS)				12			
Sodium (Na) (DIS)				468			
Sulfate (SO4)				887			

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	27	25	24	24	25	23
Arsenic III (dis)	21 J		9.6	9.4	7.4 J	4.7
Arsenic V (dis)	12		11	15	19	18
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001			
Iron (Fe) (DIS)	<0.05	0.05	<0.03			
Lead (Pb) (DIS)	<0.005 J	<0.005	<0.005			
Manganese (Mn) (DIS)	2.9	2.9	2.9			
Zinc (Zn) (DIS)	0.1	0.2	0.1			

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)		0.08	0.08	0.04	0.03	0.05
Iron (Fe+2) (Fld)		0.05	0.02	0.01	<0.01	0.01
Oxygen (O) (DIS) (Fld)	0.8	1	0.9	0.8	2.6	3.1
pH			7.3			
Depth To Water Level (ft)		32.4	31.9	31.6	31.5	31.6
Eh (millivolts)	257	250	269	272	287	293
pH (Fld)	6.9	6.8	6.8	6.8	6.9	7
SC (umhos/cm at 25 C) (Fld)	2730	2770	2500	2610	2690	2830
SC (umhos/cm at 25 C)			2650			
Water Temperature (C) (Fld)	13.9	12.9	13.7	15.3	14.4	14.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-6	STW-6	STW-6	STW-6	STW-6	STW-6
Water	SAMPLE DATE	8/3/2000	8/16/2000	8/31/2000	9/13/2000	10/3/2000	12/20/2000
	SAMPLE TIME	10:15	11:15	11:50	12:25	13:10	13:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001239004	L001333004	L001441005	L001513004	L001649006	L002044008
	SAMPLE NUMBER	EHST-0008-103	EHST-0008-203	EHST-0008-304	EHST-0009-103	EHST-0010-105	EHST-0012-107
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	212					256
Calcium (Ca) (DIS)	84					93
Carbonate As CO3	<1					<1
Chloride (Cl)	187					173
Magnesium (Mg) (DIS)	19					21
Potassium (K) (DIS)	12					14
Sodium (Na) (DIS)	454					563
Sulfate (SO4)	1008 J					1008
Total Alkalinity As CaCO3						210

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	25	24	23	25	22	24
Arsenic III (dis)	5.2	4.7	5.3	8.9	8.7	16
Arsenic V (dis)	24 J	19	17	16	16	11
Cadmium (Cd) (DIS)	<0.001					0.002
Copper (Cu) (DIS)						0.005
Iron (Fe) (DIS)	0.04 U					0.09
Lead (Pb) (DIS)	<0.005					<0.005
Manganese (Mn) (DIS)	2.8					3.6
Zinc (Zn) (DIS)	0.1					0.2

**Physical/Fid-Lab: ppm unless noted**

Iron (Fe) (Fid)		0.06	0.06		0.07	
Iron (Fe+2) (Fid)	0.03	0.04	0.03		0.06	0.06
Oxygen (O) (DIS) (Fid)	2.5	0.8	0.6	0.8	0.6	1.1
pH	7.5					7.6
Depth To Water Level (ft)	31.7	31.7	32	32.3	32.8	33.3
Eh (millivolts)	328	288	308	455		313
pH (Fid)	6.9	7.1	7.2	7.4	6.6	7.08
SC (umhos/cm at 25 C) (Fid)	2950	246	3080	3240	2580	3250
SC (umhos/cm at 25 C)	2840					2920
TDS (Measured at 180 C)						2104
Water Temperature (C) (Fid)	13.9	14.3	13.7	15	13	11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-6	STW-6	STW-6	STW-6	STW-6	STW-6
Water	SAMPLE DATE	5/14/2001	9/26/2001	10/19/2001	11/2/2001	11/20/2001	12/7/2001
	SAMPLE TIME	16:30	10:35	13:05	11:02	00:00	12:25
	LAB	TSC-SLC	TSC-SLC	HYDRO	HYDRO	TSC-SLC	TSC-SLC
	LAB NUMBER	L010699014	L011367004	FIELD ONLY	FIELD ONLY	L011587007	L011626006
	SAMPLE NUMBER	EHC-0105-201	EHST-0109-103	EHST-0110-105	EHST-0111-106	EHST-0111-206	EHST-0112-205
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	220	207		221	209
Calcium (Ca) (DIS)	94				
Carbonate As CO3		<1		<1	11
Chloride (Cl)	235				
Magnesium (Mg) (DIS)	21				
Potassium (K) (DIS)	15				
Sodium (Na) (DIS)	454				
Sulfate (SO4)	1064	898		614	594
Total Alkalinity As CACO3	180	170		181	189

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05				
Arsenic (As) (DIS)	20	20		19	21
Arsenic III (dis)	19	22		10	12
Arsenic V (dis)	<0.005	<0.005		11	10
Cadmium (Cd) (DIS)	0.002	<0.001			<0.001
Copper (Cu) (DIS)	0.009				
Iron (Fe) (DIS)	<0.05	0.07			0.09
Lead (Pb) (DIS)	<0.005	<0.005			<0.005
Manganese (Mn) (DIS)	3.5	3.4			3.3
Zinc (Zn) (DIS)	0.2	0.2			0.2

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)		0.05	0.04	0.08	<0.01	
Iron (Fe+2) (Fld)			0.03	0.02	0.03	<0.01
Oxygen (O) (DIS) (Fld)	0.8	0.2	0.5	0.5	0.5	0.3
pH	7.7					
Silicon+Silica (Si+SiO2)	29					
Depth To Water Level (ft)	33.8	29.8	30.7	30.8	31.3	31.9
Eh (millivolts)	334	188	268			
pH (Fld)	7.5	6.7	7.01	6.8	6.7	7
SC (umhos/cm at 25 C) (Fld)	2060	2590	2570	2570	2570	2630
SC (umhos/cm at 25 C)	2610					
Total Suspended Solids	149					
TDS (Measured at 180 C)	1883					
Water Temperature (C) (Fld)	14.9	12.7	12.3	12.4	12.6	12.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-6	STW-6	STW-6	STW-6	STW-6	STW-6
Water	SAMPLE DATE	12/14/2001	12/19/2001	12/27/2001	1/10/2002	1/16/2002	1/16/2002
	SAMPLE TIME	11:20	13:00	13:15	12:00	12:50	12:55
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011652004	L011661008	L011677004	L020025009	L020027009	L020027010
	SAMPLE NUMBER	EHST-01112-303	EHST-01112-407	EHST-01112-503	EHST-0201-108	EHST-0201-208	EHST-0201-209
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	234	234	240	244	240	237
	Carbonate As CO3	<1	<1	<1	<1	<1	<1
	Sulfate (SO4)	823	805	802	794	810	805
	Total Alkalinity As CaCO3	192	192	197	200	197	194
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	21	21	19	20	21	21
	Arsenic III (dis)		14		9.8		
	Arsenic V (dis)		8		10		
	Cadmium (Cd) (DIS)		<0.001		0.004		
	Iron (Fe) (DIS)	0.09	0.07	0.06	0.07	0.07	0.07
	Lead (Pb) (DIS)		<0.005		<0.005		
	Manganese (Mn) (DIS)		3.3		3.3		
	Zinc (Zn) (DIS)		0.2		0.2		
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Iron (Fe+2) (Fld)	<0.01					
	Oxygen (O) (DIS) (Fld)	0.3	0.3	0.3	0.2	0.2	0.3
	Depth To Water Level (ft)	32.4	32.2	34.4	32.8	32.9	
	pH (Fld)	6.9	6.8	6.9	7	6.8	6.8
	SC (umhos/cm at 25 C) (Fld)	2630	2540	2560	2560	2560	2560
	Water Temperature (C) (Fld)	12.3	12.4	12.4	12.5	12.4	12.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-6	STW-6	STW-6	STW-6	STW-6	STW-6
Water	SAMPLE DATE	1/23/2002	2/5/2002	2/19/2002	2/27/2002	4/19/2002	5/10/2002
	SAMPLE TIME	11:35	13:50	14:20	12:45	15:20	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ASARCO
	LAB NUMBER	L020042006	L020075006	L020110007	L020142007	L020278007	205107
	SAMPLE NUMBER	EHST-0201-305	EHST-0202-405	EHST-0202-906	EHST-0202-206	EHST-0204-106	EHST-0205-107
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

  

Common Ions (mg/L): ppm unless noted							
Bicarbonate (HCO3)	229	239	231	215	217		
Carbonate As CO3	<1	<1	<1	<1	<1		
Sulfate (SO4)	966	900	954	914	911		
Total Alkalinity As CaCO3	188	196	189	176	178		

  

Metals (mg/L): ppm unless noted							
Arsenic (As) (DIS)	21	21	20	20	18		
Arsenic III (dis)	8.9	9	8.2		7.8		
Arsenic V (dis)	12	12	12		10		
Cadmium (Cd) (DIS)	0.002	<0.001	<0.001		0.002		
Copper (Cu) (DIS)			0.01				
Iron (Fe) (DIS)	0.08	0.09	0.06	0.07	0.07		
Lead (Pb) (DIS)	<0.005	<0.005	<0.005		<0.005		
Manganese (Mn) (DIS)	3.3	3.5	3.4		3.3		
Zinc (Zn) (DIS)	0.2	0.2	0.2		0.2		

  

Physical/Fld-Lab: ppm unless noted							
Oxygen (O) (DIS) (Fld)	0.2	0.6	1.1	1.3	1.2		
pH			7.4				
Depth To Water Level (ft)	33.1	33.5	33.9	34.4	34.9		34.8
pH (Fld)	6.6	6.8	7.05	6.8	7.2		
SC (umhos/cm at 25 C) (Fld)	2560	2560	2610	2660	2600		
SC (umhos/cm at 25 C)			2620				
Water Temperature (C) (Fld)	12.4	12.4	12.6	12.3	12.8		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-6	STW-6	STW-6	STW-6	STW-6	STW-6
Water	SAMPLE DATE	6/6/2002	8/8/2002	9/26/2002	11/13/2002	6/2/2003	10/30/2003
	SAMPLE TIME	15:30	17:00	15:50	11:40	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ASARCO	TSC-SLC
	LAB NUMBER	L020426006	L020642004	L020829004	L020943003	0306-231	AEH-0310-464
	SAMPLE NUMBER	EHST-0206-105	EHST-0208-111	EHST-0209-603	EHC-0211-217	AEH-0306-231	AEH-0310-464
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						SWL Only Req
	REMARKS						No Sample
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	203	176	184	220			
Calcium (Ca) (DIS)	121			132			
Carbonate As CO3	<1	<1	<1	<1			
Chloride (Cl)	168			183			
Magnesium (Mg) (DIS)	28			29			
Potassium (K) (DIS)	17			18			
Sodium (Na) (DIS)	513			436			
Sulfate (SO4)	1043	1099	1015	979			
Total Alkalinity As CaCO3	166	144	151	180			
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (DIS)	<0.05			<0.05			
Arsenic (As) (DIS)	15	13	13	14			
Arsenic III (dis)	12	10	13	8.4			
Arsenic V (dis)	4	3	<0.005	5.6			
Cadmium (Cd) (DIS)	0.001			<0.001			
Copper (Cu) (DIS)	0.007			<0.004			
Iron (Fe) (DIS)	0.1	0.08	0.06	0.04			
Lead (Pb) (DIS)	<0.005			<0.005			
Manganese (Mn) (DIS)	3.8			3.6			
Zinc (Zn) (DIS)	0.2			0.2			
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	1.09	3.2	2.4	0.7			
pH	7.7			7.5			
Silicon+Silica (Si+SiO2)	28			27			
Depth To Water Level (ft)	34	29.7	29.9	31.3	32.2		31.12
pH (Fld)	6.8	6.9	6.7	6.8			
SC (umhos/cm at 25 C) (Fld)	2700	2860	2480	2590			
SC (umhos/cm at 25 C)	2750			2660			
Total Suspended Solids	6.7			2.4			
TDS (Measured at 180 C)	2006			1917			
Water Temperature (C) (Fld)	13.8	12.4	12.2	12.1			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-6	STW-6	STW-6	STW-6	STW-6	STW-6
Water	SAMPLE DATE	5/13/2004	10/22/2004	5/9/2005	11/3/2005	4/28/2006	11/6/2006
	SAMPLE TIME	13:18	00:00	15:46	14:48	09:59	00:00
	LAB	ASARCO	ASARCO	ELI-Casper	ASARCO	Hydro	Hydrometrics
	LAB NUMBER	AEH-0405-244	z	AEH-0505-STW6	AEH-0511-256	AEH-0605-STW6	z
	SAMPLE NUMBER	AEH-0405-244	AEH-0411-254	AEH-0505-STW6	AEH-0511-256	AEH-0605-STW6	AEH-0611-STW6
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only Req	SWL Only Req	SWL Only Req	SWL Only	SWL Only	SWL Only
	REMARKS	No Sample	No Sample	No Sample	No Sample	No Sample	No Sample
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Depth To Water Level (ft)	32.67	29.26	33.45	30.2	32.66	30.09

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-6	STW-7	STW-7	STW-7	STW-7
Water	SAMPLE DATE	11/1/2007	8/10/2001	9/26/2001	10/19/2001	11/2/2001
	SAMPLE TIME	12:45	10:30	12:15	14:35	13:04
	LAB	Hydrometrics	TSC-SLC	TSC-SLC	HYDRO	HYDRO
	LAB NUMBER	AEH-0711-STW6	L011184001	L011367009	FIELD ONLY	FIELD ONLY
	SAMPLE NUMBER	AEH-0711-STW6	EHC-0108-100	EHST-0109-108	EHST-0110-106	EHST-0111-107
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION	SWL Only Req				
	REMARKS	No Sample				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	195	214
Calcium (Ca) (DIS)	107	
Carbonate As CO3		<1
Chloride (Cl)	193	
Magnesium (Mg) (DIS)	27	
Potassium (K) (DIS)	13	
Sodium (Na) (DIS)	472	
Sulfate (SO4)	939	963
Total Alkalinity As CaCO3	160	175

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	
Arsenic (As) (DIS)	18	23
Arsenic III (dis)	11	19
Arsenic V (dis)	5	4
Cadmium (Cd) (DIS)	<0.001	<0.001
Copper (Cu) (DIS)	0.005	
Iron (Fe) (DIS)	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005
Manganese (Mn) (DIS)	2.2	2.3
Zinc (Zn) (DIS)	0.1	0.2

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)		<0.01	<0.01	0.06
Iron (Fe+2) (Fld)		<0.01	<0.01	<0.01
Oxidation Reduction Potential	234.9			
Oxygen (O) (DIS) (Fld)	3.1	0.7	2.2	0.8
pH	7.1			
Silicon+Silica (Si+SiO2)	26			
Depth To Water Level (ft)	30.98	30.4	31.6	32
Eh (millivolts)	0.0	191	334	
pH (Fld)	6.6	6.4	6.9	6.8
SC (umhos/cm at 25 C) (Fld)		2350	2680	2580
SC (umhos/cm at 25 C)		2610		
Total Suspended Solids		106		
TDS (Measured at 180 C)		1864		
Water Temperature (C) (Fld)		13.2	12.5	12.2
				12.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-7	STW-7	STW-7	STW-7	STW-7	STW-7
Water	SAMPLE DATE	11/20/2001	11/30/2001	12/4/2001	12/7/2001	12/12/2001	12/14/2001
	SAMPLE TIME	00:00	14:30	13:00	13:20	11:23	12:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	HYDRO	TSC-SLC
	LAB NUMBER	L011587008	L011606003	L011614003	L011626011	FIELD ONLY	L011652009
	SAMPLE NUMBER	EHST-0111-207	EHST-0111-302	EHST-0112-102	EHST-0112-210	EHST-0112-252	EHST-0112-308
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	234	88	157	171		220
	Carbonate As CO3	<1	<1	<1	<1		<1
	Sulfate (SO4)	728	1068	901	732		793
	Total Alkalinity As CaCO3	192	72	129	140		180
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	30	17	21	18		19
	Arsenic III (dis)	16			13		
	Arsenic V (dis)	12			6		
	Cadmium (Cd) (DIS)				<0.001		
	Iron (Fe) (DIS)		48	28	9.1		1
	Lead (Pb) (DIS)				<0.005		
	Manganese (Mn) (DIS)				4		
	Zinc (Zn) (DIS)				0.4		
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Iron (Fe) (Fld)	<0.01	51				
	Iron (Fe+2) (Fld)	<0.01		20	5.6	2.3	0.7
	Oxygen (O) (DIS) (Fld)	0.6	0.1	0.5	0.9	0.4	0.3
	Depth To Water Level (ft)	32.5		32.8	33.7	33.1	33.2
	pH (Fld)	7.05	6.3	6.5	6.7	6.6	6.7
	SC (umhos/cm at 25 C) (Fld)	2650	2800	2660	2700	2610	2710
	Water Temperature (C) (Fld)	12.7	12.1	12.2	12.2	12.4	12.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-7	STW-7	STW-7	STW-7	STW-7	STW-7
Water	SAMPLE DATE	12/19/2001	12/27/2001	1/10/2002	1/16/2002	1/23/2002	2/5/2002
	SAMPLE TIME	13:45	14:30	10:15	11:15	10:40	14:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011661011	L011677009	L020025002	L020027003	L020042002	L020075010
	SAMPLE NUMBER	EHST-01112-410	EHST-01112-508	EHST-0201-101	EHST-0201-202	EHST-0201-301	EHST-0202-409
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	222	242	232	234	239	244
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Sulfate (SO4)	950	836	876	842	951	920
Total Alkalinity As CaCO3	182	198	190	192	196	200

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	24	24	28	28	28	31
Arsenic III (dis)	26		22		17	18
Arsenic V (dis)	<0.02		5		12	13
Cadmium (Cd) (DIS)	<0.001		0.004		0.001	<0.001
Iron (Fe) (DIS)	2.4	0.7	0.5	0.3	0.3	0.3
Lead (Pb) (DIS)	<0.005		<0.005		<0.005	<0.005
Manganese (Mn) (DIS)	3.1		2.9		2.8	3
Zinc (Zn) (DIS)	0.2		0.1		0.1	0.1

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.4	0.5	0.3	0.5	0.3	1.2
Depth To Water Level (ft)	33.4	35.5	33.9	34.04	34.3	34.6
pH (Fld)	6.7	6.7	6.9	6.7	6.5	6.9
SC (umhos/cm at 25 C) (Fld)	2670	2630	2650	2660	2620	2640
Water Temperature (C) (Fld)	12.4	12.4	12.5	12.4	12.5	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-7	STW-7	STW-7	STW-7	STW-7	STW-7
Water	SAMPLE DATE	2/5/2002	2/12/2002	2/13/2002	2/14/2002	2/15/2002	2/19/2002
	SAMPLE TIME	14:40	09:40	15:30	15:00	00:00	15:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020075011	L020096001	L020096010	L020101005	L020101010	L020110012
	SAMPLE NUMBER	EHST-0202-410	EHST-0202-500	EHST-0202-604	EHST-0202-704	EHST-0202-804	EHST-0202-911
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	264	<1	54	68	63	146
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Sulfate (SO4)	888	2598	1084	1197	980	996
Total Alkalinity As CaCO3	216	<1	44	56	52	120

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	31	14	16	6.7	4.5	2.8
Arsenic III (dis)	17					1.6
Arsenic V (dis)	14					1.2
Cadmium (Cd) (DIS)	<0.001					<0.001
Copper (Cu) (DIS)						0.009
Iron (Fe +2) (TOT)					26.4	
Iron (Fe) (DIS)	0.2	508	101	52	28	0.9
Lead (Pb) (DIS)	<0.005					<0.005
Manganese (Mn) (DIS)	3					2.9
Zinc (Zn) (DIS)	0.1					0.3

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)		470	90.5	45		
Oxygen (O) (DIS) (Fld)	1.05	1.04	0.4	2.7	3.2	2.7
pH						7.2
Depth To Water Level (ft)		34.9	34.8	35.3	35	35.03
pH (Fld)	6.9	5.8	6.5	6.5	6.7	7
SC (umhos/cm at 25 C) (Fld)	2660	4330	2760	2660	2720	2690
SC (umhos/cm at 25 C)						2680
Water Temperature (C) (Fld)	12.3	11.7	12.4	12	12.1	12.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-7	STW-7	STW-7	STW-7	STW-7	STW-7
Water	SAMPLE DATE	2/22/2002	2/27/2002	4/19/2002	5/10/2002	6/6/2002	7/17/2002
	SAMPLE TIME	10:15	11:25	15:40	15:30	16:30	14:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020118001	L020142003	L020278010	L020364006	L020426009	L020591002
	SAMPLE NUMBER	EHST-0202-100	EHST-0202-202	EHST-0204-109	EHST-0205-105	EHST-0206-108	EHST-0207-101
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)		176	193	240	232	222	176
Calcium (Ca) (DIS)						78	
Carbonate As CO3		<1	<1	<1	<1	<1	<1
Chloride (Cl)						210	
Magnesium (Mg) (DIS)						18	
Potassium (K) (DIS)						13	
Sodium (Na) (DIS)						539	
Sulfate (SO4)		977	1004	950	952 J	970	912
Total Alkalinity As CaCO3		144	158	197	190	182	144
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (DIS)						<0.05	
Arsenic (As) (DIS)		6.3	12	28	27	27	21
Arsenic III (dis)				10	6.6	18	6.1
Arsenic V (dis)				18	20	9	15
Cadmium (Cd) (DIS)				<0.001	<0.001	<0.001	
Copper (Cu) (DIS)						0.01	
Iron (Fe) (DIS)		0.3	0.02	0.04	0.02	0.03	<0.02
Lead (Pb) (DIS)				<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)				2.7	2.6	2.7	
Zinc (Zn) (DIS)				0.2	0.2	0.2	
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)		4	6.05	5.2	7.6	6.06	7.6
pH						7.4	
Silicon+Silica (Si+SiO2)						26	
Depth To Water Level (ft)		35.1	36.1	36	36	35.2	32
pH (Fld)		6.6	6.8	7.2	7.3	7.03	7
SC (umhos/cm at 25 C) (Fld)		2700	2690	2940	2720	2770	2390
SC (umhos/cm at 25 C)						2790	
Total Suspended Solids						11	
TDS (Measured at 180 C)						2003	
Water Temperature (C) (Fld)		12.7	12.2	13	12.8	14.2	12.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-7	STW-7	STW-7	STW-7	STW-7	STW-7
Water	SAMPLE DATE	7/19/2002	7/24/2002	7/25/2002	7/31/2002	8/1/2002	8/8/2002
	SAMPLE TIME	15:40	11:30	12:20	10:30	13:30	15:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020591006	L020594001	L020594007	L020606001	L020606006	L020638005
	SAMPLE NUMBER	EHST-0207-200	EHST-0207-300	EHST-0207-401	EHST-0207-500	EHST-0207-600	EHST-0208-104
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	<1	20	<1	<1	<1	<1
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Sulfate (SO4)	1564	1051	2783	1148	3581	1307
Total Alkalinity As CaCO3	<1	16	<1	<1	<1	<1

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.6	0.1	0.6	0.1	0.2	0.2
Arsenic III (dis)	<0.005	0.02	<0.005	0.08	<0.005	<0.005
Arsenic V (dis)	0.6	0.08	0.6	0.02	0.2	0.2
Cadmium (Cd) (DIS)		<0.001	0.002			
Iron (Fe) (DIS)	88	0.9	487	22	767	58
Lead (Pb) (DIS)		<0.005	<0.005			
Manganese (Mn) (DIS)		4.4	22			
Zinc (Zn) (DIS)		1	6.9			

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.6	7.4	5.8	7.4	8.5	7.2
Depth To Water Level (ft)	31.4			30.9	31.3	30.9
pH (Fld)	5.6	5.7	4.7	3.8	3.9	3.7
SC (umhos/cm at 25 C) (Fld)	2440	2140	4570	2700	4000	2960
Water Temperature (C) (Fld)	13.1	12.8	14	14	14.8	12.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-7	STW-7	STW-7	STW-7	STW-7	STW-7
Water	SAMPLE DATE	8/9/2002	8/14/2002	8/15/2002	8/22/2002	8/28/2002	9/4/2002
	SAMPLE TIME	10:30	13:24	14:45	10:30	13:00	14:35
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020642006	L020650001	L020650006	L020686001	L020705001	L020731001
	SAMPLE NUMBER	EHST-0208-201	EHST-0208-300	EHST-0208-400	EHST-0208-500	EHST-0208-600	EHST-0209-100
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	<1	<1	<1	<1	<1	<1
	Carbonate As CO3	<1	<1	<1	<1	<1	<1
	Sulfate (SO4)	3248	1668	2850	1677	1130	1063
	Total Alkalinity As CaCO3	<1	<1	<1	<1	<1	<1
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.2	0.2	0.1	0.2	0.2	0.1
	Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	0.04	0.04
	Arsenic V (dis)	0.2	0.2	0.1	0.2	0.1	0.1
	Iron (Fe) (DIS)	828	209	810	99	20	8.6
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	6.01	4.8	4.7	4.03	5.2	5.1
	Depth To Water Level (ft)		30.6		30.8	30.7	30.8
	pH (Fld)	3.7	3.4	3.4	2.9	3.04	3.6
	SC (umhos/cm at 25 C) (Fld)	4700	2780	4430	2940	2380	1893
	TDS (Measured at 180 C)						2035
	Water Temperature (C) (Fld)	12.7	13.2	13.5	14.2	12.7	14

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-7	STW-7	STW-7	STW-7	STW-7	STW-7
Water	SAMPLE DATE	9/6/2002	9/12/2002	9/19/2002	9/20/2002	9/26/2002	10/4/2002
	SAMPLE TIME	09:45	17:30	11:25	10:15	17:40	14:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020749001	L020775002	L020785001	L020785006	L020829012	L020845005
	SAMPLE NUMBER	EHST-0209-200	EHST-0209-301	EHST-0209-400	EHST-0209-500	EHST-0209-610	EHST-0210-103
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	<1	<1	<1	<1	<1	<1
	Carbonate As CO3	<1	<1	<1	<1	<1	<1
	Sulfate (SO4)	2402	1805	1198	3234	1529	1157
	Total Alkalinity As CaCO3	<1	<1	<1	<1	<1	<1
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.1	0.09	0.03	0.06	0.1	0.02
	Arsenic III (dis)	<0.005	0.006	<0.005	<0.005	<0.005	<0.005
	Arsenic V (dis)	0.1	0.08	0.03	0.05	0.09	0.02
	Iron (Fe) (DIS)	<442	63	21	765	114	21
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	5.5	4.2	5.8	5.3	2.8	4.9
	Depth To Water Level (ft)	31.1	30.8	31.5	31	31	31.3
	pH (Fld)	3.1	2.8	2.9	2.9	4.3	2.8
	SC (umhos/cm at 25 C) (Fld)	3660	3150	3040	5080	3370	1702
	Water Temperature (C) (Fld)	13.4	12.5	12.5	12.5	12.3	12.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-7	STW-7	STW-7	STW-7	STW-7	STW-7
Water	SAMPLE DATE	10/5/2002	10/17/2002	10/23/2002	10/31/2002	11/13/2002	12/17/2002
	SAMPLE TIME	10:30	11:30	14:00	15:15	12:20	12:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020845006	L020869005	L020888005	L020915005	L020943007	L021034003
	SAMPLE NUMBER	EHST-0210-200	EHST-0210-304	EHST-0210-404	EHST-0210-504	EHC-0211-218	EHST-0212-102
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	<1	<1	<1	<1	<1	<1	<2
Calcium (Ca) (DIS)						182	
Carbonate As CO3	<1	<1	<1	<1	<1	<1	<2
Chloride (Cl)						188	
Magnesium (Mg) (DIS)						56	
Potassium (K) (DIS)						12	
Sodium (Na) (DIS)						470	
Sulfate (SO4)	2715	1314	2295	2382	2185		1237
Total Alkalinity As CACO3	<1	<1	<1	<1	<1	<1	<2
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (DIS)						12	
Arsenic (As) (DIS)	0.05	0.05	1.1	1.7	0.7		0.05
Arsenic III (dis)	<0.005	<0.005	<0.005	0.008	<0.005		0.02
Arsenic V (dis)	0.05	0.04	1.1	1.6	0.7		0.03
Cadmium (Cd) (DIS)						0.006	
Copper (Cu) (DIS)						0.3	
Iron (Fe) (DIS)	951	49	255	419	199		31
Lead (Pb) (DIS)					<0.005		
Manganese (Mn) (DIS)						45	
Zinc (Zn) (DIS)						14	
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	3.6	5.7	2.3	1	2.6		3.5
pH						2.7	
Silicon+Silica (Si+SiO2)						85	
Depth To Water Level (ft)	31.2	31.5	31.7	32.02	32.4		33.4
pH (Fld)	2.6	3	4350	2.5	2.2		2.8
SC (umhos/cm at 25 C) (Fld)	5230	3410	2.5	5380	4160		2610
SC (umhos/cm at 25 C)					4070		
Total Suspended Solids					22		
TDS (Measured at 180 C)					3324		
Water Temperature (C) (Fld)	12.6	12.2	12	11.2	11.8		11.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-7	STW-7	STW-7	STW-7	STW-7	STW-7
Water	SAMPLE DATE	12/17/2002	1/14/2003	6/2/2003	10/30/2003	5/20/2004	11/3/2004
	SAMPLE TIME	12:15	10:50	11:00	08:30	11:15	11:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	L021034-003	L030016-002	L030245005	L030605014	H04050133-007	H04110037-011
	SAMPLE NUMBER	EHST-0212-102	EHST-0212-101	AEH-0306-167	AEH-0310-437	AEH-0405-130	AEH-0411-213
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	<2	<2	<2	24	110	130	
Calcium (Ca) (DIS)			31	66	63	79	
Carbonate As CO3	<2	<2	<2	<2			
Chloride (Cl)			167	139	120	100	
Magnesium (Mg) (DIS)			11	20	17	21	
Potassium (K) (DIS)			9.4	13	13	12	
Sodium (Na) (DIS)			432	385	359	321	
Sulfate (SO4)	1237	942	894	889	870	727	
Total Alkalinity As CaCO3	<2	<2	<2	20	94	110	
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)	0.045	0.066	0.05	0.1	0.852	1.412	
Arsenic III (dis)	0.021	<0.005	0.01	0.06	0.16 J	<0.006	
Arsenic V (dis)	0.027	0.062	0.05	0.08	0.032 UJ	1.3	
Cadmium (Cd) (DIS)			<0.001	<0.001	<0.001	<0.001	
Copper (Cu) (DIS)			0.03 J	0.01	0.004	<0.004	
Iron (Fe) (DIS)	31	<45	19	4.2	4.86	1.14	
Lead (Pb) (DIS)			<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)			4	4.6	2.52	3.7	
Zinc (Zn) (DIS)			4.7	1.5	0.65	0.36	
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	3.49	0.77	0.08	2.29	0.24	0.77	
pH			3.8	6.8	6.8	6.9	
Depth To Water Level (ft)	33.38	34.18	33.3	32.28	33.83	30.37	
pH (Fld)	2.78	3.19	4.8	5.19	5.67	6.43	
SC (umhos/cm at 25 C) (Fld)	2619	2490	2340	2310	2170	2107	
SC (umhos/cm at 25 C)			2450	2330	2150	1850	
Total Suspended Solids			40	17 J	15	41	
TDS (Measured at 180 C)			1628	1631	1460	1460	
Salinity (G/KG) (Fld)			1.1	1	1		
Turbidity (NTU) (Fld)			49	11	10		
Water Temperature (C) (Fld)	11.7	12.1	12.4	11.6	13.1	12.3	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-7	STW-7	STW-7	STW-7	STW-7	STW-7
Water	SAMPLE DATE	5/16/2005	11/16/2005	5/9/2006	11/10/2006	5/16/2007	5/16/2007
	SAMPLE TIME	11:20	14:00	10:20	10:55	09:45	09:50
	LAB	ELI-Casper	ELI-Hel	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	C05050640-003	H05110136-015	H06050103-004	H06110088-006	H07050191-002	H07050191-003
	SAMPLE NUMBER	AEH-0505-159	AEH-0511-187	AEH-0605-191	AEH-0611-149	AEH-0705-153	AEH-0705-154
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	186	200	240	260	270	270
Calcium (Ca) (DIS)	78	75	73 J+	75	64	64
Chloride (Cl)	75	69	60	52	42	45
Magnesium (Mg) (DIS)	21	19	17 J-	18	14	14
Potassium (K) (DIS)	12	12 J-	12	12	11	11
Sodium (Na) (DIS)	291	297 J-	265	299	232	228
Sulfate (SO4)	633	637	521	528	419	447
Total Alkalinity As CaCO3	153	160	200	210	220	220

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	2.28	4.093	5.09	5.875	7.02	6.925
Arsenic III (dis)	0.9	1	1.3 J	1.5	2.97	3.17
Arsenic V (dis)	1.5	3.2	4.3	5.7	5.95	6.27
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	1.51	0.32	0.77	0.28	0.35	0.33
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.22	2.52	2.47	2.35	2.25	2.21
Zinc (Zn) (DIS)	0.19	0.08	0.09	0.06	0.04	0.05

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				60.3		
Oxygen (O) (DIS) (Fld)	0.36	1.06	0.51	1.66	2.6	
pH	7.27	6.8	7	7.2	7.3	7.4
Depth To Water Level (ft)	34.59	31.33	33.82	31.21	34.87	
pH (Fld)	6.82	6.6	6.51	6.44	6.79	
SC (umhos/cm at 25 C) (Fld)	1655	1800	1600	1726	1497	
SC (umhos/cm at 25 C)	1840	1700	1490	1650	1380	1380
Total Suspended Solids	23	76 J	10 J+	20	<10	<10
TDS (Measured at 180 C)	1270	1250	1120	1190	1020	1020
TDS - Calculated	1220					
Water Temperature (C) (Fld)	12.9	13.38	13	12.5	12.98	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-7	STW-7	STW-7	STW-7	STW-8
Water	SAMPLE DATE	11/28/2007	5/12/2008	11/12/2008	5/15/2009	8/10/2001
	SAMPLE TIME	11:05	15:15	10:15	13:40	13:00
	LAB	ELI	ELI	ELI	ELI	TSC-SLC
	LAB NUMBER	H07110218-005	H08050222-004	H08110140-002	H09050242-007	L011184002
	SAMPLE NUMBER	AEH-0711-172	AEH-0805-216	AEH-0811-224	AEH-0905-233	EHC-0108-101
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					
<b>Common Ions (mg/L): ppm unless noted</b>						
Bicarbonate (HCO3)		260	230	240		271
Bicarbonate (HCO3) (dis)	290					
Calcium (Ca) (dis)	56	53	53	49		97
Chloride (Cl)	45	32	30	22		215
Magnesium (Mg) (dis)	13	12	12	12		23
Potassium (K) (dis)	10	10	10	10		15
Sodium (Na) (dis)	206	210	227	184		552
Sulfate (SO4)	394	380	420	350		988
Total Alkalinity As CaCO3	240	210	190	190		222
<b>Metals (mg/L): ppm unless noted</b>						
Selenium-IV (dis)	<0.005	<0.005	<0.005 J			
Selenium-VI (dis)	<0.005	<0.005	0.007 J			
Aluminum (Al) (DIS)		<0.1	<0.1	<0.1		<0.05
Antimony (Sb) (DIS)		<0.005	<0.005	<0.003		
Arsenic (As) (DIS)	7.43	7.775	4.98	7		23
Arsenic III (dis)	1.78 J-	1.64	1.41 J			25
Arsenic V (dis)	5.95	4.66	5.1 J			<0.005
Barium (Ba) (DIS)		<0.1	<0.1	<0.1		
Beryllium (Be) (DIS)		<0.001	<0.001	<0.001		
Cadmium (Cd) (dis)	<0.001	<0.001	<0.001	0.003		<0.001
Chromium (Cr) (DIS)		<0.001	<0.001	<0.001		
Cobalt (Co) (DIS)		<0.01	<0.01	0.0023 UJ		
Copper (Cu) (dis)	<0.004	<0.004	<0.004	0.002		<0.004
Gold (Au) (DIS)				<0.01		
Iron (Fe) (DIS)	0.2	0.26	0.08	0.18		0.06
Lead (Pb) (dis)	<0.005	<0.005	<0.005	<0.005		<0.005
Manganese (Mn) (DIS)	1.82	1.92	1.13	1.72		3.6
Mercury (Hg) (DIS)		<0.006	<0.006	<0.0001		
Nickel (Ni) (DIS)		<0.01	<0.01	<0.01		
Selenium (Se) (DIS)	0.008	0.005	0.026	0.013		
Silver (Ag) (DIS)		<0.005	<0.005	<0.005 J		
Tellurium (Te) (DIS)				<0.1		
Thallium (Tl) (DIS)		<0.002	<0.002	<0.001		
Vanadium (V) (DIS)		<0.01	<0.01	<0.01		
Zinc (Zn) (dis)	0.04	<0.01	0.04	0.05 UJ		0.2
<b>Physical/Fid-Lab: ppm unless noted</b>						
Oxidation Reduction Potential						153.3
Oxygen (O) (DIS) (Fld)	1.76	0.55	0.55	0.4		1.4
pH	6.9	6.9	6.9	7.4		7.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-7	STW-7	STW-7	STW-7	STW-8
Water	SAMPLE DATE	11/28/2007	5/12/2008	11/12/2008	5/15/2009	8/10/2001
	SAMPLE TIME	11:05	15:15	10:15	13:40	13:00
	LAB	Hydrometrics		Hydrometrics	Hydrometrics	TSC-SLC
	LAB NUMBER	H07110218-005	H08050222-004	H08110140-002	H09050242-007	L011184002
	SAMPLE NUMBER	AEH-0711-172	AEH-0805-216	AEH-0811-224	AEH-0905-233	EHC-0108-101
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

Silicon+Silica (Si+SiO2)						28
Depth To Water Level (ft)	32.11	36.04	32.27	35.65		30.4
Eh (millivolts)						0.0
pH (Fld)	6.88	6.75	6.52	6.86		6.9
SC (umhos/cm at 25 C) (Fld)	1304	1288	1270	1173		2640
SC (umhos/cm at 25 C)	1350	1240	1320	1170		2810
Total Suspended Solids	131	13 J	<10	<10		93
TDS (Measured at 180 C)	942	869	871	794		2031
Water Temperature (C) (Fld)	12.38	12.6	12.6	12.8		14

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-8	STW-8	STW-8	STW-8	STW-8	STW-8
Water	SAMPLE DATE	9/26/2001	10/19/2001	11/2/2001	11/20/2001	11/30/2001	12/4/2001
	SAMPLE TIME	12:00	15:00	12:47	00:00	14:05	13:30
	LAB	TSC-SLC	HYDRO	HYDRO	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011367008	FIELD ONLY	FIELD ONLY	L011587005	L011606004	L011614004
	SAMPLE NUMBER	EHST-0109-107	EHST-0110-107	EHST-0111-108	EHST-0111-204	EHST-0111-303	EHST-0112-103
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	228		211	232	226
Carbonate As CO3	<1		<1	<1	<1
Sulfate (SO4)	991		696	819	979
Total Alkalinity As CaCO3	187		173	190	185

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	22		27	28	28
Arsenic III (dis)	18		13		
Arsenic V (dis)	4		15		
Cadmium (Cd) (DIS)	<0.001				
Iron (Fe) (DIS)	0.3			0.05	0.03
Lead (Pb) (DIS)	<0.005				
Manganese (Mn) (DIS)	3.6				
Zinc (Zn) (DIS)	0.09				

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)	0.3	<0.01	0.1	0.05	1.2
Iron (Fe+2) (Fld)	0.2	<0.01	0.05	0.01	<0.01
Oxygen (O) (DIS) (Fld)	0.1	2.8	2.9	2.8	1
Depth To Water Level (ft)	31	31.7	31.9	32.4	32.8
Eh (millivolts)	155	287			
pH (Fld)	6.5	7.05	6.9	7.05	6.9
SC (umhos/cm at 25 C) (Fld)	2780	2700	2700	2670	2780
Water Temperature (C) (Fld)	12.4	12.2	12.4	12.6	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-8	STW-8	STW-8	STW-8	STW-8	STW-8
Water	SAMPLE DATE	12/7/2001	12/12/2001	12/14/2001	12/19/2001	12/27/2001	1/10/2002
	SAMPLE TIME	13:05	11:38	12:00	13:30	14:15	10:30
	LAB	TSC-SLC	HYDRO	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011626010	FIELD ONLY	L011652008	L011661010	L011677008	L020025003
	SAMPLE NUMBER	EHST-0112-209	EHST-0112-253	EHST-0112-307	EHST-0112-409	EHST-0112-507	EHST-0201-102
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

  

Common Ions (mg/L): ppm unless noted							
Bicarbonate (HCO3)	212		195	305	199	244	
Carbonate As CO3	<1		<1	<1	<1	<1	
Sulfate (SO4)	717		815	944	885	877	
Total Alkalinity As CaCO3	174		160	250	163	200	

  

Metals (mg/L): ppm unless noted							
Arsenic (As) (DIS)	29		28	27	24	30	
Arsenic III (dis)	15			17		14	
Arsenic V (dis)	15			10		13	
Cadmium (Cd) (DIS)	<0.001			<0.001		0.003	
Iron (Fe) (DIS)	<0.02		0.04	<0.02	<0.02	<0.02	
Lead (Pb) (DIS)	<0.005			<0.005		<0.005	
Manganese (Mn) (DIS)	2.4			2.6		2.1	
Zinc (Zn) (DIS)	0.2			0.3		0.2	

  

Physical/Fld-Lab: ppm unless noted							
Iron (Fe+2) (Fld)	<0.01	<0.01	<0.01				
Oxygen (O) (DIS) (Fld)	3.4	2.9	2.3	3.05	3.2	3.3	
Depth To Water Level (ft)	33	33.1	33.1	33.3	35.5	33.9	
pH (Fld)	7	6.6	6.8	6.7	6.7	6.9	
SC (umhos/cm at 25 C) (Fld)	2810	2620	2690	2620	2610	2660	
Water Temperature (C) (Fld)	12.3	12.4	12.2	12.4	12.3	12.4	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-8	STW-8	STW-8	STW-8	STW-8	STW-8
Water	SAMPLE DATE	1/16/2002	1/23/2002	2/5/2002	2/12/2002	2/13/2002	2/14/2002
	SAMPLE TIME	11:00	10:50	14:50	09:50	15:20	14:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020027002	L020042003	L020075012	L020096002	L020096009	L020101004
	SAMPLE NUMBER	EHST-0201-201	EHST-0201-302	EHST-0202-411	EHST-0202-501	EHST-0202-603	EHST-0202-703
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	210	210	205	205	214	207
	Carbonate As CO3	<1	<1	<1	<1	<1	<1
	Sulfate (SO4)	842	865	903	845	921	1183
	Total Alkalinity As CaCO3	172	172	168	168	175	170
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	28	28	30	28	27	27
	Arsenic III (dis)		13	11			
	Arsenic V (dis)		16	19			
	Cadmium (Cd) (DIS)		0.001	<0.001			
	Iron (Fe +2) (TOT)						<0.01
	Iron (Fe) (DIS)	<0.02	<0.02	<0.02	0.07	<0.02	0.02
	Lead (Pb) (DIS)		<0.005	<0.005			
	Manganese (Mn) (DIS)		2.2	2.1			
	Zinc (Zn) (DIS)		0.2	0.2			
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Iron (Fe) (Fld)				<0.01	<0.01	
	Oxygen (O) (DIS) (Fld)	3.04	3.5	5.3	4.6	3.2	4.7
	Depth To Water Level (ft)	34	34.2	34.6	34.9	34.8	35.3
	pH (Fld)	6.7	6.6	7.2	7	7.1	7
	SC (umhos/cm at 25 C) (Fld)	2630	2630	2570	2670	2600	3120
	Water Temperature (C) (Fld)	12.3	12.4	12.3	11.9	12.6	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-8	STW-8	STW-8	STW-8	STW-8	STW-8
Water	SAMPLE DATE	2/15/2002	2/19/2002	2/19/2002	2/22/2002	2/27/2002	4/19/2002
	SAMPLE TIME	00:00	14:50	15:00	10:25	11:15	15:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020101009	L020110010	L020110011	L020118002	L020142002	L020278009
	SAMPLE NUMBER	EHST-0202-803	EHST-0202-909	EHST-0202-910	EHST-0202-101	EHST-0202-201	EHST-0204-108
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	185	192	178	193	193	209
	Carbonate As CO3	<1	<1	<1	<1	<1	<1
	Sulfate (SO4)	1167	997	1026	968	918	1004
	Total Alkalinity As CaCO3	152	157	146	158	158	171
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	27	26	26	25	23	23
	Arsenic III (dis)		9.7	9.8			8.4
	Arsenic V (dis)		16	15			14
	Cadmium (Cd) (DIS)		<0.001	<0.001			<0.001
	Copper (Cu) (DIS)		0.02	0.03			
	Iron (Fe +2) (TOT)	<0.01					
	Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	Lead (Pb) (DIS)		<0.005	<0.005			<0.005
	Manganese (Mn) (DIS)		2.9	2.9			2.3
	Zinc (Zn) (DIS)		0.3	0.3			0.2
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	4.3	5	5	5.4	6.6	5.05
	pH		7.8	7.5			
	Depth To Water Level (ft)	35.1	35		35.06	36.7	35.9
	pH (Fld)	6.9	7.05	7.05	6.9	6.9	7.4
	SC (umhos/cm at 25 C) (Fld)	3180	2740	2750	2570	2600	2920
	SC (umhos/cm at 25 C)		2770	2770			
	Water Temperature (C) (Fld)	12.2	12.4	12.4	12.6	11.9	12.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-8	STW-8	STW-8	STW-8	STW-8	STW-8
Water	SAMPLE DATE	5/10/2002	6/6/2002	7/17/2002	7/19/2002	7/24/2002	7/25/2002
	SAMPLE TIME	15:15	16:10	14:00	15:50	12:00	12:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020364005	L020426008	L020591001	L020591007	L020594002	L020594006
	SAMPLE NUMBER	EHST-0205-104	EHST-0206-107	EHST-0207-100	EHST-0207-201	EHST-0207-301	EHST-0207-400
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)		210	205	185	173	162	160
Calcium (Ca) (DIS)			88				
Carbonate As CO3		<1	<1	<1	<1	<1	<1
Chloride (Cl)			209				
Magnesium (Mg) (DIS)			21				
Potassium (K) (DIS)			14				
Sodium (Na) (DIS)			555				
Sulfate (SO4)	914 J		1129	1112	1336	1048	964
Total Alkalinity As CaCO3		172	168	152	142	133	131
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (DIS)			<0.05				
Arsenic (As) (DIS)	23		23	18	19	18	17
Arsenic III (dis)	6.5		15	11	14	13	6.2
Arsenic V (dis)	16		7	10	5	5	12
Cadmium (Cd) (DIS)	<0.001		<0.001			<0.001	<0.001
Copper (Cu) (DIS)			0.01				
Iron (Fe) (DIS)	<0.02		<0.02	<0.02	<0.02	<0.02	0.03
Lead (Pb) (DIS)	<0.005		<0.005			<0.005	<0.005
Manganese (Mn) (DIS)	2.2		2.4			3.3	3.2
Zinc (Zn) (DIS)	0.2		0.2			0.3	0.3
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	7.1		4.3	4.2	4.7	5.7	4.3
pH			7.4				
Silicon+Silica (Si+SiO2)			26				
Depth To Water Level (ft)	35.9		35.1	32.9	31.6		
pH (Fld)	7.3		6.9	6.9	6.7	6.9	6.9
SC (umhos/cm at 25 C) (Fld)	2470		2730	2610	2730	2240	2840
SC (umhos/cm at 25 C)			2800				
Total Suspended Solids			75				
TDS (Measured at 180 C)			1998				
Water Temperature (C) (Fld)	12.9		14.3	13.3	13.7	13.2	13

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-8	STW-8	STW-8	STW-8	STW-8	STW-8
Water	SAMPLE DATE	7/31/2002	8/1/2002	8/8/2002	8/9/2002	8/14/2002	8/15/2002
	SAMPLE TIME	11:00	14:00	15:00	10:15	13:40	15:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020606002	L020606007	L020638004	L020642005	L020650002	L020650007
	SAMPLE NUMBER	EHST-0207-501	EHST-0207-601	EHST-0208-103	EHST-0208-200	EHST-0208-301	EHST-0208-401
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	148	142	124	117	95	93
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Sulfate (SO4)	1149	1039	1072	1207	1152	1119
Total Alkalinity As CaCO3	121	116	102	96	78	76

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	14	14	11	11	8.3	9
Arsenic III (dis)	4.7	12	5.3	2	1.2	1.4
Arsenic V (dis)	11	4	5.7	9	6.9	7.8
Iron (Fe) (DIS)	0.8	1.6	2.4	6	12	11

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.2	5.8	5	4.04	2.2	3.2
Depth To Water Level (ft)	30.9	30.8	30.8		30.6	
pH (Fld)	6.3	6.5	6.6	6.4	5.8	6
SC (umhos/cm at 25 C) (Fld)	2910	2080	2910	2820	2410	2350
Water Temperature (C) (Fld)	13.4	13.6	12.4	12.6	13.4	13.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-8	STW-8	STW-8	STW-8	STW-8	STW-8
Water	SAMPLE DATE	8/22/2002	8/28/2002	9/4/2002	9/6/2002	9/12/2002	9/19/2002
	SAMPLE TIME	10:45	13:15	14:45	10:00	17:50	11:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020686002	L020705002	L020731002	L020749002	L020775003	L020785002
	SAMPLE NUMBER	EHST-0208-501	EHST-0208-601	EHST-0209-101	EHST-0209-201	EHST-0209-302	EHST-0209-401
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	79	115	124	109	126	144
	Carbonate As CO3	<1	<1	<1	<1	<1	<1
	Sulfate (SO4)	1208	1063	975	992	1040	1220
	Total Alkalinity As CaCO3	65	94	102	109	103	118
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	6.7	11	11	12	11	12
	Arsenic III (dis)	0.4	5.8	8.3	4.2	12	13
	Arsenic V (dis)	6.3	5.2	3	7.8	<0.005	<0.005
	Iron (Fe) (DIS)	13	1.7	<0.02	0.9	2	0.8
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	3.6	5	4.2	4.09	4.3	3.3
	Depth To Water Level (ft)	30.8	30.7	30.8	31.1	30.7	33.5
	pH (Fld)	5.7	6.2	6.6	6.3	6.5	6.3
	SC (umhos/cm at 25 C) (Fld)	2410	2130	1880	2240	2600	2720
	TDS (Measured at 180 C)			2018			
	Water Temperature (C) (Fld)	14.4	13	13	12.6	12.7	12.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-8	STW-8	STW-8	STW-8	STW-8	STW-8
Water	SAMPLE DATE	9/20/2002	9/26/2002	10/4/2002	10/5/2002	10/17/2002	10/23/2002
	SAMPLE TIME	10:30	17:20	14:40	10:45	11:15	13:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020785007	L020829011	L020845004	L020845007	L020869004	L020888004
	SAMPLE NUMBER	EHST-0209-501	EHST-0209-609	EHST-0210-102	EHST-0210-201	EHST-0210-303	EHST-0210-403
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	142	132	151	151	156	159
	Carbonate As CO3	<1	<1	<1	<1	<1	<1
	Sulfate (SO4)	1089	1011	1050	1014	906	1092
	Total Alkalinity As CaCO3	116	108	124	124	128	130
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	12	11	12	12	13	13
	Arsenic III (dis)	9.6	12	8.9	6	13	14
	Arsenic V (dis)	2.4	<0.005	3.1	7	<0.005	<0.005
	Iron (Fe) (DIS)	0.7	1.1	0.4	0.2	0.03	0.09
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	3.8	4.3	3.8	3.5	4.9	5.05
	Depth To Water Level (ft)	30.9	31	31.3	31.2	31.5	31.7
	pH (Fld)	6.4	6.8	6.8	6.2	6.9	6.8
	SC (umhos/cm at 25 C) (Fld)	2770	2640	1551	2630	2750	2780
	Water Temperature (C) (Fld)	12.4	12.3	12.4	12.1	12.2	11.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-8	STW-8	STW-8	STW-8	STW-8	STW-8
Water	SAMPLE DATE	10/31/2002	11/13/2002	12/17/2002	1/14/2003	6/2/2003	10/30/2003
	SAMPLE TIME	14:55	00:00	12:30	11:10	10:30	09:20
	LAB	TSC-SLC	ASARCO	ASARCO	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020915004	0211-219	EHST-0212-103	L030016-003	L030245004	L030605016
	SAMPLE NUMBER	EHST-0210-503	EHC-0211-219	EHST-0212-103	EHST-0212-102	AEH-0306-166	AEH-0310-439
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	161			186	237	210
	Calcium (Ca) (DIS)					77	89
	Carbonate As CO3	<1			<2	<2	<2
	Chloride (Cl)					155	136
	Magnesium (Mg) (DIS)					20	22
	Potassium (K) (DIS)					14	12
	Sodium (Na) (DIS)					430	404
	Sulfate (SO4)	983			850	980	823
	Total Alkalinity As CaCO3	132			186	194	172
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	14			17	17	14
	Arsenic III (dis)	16			17	20	3.5 J
	Arsenic V (dis)	<0.005			1	<0.005	10
	Cadmium (Cd) (DIS)					<0.001	<0.001
	Copper (Cu) (DIS)					0.007 J	0.007
	Iron (Fe) (DIS)	<0.02			0.029	0.04	0.09
	Lead (Pb) (DIS)					<0.005	<0.005
	Manganese (Mn) (DIS)					1.3	0.9
	Zinc (Zn) (DIS)					0.8	0.5
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	5.3			3.45	0.2	0.11
	pH					7.4	7.6
	Depth To Water Level (ft)	32.01	32.4	31.06	31.84	31	29.95
	pH (Fld)	7.2			6.47	6.4	6.24
	SC (umhos/cm at 25 C) (Fld)	3090			2450	2460	2420
	SC (umhos/cm at 25 C)					2550	2440
	Total Suspended Solids					2.6	6.6 J
	TDS (Measured at 180 C)					1811	1724
	Salinity (G/KG) (Fld)					1.1	1.1
	Turbidity (NTU) (Fld)					1	21
	Water Temperature (C) (Fld)	11.1			11.3	12	11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-8	STW-8	STW-8	STW-8	STW-8	STW-8
Water	SAMPLE DATE	5/20/2004	11/3/2004	5/16/2005	11/16/2005	5/9/2006	11/10/2006
	SAMPLE TIME	11:00	12:25	11:40	14:10	12:45	10:35
	LAB	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel	ELI
	LAB NUMBER	H04050133-006	H04110037-012	C05050640-004	H05110136-016	H06050103-005	H06110088-004
	SAMPLE NUMBER	AEH-0405-129	AEH-0411-214	AEH-0505-160	AEH-0511-188	AEH-0605-192	AEH-0611-147
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	210	210	217	210	260	280
	Calcium (Ca) (DIS)	83	92	88	78	72 J+	81
	Chloride (Cl)	120	90	75	64	62	57
	Magnesium (Mg) (DIS)	19	22	22	19	17 J-	20
	Potassium (K) (DIS)	14	14	12	11 J-	12	12
	Sodium (Na) (DIS)	361	321	289	303 J-	276	293
	Sulfate (SO4)	750	732	632	671	542	508
	Total Alkalinity As CaCO3	180	170	178	180	210	230
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	10.11	11.08	9.43	8.276	8.54	8.09
	Arsenic III (dis)	0.46 J	0.44	0.8	1.9	0.6 J	0.3 J
	Arsenic V (dis)	10 J	9.6	9	6.5	9.6	10.6
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)	0.005	<0.004	0.004	0.004	0.004	<0.004
	Iron (Fe) (DIS)	0.03	<0.02	<0.02	<0.02	0.03	<0.02
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)	1.03	1.05	1.21	0.51	1.06	0.53
	Zinc (Zn) (DIS)	0.62	0.4	0.38	0.33	0.33	0.27
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxidation Reduction Potential						80.4
	Oxygen (O) (DIS) (Fld)	0.25	0.44	0.31	1.08	0.66	0.51
	pH	7.2	7	7.52	6.8	7	6.9
	Depth To Water Level (ft)	31.47	28.04	32.26	29.01	31.47	28.89
	pH (Fld)	6.16	6.64	6.77	6.53	6.5	6.59
	SC (umhos/cm at 25 C) (Fld)	2220	2127	1642	1774	1630	1751
	SC (umhos/cm at 25 C)	2210	1880	1870	1750	1490	1670
	Total Suspended Solids	<10	<10	<10	<10 J	<10	<10
	TDS (Measured at 180 C)	1510	1490	1300	1270	1130	1210
	TDS - Calculated			1250			
	Salinity (G/KG) (Fld)	1					
	Turbidity (NTU) (Fld)	10					
	Water Temperature (C) (Fld)	12.7	12.2	12.8	12.94	13.29	12.51

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-8	STW-8	STW-8	STW-8	STW-8	STW-8	
Water	SAMPLE DATE	11/10/2006	5/16/2007	11/28/2007	5/12/2008	11/12/2008	5/18/2009	
	SAMPLE TIME	10:40	11:25	13:20	15:40	10:38	12:30	
	LAB	ELI	ELI	ELI	ELI	ELI	ELI	
	LAB NUMBER	H06110088-005	H07050191-007	H07110218-010	H08050222-005	H08110140-003	H09050256-008	
	SAMPLE NUMBER	AEH-0611-148	AEH-0705-158	AEH-0711-177	AEH-0805-217	AEH-0811-225	AEH-0905-246	
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
	GROUP	RI	RI	RI	RI	RI	RI	
	DESCRIPTION							
	REMARKS	Field Duplicate						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	270	270		250	250	230
Bicarbonate (HCO3) (dis)			280			
Calcium (Ca) (DIS)	83	66	57	54	54	47
Chloride (Cl)	52	40	45	33	29	22
Magnesium (Mg) (DIS)	20	15	14	13	12	12
Potassium (K) (DIS)	13	10	9	10	10	9
Sodium (Na) (DIS)	299	228	208	200	216	177
Sulfate (SO4)	459	451	407	370	390	350
Total Alkalinity As CaCO3	230	220	230	210	210	190

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)			<0.005	<0.005	<0.005	
Selenium-VI (dis)			0.0075	<0.005	0.007	
Aluminum (Al) (DIS)				<0.1	<0.1	<0.1
Antimony (Sb) (DIS)				<0.005	<0.005	<0.003
Arsenic (As) (DIS)	8.45	8.8	8.655	8.8	8.35	7.84
Arsenic III (DIS)	<0.07 J	1.87	0.775 J-	0.95	0.439	
Arsenic V (DIS)	10.1	10.2	8.46	8.25	7.5	
Barium (Ba) (DIS)				<0.1	<0.1	<0.1
Beryllium (Be) (DIS)				<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	0.002 UJ
Chromium (Cr) (DIS)				<0.001	<0.001	0.001
Cobalt (Co) (DIS)				<0.01	<0.01	<0.0005
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.003
Gold (Au) (DIS)						0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.53	1.5	0.81	1.89	0.84	1.43
Mercury (Hg) (DIS)				<0.006	<0.006	<0.0001
Nickel (Ni) (DIS)				<0.01	<0.01	<0.01
Selenium (Se) (DIS)			0.013	0.006	0.012	0.014
Silver (Ag) (DIS)				<0.005	<0.005	<0.005
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)				<0.002	<0.002	<0.001
Vanadium (V) (DIS)				0.01	<0.01	0.01
Zinc (Zn) (DIS)	0.27	0.27	0.21	0.22	0.22	0.21

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		0.11	0.44	0.3	0.31	0.28
pH	7	7.3	6.9	7	7.2	7.2
Depth To Water Level (ft)		32.53	29.78	33.72	29.91	33.33

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-8	STW-8	STW-8	STW-8	STW-8	STW-8
Water	SAMPLE DATE	11/10/2006	5/16/2007	11/28/2007	5/12/2008	11/12/2008	5/18/2009
	SAMPLE TIME	10:40	11:25	13:20	15:40	10:38	12:30
	LAB	ELI	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H06110088-005	H07050191-007	H07110218-010	H08050222-005	H08110140-003	H09050256-008
	SAMPLE NUMBER	AEH-0611-148	AEH-0705-158	AEH-0711-177	AEH-0805-217	AEH-0811-225	AEH-0905-246
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Physical/Fld-Lab: ppm unless noted**

	STW-8	STW-8	STW-8	STW-8	STW-8	STW-8
pH (Fld)		6.79	6.86	6.73	6.5	6.82
SC (umhos/cm at 25 C) (Fld)		1496	1346	1271	1291	1169
SC (umhos/cm at 25 C)	1670	1390	1390	1230	1290	1170
Total Suspended Solids	11	<10	<10	<10 J	<10	<10
TDS (Measured at 180 C)	1210	1020	972	854	876	799
Water Temperature (C) (Fld)		12.79	12.36	12.4	12.3	12.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-9	STW-9	STW-9	STW-9	STW-9	STW-9
Water	SAMPLE DATE	8/10/2001	9/26/2001	10/19/2001	11/2/2001	11/20/2001	11/30/2001
	SAMPLE TIME	00:00	11:35	13:50	11:54	00:00	11:30
	LAB	TSC-SLC	TSC-SLC	HYDRO	HYDRO	TSC-SLC	TSC-SLC
	LAB NUMBER	L011184003	L011367007	FIELD ONLY	FIELD ONLY	L011587012	L011606005
	SAMPLE NUMBER	EHC-0108-102	EHST-0109-106	EHST-0110-108	EHST-0111-109	EHST-0111-211	EHST-0111-304
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	250	211		203	201
Calcium (Ca) (DIS)	96				
Carbonate As CO3		<1		<1	<1
Chloride (Cl)	196				
Magnesium (Mg) (DIS)	21				
Potassium (K) (DIS)	16				
Sodium (Na) (DIS)	503				
Sulfate (SO4)	888	910		761	762
Total Alkalinity As CACO3	205	173		166	165

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05				
Arsenic (As) (DIS)	20	20		22	22
Arsenic III (dis)	16	18		8.8	
Arsenic V (dis)	3	3		14	
Cadmium (Cd) (DIS)	<0.001	<0.001			
Copper (Cu) (DIS)	<0.004				
Iron (Fe) (DIS)	<0.02	<0.02			<0.02
Lead (Pb) (DIS)	<0.005	<0.005			
Manganese (Mn) (DIS)	3.5	3.4			
Zinc (Zn) (DIS)	0.2	0.2			

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)		0.01	<0.01	0.01	0.02
Iron (Fe+2) (Fld)		<0.01	<0.01	<0.01	
Oxidation Reduction Potential	191				
Oxygen (O) (DIS) (Fld)	1.4	0.1	2.5	2.3	1.07
pH	7.2				
Silicon+Silica (Si+SiO2)	30				
Depth To Water Level (ft)	29.1	29.7	30.3	30.7	
Eh (millivolts)	0.0	188	322		
pH (Fld)	7	6.5	7.02	6.9	6.9
SC (umhos/cm at 25 C) (Fld)	2410	2600	2580	2600	2620
SC (umhos/cm at 25 C)	2570				
Total Suspended Solids	23				
TDS (Measured at 180 C)	1849				
Water Temperature (C) (Fld)	14.4	12.6	12.3	12.4	12.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-9	STW-9	STW-9	STW-9	STW-9	STW-9
Water	SAMPLE DATE	12/4/2001	12/7/2001	12/12/2001	12/14/2001	12/19/2001	12/27/2001
	SAMPLE TIME	14:45	12:45	12:15	11:40	12:20	13:45
	LAB	TSC-SLC	TSC-SLC	HYDRO	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011614005	L011626008	FIELD ONLY	L011652006	L011661005	L011677006
	SAMPLE NUMBER	EHST-0112-104	EHST-0112-207	EHST-0112-254	EHST-0112-305	EHST-0112-404	EHST-0112-505
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	220	224		207	211	221
	Carbonate As CO3	<1	<1		<1	<1	<1
	Sulfate (SO4)	755	616		806	842	877
	Total Alkalinity As CaCO3	180	184		170	173	181
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	22	21		22	23	21
	Arsenic III (dis)		9.3			10	
	Arsenic V (dis)		14			13	
	Cadmium (Cd) (DIS)		<0.001			<0.001	
	Iron (Fe) (DIS)	<0.02	0.03		0.04	<0.02	<0.02
	Lead (Pb) (DIS)		<0.005			<0.005	
	Manganese (Mn) (DIS)		3			3	
	Zinc (Zn) (DIS)		0.2			0.2	
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Iron (Fe+2) (Fld)	<0.3	<0.01	0.05	<0.01		
	Oxygen (O) (DIS) (Fld)	1.2	1.9	2.6	1.9	2.4	2.5
	Depth To Water Level (ft)	31.6	31.8	31.9	31.9	32.1	34.3
	pH (Fld)	6.8	7.02	6.8	7	6.9	6.9
	SC (umhos/cm at 25 C) (Fld)	2570	2650	2570	2650	2580	2560
	Water Temperature (C) (Fld)	12.3	12.2	12.2	12.2	12.4	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-9	STW-9	STW-9	STW-9	STW-9	STW-9
Water	SAMPLE DATE	1/10/2002	1/16/2002	1/23/2002	2/5/2002	2/12/2002	2/13/2002
	SAMPLE TIME	11:30	12:15	11:55	14:10	10:20	14:55
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020025007	L020027006	L020042008	L020075008	L020096004	L020096007
	SAMPLE NUMBER	EHST-0201-106	EHST-0201-205	EHST-0201-307	EHST-0202-407	EHST-0202-503	EHST-0202-601
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	227	237	217	233	207	209
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Sulfate (SO4)	870	877	988	933	919	908
Total Alkalinity As CaCO3	186	194	178	191	170	171

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	21	22	22	22	20	20
Arsenic III (dis)	8.6		5.7	6.9		
Arsenic V (dis)	12		18	16		
Cadmium (Cd) (DIS)	0.004		0.001	<0.001		
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	0.02	<0.02
Lead (Pb) (DIS)	<0.005		<0.005	<0.005		
Manganese (Mn) (DIS)	2.9		2.9	2.9		
Zinc (Zn) (DIS)	0.2		0.2	0.1		

**Physical/Fld-Lab: ppm unless noted**

Iron (Fe) (Fld)					<0.01	<0.01
Oxygen (O) (DIS) (Fld)	1.4	2	2	2.6	2.9	1.8
Depth To Water Level (ft)	32.7	32.8	33	33.4	33.6	33.6
pH (Fld)	7	6.8	6.6	7	7.1	7.09
SC (umhos/cm at 25 C) (Fld)	2560	2600	2590	2460	2600	2520
Water Temperature (C) (Fld)	12.3	12.4	12.3	12.4	11.8	12.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-9	STW-9	STW-9	STW-9	STW-9	STW-9
Water	SAMPLE DATE	2/14/2002	2/15/2002	2/19/2002	2/22/2002	2/27/2002	4/19/2002
	SAMPLE TIME	14:20	09:30	13:40	10:45	13:05	13:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020101001	L020101006	L020110004	L020118004	L020142009	L020278003
	SAMPLE NUMBER	EHST-0202-700	EHST-0202-800	EHST-0202-903	EHST-0202-103	EHST-0202-208	EHST-0204-102
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	215	68	220	207	209	211
	Carbonate As CO3	<1	<1	<1	<1	<1	<1
	Sulfate (SO4)	869	1125	911	914	934	967
	Total Alkalinity As CaCO3	176	180	180	170	171	173
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	21	20	21	20	21	20
	Arsenic III (dis)			7.3			7.4
	Arsenic V (dis)			13			13
	Cadmium (Cd) (DIS)			<0.001			0.003
	Copper (Cu) (DIS)			0.01			
	Iron (Fe +2) (TOT)	<0.01	<0.01				
	Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	Lead (Pb) (DIS)			<0.005			<0.005
	Manganese (Mn) (DIS)			2.9			2.6
	Zinc (Zn) (DIS)			0.1			0.2
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	3.2	3.3	2.2	2.2	2.5	2.9
	pH			7.9			
	Depth To Water Level (ft)	33.8	33.8	33.8	33.9	34.7	
	pH (Fld)	7	7	7.2	7.2	6.9	7.02
	SC (umhos/cm at 25 C) (Fld)	2500	2640	2650	2520	2380	2820
	SC (umhos/cm at 25 C)			2640			
	Water Temperature (C) (Fld)	12.4	12.2	12.4	12.6	12	12.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-9	STW-9	STW-9	STW-9	STW-9	STW-9
Water	SAMPLE DATE	5/10/2002	6/6/2002	8/8/2002	9/26/2002	11/13/2002	6/2/2003
	SAMPLE TIME	00:00	14:30	15:30	16:35	12:00	10:15
	LAB	ASARCO	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	205108	L020426005	L020638006	L020829007	L020943005	L030245003
	SAMPLE NUMBER	EHST-0205-108	EHST-0206-104	EHST-0208-105	EHST-0209-606	EHC-0211-220	AEH-0306-165
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	203	187	190	217	216
Calcium (Ca) (DIS)	117			135	112
Carbonate As CO3	<1	<1	<1	<1	<2
Chloride (Cl)	196			184	152
Magnesium (Mg) (DIS)	26			29	30
Potassium (K) (DIS)	17			18	13
Sodium (Na) (DIS)	533			440	354
Sulfate (SO4)	1150	972	1013	1092	915
Total Alkalinity As CaCO3	166	153	156	178	177

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05			<0.05	
Arsenic (As) (DIS)	17	14	14	15	12
Arsenic III (dis)	12	10	14	9.3	15
Arsenic V (dis)	6	5	1	5.7	<0.005
Cadmium (Cd) (DIS)	<0.001			<0.001	0.001
Copper (Cu) (DIS)	0.01			<0.004	0.007 J
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005			<0.005	<0.005
Manganese (Mn) (DIS)	3			2.5	2.7
Zinc (Zn) (DIS)	0.2			0.1	0.2

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.3	3.6	2.8	2.7	0.2
pH	7.5			7.7	7.3
Silicon+Silica (Si+SiO2)	27			27	
Depth To Water Level (ft)	34.7	33.9	29.6	29.8	31.2
pH (Fld)	6.9	6.7	7	7.1	6.5
SC (umhos/cm at 25 C) (Fld)	2750	2900	2520	2630	2350
SC (umhos/cm at 25 C)	2780			2710	2440
Total Suspended Solids	10			8	9.6
TDS (Measured at 180 C)	2027			1958	1721
Salinity (G/KG) (Fld)					1.1
Turbidity (NTU) (Fld)					3
Water Temperature (C) (Fld)	13.5	12.4	12.3	12	12.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-9	STW-9	STW-9	STW-9	STW-9	STW-9
Water	SAMPLE DATE	10/30/2003	10/30/2003	5/20/2004	5/20/2004	11/3/2004	5/16/2005
	SAMPLE TIME	09:45	10:00	10:40	10:40	12:40	12:00
	LAB	TSC-SLC	TSC-SLC	ELI	ELI	ELI	ELI-Casper
	LAB NUMBER	L030605017	L030605018	H04050133-004	H04050133-005	H04110037-013	C05050640-005
	SAMPLE NUMBER	AEH-0310-440	AEH-0310-441	AEH-0405-127	AEH-0405-128	AEH-0411-215	AEH-0505-161
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	234	234	210	210	230	219
Calcium (Ca) (DIS)	125	128	138	137	124	120
Carbonate As CO3	<2	<2				
Chloride (Cl)	121	129	110	120	90	72
Magnesium (Mg) (DIS)	28	29	30	29	27	27
Potassium (K) (DIS)	14	15	17	17	15	14
Sodium (Na) (DIS)	325	331	290	290	270	237
Sulfate (SO4)	816	782	810	790	713	626
Total Alkalinity As CaCO3	192	192	170	170	190	180

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	12	12	7.608	8.213	10.02	7.65
Arsenic III (dis)	3.2 J	2.2 J	0.043 J	<0.006 J	<0.06	<0.005
Arsenic V (dis)	8.2	10	15 J	10 J	8.4	8.5
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.007	0.007	0.005	0.005	0.004	0.005
Iron (Fe) (DIS)	<0.03	<0.03	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.4	3.5	4.16	4.11	3.77	3.33
Zinc (Zn) (DIS)	0.2	0.2	0.21	0.21	0.21	0.17

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.29		0.28		0.11	0.26
pH	7.8	7.8	7.2	7.3	7.2	7.48
Depth To Water Level (ft)	31		32.59		29.17	33.36
pH (Fld)	6.36		6.24		6.8	6.85
SC (umhos/cm at 25 C) (Fld)	2290		2150		2058	1735
SC (umhos/cm at 25 C)	2320	2320	2220	2330	1830	1800
Total Suspended Solids	26 J	56 J	16	21	122	29
TDS (Measured at 180 C)	1697	1691	1540	1550	1470	1290
TDS - Calculated						1230
Salinity (G/KG) (Fld)	1		1			
Turbidity (NTU) (Fld)	21		0.0			
Water Temperature (C) (Fld)	11.9		12.8		12.2	13.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-9	STW-9	STW-9	STW-9	STW-9	STW-9
Water	SAMPLE DATE	11/16/2005	5/9/2006	11/10/2006	5/16/2007	11/28/2007	5/12/2008
	SAMPLE TIME	14:30	13:05	10:10	10:15	11:25	14:50
	LAB	ELI-Hel	ELI-Hel	ELI	ELI	ELI	ELI
	LAB NUMBER	H05110136-017	H06050103-006	H06110088-003	H07050191-004	H07110218-006	H08050222-003
	SAMPLE NUMBER	AEH-0511-189	AEH-0605-193	AEH-0611-146	AEH-0705-155	AEH-0711-173	AEH-0805-215
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)		250	240	300	250		230
Bicarbonate (HCO3) (dis)						270	
Calcium (Ca) (DIS)		107	91 J+	91	72	70	62
Chloride (Cl)		65	57	50	40	42	31
Magnesium (Mg) (DIS)		23	19 J-	19	15	15	13
Potassium (K) (DIS)		14 J-	13	14	11	11	11
Sodium (Na) (DIS)		248 J-	221	248	202	191	181
Sulfate (SO4)		552	514	444	417	365	360
Total Alkalinity As CaCO3		210	200	250	200	220	190
<b>Metals (mg/L): ppm unless noted</b>							
Selenium-IV (dis)						<0.005	0.0102 J+
Selenium-VI (dis)						0.0051	<0.005
Aluminum (Al) (DIS)							<0.1
Antimony (Sb) (DIS)							<0.005
Arsenic (As) (DIS)		7.54	7.53	8.38	7.565	7.425	6.735
Arsenic III (dis)		1.9	<0.03 J	<0.07 J	0.137	0.336 J-	0.0787
Arsenic V (dis)		6.4	9.3	10.4	11	7.81	5.76
Barium (Ba) (DIS)							<0.1
Beryllium (Be) (DIS)							<0.001
Cadmium (Cd) (DIS)		<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Chromium (Cr) (DIS)							<0.001
Cobalt (Co) (DIS)							<0.01
Copper (Cu) (DIS)		<0.004	0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)		<0.02	0.03	0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		2.73	2.69	2.68	2.18	2.17	2.04
Mercury (Hg) (DIS)							<0.006
Nickel (Ni) (DIS)							<0.01
Selenium (Se) (DIS)						0.012	0.019
Silver (Ag) (DIS)							<0.005
Thallium (Tl) (DIS)							<0.002
Vanadium (V) (DIS)							0.02
Zinc (Zn) (DIS)		0.15	0.15	0.16	0.13	0.13	0.08
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxidation Reduction Potential				49.6			
Oxygen (O) (DIS) (Fld)		2.07	0.5	0.27	1.13	0.44	0.27
pH		7.1	7.2	7.1	7.6	6.9	7
Depth To Water Level (ft)		30.1	32.55	29.98	33.62	30.88	34.8
pH (Fld)		6.59	6.61	6.77	6.83	6.87	6.78

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-9	STW-9	STW-9	STW-9	STW-9	STW-9
Water	SAMPLE DATE	11/16/2005	5/9/2006	11/10/2006	5/16/2007	11/28/2007	5/12/2008
	SAMPLE TIME	14:30	13:05	10:10	10:15	11:25	14:50
	LAB	ASARCO	Hydro	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H05110136-017	H06050103-006	H06110088-003	H07050191-004	H07110218-006	H08050222-003
	SAMPLE NUMBER	AEH-0511-189	AEH-0605-193	AEH-0611-146	AEH-0705-155	AEH-0711-173	AEH-0805-215
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

DESCRIPTION	STW-9	STW-9	STW-9	STW-9	STW-9	STW-9
SC (umhos/cm at 25 C) (Fld)	1743	1520	1584	1400	1247	1201
SC (umhos/cm at 25 C)	1620	1390	1520	1280	1290	1170
Total Suspended Solids	338 J-	17 J+	25	62	24	43 J
TDS (Measured at 180 C)	1190	1060	1080	953	916	822
Water Temperature (C) (Fld)	12.09	13.4	12.23	12.68	12.33	12.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-9	STW-9	DH-12	DH-12	DH-12
Water	SAMPLE DATE	11/12/2008	5/18/2009	11/13/1986	11/13/1986	1/28/1987
	SAMPLE TIME	11:00	12:10	00:00	00:00	00:00
	LAB	ELI	ELI	RMAL	TSC-SLC	TSC-SLC
	LAB NUMBER	H08110140-004	H09050256-007	8611-19	86-7539	87-655
	SAMPLE NUMBER	AEH-0811-226	AEH-0905-245	AEH-8611-19	AEH-8611-19	AEH-8701-100
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS			Split		
<b>Common Ions (mg/L): ppm unless noted</b>						
	Bicarbonate (HCO3)	250	230	198	171	451
	Calcium (Ca) (DIS)	66	54	72.8	75	112 M
	Carbonate As CO3			<5	<1	<1
	Chloride (Cl)	28	20	156	165	170
	Magnesium (Mg) (DIS)	13	12	27.9	26	31
	Potassium (K) (DIS)	11	11	29.7	41 M	36
	Sodium (Na) (DIS)	177	147	76.8	803	1040
	Sulfate (SO4)	360	310	1730	1697	2000
	Total Alkalinity As CaCO3	200	190			
<b>Metals (mg/L): ppm unless noted</b>						
	Selenium-IV (DIS)	<0.005				
	Selenium-VI (DIS)	0.008				
	Aluminum (Al) (DIS)	<0.1	<0.1			
	Antimony (Sb) (DIS)	<0.005	<0.003			
	Arsenic (As) (DIS)	6.48	5.89	130	148	140
	Arsenic III (DIS)	0.0433			156	169
	Arsenic V (DIS)	6.67			4.5	1.3
	Barium (Ba) (DIS)	<0.1	<0.1			
	Beryllium (Be) (DIS)	<0.001	<0.001			
	Cadmium (Cd) (DIS)	<0.001	<0.001	0.03	<0.001	0.1 M
	Chromium (Cr) (DIS)	<0.001	<0.001			
	Cobalt (Co) (DIS)	<0.01	0.0007			
	Copper (Cu) (DIS)	<0.004	0.003	<0.008	0.009	0.03 M
	Gold (Au) (DIS)		<0.01			
	Iron (Fe +2) (TOT)				22.5	11.8
	Iron (Fe) (DIS)	<0.02	<0.02	1.8	19 M	11.5
	Lead (Pb) (DIS)	<0.005	<0.005	0.05	<0.005	0.08 M
	Manganese (Mn) (DIS)	1.93	1.66	7.02	7.7	7.1
	Mercury (Hg) (DIS)	<0.006	<0.0001			
	Nickel (Ni) (DIS)	<0.01	<0.01			
	Selenium (Se) (DIS)	0.014	0.033			
	Silver (Ag) (DIS)	<0.005	<0.005			
	Tellurium (Te) (DIS)		<0.1			
	Thallium (Tl) (DIS)	<0.002	<0.001			
	Vanadium (V) (DIS)	0.01	0.01			
	Zinc (Zn) (DIS)	0.13	0.1	3.5	3.3	6 M
<b>Physical/Fid-Lab: ppm unless noted</b>						
	Oxygen (O) (DIS) (Fld)	0.25	0.18		1.8	3.6
	pH	7.1	7.3	6.2	6.2	6.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	STW-9	STW-9	DH-12	DH-12	DH-12
Water	SAMPLE DATE	11/12/2008	5/18/2009	11/13/1986	11/13/1986	1/28/1987
	SAMPLE TIME	11:00	12:10	00:00	00:00	00:00
	LAB	Hydrometrics	Hydrometrics	RMAL	TSC-SLC	TSC-SLC
	LAB NUMBER	H08110140-004	H09050256-007	8611-19	86-7539	87-655
	SAMPLE NUMBER	AEH-0811-226	AEH-0905-245	AEH-8611-19	AEH-8611-19	AEH-8701-100
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS			Split		

**Physical/Fld-Lab: ppm unless noted**

Water Elevation (ft) (Fld)					3880.5	3876.5
Depth To Water Level (ft)	31.02	34.42			26.1	30.1
pH (Fld)	6.54	6.91			6.2 M	6.8
SC (umhos/cm at 25 C) (Fld)	1191	1052			4070	5012
SC (umhos/cm at 25 C)	1190	1060		3825	3825	4650
Total Suspended Solids	<10	<10				
TDS (Measured at 180 C)	809	715		3130	3109	3706
Water Temperature (C) (Fld)	12.2	12.7			11.2	11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-12	DH-12	DH-12	DH-12	DH-12	DH-12
Water	SAMPLE DATE	6/9/1987	6/9/1987	8/17/1987	11/17/1987	11/25/1987	10/18/1989
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	CHMTC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8706-12	87-4201	87-6876	87-10549	87-11004	89-813
	SAMPLE NUMBER	AEH-8706-12	AEH-8706-12	AEH-8708-01	AEH-8711-227A	AEH-8711-227	AEH-8910-460
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS	Split					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		767	571		167 M	
Calcium (Ca) (DIS)	73	65	80		56	
Carbonate As CO3		<1	<1		<1 M	
Chloride (Cl)	300	300 M	330		174	196
Magnesium (Mg) (DIS)	27.2	25.5	26.5		19.1 M	
Potassium (K) (DIS)	27.1	30	27		32	
Sodium (Na) (DIS)	1400	1500	1490		1030	
Sulfate (SO4)	2394.5	2250 M	2630 M	71 A	2130 M	2350

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	195	186 M	173.6	0.006 A	198	194 J
Arsenic III (dis)		290 M	228 M		206.4 M	188
Arsenic V (dis)		1.4	8.6		1.7	15.7
Cadmium (Cd) (DIS)	0.007	0.009 M	0.03	0.001 A	0.003	0.1
Copper (Cu) (DIS)	0.03	0.01 M	<0.008	<0.008 A	<0.008	<0.008
Iron (Fe +2) (TOT)		1			2.3	
Iron (Fe) (DIS)	0.8	0.5	1.04	0.02 A	1.6	
Lead (Pb) (DIS)	<0.03	<0.005	0.005	<0.005 A	<0.005	<0.01 UJ
Manganese (Mn) (DIS)	3.9	3.9	4.9	0.006 A	2.9	
Zinc (Zn) (DIS)	1.4	1.3	1.3 M	<0.008 A	0.9	5.6 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)		2.8	1.4		2.2	2
pH		6.8	7	7.8 A	7.2	7.8
Water Elevation (ft) (Fid)		3876.8	3878.3 M		3876.6	3879.6
Depth To Water Level (ft)		29.8	28.3 M		30	27
pH (Fid)		6.7	6.9		6.8	7.08
SC (umhos/cm at 25 C) (Fid)		6448	6773	363 A	5092	5900
SC (umhos/cm at 25 C)		7000	6900	344 A	4880	5800
Total Suspended Solids				12 A	8	
TDS (Measured at 180 C)	4830	5298	5276	233 A	4234 M	4608
Water Temperature (C) (Fid)		13	7.8 M		10.4	12

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-12	DH-12	DH-12	DH-12	DH-12	DH-12
Water	SAMPLE DATE	11/21/1991	4/29/1992	11/21/1992	5/6/1993	11/12/1993	5/12/1994
	SAMPLE TIME	12:00	10:40	14:00	09:00	11:00	11:20
	LAB	TSC-SLC	HYDRO	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	91-3885	AEH-9204-151	92-6807	93-7834	93-9270	94-1382
	SAMPLE NUMBER	AEH-9111-349	AEH-9204-151	EHC-9211-151	EHC-9305-159	EHC-9311-109	EHC-9405-115
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Calcium (Ca) (Dis)			211 J	250		
	Chloride (Cl)	137 J		171	352	199 J	95
	Magnesium (Mg) (Dis)			92	109		
	Potassium (K) (Dis)			26	39		
	Sodium (Na) (Dis)			800	1030		
	Sulfate (SO4)	1979		2074	2466	2485 J	1127 J
	Total Hardness As CaCO3				1073		
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	88		73	69 J	37	58
	Arsenic III (dis)	113		64.9 J	64	31.2	37.3
	Arsenic V (dis)	7.5		4.4 J	6.2	2.2	6.5 J
	Cadmium (Cd) (DIS)	1.2		0.4	0.3	0.05	0.07
	Copper (Cu) (DIS)	0.009		0.006	<0.004	<0.004	<0.004
	Lead (Pb) (DIS)	0.01		<0.005 UJ	0.007 J	<0.005	<0.005 JU
	Zinc (Zn) (DIS)	10.4		9.7	10.1	4	5.3
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	3.6		1.7	2.7	2.4	2.3
	pH	6.2		6.4			
	Water Elevation (ft) (Fld)	3880.2	3906.6	3880	3879.7	3881	3878.8
	Depth To Water Level (ft)	26.4	0.0	26.6	26.9	25.6	27.8
	pH (Fld)	6.9		6.2	5.9	5.9	6.01
	SC (umhos/cm at 25 C) (Fld)	3833		4400	5150	4265	2700
	SC (umhos/cm at 25 C)	3800		5000	5500 J	4490 J	2790 J
	TDS (Measured at 180 C)	3234 J		3790	4387	3750	2125
	Water Temperature (C) (Fld)	12.5		10.6	11.7	10.2	12

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-12	DH-12	DH-12	DH-12	DH-12	DH-12
Water	SAMPLE DATE	11/18/1994	5/16/1995	11/14/1995	5/14/1996	11/12/1996	5/7/1997
	SAMPLE TIME	10:30	12:00	09:30	14:00	13:00	13:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-3385	95-4510	95-6141	96-6772	96-7784	97-934
	SAMPLE NUMBER	EHC-9411-115	EHC-9505-115	EHC-9511-116	EHC-9605-104	EHC-9611-104	EHC-9705-104
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	62	181	68 J	23	17	19
	Sulfate (SO4)	653	1207	861 J	286	269	217
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	29.6	65.03	17.6	10.1	7.9	8.08
	Arsenic III (dis)	20.6	56.5 J	18.5	10.4 J	6	7.4
	Arsenic V (dis)	5 J	10.2 J	0.9 J	0.7 J	0.8 J	0.2
	Cadmium (Cd) (DIS)	0.02	0.05	0.03	0.01	0.001	0.005
	Copper (Cu) (DIS)	<0.004	0.01	<0.004	<0.004	0.01	<0.004
	Lead (Pb) (DIS)	<0.005	<0.005 J	<0.005 J	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	2.2	9	1.9	0.7	0.4	0.4 J
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	2.5	2.3	1.7	3.06	2.5	7
	pH	6.3	6.1	6.1	6.5	7.9	6.6
	Water Elevation (ft) (Fld)	3878.6	3878.54	3881.2	3879	3879.9	3877.52
	Depth To Water Level (ft)	28	28.06	25.4	27.6	26.7	29.08
	pH (Fld)	6.5	6.4	6.5	6.2	6.7	7.7
	SC (umhos/cm at 25 C) (Fld)	1708	2860	2150	932	777	726
	SC (umhos/cm at 25 C)	1727	2940 J	2240 J	880	826	740
	TDS (Measured at 180 C)	942 J	2149 J	1590	599	605	511
	Water Temperature (C) (Fld)	8.8	11.5	11.6	12	8.7	10.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-12	DH-12	DH-12	DH-12	DH-12	DH-12
Water	SAMPLE DATE	11/5/1997	5/7/1998	11/19/1998	11/19/1998	5/11/1999	11/12/1999
	SAMPLE TIME	16:00	11:30	17:25	17:40	09:45	09:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	187-2682	260-3751	312-4438	312-4444	347-4897	L992007004
	SAMPLE NUMBER	EHC-9711-104	EHC-9805-105	EHC-9811-104	EHC-9811-151	EHC-9905-104	EHC-9911-115
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		188	298	305	151 J	234
Calcium (Ca) (DIS)		17	74	74	20	29
Carbonate As CO3					<1 UJ	<1
Chloride (Cl)	90	16	44	47	28	49
Magnesium (Mg) (DIS)		12	35	34	9.9	13
Potassium (K) (DIS)		8 J	12	12	8.7	8.9
Sodium (Na) (DIS)		168	278	270	159	192
Sulfate (SO4)	1341	226	605	646	240 J	295
Total Alkalinity As CaCO3		154	244	250	124 J	192

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	3.8	14.05	11.1	11	24.5	20
Arsenic III (dis)	2.8	14.5	12.3 J	11.9 J	25.3	19
Arsenic V (dis)	0.5 J	0.5	0.3 J	0.2 J	0.7	0.7
Cadmium (Cd) (DIS)	0.006	0.04	0.009	0.01	0.03	0.001
Copper (Cu) (DIS)	0.009	0.008 J	<0.004	<0.004	0.007	0.005 J
Iron (Fe) (DIS)		1.005	4.4	4.3	2.2	1.7 J
Lead (Pb) (DIS)	0.006	0.04	0.03	0.03	0.02	0.007
Manganese (Mn) (DIS)		0.9	2.9	2.8	0.9	1.5
Zinc (Zn) (DIS)	0.3	0.2	0.2	0.2	0.3	0.1 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.7	1.3	1.6	1.6	2.2	1.5
pH	7	7	7.1	7	7	7.3
Water Elevation (ft) (Fld)	3884.55	3878.7	3880.2		3877.7	3880.2
Depth To Water Level (ft)	22.05	27.9	26.4		28.9	26.4
Eh (millivolts)			142	142	284	214
pH (Fld)	6.7	6.7	6.7	6.7	6.4	7.3
SC (umhos/cm at 25 C) (Fld)	3420	836	1923	1923	930	1222
SC (umhos/cm at 25 C)	3080	864	1771	1810	937	1181
Total Suspended Solids	19					6.8 J
TDS (Measured at 180 C)	2599	599	1244	1252	653	1007 J
Water Temperature (C) (Fld)	11.4	10.5	9	9	9.2	10.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-12	DH-12	DH-12	DH-12	DH-12	DH-12
Water	SAMPLE DATE	11/9/2001	5/31/2002	11/2/2004	5/13/2005	11/3/2005	5/10/2006
	SAMPLE TIME	11:35	18:20	15:05	13:35	13:52	14:30
	LAB	HYDRO	ASARCO	ELI	Hydro	ASARCO	Hydro
	LAB NUMBER	EHC-0111-113	EHC0205118	H04110029-010	AEH-0505-154	AEH-0511-237	AEH-0605-218
	SAMPLE NUMBER	EHC-0111-113	EHC-0205-118	AEH-0411-194	AEH-0505-154	AEH-0511-237	AEH-0605-218
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION				No Samp-Dry	No SWL-Dry	No Samp-Dry
	REMARKS				No Sample	No Sample	No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	510
Calcium (Ca) (DIS)	176
Chloride (Cl)	80
Magnesium (Mg) (DIS)	77
Potassium (K) (DIS)	24
Sodium (Na) (DIS)	438
Sulfate (SO4)	964
Total Alkalinity As CaCO3	420

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	17.33
Arsenic III (dis)	11
Arsenic V (dis)	4.4
Cadmium (Cd) (DIS)	1.731
Copper (Cu) (DIS)	0.032
Iron (Fe) (DIS)	1.95
Lead (Pb) (DIS)	0.005
Manganese (Mn) (DIS)	10.17
Zinc (Zn) (DIS)	3.41

**Other: ppm unless noted**

Analyses	0.0	
No Analysis		0.0

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)				2.58
pH				6.7
Water Elevation (ft) (Fld)	3876.7	3906.6	3878.72	3876.66
Depth To Water Level (ft)	29.9	0.0	27.88	29.94
pH (Fld)				6.65
SC (umhos/cm at 25 C) (Fld)				3267
SC (umhos/cm at 25 C)				2640
Total Suspended Solids				38 J
TDS (Measured at 180 C)				2250
Water Temperature (C) (Fld)				12.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-12	DH-12	DH-12	DH-12	DH-12	DH-12
Water	SAMPLE DATE	12/4/2006	5/21/2007	12/2/2007	12/11/2007	2/12/2008	5/13/2008
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	
	LAB NUMBER	z	z	AEH-0710-DH12	AEH-0711-231	AEH-0802-102	AEH-0805-226
	SAMPLE NUMBER	AEH-0611-244	AEH-0705-195	AEH-0710-104	AEH-0711-231	AEH-0802-102	AEH-0805-226
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION	o Samp-Low SWL	No Samp-Dry	o Samp-Low SWL	No Samp-Dry	No Samp-Dry	Dry
	REMARKS	No Sample	No Sample	No Sample	No Sample	No Sample	No Sample
<b>Other: ppm unless noted</b>							
	No Analysis		0.0		0.0	0.0	0.0
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Water Elevation (ft) (Fld)	3877.75		3876.9			
	Depth To Water Level (ft)	28.85		29.7			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-12	DH-13	DH-13	DH-13	DH-13
Water	SAMPLE DATE	7/17/2008	11/7/1986	11/7/1986	1/28/1987	1/28/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	Hydrometrics	RMAL	TSC-SLC	CHMTC	TSC-SLC
	LAB NUMBER	AEH-0807-155	8611-10	86-7469	8701-101	87-653
	SAMPLE NUMBER	AEH-0807-155	AEH-8611-10	AEH-8611-10	AEH-8701-101	AEH-8701-101
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION	No Samp-Dry				
	REMARKS	No Sample	Split		Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	68	227		439
Calcium (Ca) (DIS)	95.9	95	82.3	124 M
Carbonate As CO3	<5	<1		<1
Chloride (Cl)	135	134	415	180
Magnesium (Mg) (DIS)	38.6	35	31.7	31
Potassium (K) (DIS)	35	43 M	30.2	35
Sodium (Na) (DIS)	562	547	880	1000
Sulfate (SO4)	1530	1476 M	1831	1950

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	130	160	134	173
Arsenic III (dis)		182		166
Arsenic V (dis)		4.8		1.1 M
Cadmium (Cd) (DIS)	0.02	<0.001	0.005	0.004
Copper (Cu) (DIS)	<0.008	0.009	0.03	0.008
Iron (Fe +2) (TOT)		49.8		26
Iron (Fe) (DIS)	47.2	45.6 M	23.9	24
Lead (Pb) (DIS)	<0.05	<0.005	<0.03	<0.005 M
Manganese (Mn) (DIS)	1.03	10 M	7.3	7.2
Zinc (Zn) (DIS)	27.8	27.5 M	13.6	12.8

**Other: ppm unless noted**

No Analysis	0.0			
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		1.1		0.4
pH	6.4	6.4		6.3
Water Elevation (ft) (Fld)		3880.73		3877.73
Depth To Water Level (ft)		26.7		29.7
pH (Fld)		5.6 M		
SC (umhos/cm at 25 C) (Fld)		3291		4822
SC (umhos/cm at 25 C)	3250	3250		4700
TDS (Measured at 180 C)	2700	2662	3695	3959
Water Temperature (C) (Fld)		9.7		12.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13	DH-13	DH-13	DH-13	DH-13
Water	SAMPLE DATE	6/9/1987	8/13/1987	8/13/1987	11/25/1987	11/25/1987	11/25/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	WYRHR	TSC-SLC
	LAB NUMBER	87-4197	87-6647	87-6655	87-11005	8711-228	87-11013
	SAMPLE NUMBER	AEH-8706-13	AEH-8708-02	AEH-8708-48	AEH-8711-228	AEH-8711-228	AEH-8711-253
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS			Field Duplicate		Split	Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)		695 M	439		281 M	220	
Calcium (Ca) (DIS)		64.5	79.5		63	54.1	
Carbonate As CO3		<1	<1		<1 M	<5	
Chloride (Cl)		300 M	290		160	158	
Magnesium (Mg) (DIS)		23.5	25		22	18.3	
Potassium (K) (DIS)		29	32.1		34.4	22.8	
Sodium (Na) (DIS)		1420	1450		860	941	
Sulfate (SO4)		2213 M	2350 M		1930	1900	
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)		176.4 M	160	172.5	185	167	180
Arsenic III (dis)		250 M	174.2	190.8	160 M		172 J
Arsenic V (dis)		11.2	7.2 M	4.4	4 M		5.6
Cadmium (Cd) (DIS)		0.001 M	0.008 M	0.005	0.003	0.4	0.003
Copper (Cu) (DIS)		0.01 M	<0.008	<0.008	<0.008	0.005	<0.008
Iron (Fe +2) (TOT)		8.5	12.4	12.4	17.2		18.3
Iron (Fe) (DIS)		7.3	9.6	9.1	8.8	12	8.7
Lead (Pb) (DIS)		<0.005	0.005	0.007	<0.005	0.005	<0.01 J
Manganese (Mn) (DIS)		3.9	4.6	4.6	3.8	3.7	3.8
Zinc (Zn) (DIS)		3.7	5.8 M	5.4	6.3	6.8	6.3
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)		3 M	1.9	1.9	1.6		1.6
pH		7.2	6.6		7.05		
Water Elevation (ft) (Fld)		3878.03	3877.73 M	3877.73	3877.83		3877.83
Depth To Water Level (ft)		29.4	27.7 M	29.7	29.6		29.6
pH (Fld)		6.7	6.8	6.8	6.6		6.6
SC (umhos/cm at 25 C) (Fld)		6344	6308	6287	4389		4288
SC (umhos/cm at 25 C)		6800	6100		4210		
Total Suspended Solids					38.7		
TDS (Measured at 180 C)		5454	4964		3678 M	3460	
Water Temperature (C) (Fld)		13	13	13	10.4		10.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13	DH-13	DH-13	DH-13	DH-13
Water	SAMPLE DATE	11/25/1987	5/2/1988	12/22/1988	12/22/1988	4/19/1989	10/18/1989
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8711-253	88-3203	88-53	89-54	89-505	89-819
	SAMPLE NUMBER	AEH-8711-253	AEH-8804-312	AEH-8812-132	AEH-8812-148	AEH-8904-211	AEH-8910-411
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS	Split			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		264					
Calcium (Ca) (DIS)	55.3	60					
Carbonate As CO3		<1					
Chloride (Cl)		151	150	159	340	168	
Magnesium (Mg) (DIS)	18.8	20					
Potassium (K) (DIS)	23.2	3.3					
Sodium (Na) (DIS)	943	1110					
Sulfate (SO4)		2102	2050	2050	3000	2200	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	145	186	193	194	240	144	
Arsenic III (dis)		153	182 J	184 J	237.5	141.5	
Arsenic V (dis)		14.5	1.8 J	4.4	30	12.2	
Cadmium (Cd) (DIS)	0.4	0.001	0.008	0.008	<0.002	0.005	
Copper (Cu) (DIS)	<0.003		0.008	0.008	<0.008 J	<0.008	
Iron (Fe +2) (TOT)		17.3	12.2	12.8	11.1		
Iron (Fe) (DIS)	12.8	12.1					
Lead (Pb) (DIS)	0.004	0.04 J	0.05	0.05	<0.02	<0.03 UJ	
Manganese (Mn) (DIS)	3.9						
Zinc (Zn) (DIS)	7.3	5.9	5.5	5.7	3.9	11.4 J	

**Other: ppm unless noted**

Branched Alcohol							0.006
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		1.9			1.4	2	
pH		7.5 J	6.4	6.4	7.1	6.3	
Water Elevation (ft) (Fld)		3876.03	3877.03		3877.43	3880.93	
Depth To Water Level (ft)		31.4	30.4		30	26.5	
pH (Fld)		6.8			6.9	6.5	
SC (umhos/cm at 25 C) (Fld)		1231 A	5094		6797	4970	
SC (umhos/cm at 25 C)		5500	4600	4600	7000	4700	
TDS (Measured at 180 C)		3919 J	3685	3737	6562	4088	
Water Temperature (C) (Fld)		11.1			12.2	11.8	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13	DH-13	DH-13	DH-13	DH-13
Water	SAMPLE DATE	5/1/1990	12/6/1990	5/9/1991	11/21/1991	4/29/1992	11/21/1992
	SAMPLE TIME	00:00	00:00	00:00	13:00	11:30	15:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	90-1061	90-2257	91-2817	91-3883	92-4355	92-6808
	SAMPLE NUMBER	AEH-9005-411	AEH-9011-718	AEH-9105-149	AEH-9111-339	AEH-9204-129	EHC-9211-155
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)						253 J
Chloride (Cl)	246	275 J	138	154 J	164 J	382
Magnesium (Mg) (Dis)						94
Potassium (K) (Dis)						37
Sodium (Na) (Dis)						621
Sulfate (SO4)	2151	1597 J	1156	1688	1583 J	2121

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	117	112	130	92	104	79
Arsenic III (dis)	124	101	124 J	117	95.7	75 J
Arsenic V (dis)	1.4	0.7	5 J	3.9	2.1	2.7 J
Cadmium (Cd) (DIS)	0.008	0.003	0.003	0.005	0.01	0.01
Copper (Cu) (DIS)	0.02	<0.008	<0.004	<0.004	0.008	0.01
Lead (Pb) (DIS)	0.03	<0.005 UJ	<0.005	0.005	0.006 U	<0.005 UJ
Zinc (Zn) (DIS)	17.5		21.9	25.6	26	49.1 J

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.4	2.3	3.7		1.5	1.7
pH	7	3.1	4.02	3	3.4	4.7
Water Elevation (ft) (Fld)	3876.03	3876.73	3876.23	3880.03	3878.03	3879.93
Depth To Water Level (ft)	31.4	30.7	31.2	27.4	29.4	27.5
pH (Fld)	6.2	6.7	6.2	6.05	5.8	5.4
SC (umhos/cm at 25 C) (Fld)	5065	3873	3622	3130	3640	4455
SC (umhos/cm at 25 C)	5100	4110	2950	3320	3680	5100
TDS (Measured at 180 C)	3928 J	2893 J	1479 J	2507 J	2764	3830
Water Temperature (C) (Fld)	11.8	9.8	12.1	11.7	13.7	11.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13	DH-13	DH-13	DH-13	DH-13
Water	SAMPLE DATE	5/6/1993	5/6/1993	11/12/1993	5/12/1994	5/12/1994	11/18/1994
	SAMPLE TIME	10:00	13:40	10:20	07:15	12:20	12:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-7835	93-7837	93-9271	94-1387	94-1383	94-3386
	SAMPLE NUMBER	EHC-9305-160	EHC-9305-162	EHC-9311-110	EHC-9405-179	EHC-9405-116	EHC-9411-116
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		
<b>Common Ions (mg/L): ppm unless noted</b>							
	Calcium (Ca) (Dis)	273	273				
	Chloride (Cl)	336	301	205 J	183	180	175
	Magnesium (Mg) (Dis)	99	100				
	Potassium (K) (Dis)	46	47				
	Sodium (Na) (Dis)	752	771				
	Sulfate (SO4)	1988	2173	1568 J	1504 J	1481 J	1291
	Total Hardness As CaCO3	1089	1093				
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	87	89	81	72.3	88	50.9
	Arsenic III (dis)	63	65	81.4	67	55.8	48.9
	Arsenic V (dis)	8	9	5.6	5.7 J	6.1 J	8.2 J
	Cadmium (Cd) (DIS)	0.01	0.01	0.01	0.007	0.007	0.008
	Copper (Cu) (DIS)	<0.004	<0.004	0.005	<0.004	<0.004	0.004
	Lead (Pb) (DIS)	0.008	0.007 J	<0.005	<0.005 JU	<0.005 JU	<0.005
	Zinc (Zn) (DIS)	42	43	31	24.7	25	25.2
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	1.9	1.9	2.2	1.6	1.6	3.2
	pH						5.4
	Water Elevation (ft) (Fld)	3879.53	3879.53	3880.93	3878.73	3878.73	3878.53
	Depth To Water Level (ft)	27.9	27.9	26.5	28.7	28.7	28.9
	pH (Fld)	5.2	5.2	5.3	5.7	5.7	5.8
	SC (umhos/cm at 25 C) (Fld)	4510	4510	3250	3200	3190	2790
	SC (umhos/cm at 25 C)	4800 J	4700 J	3650 J	3550 J	3560 J	2820
	TDS (Measured at 180 C)	3966	3976	2725	2750	2744	2067 J
	Water Temperature (C) (Fld)	11.9	11.9	9.6	14	14	10.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13	DH-13	DH-13	DH-13	DH-13
Water	SAMPLE DATE	5/16/1995	11/14/1995	5/14/1996	11/12/1996	5/7/1997	11/7/1997
	SAMPLE TIME	13:40	08:45	13:00	12:00	19:00	14:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-4511	95-6142	96-6773	96-7785	97-935	192-2741
	SAMPLE NUMBER	EHC-9505-116	EHC-9511-117	EHC-9605-105	EHC-9611-105	EHC-9705-105	EHC-9711-105
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	166	54 J	40	23	12	22
	Sulfate (SO4)	1008	768 J	281	242	161	333
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	55.2	45.5	32.7	22.7	20	17.3
	Arsenic III (dis)	47.9 J	46.5	34.9 J	19.7	19.6	11.3
	Arsenic V (dis)	10.8 J	1 J	1.7 J	0.5 J	0.4	1.3 J
	Cadmium (Cd) (DIS)	0.009	0.005	<0.005	0.002	<0.001	0.002
	Copper (Cu) (DIS)	0.01	<0.004	<0.004	0.01	<0.004	0.006 J
	Lead (Pb) (DIS)	<0.005 J	<0.005	<0.005	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	20.8	11	3.2	2.9	1.8 J	4.5
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	3.5	3.4	3.8	4.8	2.5	3
	pH	3.1	4 J	5.4	6.5	5.8	6
	Water Elevation (ft) (Fld)	3877.83	3881.03	3879.63	3879.73	3878.03	3884.13
	Depth To Water Level (ft)	29.6	26.4	27.8	27.7	29.4	23.3
	pH (Fld)	5.9	5.7	6.03	6.5	7.04	6.4
	SC (umhos/cm at 25 C) (Fld)	2430	1567	800	659	505	860
	SC (umhos/cm at 25 C)	2650 J	1600 J	780	666	508	852
	Total Suspended Solids						9 J
	TDS (Measured at 180 C)	1848 J	1186	556	484	365	577 J
	Water Temperature (C) (Fld)	10.9	11.8	13.8	7.9	9.7	9.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13	DH-13	DH-13	DH-13	DH-13
Water	SAMPLE DATE	5/11/1998	11/19/1998	5/11/1999	11/12/1999	5/3/2000	11/8/2000
	SAMPLE TIME	09:45	18:30	11:15	10:00	15:20	15:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	262-3783	314-4463	347-4898	L992007005	L000703001	L001873017
	SAMPLE NUMBER	EHC-9805-106	EHC-9811-105	EHC-9905-105	EHC-9911-116	EHC-0005-115	EHC-0011-115
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	43 J	51	187 J	228	215	149
Calcium (Ca) (DIS)	15	15	14	57	43	24
Carbonate As CO3			<1 UJ	<1	<1	<1
Chloride (Cl)	13	8.6	13	83	85	57 J
Magnesium (Mg) (DIS)	6	5.8	5.7	23	17	9.5
Potassium (K) (DIS)	9	8.7	10	18	14	11
Sodium (Na) (DIS)	76	67	85	265	247	176
Sulfate (SO4)	195	159	220 J	585	506	312
Total Alkalinity As CACO3	35 J	42	153 J	187	176	122

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)						0.2
Arsenic (As) (DIS)	14.7	11.1	16.5	22	26	27
Arsenic III (dis)	14.2 J	13.8 J	16.7	24	26	25
Arsenic V (dis)	0.4	0.3 J	0.8	0.4	0.6	0.5
Cadmium (Cd) (DIS)	0.001	0.001	0.001	<0.001	0.002	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.004 J	<0.004	<0.004
Iron (Fe) (DIS)	3.2	3.2	3.3	8.4 J	5.5	2.7
Lead (Pb) (DIS)	<0.005	<0.005	0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	1.1	1.08	1.1	4.3	3.2	1.8
Zinc (Zn) (DIS)	1.4	1.3	1.2	3.1 J	1.8	0.8

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.6	1.9	1.7	1.9	4	2.3
pH	6.4	6.3	6.4	6.8	6.9	6.7
Silicon+Silica (Si+SiO2)						17
Water Elevation (ft) (Fld)	3878.63	3880.73	3878.34	3880.83	3876.93	3877.53
Depth To Water Level (ft)	28.8	26.7	29.09	26.6	30.5	29.9
Eh (millivolts)		195	248	213	326	211
pH (Fld)	6.2	6.8	6.7	6.7	6.6	6.9
SC (umhos/cm at 25 C) (Fld)	555	513	587	1730	1577	1248
SC (umhos/cm at 25 C)	557	506	569	1758	1576	1132
Total Suspended Solids				3.5 UJ		
TDS (Measured at 180 C)	364	329	390	1722 J	1054	736
Water Temperature (C) (Fld)	14.5	8.5	9.8	11	11.7	10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13	DH-13	DH-13	DH-13	DH-13
Water	SAMPLE DATE	5/11/2001	11/9/2001	6/1/2002	11/16/2002	6/1/2003	10/28/2003
	SAMPLE TIME	09:35	13:30	13:00	10:45	15:30	17:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010691017	L011563014	L020412033	L020956004	L030244017	L030604010
	SAMPLE NUMBER	EHC-0105-116	EHC-0111-114	EHC-0205-119	EHC-0211-116	AEH-0306-157	AEH-0310-411
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	90	94	110	157	171	161
Calcium (Ca) (DIS)	43	66	54	52	54	45
Carbonate As CO3		<1	<1	<1	<2	<2
Chloride (Cl)	67	100 J	58	77	104	64
Magnesium (Mg) (DIS)	17	25	19	18	19	16
Potassium (K) (DIS)	14	20	16	19	21	18
Sodium (Na) (DIS)	114	190	162	231	262	233
Sulfate (SO4)	341	494	358	507	610	514
Total Alkalinity As CaCO3	74	77	90	129	140	132

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	0.4	0.4	0.4	0.3		
Arsenic (As) (DIS)	25	27	27	32	32	31
Arsenic III (dis)	27	27	19	29	29	31
Arsenic V (dis)	<0.005	<0.005	6	2	3	0.9
Cadmium (Cd) (DIS)	0.03	0.004	0.003	<0.001	0.001	<0.001
Copper (Cu) (DIS)	0.009 U	0.03 J	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	6.3	10	9.7	8.1	9.2	7.5
Lead (Pb) (DIS)	0.009 U	0.06 J	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.3	5.2	4.3	3.9	4.3	3.5
Zinc (Zn) (DIS)	1.8	2.7	2.7	2.1	2.4	1.9

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential		-27.3	55.1			
Oxygen (O) (DIS) (Fld)	8.1	0.1	0.3	1.1	0.3	0.31
pH	6.8	6.3	6.2	6.9	6.8	6.8
Silicon+Silica (Si+SiO2)	21	23	24	22		
Water Elevation (ft) (Fld)	3876.53	3878.03	3874.83	3877.73	3877.23	3877.72
Depth To Water Level (ft)	30.9	29.4	32.6	29.7	30.2	29.71
Eh (millivolts)	451	227				
pH (Fld)	6.3	6.5	5.8	5.7	6	5.75
SC (umhos/cm at 25 C) (Fld)	995	1362	1220	1520	1690	1530
SC (umhos/cm at 25 C)	1018	1470	1176	1541	1767	1550
Total Suspended Solids	8.9	49 J	15	31	31	79 J
TDS (Measured at 180 C)	681	999 J	810	1032	1183	1077
Salinity (G/KG) (Fld)				0.6	0.7	0.7
Turbidity (NTU) (Fld)				7	1	8
Water Temperature (C) (Fld)	11.4	11.2	10.6	11	11.3	11.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13	DH-13	DH-13	DH-13	DH-13
Water	SAMPLE DATE	5/27/2004	11/2/2004	5/18/2005	11/17/2005	5/8/2006	12/4/2006
	SAMPLE TIME	10:40	13:00	14:40	14:10	14:50	00:00
	LAB	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel	Hydrometrics
	LAB NUMBER	H04050208-002	H04110029-011	C05050691-013	H05110153-014	H06050086-005	z
	SAMPLE NUMBER	AEH-0405-200	AEH-0411-195	AEH-0505-197	AEH-0511-206	AEH-0605-184	AEH-0611-245
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						No Samp-Frozen
	REMARKS						No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	300	370	268	230	220	
Calcium (Ca) (DIS)	66	55	42	31	33 J+	
Chloride (Cl)	120	100	49	43	45	
Magnesium (Mg) (DIS)	21	19	15	11	11 J-	
Potassium (K) (DIS)	19	21	15	14	15	
Sodium (Na) (DIS)	429	417	302	240	243	
Sulfate (SO4)	790	800	496	411	430	
Total Alkalinity As CaCO3	250	300	219	190	180	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	38.8	36.28	31.5	25.37	24.58	
Arsenic III (dis)	48	33	38.9	27.4	22.6	
Arsenic V (dis)	1.7	2.2	1	0.08	<0.5	
Cadmium (Cd) (DIS)	0.001	<0.001	<0.002	<0.001	0.002	
Copper (Cu) (DIS)	0.005	0.004	<0.004	<0.004	<0.004	
Iron (Fe) (DIS)	8.24	5.25	4.71	3.82	4.87	
Lead (Pb) (DIS)	0.006	0.005	<0.005	<0.005	0.006	
Manganese (Mn) (DIS)	5.06	3.83	2.96	2.03	2.59	
Zinc (Zn) (DIS)	1.77	1.18	1.18	0.88	1.21	

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.08	0.07	0.16	1.2	0.33	
pH	6.9	6.9	6.77	6.6	6.7	
Water Elevation (ft) (Fld)	3876.63	3880.01	3875.99	3878.73	3876.37	3878.99
Depth To Water Level (ft)	30.8	27.42	31.44	28.7	31.06	28.44
pH (Fld)	6.6	6.54	6.21	6.37	6.18	
SC (umhos/cm at 25 C) (Fld)	2720	2376	1840	1408	1251	
SC (umhos/cm at 25 C)	2410	1930	1730	1450	1300	
Total Suspended Solids	53	20 J	<10	<10 J	<10	
TDS (Measured at 180 C)	1820	1590	1130	970	919	
TDS - Calculated			1070			
Water Temperature (C) (Fld)	12	11.7	11.22	11.39	11.5	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13	DH-13	DH-13	DH-13	DH-13
Water	SAMPLE DATE	5/21/2007	10/2/2007	12/11/2007	2/12/2008	2/12/2008	5/14/2008
	SAMPLE TIME	11:05	12:00	14:40	12:30	12:45	15:05
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07050232-005	H07100027-005	H07120112-007	H08020090-001	H08020090-002	H08050268-001
	SAMPLE NUMBER	AEH-0705-196	AEH-0710-105	AEH-0711-232	AEH-0802-100	AEH-0802-101	AEH-0805-249
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	120	200		88	93	67
Bicarbonate (HCO3) (dis)			130			
Calcium (Ca) (DIS)	29	23	21	25	25	34 J+
Chloride (Cl)	24	25	23	26	23	22
Magnesium (Mg) (DIS)	10	8	7	8	8	9 J+
Potassium (K) (DIS)	13	13	11	14	14	16
Sodium (Na) (DIS)	153	180	132	117	117	96
Sulfate (SO4)	364	320	300	318	302	260
Total Alkalinity As CaCO3	96	160	110	72	76	55

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)			<0.005			<0.005 J
Selenium-VI (dis)			<0.005			<0.005
Aluminum (Al) (DIS)						0.4
Aluminum (Al) (TOT)						0.4
Antimony (Sb) (DIS)						<0.005
Antimony (Sb) (TOT)						<0.005
Arsenic (As) (DIS)	17.55	18.8	18.06	16.48	16.5	16.64
Arsenic (As) (TOT)		19.8	18.1	17.1	16.5	16
Arsenic III (DIS)	19.1	20.3	20.4	16.4	15.1	14.8
Arsenic V (DIS)	0.601 J+	0.564	<0.0624	<0.0624	<0.0624	0.0557
Barium (Ba) (DIS)						<0.1
Barium (Ba) (TOT)						<0.1
Beryllium (Be) (DIS)						0.001
Beryllium (Be) (TOT)						<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)		0.002 J	<0.001	0.002	0.001	<0.001
Chromium (Cr) (DIS)						0.001
Chromium (Cr) (TOT)						<0.001
Cobalt (Co) (DIS)						<0.01
Cobalt (Co) (TOT)						<0.01
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)		0.029	0.008	0.008	0.01	0.011
Iron (Fe) (DIS)	5.02	3.56	3.59	4.34	4.79	6.02
Iron (Fe) (TOT)		3.82	3.41	4.48	4.81	5.8
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)		0.042	0.018	0.039 UJ	0.034 UJ	0.014
Manganese (Mn) (DIS)	2.25	1.71	1.48	1.87	1.87	2.21
Manganese (Mn) (TOT)		1.81	1.48	1.87	1.89	2.22

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13	DH-13	DH-13	DH-13	DH-13
Water	SAMPLE DATE	5/21/2007	10/2/2007	12/11/2007	2/12/2008	2/12/2008	5/14/2008
	SAMPLE TIME	11:05	12:00	14:40	12:30	12:45	15:05
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07050232-005	H07100027-005	H07120112-007	H08020090-001	H08020090-002	H08050268-001
	SAMPLE NUMBER	AEH-0705-196	AEH-0710-105	AEH-0711-232	AEH-0802-100	AEH-0802-101	AEH-0805-249
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Metals (mg/L): ppm unless noted**

Mercury (Hg) (DIS)							<0.006
Mercury (Hg) (TOT)							<0.006
Nickel (Ni) (DIS)							<0.01
Nickel (Ni) (TOT)							<0.01
Selenium (Se) (DIS)		<0.005	0.007	0.01	0.008		<0.005
Selenium (Se) (TOT)		<0.005	0.007	0.008	0.009		<0.005
Silver (Ag) (DIS)							<0.005
Silver (Ag) (TOT)							<0.005
Thallium (Tl) (DIS)							0.028
Thallium (Tl) (TOT)							0.028
Vanadium (V) (DIS)							<0.01
Vanadium (V) (TOT)							<0.01
Zinc (Zn) (DIS)	1.41	0.98	0.92	1.37	1.36		1.73
Zinc (Zn) (TOT)		0.99	0.92	1.42	1.34		1.73

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.11	0.33	0.24	0.57	0.57		0.23
pH	6.8	6.6	6.4	6.6	6.6		6
Water Elevation (ft) (Fld)	3875.15	3878.18	3878.04	3875.06			3874.34
Depth To Water Level (ft)	32.28	29.25	29.39	32.37			33.09
pH (Fld)	6.09	6.15	6.18	6.03	6.03		5.76
SC (umhos/cm at 25 C) (Fld)	1018	1010	883	853	853		750
SC (umhos/cm at 25 C)	970	1040	904	816	820		791
Total Suspended Solids	15	<10	<10	<10	<10		<10
TDS (Measured at 180 C)	663	714	575	541	543		534
Water Temperature (C) (Fld)	11.13	10.55	10.51	10.7	10.7		10.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13	DH-13	DH-13	DH-18
Water	SAMPLE DATE	7/17/2008	11/13/2008	5/19/2009	5/19/2009	12/8/1986
	SAMPLE TIME	10:05	14:10	11:55	12:00	00:00
	LAB	ELI	ELI	ELI	ELI	RMAL
	LAB NUMBER	H08070356-004	H08110162-010	H09050287-006	H09050287-007	8612-9
	SAMPLE NUMBER	AEH-0807-153	AEH-0811-246	AEH-0905-260	AEH-0905-261	AEH-8612-9
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS				Field Duplicate	Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	160	87	68	68	134
Calcium (Ca) (DIS)	65	38	37	37	42.2
Carbonate As CO3					<5
Chloride (Cl)	67	27	22	22	3.7
Magnesium (Mg) (DIS)	21	13	12	12	9.5
Potassium (K) (DIS)	19	18	17	17	5.7
Sodium (Na) (DIS)	215	120	112	111	20.1
Sulfate (SO4)	550	370	350	350	61
Total Alkalinity As CaCO3	130	72	56	56	

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005			
Selenium-VI (DIS)		<0.005			
Aluminum (Al) (DIS)		0.4	0.4	0.4	
Antimony (Sb) (DIS)		<0.005	<0.003	<0.003	
Arsenic (As) (DIS)	17.19	14.3	13.5	13.4	<0.01
Arsenic (As) (TOT)	17				
Arsenic III (DIS)	14.9	10.6			
Arsenic V (DIS)	0.127	5.17 J			
Barium (Ba) (DIS)		<0.1	<0.1	<0.1	
Beryllium (Be) (DIS)		0.001	0.001	0.001	
Cadmium (Cd) (DIS)	0.001	<0.001	0.003	0.003	<0.005
Cadmium (Cd) (TOT)	0.002				
Chromium (Cr) (DIS)		<0.001	<0.001	<0.001	
Cobalt (Co) (DIS)		0.01	0.0141	0.0138	
Copper (Cu) (DIS)	<0.004	<0.004	0.003	0.003	<0.004
Copper (Cu) (TOT)	0.006				
Gold (Au) (DIS)			0.02	0.02	
Iron (Fe) (DIS)	12.34	7.86	8.6	8.55	<0.03
Iron (Fe) (TOT)	11.6				
Lead (Pb) (DIS)	0.009	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	0.015				
Manganese (Mn) (DIS)	4.64	2.9	3	2.98	0.02
Manganese (Mn) (TOT)	4.59				
Mercury (Hg) (DIS)		<0.006	<0.0001	<0.0001	
Nickel (Ni) (DIS)		<0.01	<0.01	<0.01	
Selenium (Se) (DIS)	0.014	0.01	0.015	0.015	
Selenium (Se) (TOT)	0.014				
Silver (Ag) (DIS)		<0.005	<0.005	<0.005	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13	DH-13	DH-13	DH-18
Water	SAMPLE DATE	7/17/2008	11/13/2008	5/19/2009	5/19/2009	12/8/1986
	SAMPLE TIME	10:05	14:10	11:55	12:00	00:00
	LAB	ELI	ELI	ELI	ELI	RMAL
	LAB NUMBER	H08070356-004	H08110162-010	H09050287-006	H09050287-007	8612-9
	SAMPLE NUMBER	AEH-0807-153	AEH-0811-246	AEH-0905-260	AEH-0905-261	AEH-8612-9
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS				Field Duplicate	Split
<b>Metals (mg/L): ppm unless noted</b>						
	Tellurium (Te) (DIS)			<0.1	<0.1	
	Thallium (Tl) (DIS)		0.031	0.03	0.031	
	Vanadium (V) (DIS)		<0.01	<0.01	<0.01	
	Zinc (Zn) (DIS)	2.52	2.18	2.49	2.48	0.2
	Zinc (Zn) (TOT)	2.48				
<b>Physical/Fld-Lab: ppm unless noted</b>						
	Oxygen (O) (DIS) (Fld)	0.45	0.24	0.77		
	pH	6.3	6.1	6.2	6.2	7.1
	Water Elevation (ft) (Fld)	3877.77				
	Depth To Water Level (ft)	29.66	29.82	32.46		
	pH (Fld)	5.86	5.65	5.73		
	SC (umhos/cm at 25 C) (Fld)	1666	1010	942		
	SC (umhos/cm at 25 C)	1520	998	944	942	320
	Total Suspended Solids	15	14	17	14	
	TDS (Measured at 180 C)	1080	670	613	615	185
	Water Temperature (C) (Fld)	10.4	10.28	11		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-18	DH-18	DH-18	DH-18	DH-18	DH-18
Water	SAMPLE DATE	12/8/1986	12/8/1986	1/27/1987	1/27/1987	6/9/1987	6/9/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	RMAL	CHMTC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	86-8131	8612-9 SD	8701-105	87-649	87-4193	87-4194
	SAMPLE NUMBER	AEH-8612-9	AEH-8612-9 SD	AEH-8701-105	AEH-8701-105	AEH-8706-17	AEH-8706-38
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS		Field Duplicate	Split			Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	163			167	172	
	Calcium (Ca) (DIS)	36	42.2	41.1	55 M	36	
	Carbonate As CO3	<1			<1	<1	
	Chloride (Cl)	4		290	4	3 M	
	Magnesium (Mg) (DIS)	9	9.5	9.7	10	9	
	Potassium (K) (DIS)	6.4	5.7	4.4	5.5	5.3	
	Sodium (Na) (DIS)	20 M	20.5	18.9	18	18.9	
	Sulfate (SO4)	36		32.9	35	41 M	
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.007	<0.01	<0.009	<0.006	<0.006	<0.006
	Arsenic III (dis)	0.3 M			<0.008	0.4	0.3
	Arsenic V (dis)	0.2 M			<0.008	0.05	0.08
	Cadmium (Cd) (DIS)	0.001	<0.005	<0.005	0.001	0.001 M	<0.001
	Copper (Cu) (DIS)	<0.008	<0.004	<0.02	<0.008	<0.008	<0.008
	Iron (Fe +2) (TOT)	0.01			<0.01	<0.01	<0.01
	Iron (Fe) (DIS)	0.03	<0.03	0.08	<0.02	<0.02 M	0.03
	Lead (Pb) (DIS)	<0.005	<0.005	<0.003	<0.005 M	<0.005	<0.005
	Manganese (Mn) (DIS)	0.02	0.02	0.03	0.04 M	0.01	0.009
	Zinc (Zn) (DIS)	0.1 M	0.2	0.02	<0.008	0.01	0.01
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	2.6 M			1.5	1.3	1.3
	pH	7.1			7.3	7.8	
	Water Elevation (ft) (Fld)				3878.03		
	Depth To Water Level (ft)				29.3		
	pH (Fld)	7.6 M			6.03	6.3	6.8
	SC (umhos/cm at 25 C) (Fld)	353			345.5	355.7	354.1
	SC (umhos/cm at 25 C)	320			345	390	
	TDS (Measured at 180 C)	258		303	27.6 M	404	
	Water Temperature (C) (Fld)	9.3			12.5	14.3	14.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-18	DH-18	DH-18	DH-18	DH-18	DH-18
Water	SAMPLE DATE	8/11/1987	11/23/1987	5/2/1988	12/19/1988	12/19/1988	4/17/1989
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-6640	87-10783	88-3204	89-34	89-35	89-486
	SAMPLE NUMBER	AEH-8708-06	AEH-8711-233	AEH-8804-317	AEH-8812-136	AEH-8812-151	AEH-8904-215
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	165	149 M	133				
Calcium (Ca) (DIS)	35.5	40	52.5				
Carbonate As CO3	<1	13	<1				
Chloride (Cl)	4	4	5.6 J	3.7 J	2.8	3.8	
Magnesium (Mg) (DIS)	9.6	9.6	9				
Potassium (K) (DIS)	5.2	6	6				
Sodium (Na) (DIS)	17.9	17.8	18				
Sulfate (SO4)	46	47	36 J	31	30	33	
Total Alkalinity As CaCO3		144					

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.01 M	<0.006	0.01	0.007	0.007	<0.004	
Arsenic III (dis)	<0.008	0.4 M	0.04	0.02 J	<0.008 J	<0.008	
Arsenic V (dis)	0.03 M	0.03	0.02	<0.02	0.02	0.04 J	
Cadmium (Cd) (DIS)	<0.001	0.001	0.001	<0.001	<0.001	<0.002	
Copper (Cu) (DIS)	<0.008	<0.008		<0.008	<0.008	<0.008 J	
Iron (Fe +2) (TOT)	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	
Iron (Fe) (DIS)	<0.02	0.04 M	<0.02				
Lead (Pb) (DIS)	0.006 M	<0.005	<0.005	<0.005 UJ	<0.005 UJ	<0.02	
Manganese (Mn) (DIS)	0.02	0.008					
Zinc (Zn) (DIS)	0.01	<0.008	0.02	0.02	0.02	0.008 J	

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1	1.3	2.7	2.1		1.8	
pH	7.5	8.3 M	8.04	7.3	7.3	7	
Water Elevation (ft) (Fld)	3878.83	3883.83	3876.93	3877.93		3877.73	
Depth To Water Level (ft)	28.5	23.5	30.4	29.4		29.6	
pH (Fld)	7.03	6.6 M	6.9	7.3		5.7	
SC (umhos/cm at 25 C) (Fld)	485.6 M	348.6	347.1	344	343.4	335	
SC (umhos/cm at 25 C)	368	349	360	328	320	335	
Total Suspended Solids		12.4					
TDS (Measured at 180 C)	250	298.4 M	257 J	266 J	259 J	257	
Water Temperature (C) (Fld)	12.9	11	11.7	12.1		11.9	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-18	DH-18	DH-18	DH-18	DH-18	DH-18	
Water	SAMPLE DATE	4/17/1989	10/18/1989	4/28/1990	12/3/1990	12/3/1990	5/7/1991	
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00	
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	
	LAB NUMBER	89-494	89-821	90-1037	90-2237	90-2239	91-2683	
	SAMPLE NUMBER	AEH-8904-248	AEH-8910-415	AEH-9005-415	AEH-9011-720	AEH-9011-733	AEH-9105-151	
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	
	DESCRIPTION							
	REMARKS	Field Duplicate				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	3.7	3.9	2.7 J	2.4 J	3.8
Sulfate (SO4)	33	38.7	30 J	31 J	27

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.004	0.01	0.02	0.05	0.05	0.07
Arsenic III (dis)	0.02 J	0.7	0.009	0.08 J	0.9	0.01 J
Arsenic V (dis)	0.02 J	0.03 J	0.02 U	0.009	0.009	0.04 UJ
Cadmium (Cd) (DIS)	<0.002	<0.001	0.04	0.06	0.06	0.05
Copper (Cu) (DIS)	<0.008	<0.008	0.02	0.009	0.01	0.04
Iron (Fe +2) (TOT)	<0.01					
Lead (Pb) (DIS)	<0.02	<0.005 UJ	0.2	0.1	0.1	0.08
Zinc (Zn) (DIS)	0.02 J	<0.008 J	0.1			0.1

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.4	2.1	2.3	2.3	3.2
pH	7.7	7.7	7.9	7.9	7.7
Water Elevation (ft) (Fld)	3880.93	3876.83	3878.83	3878.83	3877.13
Depth To Water Level (ft)	26.4	30.5	28.5	28.5	30.2
pH (Fld)	7.2	7.1	7	7	7.3
SC (umhos/cm at 25 C) (Fld)	360.2	365.5	352.6	355.6	349.3
SC (umhos/cm at 25 C)	328	350	335	345	355
TDS (Measured at 180 C)	246	260	253 J	248 J	285
Water Temperature (C) (Fld)	12.6	10.8	12.4	12.4	13.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-18	DH-18	DH-18	DH-18	DH-18	DH-18
Water	SAMPLE DATE	11/15/1991	11/15/1991	4/22/1992	11/11/1992	4/30/1993	4/30/1993
	SAMPLE TIME	14:30	16:00	13:00	19:15	08:15	10:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	91-3854	91-3860	92-4305	92-6772	93-7734	93-7732
	SAMPLE NUMBER	AEH-9111-316	AEH-9111-360	AEH-9204-173	EHC-9211-156	EHC-9305-122	EHC-9305-117
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Calcium (Ca) (Dis)				42 J	43 J	43 J
	Chloride (Cl)	3.6 UJ	4.3 UJ	9.4 J	3.8 J	3.9	3.6
	Magnesium (Mg) (Dis)				9.5	9.6 J	9.4 J
	Potassium (K) (Dis)				<5	6	5.7
	Sodium (Na) (Dis)				19	20 J	19 J
	Sulfate (SO4)	32	31	32	36 J	32	32
	Total Hardness As CaCO3					147	146
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.05	0.05	0.03	0.03 J	0.02	0.02
	Arsenic III (dis)	0.009 UJ	0.03 U	0.008	0.005 UJ	0.007 J	0.005 J
	Arsenic V (dis)	0.04 UJ	0.06 U	0.02	0.03 UJ	0.1 J	0.1 UJ
	Cadmium (Cd) (DIS)	0.02	0.02	0.01	0.008	0.01 J	0.01 J
	Copper (Cu) (DIS)	0.007 U	0.007 U	0.006	0.005	0.01	0.01
	Lead (Pb) (DIS)	0.06	0.06	0.07	0.06	0.07 J	0.06 J
	Zinc (Zn) (DIS)	0.08	0.07	0.05	0.04	0.05	0.05
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	2	2	1	1.8	1.6	1.6
	pH	7.1	7.4	8.3	7.9		
	Water Elevation (ft) (Fld)	3882.26	3882.26	3879.83	3881.83	3880.63	3880.63
	Depth To Water Level (ft)	25.07	25.07	27.5	25.5	26.7	26.7
	pH (Fld)	7.8	7.8	7	7.2	7	7
	SC (umhos/cm at 25 C) (Fld)	329	325	352	347	354	354
	SC (umhos/cm at 25 C)	318	300	342	350	285 J	305 J
	TDS (Measured at 180 C)	260 J	267 J	256 J	270	264	266
	Water Temperature (C) (Fld)	19	19	11.7	12.1	11.9	11.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-18	DH-18	DH-18	DH-18	DH-18	DH-18
Water	SAMPLE DATE	11/5/1993	5/9/1994	5/9/1994	11/10/1994	5/8/1995	5/8/1995
	SAMPLE TIME	13:00	14:30	17:00	18:45	17:30	17:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-9194	94-1334	94-1331	94-3269	95-4479	95-4492
	SAMPLE NUMBER	EHC-9311-113	EHC-9405-171	EHC-9405-119	EHC-9411-119	EHC-9505-119	EHC-9505-167
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS		Field Duplicate				Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	3.9 J	3.7	3.1	4	3.9	3.2
	Sulfate (SO4)	36	32 J	33 J	32	31	32
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.02 J	0.03	0.03 U	0.01	0.009	0.01
	Arsenic III (dis)	0.3	0.005	<0.004	0.008 UJ	<0.004	<0.004
	Arsenic V (dis)	0.02 J	0.02 UJ	0.04 J	0.02 U	0.005	0.007
	Cadmium (Cd) (DIS)	0.01	0.008	0.008	0.007	0.006	0.007
	Copper (Cu) (DIS)	0.006	0.01	0.01	0.01	0.03	0.03
	Lead (Pb) (DIS)	0.04	0.03	0.03	0.06	0.06 J	0.06 J
	Zinc (Zn) (DIS)	0.04	0.04	0.04	0.04	0.04	0.04
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	2.1	2.4	2.4	3.2	1.8	1.8
	pH					7.5	7.5
	Water Elevation (ft) (Fld)	3882.43	3880.03	3880.03	3880.53	3878.63	3878.63
	Depth To Water Level (ft)	24.9	27.3	27.3	26.8	28.7	28.7
	pH (Fld)	7.2	7.3	7.3	7.5	7.4	7.4
	SC (umhos/cm at 25 C) (Fld)	344	553 JA	366 J	333	351 J	475 J
	SC (umhos/cm at 25 C)	358 J	355	350	350	355 J	350 J
	TDS (Measured at 180 C)	257	269 U	249 U	249	239 J	247 J
	Water Temperature (C) (Fld)	11.1	15	15	11.9	12.5	12.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-18	DH-18	DH-18	DH-18	DH-18	DH-18
Water	SAMPLE DATE	11/7/1995	5/9/1996	5/9/1996	11/8/1996	11/8/1996	5/6/1997
	SAMPLE TIME	18:30	12:15	12:30	12:00	12:15	15:25
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-6088	96-6775	96-6794	96-7774	96-7773	97-901
	SAMPLE NUMBER	EHC-9511-120	EHC-9605-108	EHC-9605-151	EHC-9611-108	EHC-9611-146	EHC-9705-107
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS			Field Duplicate		Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	3.9	4.7	4.7	4.4	4.9	4
	Sulfate (SO4)	39	43	37	41	38	34
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.005	0.007	0.009	0.007	0.007	0.009
	Arsenic III (dis)	<0.004	<0.005 UJ	<0.005 UJ	<0.004	<0.004	<0.005
	Arsenic V (dis)	0.01	0.01 J	0.009 J	0.04 J	0.006 J	0.008
	Cadmium (Cd) (DIS)	0.005	0.006	0.005	0.005	0.005	0.005
	Copper (Cu) (DIS)	0.03	0.04	0.03	0.03	0.03	0.05
	Lead (Pb) (DIS)	0.06	0.04	0.04	0.04	0.04	0.04
	Zinc (Zn) (DIS)	0.04	0.04	0.04	0.03	0.03	0.04
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	1.5	3.5	3.5	2.5	2.5	2.3
	pH	7.4	7	7.1	7.7	7.4	6.9
	Water Elevation (ft) (Fld)	3882.31	3880.33	3880.33	3880.53	3880.53	3879.13
	Depth To Water Level (ft)	25.02	27	27	26.8	26.8	28.2
	pH (Fld)	6.9	6.2	6.3	6.8	6.8	7.7
	SC (umhos/cm at 25 C) (Fld)	346	365	361	369	369	357
	SC (umhos/cm at 25 C)	360	330	340	360	400	355
	TDS (Measured at 180 C)	226	268	263	267	269	264
	Water Temperature (C) (Fld)	10.9	10.9	11.3	10.8	10.8	11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-18	DH-18	DH-18	DH-18	DH-18	DH-18
Water	SAMPLE DATE	11/4/1997	5/5/1998	5/5/1998	11/18/1998	5/10/1999	11/10/1999
	SAMPLE TIME	18:00	10:00	10:15	14:15	12:00	15:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	187-2674	260-3752	261-3774	310-4398	347-4887	L992007007
	SAMPLE NUMBER	EHC-9711-108	EHC-9805-109	EHC-9805-147	EHC-9811-108	EHC-9905-108	EHC-9911-120
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		166	166	177	168 J	166
Calcium (Ca) (DIS)		41	41	41	40	39
Carbonate As CO3					<1 UJ	<1
Chloride (Cl)	5	13	12	4	3.6	4.3
Magnesium (Mg) (DIS)		11	11	9.6	9.1	9
Potassium (K) (DIS)		5 J	6 J	<5	5.3	5.3
Sodium (Na) (DIS)		23	22	18	19	18
Sulfate (SO4)	47	40	39	40	45	37
Total Alkalinity As CaCO3		136	136	145	138 J	136

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	0.007	0.007	0.01	0.005	<0.005
Arsenic III (dis)	<0.005	<0.005	<0.005	<0.005	<0.005	0.03 J
Arsenic V (dis)	<0.005	0.007	0.008	0.008	0.009	0.009 U
Cadmium (Cd) (DIS)	0.004	0.004	0.004	0.004	0.003	0.002
Copper (Cu) (DIS)	0.02	0.04	0.04	0.03	0.03	0.04 J
Iron (Fe) (DIS)		<0.05	<0.05	0.04	0.04 UJ	<0.02
Lead (Pb) (DIS)	0.03	0.03	0.03	0.07	0.03	0.03 U
Manganese (Mn) (DIS)		0.02	0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	0.02	0.04 J	0.04	0.02	<0.02	0.02 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.4	1.6	1.6	1.5	1.5	1.5
pH	7.3	7.1	7.3	7.2	7.8	7.5
Water Elevation (ft) (Fld)	3884.03	3879.53		3881.73	3878.53	3880.73
Depth To Water Level (ft)	23.3	27.8		25.6	28.8	26.6
Eh (millivolts)				383	438	496
pH (Fld)	7.01	6.5	6.5	7.7	7.3	7.6
SC (umhos/cm at 25 C) (Fld)	446	393	399	367	379	392
SC (umhos/cm at 25 C)	369	400	396	360	358	360
Total Suspended Solids	6			13		4.6
TDS (Measured at 180 C)	287	290	295	283	276 J	673 R
Water Temperature (C) (Fld)	11	11.3	11.3	10.8	10.4	11.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-18	DH-18	DH-18	DH-18	DH-18	DH-18
Water	SAMPLE DATE	5/2/2000	11/7/2000	5/10/2001	11/15/2001	11/15/2001	5/29/2002
	SAMPLE TIME	16:25	11:20	10:30	14:50	15:00	13:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000703003	L001873019	L010691019	L011573001	L011573007	L020396007
	SAMPLE NUMBER	EHC-0005-119	EHC-0011-120	EHC-0105-120	EHC-0111-119	EHC-0111-213	EHC-0205-124
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	171	163 J	176	173	176	178
Calcium (Ca) (DIS)	40	39	39	39	39	41
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Chloride (Cl)	3	6.1 J	4.8	3.5	3.9	16
Magnesium (Mg) (DIS)	9.4	10	9.7	9.3	9.4	9.6
Potassium (K) (DIS)	5.1	5.6	5.6	5.9	6	5.9
Sodium (Na) (DIS)	18	19	18 J	18	18	19
Sulfate (SO4)	30	37 J	36	38	35	32
Total Alkalinity As CaCO3	140	134 J	144	142	144	146

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		<0.01	<0.05	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	<0.005	0.005	0.01 UJ	0.006 U	0.006 U	<0.005
Arsenic III (dis)	0.03 UJ	0.02 J	0.02 U	<0.005	<0.005	0.008
Arsenic V (dis)	0.02 U	0.02 U	<0.005	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)	0.003	0.004	0.003	0.006	0.006	0.004
Copper (Cu) (DIS)	0.05	0.06	0.05	0.005	0.005	0.04
Iron (Fe) (DIS)	<0.02 J	0.1 U	<0.05	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	0.03	0.03	0.04	0.07 U	0.08 U	0.06
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	0.04	0.03	0.03	0.03	0.03	0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				47.8	48.9	1
Oxygen (O) (DIS) (Fld)	1.7	4.6	6.5	0.05	0.06	0.6
pH	7.3	7.3	8	6.8	8.1	6.8
Silicon+Silica (Si+SiO2)		54	58	57	57	54
Water Elevation (ft) (Fld)	3877.63	3878.13	3877.13	3879.28		3876.29
Depth To Water Level (ft)	29.7	29.2	30.2	28.05		31.04
Eh (millivolts)	346	472	456	281	283	
pH (Fld)	7.03	7.9	7.8	7.2	7.2	6.6
SC (umhos/cm at 25 C) (Fld)	350	381	366	389	386	404
SC (umhos/cm at 25 C)	346	370	362	351	350	371
Total Suspended Solids			4	471	491	47
TDS (Measured at 180 C)	252	266	267	292	266	268
Water Temperature (C) (Fld)	12	11.2	12	12.4	12.4	11.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-18	DH-18	DH-18	DH-18	DH-18	DH-18
Water	SAMPLE DATE	11/16/2002	11/16/2002	6/1/2003	10/28/2003	5/27/2004	11/2/2004
	SAMPLE TIME	10:15	10:30	14:45	16:45	11:20	12:35
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	L020956002	L020956003	L030244016	L030604009	H04050208-007	H04110029-009
	SAMPLE NUMBER	EHC-0211-121	EHC-0211-245	AEH-0306-156	AEH-0310-410	AEH-0405-205	AEH-0411-193
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	173	171	171	173	180	170
Calcium (Ca) (DIS)	41	40	36	39	38	49
Carbonate As CO3	<1	<1	<2	<2		
Chloride (Cl)	4.1 J	6 J	4.2	2.7	6 UJ	4 UJ
Magnesium (Mg) (DIS)	9.3	9.3	8.9	9.3	8	11
Potassium (K) (DIS)	5.3	5.3	6.2	5.7	5	6
Sodium (Na) (DIS)	18	18	18	17	17	18
Sulfate (SO4)	32	32	22	40	34	39
Total Alkalinity As CaCO3	142	140	140	142	150	140

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05				
Arsenic (As) (DIS)	0.005	0.005	0.006	0.007	0.007	<0.005
Arsenic III (dis)	<0.005	<0.005	0.008	0.005	<0.001 J	<0.001
Arsenic V (dis)	<0.005	<0.005	<0.005 UJ	<0.005	0.012	0.0061
Cadmium (Cd) (DIS)	0.003	0.003	0.004	0.003	0.003	0.003
Copper (Cu) (DIS)	0.02	0.02	0.03	0.007	0.031	0.016
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.03	<0.02	<0.02
Lead (Pb) (DIS)	0.05	0.05	0.05	0.05	0.039	0.066
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01
Zinc (Zn) (DIS)	<0.02	<0.02	0.02	<0.05	0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.01		0.3	0.27	0.14	0.05
pH	7.5	7.3	7.5	7.8	7.3	7.6
Silicon+Silica (Si+SiO2)	54	54				
Water Elevation (ft) (Fld)	3878.23		3877.43	3878.28	3876.57	3879.62
Depth To Water Level (ft)	29.1		29.9	29.05	30.76	27.71
pH (Fld)	6.2		6.5	6.37	7.03	7
SC (umhos/cm at 25 C) (Fld)	287		282	286	385	360
SC (umhos/cm at 25 C)	355	355	357	357	331	304
Total Suspended Solids	14	14	13	12 J	<10	110 J
TDS (Measured at 180 C)	278	274	257	277	251	245
Salinity (G/KG) (Fld)	0.1		0.1	0.1		
Turbidity (NTU) (Fld)	8		1	9		
Water Temperature (C) (Fld)	11.5		12.3	11.9	13	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-18	DH-18	DH-18	DH-18	DH-18	DH-18
Water	SAMPLE DATE	5/18/2005	11/17/2005	5/8/2006	12/4/2006	5/21/2007	10/2/2007
	SAMPLE TIME	14:10	13:20	14:20	00:00	12:00	11:00
	LAB	ELI-Casper	ELI-Hel	ELI-Hel	Hydrometrics	ELI	ELI
	LAB NUMBER	C05050691-011	H05110153-013	H06050086-004	z	H07050232-006	H07100027-002
	SAMPLE NUMBER	AEH-0505-195	AEH-0511-205	AEH-0605-183	AEH-0611-246	AEH-0705-197	AEH-0710-101
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					No Samp-Frozen	
	REMARKS					No Sample	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	167	170	180	180	180
Calcium (Ca) (DIS)	44	39	40 J+	40	40
Chloride (Cl)	12	8 UJ	5	4	4
Magnesium (Mg) (DIS)	10	9	8 J-	9	9
Potassium (K) (DIS)	5	5	6	5	6
Sodium (Na) (DIS)	18	16	18	18	18
Sulfate (SO4)	31	35	35	36	34
Total Alkalinity As CaCO3	137	140	150	150	150

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.004	0.005	0.004	0.003 UJ	0.003 UJ
Arsenic (As) (TOT)					0.031 UJ
Arsenic III (dis)	<0.005	0.003 UJ	<0.005	<0.005	<0.005
Arsenic V (dis)	<0.005 J	0.003	0.006	<0.005	<0.005
Cadmium (Cd) (DIS)	0.002	0.002	0.003	0.002	0.002
Cadmium (Cd) (TOT)					0.009 J
Copper (Cu) (DIS)	0.01	0.009	0.013	0.012	0.011
Copper (Cu) (TOT)					0.162
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	0.04 UJ
Iron (Fe) (TOT)					0.55
Lead (Pb) (DIS)	0.053	0.048	0.05	0.047	0.043
Lead (Pb) (TOT)					0.544
Manganese (Mn) (DIS)	<0.02	<0.02	0.01	0.01	0.01
Manganese (Mn) (TOT)					0.02
Selenium (Se) (DIS)					<0.005
Selenium (Se) (TOT)					<0.005
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	0.02	0.01
Zinc (Zn) (TOT)					0.07

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	0.03	1.2	0.34	0.04	0.31
pH	7.39	7.3	7.3	7.6	7.4
Water Elevation (ft) (Fid)	3876.68	3879.5	3877.41	3880.11	3876.68
Depth To Water Level (ft)	30.65	27.83	29.92	27.22	30.65
pH (Fid)	6.75	6.73	6.77	6.89	6.72
SC (umhos/cm at 25 C) (Fid)	968 R	433	406	358	335
SC (umhos/cm at 25 C)	354	358	351	353	352
Total Suspended Solids	63	19 J	16 J+	31	15

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-18	DH-18	DH-18	DH-18	DH-18
Water	SAMPLE DATE	5/18/2005	11/17/2005	5/8/2006	5/21/2007	10/2/2007
	SAMPLE TIME	14:10	13:20	14:20	12:00	11:00
	LAB	ELI-Casper	ELI-Hel	ELI-Hel	ELI	ELI
	LAB NUMBER	C05050691-011	H05110153-013	H06050086-004	H07050232-006	H07100027-002
	SAMPLE NUMBER	AEH-0505-195	AEH-0511-205	AEH-0605-183	AEH-0705-197	AEH-0710-101
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS					
<b>Physical/Fid-Lab: ppm unless noted</b>						
	TDS (Measured at 180 C)	244	265	268	265	253
	TDS - Calculated	256				
	Water Temperature (C) (Fld)	12.22	12.55	13.18	12.15	11.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-18	DH-18	DH-18	DH-18	DH-18	DH-18	
Water	SAMPLE DATE	10/2/2007	12/12/2007	2/12/2008	5/6/2008	7/17/2008	7/17/2008	
	SAMPLE TIME	11:10	12:35	13:25	12:20	09:20	09:30	
	LAB	ELI	ELI	ELI	ELI	ELI	ELI	
	LAB NUMBER	H07100027-003	H07120134-008	H08020090-003	H08050097-010	H08070356-001	H08070356-002	
	SAMPLE NUMBER	AEH-0710-102	AEH-0711-242	AEH-0802-103	AEH-0805-159	AEH-0807-150	AEH-0807-151	
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	
	DESCRIPTION							
	REMARKS	Field Duplicate					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	180		180	180	170	180
Bicarbonate (HCO3) (dis)		180				
Calcium (Ca) (DIS)	40	40	40	50	41	42
Chloride (Cl)	3	4	4	4	5	4
Magnesium (Mg) (DIS)	9	9	9	11	9	10
Potassium (K) (DIS)	6	6	6	6	4	4
Sodium (Na) (DIS)	17	18	18	17	17	17
Sulfate (SO4)	34	34	33	32	34	33
Total Alkalinity As CaCO3	150	150	150	140	140	150

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)		<0.005		<0.005		
Selenium-VI (dis)		<0.005		<0.005		
Aluminum (Al) (DIS)				<0.1		
Aluminum (Al) (TOT)				0.2		
Antimony (Sb) (DIS)				<0.005		
Antimony (Sb) (TOT)				0.011		
Arsenic (As) (DIS)	0.003 UJ	0.006 UJ	0.003	0.003	0.003	0.003
Arsenic (As) (TOT)	0.027 UJ		0.049	0.013	0.022	0.022
Arsenic III (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic V (DIS)	<0.005	<0.005	0.0065	<0.005	<0.005	<0.005
Barium (Ba) (DIS)				<0.1		
Barium (Ba) (TOT)				<0.1		
Beryllium (Be) (DIS)				<0.001		
Beryllium (Be) (TOT)				<0.001		
Cadmium (Cd) (DIS)	0.002	<0.001	0.002	0.002	0.003	0.003
Cadmium (Cd) (TOT)	0.007 J		0.015	0.005	0.008	0.008
Chromium (Cr) (DIS)				<0.001		
Chromium (Cr) (TOT)				<0.001		
Cobalt (Co) (DIS)				<0.01		
Cobalt (Co) (TOT)				<0.01		
Copper (Cu) (DIS)	0.014	<0.004	0.006	0.01	0.026	0.025
Copper (Cu) (TOT)	0.136		0.291	0.072	0.144	0.122
Iron (Fe) (DIS)	0.03 UJ	<0.02	<0.02	<0.02	<0.02	<0.02
Iron (Fe) (TOT)	0.45		0.89	0.18	0.41 J	0.33 J
Lead (Pb) (DIS)	0.044	0.051	0.046	0.044	0.052	0.052
Lead (Pb) (TOT)	0.481		0.992	0.226	0.408	0.404
Manganese (Mn) (DIS)	0.01	0.01	0.01	0.02	0.01	0.01
Manganese (Mn) (TOT)	0.02		0.02	0.02	0.02	0.02

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-18	DH-18	DH-18	DH-18	DH-18	DH-18	
Water	SAMPLE DATE	10/2/2007	12/12/2007	2/12/2008	5/6/2008	7/17/2008	7/17/2008	
	SAMPLE TIME	11:10	12:35	13:25	12:20	09:20	09:30	
	LAB	ELI	ELI	ELI	ELI	ELI	ELI	
	LAB NUMBER	H07100027-003	H07120134-008	H08020090-003	H08050097-010	H08070356-001	H08070356-002	
	SAMPLE NUMBER	AEH-0710-102	AEH-0711-242	AEH-0802-103	AEH-0805-159	AEH-0807-150	AEH-0807-151	
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	
	DESCRIPTION							
	REMARKS	Field Duplicate					Field Duplicate	

**Metals (mg/L): ppm unless noted**

Mercury (Hg) (DIS)				<0.006			
Mercury (Hg) (TOT)				<0.006			
Nickel (Ni) (DIS)				<0.01			
Nickel (Ni) (TOT)				<0.01			
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Selenium (Se) (TOT)	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
Silver (Ag) (DIS)				<0.005			
Silver (Ag) (TOT)				<0.005			
Thallium (Tl) (DIS)				<0.002			
Thallium (Tl) (TOT)				<0.002			
Vanadium (V) (DIS)				<0.01			
Vanadium (V) (TOT)				<0.01			
Zinc (Zn) (DIS)	0.02	<0.02	0.01	0.01	0.03	0.03	0.03
Zinc (Zn) (TOT)	0.07		0.12	0.04	0.07	0.06	

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		0.14	0.12	0.39	0.29		
pH	7.4	7.1	7.5	7.2	7.4	7.3	
Water Elevation (ft) (Fld)		3879.21	3876.86	3876.19	3878.07		
Depth To Water Level (ft)		28.12	30.47	31.14	29.26		
pH (Fld)		7	6.86	6.76	6.71		
SC (umhos/cm at 25 C) (Fld)		375	362	360	364		
SC (umhos/cm at 25 C)	356	361	360	351	354	357	
Total Suspended Solids	13	152	27	<10	10	<10	
TDS (Measured at 180 C)	254	265	251	244	267	262	
Water Temperature (C) (Fld)		12.5	11.7	11.9	12		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-18	DH-18	DH-21	DH-21	DH-21
Water	SAMPLE DATE	10/30/2008	5/8/2009	4/27/1987	6/9/1987	6/9/1987
	SAMPLE TIME	10:00	13:55	00:00	00:00	00:00
	LAB	ELI	ELI	TSC-SLC	CHMTC	TSC-SLC
	LAB NUMBER	H08100410-001	H09050167-008	87-2841	8706-101	87-4200
	SAMPLE NUMBER	AEH-0811-133	AEH-0905-159	AEH-8704-50	AEH-8706-101	AEH-8706-101
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS				Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	180	180	356		<1
Calcium (Ca) (DIS)	44	39	8.4	10.1	8
Carbonate As CO3			1056		680
Chloride (Cl)	4	4	525	650	575 M
Hydroxide (OH)					24
Magnesium (Mg) (DIS)	10	9	0.5	1.5	1
Potassium (K) (DIS)	6	6	14.5	12.2	12.9
Sodium (Na) (DIS)	17	17	2050	2070	2360
Sulfate (SO4)	35	31	2275	2373.1	2188 M
Total Alkalinity As CaCO3	140	140	2052		

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005				
Selenium-VI (DIS)	<0.005				
Aluminum (Al) (DIS)	<0.1	<0.1			
Antimony (Sb) (DIS)	<0.005	<0.003			
Arsenic (As) (DIS)	0.002	<0.005	442	304	283 M
Arsenic III (DIS)	<0.005		468		170
Arsenic V (DIS)	<0.005		2.2		104
Barium (Ba) (DIS)	<0.1	<0.1			
Beryllium (Be) (DIS)	<0.001	<0.001			
Cadmium (Cd) (DIS)	0.002	0.002	<0.001	<0.004	0.001 M
Chromium (Cr) (DIS)	<0.001	<0.001			
Cobalt (Co) (DIS)	<0.01	<0.0005			
Copper (Cu) (DIS)	0.012	0.015	0.01	0.09	0.01 M
Gold (Au) (DIS)		<0.01			
Iron (Fe +2) (TOT)			0.9		1.1
Iron (Fe) (DIS)	<0.02	<0.02	0.4	0.5	0.4
Lead (Pb) (DIS)	0.043	0.042	0.006 M	<0.03	0.03
Manganese (Mn) (DIS)	0.01	0.01	0.04	0.03	0.07
Mercury (Hg) (DIS)	<0.006	<0.0001			
Nickel (Ni) (DIS)	<0.01	<0.01			
Selenium (Se) (DIS)	<0.005	<0.001			
Silver (Ag) (DIS)	<0.005	<0.005			
Tellurium (Te) (DIS)		<0.1			
Thallium (Tl) (DIS)	<0.002	<0.001			
Vanadium (V) (DIS)	<0.01	<0.01			
Zinc (Zn) (DIS)	<0.02	0.01	0.02	0.08	0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.17	0.19			0.6
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-18	DH-18	DH-21	DH-21	DH-21
Water	SAMPLE DATE	10/30/2008	5/8/2009	4/27/1987	6/9/1987	6/9/1987
	SAMPLE TIME	10:00	13:55	00:00	00:00	00:00
	LAB	ELI	ELI	TSC-SLC	CHMTC	TSC-SLC
	LAB NUMBER	H08100410-001	H09050167-008	87-2841	8706-101	87-4200
	SAMPLE NUMBER	AEH-0811-133	AEH-0905-159	AEH-8704-50	AEH-8706-101	AEH-8706-101
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS				Split	

**Physical/Fld-Lab: ppm unless noted**

	DH-18	DH-18	DH-21	DH-21
pH	7.3	7.3	10.6	10.4
Water Elevation (ft) (Fld)			3884.22	3884.62
Depth To Water Level (ft)	28.54	30.77	23.3	22.9
pH (Fld)	6.74	6.82	10.7	11
SC (umhos/cm at 25 C) (Fld)	350	353	8725	8483
SC (umhos/cm at 25 C)	340	360	8700	9200
Total Suspended Solids	<10	11 J+		
TDS (Measured at 180 C)	250	259	6389	7074
Water Temperature (C) (Fld)	11.7	11.6	20	17.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-21	DH-21	DH-21	DH-21	DH-21	DH-21
Water	SAMPLE DATE	8/24/1987	8/24/1987	11/30/1987	4/19/1988	12/28/1988	4/20/1989
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-7529	87-7531	87-11008	88-2776	89-57	89-514
	SAMPLE NUMBER	AEH-8708-09	AEH-8708-51	AEH-8711-236	AEH-8804-320	AEH-8812-139	AEH-8904-218
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	403		37	452		
Calcium (Ca) (DIS)	4		9	11		
Carbonate As CO3	2064		1482	680		
Chloride (Cl)	400		568	407 J	593	628
Magnesium (Mg) (DIS)	0.1		1.9	4.3 J		
Potassium (K) (DIS)	12		28.5	37 J		
Sodium (Na) (DIS)	2580		2500	2150		
Sulfate (SO4)	42 A M		3100	2576	3050	2750
Total Alkalinity As CaCO3			2500			

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	662.5	637.5	750	340	352	568
Arsenic III (dis)	276 M	234	432 M	140.3	118 J	259 J
Arsenic V (dis)	492	456 M	360	127.2	175	347.5
Cadmium (Cd) (DIS)	0.005	0.005	0.01	0.003	0.005	<0.002 UJ
Copper (Cu) (DIS)	0.06	0.06	0.07		0.02	0.02 J
Iron (Fe +2) (TOT)	1.3	1.4	0.3	0.8	<0.01	0.4
Iron (Fe) (DIS)	0.9	0.9	0.6	0.1		
Lead (Pb) (DIS)	0.05	0.05	0.08	0.08	0.1	0.02
Manganese (Mn) (DIS)	0.02	0.02	0.03			
Zinc (Zn) (DIS)	0.04 M	0.04 M	0.02	0.04 J	0.02	0.02 J

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.4	0.4	1.3	0.5	1.6	0.8
pH	11.3		11	10.5	10.7	10.6
Water Elevation (ft) (Fld)	3885.72	3885.72	3884.72	3882.5	3876.82	3886.48
Depth To Water Level (ft)	21.8	21.8	22.8	25.02	30.7	21.04
pH (Fld)	11.3	11.3	11.2	10.8	3.6 A	11.6
SC (umhos/cm at 25 C) (Fld)	10315	10256	10537	8489	9427	12211
SC (umhos/cm at 25 C)	10300		10000	8500	9000	11000
Total Suspended Solids			17.3			
TDS (Measured at 180 C)	6537 M		8490 M	6803 J	7247	10844
Water Temperature (C) (Fld)	16.1	16.1	16	17.6	10.8	17

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-21	DH-21	DH-21	DH-21	DH-21	DH-21
Water	SAMPLE DATE	10/24/1989	5/1/1990	12/6/1990	5/10/1991	5/10/1991	11/21/1991
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-834	90-1064	90-2259	91-2826	91-2827	91-3880
	SAMPLE NUMBER	AEH-8910-418	AEH-9005-418	AEH-9011-723	AEH-9105-156	AEH-9105-159	AEH-9111-308
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	500	656	510 J	437	455	443 J
	Sulfate (SO4)	2325	3354	2990 J	2762	2861	1306 J
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	622.7 J	247	203	165	175	190
	Arsenic III (dis)	149.1	230	250	138 J	140 J	107
	Arsenic V (dis)	360.2	2.7	1.6 J	5.9 J	12 J	120
	Cadmium (Cd) (DIS)	0.008	0.01	0.002	<0.003	<0.003	0.003
	Copper (Cu) (DIS)	0.2	0.02	0.008	0.01	0.009	0.07
	Lead (Pb) (DIS)	0.2	0.03	<0.005 UJ	<0.005 J	0.005 J	0.06 J
	Zinc (Zn) (DIS)	0.03 J	0.02		0.02	0.02	0.01 J
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	0.9	1.4	5.5	8.6	8.6	1.9
	pH	11.8	10.7	10	9.3	9.3	10.5
	Water Elevation (ft) (Fld)	3887.5	3882.82	3883.12	3884.02	3884.02	3887.82
	Depth To Water Level (ft)	20.02	24.7	24.4	23.5	23.5	19.7
	pH (Fld)	11.6	10.9	10.7	10.3	10.3	11.4
	SC (umhos/cm at 25 C) (Fld)	11247	9868	8347	7973	7789	8270
	SC (umhos/cm at 25 C)	11500	10100	9100	7900	7900	8300
	TDS (Measured at 180 C)	8022 J	7159 J	6468 J	5656	5237	6266 J
	Water Temperature (C) (Fld)	16.8	15.1	14.3	15.9	15.9	16.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-21	DH-21	DH-21	DH-21	DH-21	DH-21
Water	SAMPLE DATE	11/21/1991	5/4/1992	11/22/1992	5/6/1993	11/16/1993	5/7/1994
	SAMPLE TIME	09:00	10:00	14:35	19:10	11:30	10:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	91-3889	92-4395	92-6824	93-7838	93-9336	94-1327
	SAMPLE NUMBER	AEH-9111-370	AEH-9204-154	EHC-9211-126	EHC-9305-165	EHC-9311-117	EHC-9405-168
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)				1.6	2.8		
Chloride (Cl)	404 J	333 J		5.6	320	360 J	443
Magnesium (Mg) (Dis)				<1	<1		
Potassium (K) (Dis)				7.7	20		
Sodium (Na) (Dis)				1930	2300		
Sulfate (SO4)	2598	3364 J		99	2459	3497	2919 J
Total Hardness As CaCO3					9.8		

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	193	165	239	165	520	240
Arsenic III (dis)	108	145	92.9	99	140 J	130.3 J
Arsenic V (dis)	123	7.7	109 J	60	390 J	89.6 J
Cadmium (Cd) (DIS)	0.003	0.005	0.008	0.002	0.002	<0.002
Copper (Cu) (DIS)	0.08	0.03	0.05	0.07	0.01	0.04
Lead (Pb) (DIS)	0.08	0.02 J	0.07	0.02	0.009	0.01 J
Zinc (Zn) (DIS)	0.04	0.03	0.07	0.02	0.05 J	0.01 U

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.9	1.9	1.6	1.6	1	
pH	10.5	10	10.3			
Water Elevation (ft) (Fld)	3887.82	3886.92	3887.42	3888.32	3887.42	3886.48
Depth To Water Level (ft)	19.7	20.6	20.1	19.2	20.1	21.04
pH (Fld)	11.4	10.5	11.1	10.5	10.5	10.3
SC (umhos/cm at 25 C) (Fld)	8170	9200	7715	7820	12870	9550
SC (umhos/cm at 25 C)	8200	9400	8200	7900 J	12680 J	9700
TDS (Measured at 180 C)	6462 J	6709 J	5700	5812	9856	6875
Water Temperature (C) (Fld)	16.1	17.3	16.7	15.5	17.5	16.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-21	DH-21	DH-21	DH-21	DH-21	DH-21
Water	SAMPLE DATE	11/17/1994	5/17/1995	11/13/1995	5/14/1996	11/12/1996	5/8/1997
	SAMPLE TIME	18:00	09:10	18:15	18:00	14:30	10:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-3399	95-4528	95-6144	96-6776	96-7787	97-937
	SAMPLE NUMBER	EHC-9411-183	EHC-9505-181	EHC-9511-124	EHC-9605-111	EHC-9611-111	EHC-9705-110
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	488	345	449 J	371	377	220
	Sulfate (SO4)	2728	2500	2702 J	2602	3519	2244
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	742	531.7	743.2	354.3	361.4	333
	Arsenic III (dis)	193	0.9	133.1	203.4 J	136	87.1
	Arsenic V (dis)	494 J	502.3	532.4	164.8 J	202 J	175
	Cadmium (Cd) (DIS)	0.005	0.02	0.004	<0.005	0.004	0.007
	Copper (Cu) (DIS)	0.02	0.2	0.02	0.01	0.06	0.05
	Lead (Pb) (DIS)	0.01	0.05	<0.005 J	0.01	0.02	0.02
	Zinc (Zn) (DIS)	0.02	0.04 J	0.02 U	0.05	0.1	<0.02 J
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	2.7	2.02	1.9	2	1.6	1.9
	pH	10.9	10.1	11.6	11	10.8	10.5
	Water Elevation (ft) (Fld)	3885.52	3886.47	3888.12	3887.12	3886.72	3886.22
	Depth To Water Level (ft)	22	21.05	19.4	20.4	20.8	21.3
	pH (Fld)	11.2	10.5	11.7	11.4	10.9	10.6
	SC (umhos/cm at 25 C) (Fld)	13350	9510	14610	10630	10410	8580
	SC (umhos/cm at 25 C)	12950	9860 J	15380 J	10200	11110	8920
	TDS (Measured at 180 C)	10483 J	7886 J	10902	7646	9050	7036
	Water Temperature (C) (Fld)	15.8	16.9	17.3	14.5	12.2	11.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-21	DH-21	DH-21	DH-21	DH-21	DH-21
Water	SAMPLE DATE	5/8/1997	11/10/1997	5/12/1998	5/12/1998	11/20/1998	5/11/1999
	SAMPLE TIME	10:55	15:45	10:40	11:00	13:30	18:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	97-976	192-2745	262-3786	262-3798	314-4465	347-4901
	SAMPLE NUMBER	EHC-9705-155	EHC-9711-111	EHC-9805-112	EHC-9805-156	EHC-9811-111	EHC-9905-111
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)			598 J	293 J	244	388 J
Calcium (Ca) (DIS)			<5	<5	<5	<5
Carbonate As CO3					1320	928 J
Chloride (Cl)	223	408	364	362	284	223
Magnesium (Mg) (DIS)			<5	<5	<5	<5
Potassium (K) (DIS)			25	24	26	23
Sodium (Na) (DIS)			2736	2874	2321	1926
Sulfate (SO4)	2282	3291	2297	2304	2197	1857
Total Alkalinity As CaCO3			2900	2700	2400	1864 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	343.2	647	459.4	457.8	372.8	238
Arsenic III (dis)	83.7	128.07	119.6 J	116.2 J	137.4 J	93.9
Arsenic V (dis)	169.3	407.6 J	290	283.7	175.4	138.3
Cadmium (Cd) (DIS)	0.005	<0.01	0.004 J	0.002 J	<0.001	0.002
Copper (Cu) (DIS)	0.05	0.04	0.06	0.05	0.02	0.05
Iron (Fe) (DIS)			0.4	0.5	0.2	0.1 U
Lead (Pb) (DIS)	0.02	<0.05	<0.1	<0.1	<0.005	0.02
Manganese (Mn) (DIS)			<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	0.03 J	0.06 J	0.04	0.03

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.9	1.3	2.05	2	1.6	3.7
pH	10.4	11.1	10.6	10.6	10.8	10.7
Water Elevation (ft) (Fld)	3886.22	3891.45	3886.42		3887.22	3885.92
Depth To Water Level (ft)	21.3	16.07	21.1		20.3	21.6
Eh (millivolts)					-72	136
pH (Fld)	10.6	10.9	11.8	11.2	10.8	10.7
SC (umhos/cm at 25 C) (Fld)	8570	13150	9630	9620	8391	6750
SC (umhos/cm at 25 C)	8900	13680	10280	10380	9270	7270
Total Suspended Solids		3				
TDS (Measured at 180 C)	7065	11747	7809	7852	6668	5593
Water Temperature (C) (Fld)	11.8	14.2	15.2	15.2	13.9	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-21	DH-21	DH-21	DH-21	DH-21	DH-21
Water	SAMPLE DATE	11/9/1999	5/3/2000	11/8/2000	2/7/2001	5/11/2001	11/9/2001
	SAMPLE TIME	15:40	17:05	16:30	14:30	12:15	14:25
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L992007009	L000703005	L001873022	L010183012	L010691020	L011564002
	SAMPLE NUMBER	EHC-9911-124	EHC-0005-123	EHC-0011-124	EHST-0102-111	EHC-0105-124	EHC-0111-123
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)		271	17	81		569	437
Calcium (Ca) (DIS)		<5	<5	<5		<1	<5
Carbonate As CO3		799	559	362			149
Chloride (Cl)		277	278	283 J		362	326 J
Magnesium (Mg) (DIS)		<5	<5	<5		<1	<5
Potassium (K) (DIS)		19	9	10		17	18
Sodium (Na) (DIS)		1733	1437	1491		1715	1705
Sulfate (SO4)		1699	1677	1952		2899	2566
Total Alkalinity As CaCO3		1554	946	670		477	606
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (DIS)				0.5		0.4	0.4
Antimony (Sb) (DIS)					0.05		
Arsenic (As) (DIS)		292	174	121	80	85	79
Arsenic III (dis)		177	122	87		75	82
Arsenic V (dis)		118	43	15		4	<0.005
Beryllium (Be) (DIS)						<0.001	<0.001
Cadmium (Cd) (DIS)		0.002	0.001	<0.001	0.001	<0.001	0.003
Copper (Cu) (DIS)		0.08 J	0.02	<0.004	0.02	0.02 U	0.04 J
Iron (Fe) (DIS)		0.03 J	0.08 UJ	0.03 U	<0.1	<0.05	0.02
Lead (Pb) (DIS)		0.005 U	<0.005	<0.005	0.006	0.01 U	<0.005 J
Manganese (Mn) (DIS)		<0.02	0.02	<0.02	<0.01	<0.02	<0.02
Mercury (Hg) (DIS)					0.0001	0.0003	<0.0006
Selenium (Se) (DIS)					0.2	0.02	0.07
Silver (Ag) (DIS)						<0.003	<0.003
Thallium (Tl) (DIS)					<0.003	<0.003	<0.03
Zinc (Zn) (DIS)		0.04 UJ	0.06	<0.02	0.01	<0.02	<0.02
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxidation Reduction Potential							-84.2
Oxygen (O) (DIS) (Fld)		2.7	7.1	4.6	2.6	6.01	0.2
pH		10.5	10.6	10.4		9.8	9.6
Silicon+Silica (Si+SiO2)				10		7.7	8
Water Elevation (ft) (Fld)		3887.22	3883.62	3886.02	3882.49	3883.32	3883.22
Depth To Water Level (ft)		20.3	23.9	21.5	25.03	24.2	24.3
Eh (millivolts)		-119	150	-19	128	175	170
pH (Fld)		10.7	10.6	10.6	9.6	10.4	9.7
SC (umhos/cm at 25 C) (Fld)		7110	5796	6040	7020	6280	6480
SC (umhos/cm at 25 C)		7210	5830	5920		7030	6940

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-21	DH-21	DH-21	DH-21	DH-21	DH-21
Water	SAMPLE DATE	11/9/1999	5/3/2000	11/8/2000	2/7/2001	5/11/2001	11/9/2001
	SAMPLE TIME	15:40	17:05	16:30	14:30	12:15	14:25
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L992007009	L000703005	L001873022	L010183012	L010691020	L011564002
	SAMPLE NUMBER	EHC-9911-124	EHC-0005-123	EHC-0011-124	EHST-0102-111	EHC-0105-124	EHC-0111-123
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Total Suspended Solids	1.4 U				<1	18 J
	TDS (Measured at 180 C)	5438	4273	4166		5380	5276 J
	Water Temperature (C) (Fld)	14.7	15.9	12.9	12.5	15.2	16.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-21	DH-21	DH-21	DH-21	DH-21	DH-21
Water	SAMPLE DATE	5/30/2002	11/15/2002	6/1/2003	10/26/2003	5/27/2004	11/3/2004
	SAMPLE TIME	17:15	14:30	11:00	14:45	16:20	15:35
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	L020396010	L020950017	L030244008	L030600013	H04050208-021	H04110037-021
	SAMPLE NUMBER	EHC-0205-128	EHC-0211-125	AEH-0306-148	AEH-0310-372	AEH-0405-220	AEH-0411-224
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	522	1547	1118	720	860	1300
Calcium (Ca) (DIS)	<5	5.4	<5	2.8	3	4
Carbonate As CO3	190	120	55	41		
Chloride (Cl)	347	286 J	179	192	110	100
Magnesium (Mg) (DIS)	<5	8.4	5.7	<5	2	5
Potassium (K) (DIS)	14	22	15	16	13	14
Sodium (Na) (DIS)	1842	1804	1466	1399	901	1222
Sulfate (SO4)	3046	2291	1756	1717	460	1670
Total Alkalinity As CaCO3	744	1468	1008	658	730	1200

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	0.3	0.2				
Arsenic (As) (DIS)	75	93	85	93	131.6	118.6
Arsenic III (dis)	60	79	72	84	140	<0.6
Arsenic V (dis)	16	14	10	<0.05	16	120
Cadmium (Cd) (DIS)	<0.001	<0.002	0.003	0.01	<0.001	<0.001
Copper (Cu) (DIS)	0.03	0.008 UJ	0.007	<0.004	<0.004	0.008
Iron (Fe) (DIS)	<0.02	0.02	<0.02	<0.03	0.07	0.08
Lead (Pb) (DIS)	0.006	<0.005	<0.005	<0.01	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	0.02	0.02	<0.02	<0.01	0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	0.01	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	-147.3					
Oxygen (O) (DIS) (Fld)	1.08	2.7	1.6	0.0	0.12	3.39
pH	9.7	8.7	8.6	8.8	9.4	9.3
Silicon+Silica (Si+SiO2)	6.7	6.8				
Water Elevation (ft) (Fld)	3879.22	3883.12	3883.32	3882.74	3882.49	3885.16
Depth To Water Level (ft)	28.3	24.4	24.2	24.78	25.03	22.36
pH (Fld)	9.8	7.9	8.06	9.41	9.44	9.3
SC (umhos/cm at 25 C) (Fld)	7480	7590	6840	5210	3970	5399
SC (umhos/cm at 25 C)	7400	7700	5980	5300	3710	4650
Total Suspended Solids	43 J	13 J	13	11	<10	<10
TDS (Measured at 180 C)	5550	5857 J	4306	4028	2940	3780
Salinity (G/KG) (Fld)		4	3.6	2.7		
Turbidity (NTU) (Fld)		14	1	60		
Water Temperature (C) (Fld)	13.8	14.5	13.1	14.7	13.4	12.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-21	DH-21	DH-21	DH-21	DH-21	DH-21
Water	SAMPLE DATE	5/20/2005	11/18/2005	5/11/2006	12/4/2006	3/29/2007	5/24/2007
	SAMPLE TIME	10:45	15:00	11:50	09:30	14:40	10:20
	LAB	ELI-Casper	ELI-Hel	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	C05050789-004	H05110164-015	H06050137-009	H06120014-001	H07030246-004	H07050291-002
	SAMPLE NUMBER	AEH-0505-222	AEH-0511-223	AEH-0605-230	AEH-0611-227	AEH-0703-136	AEH-0705-226
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	910	640	980	990	1100	1400	
Calcium (Ca) (DIS)	6	5	2	3	3	2	
Chloride (Cl)	112	103	65	80	85	22	
Magnesium (Mg) (DIS)	<5	3	1	2	1	<1	
Potassium (K) (DIS)	14	14	12	16	16	9	
Sodium (Na) (DIS)	1140	1875	1067	1286	1820	957	
Sulfate (SO4)	1530	1830	1000	1340	1430	578	
Total Alkalinity As CaCO3	876	900	1200	1500	1800	1200	
<b>Metals (mg/L): ppm unless noted</b>							
Selenium-IV (DIS)						0.0226 A	
Selenium-VI (DIS)						1.02 A	
Arsenic (As) (DIS)	112	262.8	233	254.7	253	148.9	
Arsenic III (dis)	88.7	202	201	267	254 R	125 R	
Arsenic V (dis)	32.6	30.2	<0.7	25.3	61.5 R	43.3 R	
Cadmium (Cd) (DIS)	<0.004	<0.001	<0.001	0.002 UJ	<0.001	0.001	
Copper (Cu) (DIS)	<0.004	0.018	<0.004	0.017	<0.004	0.064	
Iron (Fe) (DIS)	0.02	0.23	0.1	0.12	0.07	0.21	
Lead (Pb) (DIS)	<0.005	0.007	<0.005	0.007	<0.005	0.019	
Manganese (Mn) (DIS)	0.04	0.03	0.01	0.02	0.01	0.02	
Selenium (Se) (DIS)					0.036	0.058	
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	0.03	
<b>Nutrients: ppm unless noted</b>							
Total Organic Carbon						18.9	
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxidation Reduction Potential				-115.8	-255.1		
Oxygen (O) (DIS) (Fld)	1.49	1.85	3.63	3.14	1.77	0.21	
pH	9.27	9.8	9.8	9.9	9.9	9.4	
Water Elevation (ft) (Fld)	3881.87	3883.81	3882.14	3884.51	3881.21	3880.88	
Depth To Water Level (ft)	25.65	23.71	25.38	23.01	26.31	26.64	
pH (Fld)	8.74	9.96	9.52	9.86	9.79	9.47	
SC (umhos/cm at 25 C) (Fld)	4514	8620	5360	5682	6049	3850	
SC (umhos/cm at 25 C)	4760	6650	4610	5350	6040	3570	
Total Suspended Solids	11	<10	12	13	36	18	
TDS (Measured at 180 C)	3360	5390	3310	4180	4820	2660	
TDS - Calculated	3340						
Water Temperature (C) (Fld)	11.54	13.87	14.01	10.62	13.95	14.32	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-21	DH-21	DH-21	DH-21	DH-21	DH-21
Water	SAMPLE DATE	7/30/2007	9/13/2007	10/2/2007	12/13/2007	2/4/2008	2/21/2008
	SAMPLE TIME	16:45	14:30	14:30	12:00	11:45	11:45
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07070302-008	H07090135-011	H07100027-008	H07120160-006	H08020017-006	H08020150-006
	SAMPLE NUMBER	AEH-0707-156	AEH-0709-163	AEH-0710-108	AEH-0711-254	AEH-0801-158	AEH-0802-136
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION		DO Error				
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	1000	710	720		940	960
Bicarbonate (HCO3) (dis)				1000		
Calcium (Ca) (DIS)	2	2	2	3	3	3
Chloride (Cl)	31	45	27	42	52	47
Magnesium (Mg) (DIS)	<1	<1	<1	2	<1	<1
Potassium (K) (DIS)	7	9	8	11	14	13
Sodium (Na) (DIS)	792	924	694	1036	1203	1269
Sulfate (SO4)	613	826	585	1050	999	1020
Total Alkalinity As CaCO3	1000	1000	840	980	1300	1300

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)				0.0116 A		
Selenium-VI (dis)				0.548 A		
Arsenic (As) (DIS)	151.4	165.8	112.5	125.3	197.8	206
Arsenic (As) (TOT)			81	123		200
Arsenic III (DIS)			109	122		193
Arsenic V (DIS)			<2.5	9.53		4.7 J
Cadmium (Cd) (DIS)	0.001	0.002	<0.001	0.002	0.002	0.002
Cadmium (Cd) (TOT)			0.004 J	0.006		0.006
Copper (Cu) (DIS)	0.067 J	0.007	0.01	0.035	0.017	0.017
Copper (Cu) (TOT)			0.048	0.097		0.036
Iron (Fe) (DIS)	0.67	0.21	0.15 UJ	0.2	0.29	0.14
Iron (Fe) (TOT)			0.34	0.55		0.69
Lead (Pb) (DIS)	0.034	<0.005	<0.005	0.01	0.009	0.01
Lead (Pb) (TOT)			0.022 UJ	0.037		0.022 J
Manganese (Mn) (DIS)	0.03	0.02	0.01	0.02	0.03	0.02
Manganese (Mn) (TOT)			0.01	0.03		0.03
Selenium (Se) (DIS)	0.364	0.024	0.02	0.24	0.654	0.029
Selenium (Se) (TOT)			0.085	0.278		0.305
Zinc (Zn) (DIS)	0.03	0.05	0.02	<0.02	0.01	0.02
Zinc (Zn) (TOT)			0.02	0.03		0.04 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.05	5.47 R	0.7	0.4	0.32	0.26
pH	9.6	9.9	9.7	9.6	10	9.8
Water Elevation (ft) (Fld)	3884.39	3883.38	3883.47	3884.95	3882.35	3881.87
Depth To Water Level (ft)	23.13	24.14	24.05	28.35	30.95	31.43
pH (Fld)	9.66	9.97	9.74	9.04	9.62	9.69
SC (umhos/cm at 25 C) (Fld)	3343	3690	2567	4398	5106	4982
SC (umhos/cm at 25 C)	3140	3490	2660	4360	4720	5900

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-21	DH-21	DH-21	DH-21	DH-21	DH-21
Water	SAMPLE DATE	7/30/2007	9/13/2007	10/2/2007	12/13/2007	2/4/2008	2/21/2008
	SAMPLE TIME	16:45	14:30	14:30	12:00	11:45	11:45
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07070302-008	H07090135-011	H07100027-008	H07120160-006	H08020017-006	H08020150-006
	SAMPLE NUMBER	AEH-0707-156	AEH-0709-163	AEH-0710-108	AEH-0711-254	AEH-0801-158	AEH-0802-136
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION		DO Error				
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

Total Suspended Solids	<10	<10	<10	<10	442	10
TDS (Measured at 180 C)	2330	2600	1960	2900	3630	3500
Water Temperature (C) (Fld)	15.32	15.3	11.87	5.5	3.2	12.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-21	DH-21	DH-21	DH-21	DH-21
Water	SAMPLE DATE	5/20/2008	7/18/2008	11/17/2008	2/10/2009	5/20/2009
	SAMPLE TIME	11:30	09:50	14:35	11:00	15:35
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08050361-001	H08070375-005	H08110187-013	H09020089-006	H09050289-008
	SAMPLE NUMBER	AEH-0805-274	AEH-0807-172	AEH-0811-263	AEH-0902-182	AEH-0905-276
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	1000	1300	1200	730	870
Calcium (Ca) (DIS)	3	4	3	2	2
Chloride (Cl)	55	40	40	41	40
Magnesium (Mg) (DIS)	1	3	3	<1	1
Potassium (K) (DIS)	12	11	11	10	12
Sodium (Na) (DIS)	1195	947	995	851	1030
Sulfate (SO4)	1300	930	980	890	<1100
Total Alkalinity As CaCO3	980	1100	1100	890	840

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	0.0097 J+		<0.005 J		
Selenium-VI (DIS)	0.669 J		0.484 J		
Aluminum (Al) (DIS)	0.2		0.2		0.2
Aluminum (Al) (TOT)	0.4				
Antimony (Sb) (DIS)	0.02		0.023		0.012
Antimony (Sb) (TOT)	0.051				
Arsenic (As) (DIS)	129.5	107.7	130	125	118
Arsenic (As) (TOT)	124	108			
Arsenic III (DIS)	115	105 J	97.6		
Arsenic V (DIS)	3.82	13.4 J	23.7		
Barium (Ba) (DIS)	<0.1		<0.1		<0.1
Barium (Ba) (TOT)	<0.1				
Beryllium (Be) (DIS)	<0.001		<0.001		<0.001
Beryllium (Be) (TOT)	<0.001				
Cadmium (Cd) (DIS)	<0.001	<0.001	0.003	<0.001	0.001 UJ
Cadmium (Cd) (TOT)	0.005	<0.001 J			
Chromium (Cr) (DIS)	<0.001		<0.001		0.002
Chromium (Cr) (TOT)	<0.005				
Cobalt (Co) (DIS)	<0.01		<0.01		0.0033 UJ
Cobalt (Co) (TOT)	<0.01				
Copper (Cu) (DIS)	0.007	0.007	0.016	<0.004	0.003
Copper (Cu) (TOT)	0.035	0.048			
Gold (Au) (DIS)					<0.02
Iron (Fe) (DIS)	0.16	0.07	0.23	0.24	0.32
Iron (Fe) (TOT)	0.48	0.18			
Lead (Pb) (DIS)	0.009	<0.005	0.008	<0.005	<0.005
Lead (Pb) (TOT)	0.022	0.015			
Manganese (Mn) (DIS)	0.02	0.03	0.03	0.01	0.02
Manganese (Mn) (TOT)	0.02	0.03			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-21	DH-21	DH-21	DH-21	DH-21
Water	SAMPLE DATE	5/20/2008	7/18/2008	11/17/2008	2/10/2009	5/20/2009
	SAMPLE TIME	11:30	09:50	14:35	11:00	15:35
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08050361-001	H08070375-005	H08110187-013	H09020089-006	H09050289-008
	SAMPLE NUMBER	AEH-0805-274	AEH-0807-172	AEH-0811-263	AEH-0902-182	AEH-0905-276
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS					

### Metals (mg/L): ppm unless noted

Mercury (Hg) (DIS)	<0.006		<0.006		0.003
Mercury (Hg) (TOT)	<0.006				
Nickel (Ni) (DIS)	<0.01		<0.01		<0.01
Nickel (Ni) (TOT)	<0.01				
Selenium (Se) (DIS)	0.287	0.073 J	0.207	0.023	0.056
Selenium (Se) (TOT)	0.325	0.43			
Silver (Ag) (DIS)	<0.005		<0.005 J-		<0.005
Silver (Ag) (TOT)	<0.005				
Tellurium (Te) (DIS)					<0.1
Thallium (Tl) (DIS)	<0.002		<0.002		<0.001
Thallium (Tl) (TOT)	<0.002				
Vanadium (V) (DIS)	0.02		0.02		0.02
Vanadium (V) (TOT)	0.02				
Zinc (Zn) (DIS)	0.01	<0.01	<0.02	<0.02	<0.01
Zinc (Zn) (TOT)	0.03	0.01			

### Physical/Fld-Lab: ppm unless noted

Oxygen (O) (DIS) (Fld)	0.81	0.3	0.3	3.5	0.73
pH	9.6	8.7	9.2	9.7	9.6
Water Elevation (ft) (Fld)	3880.91	3883.11			
Depth To Water Level (ft)	32.7	30.5	30.66	31.84	32.51
pH (Fld)	9.27	9.2	9.29	9.56	9.67
SC (umhos/cm at 25 C) (Fld)	4929	4275	4003	3575	3994
SC (umhos/cm at 25 C)	4350	4010	4050	3530	3870
Total Suspended Solids	<10	<10	16	22	26
TDS (Measured at 180 C)	3320	2900	2850	2570	2860
Water Temperature (C) (Fld)	25.07	16	11.8	10	17.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-27	DH-27	DH-27	DH-27	DH-27	DH-27
Water	SAMPLE DATE	6/9/1987	6/9/1987	8/17/1987	11/23/1987	5/3/1988	12/20/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	CHMTC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8706-22	87-4199	87-6874	87-10787	88-3209	89-42
	SAMPLE NUMBER	AEH-8706-22	AEH-8706-22	AEH-8708-14	AEH-8711-242	AEH-8804-325	AEH-8812-144
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS	Split					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		110	92	131	82	
Calcium (Ca) (DIS)	174	161	136.5	162	70	
Carbonate As CO3		<1	<1	<1	<1	
Chloride (Cl)	210	8 M	160	189	82	98
Magnesium (Mg) (DIS)	47.2	46.5	35.5	44.2	21	
Potassium (K) (DIS)	35.8	36	36	44	32	
Sodium (Na) (DIS)	628	680	670	700	445	
Sulfate (SO4)	1798.3	1788 M	1540 M	1930	1064 J	1750

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	5	49.5 M	36.8	49.8	29.8	24.1
Arsenic III (dis)		50 M	51.3	45.6	28.6	22
Arsenic V (dis)		0.3	0.9	1.6	2.2	0.1
Cadmium (Cd) (DIS)	0.006	<0.002 M	0.001	0.003	0.001	0.005
Copper (Cu) (DIS)	<0.02	0.01 M	<0.008	0.008		0.009
Iron (Fe +2) (TOT)		60.8	38.9	51.5	19.8	28.5
Iron (Fe) (DIS)	51.9	43.3	24.3	28.8	12.8	
Lead (Pb) (DIS)	<0.03	<0.005	0.01	<0.005	0.02	0.05
Manganese (Mn) (DIS)	16.1	18	10.8	13		
Zinc (Zn) (DIS)	8.3	7.2	3.7 M	2.9	1.2	1.04

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		3.1	5.5	1	1.4	2.1
pH		6.7	6.5	7.2	7.2	6
Water Elevation (ft) (Fld)		3894.01	3894.81	3894.01	3893.01	3894.21
Depth To Water Level (ft)		14.8	14	14.8	15.8	14.6
pH (Fld)		5.9	6.07	6.3	6.4	5.8
SC (umhos/cm at 25 C) (Fld)		4109	3571	4217	2613	3791
SC (umhos/cm at 25 C)		4300	3600	4300	2650	3500
Total Suspended Solids				38.7		
TDS (Measured at 180 C)	3265	3616	2777 M	3161 J	1989 J	2682
Water Temperature (C) (Fld)		11.5	12.2	10.2	8.8	10.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-27	DH-27	DH-27	DH-27	DH-27	DH-27
Water	SAMPLE DATE	4/20/1989	10/23/1989	4/29/1990	12/5/1990	5/9/1991	5/9/1991
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-512	89-836	90-1058	90-2262	91-2818	91-2815
	SAMPLE NUMBER	AEH-8904-223	AEH-8910-423	AEH-9005-423	AEH-9011-727	AEH-9105-152	AEH-9105-163
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	160	745	235	415 J	221	210
	Sulfate (SO4)	1158	3200	1606	2148 J	1518	1516
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	15	25.9 J	32.5	56.1	31	33.1
	Arsenic III (dis)	12.5 J	26.5	28	46	33 J	28 J
	Arsenic V (dis)	1.08	0.2 J	3.4	0.3	1.2 J	2.5 J
	Cadmium (Cd) (DIS)	<0.002 UJ	0.003	0.002	0.02	0.003	0.004
	Copper (Cu) (DIS)	<0.008 J	<0.008	0.008	<0.008	0.006 U	0.009 U
	Iron (Fe +2) (TOT)	14.2					
	Lead (Pb) (DIS)	<0.02	<0.03 UJ	<0.005 UJ	<0.005 UJ	0.01	0.02
	Zinc (Zn) (DIS)	0.6	2.6 J	0.7		0.9	1
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	2.8	1.6	2	1.9	3	3
	pH	6.3	6.2	6.7	4.2	6.7	6.7
	Water Elevation (ft) (Fld)	3895.31	3895.41	3892.78	3894.21	3894.91	3894.91
	Depth To Water Level (ft)	13.5	13.4	16.03	14.6	13.9	13.9
	pH (Fld)	6.5	6.05	6.2	6.2	6.3	6.3
	SC (umhos/cm at 25 C) (Fld)	3088	8108	3933	5047	3664	3762
	SC (umhos/cm at 25 C)	2550	8300	3900	5500	3750	3750
	TDS (Measured at 180 C)	2568	6273 J	2885	3946 J	2761 J	2715 J
	Water Temperature (C) (Fld)	6.7	13.3	8.8	11.7	11.2	11.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-27	DH-27	DH-27	DH-27	DH-27	DH-27
Water	SAMPLE DATE	11/19/1991	4/28/1992	11/19/1992	5/5/1993	11/11/1993	5/16/1994
	SAMPLE TIME	15:30	12:30	15:15	15:40	11:00	10:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	91-3874	92-4359	92-6811	93-7830	93-9226	94-1454
	SAMPLE NUMBER	AEH-9111-323	AEH-9204-107	EHC-9211-152	EHC-9305-156	EHC-9311-121	EHC-9405-184
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Calcium (Ca) (Dis)			271 J	236		
	Chloride (Cl)	174 J	108 J	315	273	344 J	101
	Magnesium (Mg) (Dis)			70	61		
	Potassium (K) (Dis)			44	40		
	Sodium (Na) (Dis)			629	532		
	Sulfate (SO4)	1568	816	1922	1361	2386 J	532
	Total Hardness As CaCO3				840		
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	25.9	20.7	30	145	120 J	97.5
	Arsenic III (dis)	27	17.2	28.2	113	148 J	90.5 J
	Arsenic V (dis)	2.8	2.1	0.9 J	6.8	10.6	1.7 J
	Cadmium (Cd) (DIS)	0.003	0.004	0.003	0.002	<0.002	0.01
	Copper (Cu) (DIS)	0.004	<0.004	<0.004	<0.004	<0.004	<0.004
	Lead (Pb) (DIS)	0.007	<0.005	<0.005	0.006	<0.005	<0.005 J
	Zinc (Zn) (DIS)	1	0.6	6.1	9.8	12.3	1.4
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	2.2	1	2.6	2.2	2.9	2.1
	pH	6.3	5.2	4.5			
	Water Elevation (ft) (Fld)	3896.21	3897.11	3897.11	3898.21	3897.11	3896.21
	Depth To Water Level (ft)	12.6	11.7	11.7	10.6	11.7	12.6
	pH (Fld)	5.8	6.2	6	6.03	5.3	6.5
	SC (umhos/cm at 25 C) (Fld)	3320	3080	4385	3445	4410	2220
	SC (umhos/cm at 25 C)	3420	2960	4650	3300	5080 J	2390 J
	TDS (Measured at 180 C)	2512 J	2116	3560	2961	4224	1798
	Water Temperature (C) (Fld)	12.7	11.4	10.8	9.5	9.2	10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-27	DH-27	DH-27	DH-27	DH-27	DH-27
Water	SAMPLE DATE	5/16/1994	11/16/1994	5/15/1995	11/9/1995	5/10/1996	11/11/1996
	SAMPLE TIME	13:00	16:15	15:20	19:00	18:10	15:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1453	94-3390	95-4517	95-6118	96-6780	96-7776
	SAMPLE NUMBER	EHC-9405-126	EHC-9411-126	EHC-9505-126	EHC-9511-128	EHC-9605-115	EHC-9611-115
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	99	208	177	189 J	280	102
	Sulfate (SO4)	514	1330	896	1086 J	1255	1219
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	105	49.2 J	31.6	51.04	26.9	31.4
	Arsenic III (dis)	89.9 J	40.3	31.4	49.2 J	29.4 J	27.6
	Arsenic V (dis)	0.008 J	7.8 J	5	4.5 J	2.2 J	1.8
	Cadmium (Cd) (DIS)	0.01 U	<0.004	0.005	0.004	<0.005	<0.001
	Copper (Cu) (DIS)	<0.004	0.004	0.005	<0.004	<0.004	0.05
	Lead (Pb) (DIS)	<0.005 J	<0.005 J	<0.005	<0.005 J	<0.005	<0.005
	Zinc (Zn) (DIS)	1.6	0.6	1.04	5.1	1.9	1.6
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	2.1	2.7	3.5	2.8	2.5	3.2
	pH		6	6.3	3.7 J	6	5.9
	Water Elevation (ft) (Fld)	3896.21	3896.01	3896.76	3898.01	3896.61	3895.91
	Depth To Water Level (ft)	12.6	12.8	12.05	10.8	12.2	12.9
	pH (Fld)	6.5	6.1	6.8	6	6.7	6.4
	SC (umhos/cm at 25 C) (Fld)	2260	3490	2270	2630	3200	2760
	SC (umhos/cm at 25 C)	2360 J	3310	2320 J	2860 J	2980	2400
	TDS (Measured at 180 C)	1776	2507 J	1600 J	2116	2345	1934
	Water Temperature (C) (Fld)	10	10.3	9	9.6	8	9.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-27	DH-27	DH-27	DH-27	DH-27	DH-27
Water	SAMPLE DATE	5/8/1997	11/11/1997	11/12/1997	5/11/1998	11/20/1998	5/11/1999
	SAMPLE TIME	12:35	14:15	13:10	13:00	12:45	16:40
	LAB	TSC-SLC	TSC-SLC	HYDRO	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	97-941	192-2749	9711-161	262-3792	314-4468	347-4904
	SAMPLE NUMBER	EHC-9705-114	EHC-9711-115	EHC-9711-161	EHC-9805-116	EHC-9811-115	EHC-9905-115
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)				66 J	107	113 J
Calcium (Ca) (DIS)				78	54	45
Carbonate As CO3						<1 UJ
Chloride (Cl)	438	108		104	70	63
Magnesium (Mg) (DIS)				15	10	8.8
Potassium (K) (DIS)				41	45	32
Sodium (Na) (DIS)				308	271	238
Sulfate (SO4)	1680	1301		745	656	470 J
Total Alkalinity As CACO3				54 J	88	93 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	24.2	19.3		19.9	16.5	17.05
Arsenic III (dis)	22.6	18.9		18.04 J	17.5	19.2
Arsenic V (dis)	0.7 J	2.5 J		0.2	0.2	0.2
Cadmium (Cd) (DIS)	<0.001	<0.001		<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.006	<0.004		<0.004	<0.004	<0.004
Iron (Fe) (DIS)				9.06	5	4.6
Lead (Pb) (DIS)	<0.005	<0.005		<0.005	<0.005	<0.005
Manganese (Mn) (DIS)				5.8	3.3	2.9
Zinc (Zn) (DIS)	4.7	2.1		0.5	0.09	0.06

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.9	1.9		2.08	1.3	1.5
pH	6	5.7		6.4	6.6	7.3
Water Elevation (ft) (Fld)	3895.11	3900.11	3900.11	3895.41	3895.91	3895.01
Depth To Water Level (ft)	13.7	8.7	8.7	13.4	12.9	13.8
Eh (millivolts)					118	272
pH (Fld)	6.8	6.3		6.3	7.3	6.4
SC (umhos/cm at 25 C) (Fld)	4150	2650		1876	1728	1424
SC (umhos/cm at 25 C)	4190	2700		2010	1745	1446
Total Suspended Solids		35				
TDS (Measured at 180 C)	3453	2051		1376	1175	987
Water Temperature (C) (Fld)	9.4	9.4		12.1	10.5	10.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-27	DH-27	DH-27	DH-27	DH-27	DH-27
Water	SAMPLE DATE	11/12/1999	5/8/2000	11/13/2000	5/11/2001	11/11/2001	6/1/2002
	SAMPLE TIME	15:00	13:40	11:40	10:25	15:20	08:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L992007012	L000705019	L001897017	L010691023	L011564003	L020412023
	SAMPLE NUMBER	EHC-9911-128	EHC-0005-127	EHC-0011-128	EHC-0105-129	EHC-0111-127	EHC-0205-132
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	94	107	146	156	168	217
Calcium (Ca) (DIS)	135	102	269	188	139	76
Carbonate As CO3	<1	<1	<1		10	<1
Chloride (Cl)	160	175	279	378	289	159
Magnesium (Mg) (DIS)	26	21	55	42	30	16
Potassium (K) (DIS)	50	35	54	58	52	33
Sodium (Na) (DIS)	378	292	502	556	474	383
Sulfate (SO4)	969	837	1884	1530	1114	781
Total Alkalinity As CaCO3	77	88	120	128	154	178

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			0.6	0.3	0.2	0.09 U
Arsenic (As) (DIS)	16	17	20	14	12	9.9
Arsenic III (dis)	17	16	19	17	10	7.9
Arsenic V (dis)	0.3	0.4	0.5	<0.005	2	1.7
Cadmium (Cd) (DIS)	<0.001	<0.001 J	0.002	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004 J	<0.004	<0.004 J	<0.004	0.006	<0.004
Iron (Fe) (DIS)	9 J	9	22	12	6.9	3.3
Lead (Pb) (DIS)	<0.005	<0.005	<0.005 J	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	7	7.2	22	13	8.6	3.8
Zinc (Zn) (DIS)	0.07 J	0.3 J	1	0.2	0.09	0.04

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					-48.6	12.9
Oxygen (O) (DIS) (Fld)	1.6	4.5	1.3	7.7	0.5	0.2
pH	6.6	6.5	6.6	7.3	8.6	6.9
Silicon+Silica (Si+SiO2)			17	17	16	13
Water Elevation (ft) (Fld)	3895.31	3893.11	3893.51	3892.91	3892.91	3891.91
Depth To Water Level (ft)	13.5	15.7	15.3	15.9	15.9	16.9
Eh (millivolts)	167	327	216	344	177	
pH (Fld)	6.7	6.3	6.4	6.7	7.05	6.3
SC (umhos/cm at 25 C) (Fld)	2510	2314	5010	3160	3100	2230
SC (umhos/cm at 25 C)	2500	2350	4150	3500	3000	2130
Total Suspended Solids	4 UJ			19	13 J	10
TDS (Measured at 180 C)	2095 J	1600	3444	2603	2156 J	1430
Water Temperature (C) (Fld)	12.4	10.2	10.9	10.6	11.6	12.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-27	DH-27	DH-27	DH-27	DH-27	DH-27
Water	SAMPLE DATE	6/1/2002	11/18/2002	6/1/2003	10/26/2003	10/26/2003	5/27/2004
	SAMPLE TIME	08:15	08:30	09:20	12:30	12:45	14:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI
	LAB NUMBER	L020412024	L020959002	L030244003	L030600007	L030600008	H04050208-015
	SAMPLE NUMBER	EHC-0205-235	EHC-0211-130	AEH-0306-142	AEH-0310-365	AEH-0310-366	AEH-0405-213
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	217	212	235	229	228	270
Calcium (Ca) (DIS)	72	88	59	81	79	58
Carbonate As CO3	<1	<1	<2	<2	<2	
Chloride (Cl)	161	148	94	84	82	65
Magnesium (Mg) (DIS)	16	18	13	17	17	12
Potassium (K) (DIS)	33	37	30	34	33	27
Sodium (Na) (DIS)	406	337	265	330	314	260
Sulfate (SO4)	681	767	580	564	565	500
Total Alkalinity As CaCO3	178	174	193	188	187	220

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	0.1 U	0.1 J				
Arsenic (As) (DIS)	11	10	9.7	11	11	9.19
Arsenic III (dis)	8.3	11	6.8	11	11	<0.06 J
Arsenic V (dis)	2	<0.005	2.9	<0.02	<0.02	12
Cadmium (Cd) (DIS)	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	3.6	3.9	2.8	3.3	3.2	2.61
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.9	4.9 J	3.3	4.6	4.5	2.97
Zinc (Zn) (DIS)	0.04	0.06 UJ	0.05	0.04	0.05	0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		0.1	0.4	0.96		0.08
pH	7.2	7.2	7	7.4	7.3	7.2
Silicon+Silica (Si+SiO2)	14	13				
Water Elevation (ft) (Fld)		3892.81	3892.91	3892.36		3892.08
Depth To Water Level (ft)		16	15.9	16.45		16.73
pH (Fld)		5.9	6.1	6.69		7.04
SC (umhos/cm at 25 C) (Fld)		2080	1860	1820		1410
SC (umhos/cm at 25 C)	2130	2180	1845	1841	1850	1520
Total Suspended Solids	8.4	14	13	15	8.1	16
TDS (Measured at 180 C)	1428	1476	1249	1292	1274	1100
Salinity (G/KG) (Fld)		0.9	0.8	0.8		
Turbidity (NTU) (Fld)		7	1	1		
Water Temperature (C) (Fld)		10.6	8.9	10.8		9.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-27	DH-27	DH-27	DH-27	DH-27	DH-27
Water	SAMPLE DATE	11/2/2004	5/16/2005	11/18/2005	11/18/2005	5/10/2006	11/20/2006
	SAMPLE TIME	14:45	15:00	09:50	10:00	15:45	10:05
	LAB	ELI	ELI-Casper	ELI-Hel	ELI-Hel	ELI-Hel	ELI
	LAB NUMBER	H04110029-014	C05050640-011	H05110164-004	H05110164-005	H06050126-006	H06110166-002
	SAMPLE NUMBER	AEH-0411-198	AEH-0505-167	AEH-0511-211	AEH-0511-212	AEH-0605-220	AEH-0611-214
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION			No Fld SC			
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	260	272	240	240	260	230
Calcium (Ca) (DIS)	95	66	90	91	47	66
Chloride (Cl)	80	50	61	67	27	35
Magnesium (Mg) (DIS)	19	14	18	18	9	13
Potassium (K) (DIS)	37	28	37	37	23	30
Sodium (Na) (DIS)	286	263	365	374	209	243
Sulfate (SO4)	623	522	708	746	321	500
Total Alkalinity As CaCO3	220	223	200	200	210	190

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	10.12	8.78	8.5	8.5	8.5 J	8.52
Arsenic III (dis)	8.9	7.2	8.7	8.8	7	13.3
Arsenic V (dis)	1.6	0.1	0.04	0.04	<0.05	0.5 J
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	3.98	2.68	4.55	4.55	1.82	1.89
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	0.005
Manganese (Mn) (DIS)	4.81	2.76	4.21	4.2	2.17	3.24
Zinc (Zn) (DIS)	0.02	0.02	0.02	0.02	<0.02	0.03

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential						-51.7
Oxygen (O) (DIS) (Fld)	0.06	0.26	0.82		0.51	0.06
pH	7	7.41	7.8	7.2	7.2	6.9
Water Elevation (ft) (Fld)	3894.16	3892.03	3893.89		3892.83	3894.68
Depth To Water Level (ft)	14.65	16.78	14.92		15.98	14.13
pH (Fld)	6.67	6.83	6.65		6.77	6.75
SC (umhos/cm at 25 C) (Fld)	2138	1695			1293	1516
SC (umhos/cm at 25 C)	1900	1690	2150	2100	1270	1480
Total Suspended Solids	12 J	<10	11	11	<10 J	18
TDS (Measured at 180 C)	1430	1150	1560	1520	873	1040
TDS - Calculated		1090				
Water Temperature (C) (Fld)	10.9	9.4	12.1		10.04	10.81

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-27	DH-27	DH-27	DH-27	DH-27	DH-27
Water	SAMPLE DATE	11/20/2006	5/24/2007	10/4/2007	10/4/2007	12/13/2007	2/12/2008
	SAMPLE TIME	10:15	09:20	09:40	12:52	13:40	14:40
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110166-003	H07050291-001	H07100074-002	H07100074-001	H07120160-010	H08020090-007
	SAMPLE NUMBER	AEH-0611-215	AEH-0705-225	AEH-0710-122	AEH-0710-121	AEH-0711-258	AEH-0802-107
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	230	260	260	260		270
Bicarbonate (HCO3) (dis)					250	
Calcium (Ca) (DIS)	66	36	43	44	84	60
Chloride (Cl)	35	17	32	27	80	90
Magnesium (Mg) (DIS)	12	7	8	8	17	12
Potassium (K) (DIS)	31	20	24	24	34	26
Sodium (Na) (DIS)	246	154	196	192	390	377
Sulfate (SO4)	447	195	333	350	384	611
Total Alkalinity As CaCO3	190	210	210	210	200	220

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)					<0.005	
Selenium-VI (dis)					<0.005	
Arsenic (As) (DIS)	8.665	7.92	9.101	9	9.15	7.435
Arsenic (As) (TOT)			9.1	9.01	8.85	7.56
Arsenic III (DIS)	10.9	8.77	7.84	7.69	8.91 J	7.12
Arsenic V (DIS)	<0.1 J	0.437	0.526	0.618	3.55	0.36
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)			0.004 UJ	0.004	0.004	0.002
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)			0.007	<0.004	<0.004	0.004
Iron (Fe) (DIS)	1.96	1.06	1.36	1.32	2.6	1.91
Iron (Fe) (TOT)			1.34	1.41	2.65	1.97
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)			<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	3.23	1.76	2.24	2.2	4.53	3.04
Manganese (Mn) (TOT)			2.18	2.21	4.49	3.15
Selenium (Se) (DIS)			0.025	0.024	0.031	0.034
Selenium (Se) (TOT)			0.019	0.022	0.014	0.035
Zinc (Zn) (DIS)	0.04	0.05	0.04	0.03	0.04	0.03
Zinc (Zn) (TOT)			0.11	0.11 UJ	0.09	0.08

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		0.09		0.36	0.11	0.12
pH	6.9	7.2		7.2	7.3	7.5
Water Elevation (ft) (Fld)		3891.39		3893.33	3895.43	3894.86
Depth To Water Level (ft)		17.42		15.48	14.09	14.66
pH (Fld)		6.87		6.96	6.87	6.95
SC (umhos/cm at 25 C) (Fld)		1038		1163	2413	2167
SC (umhos/cm at 25 C)	1450	958	1290	1290	1990	1960

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-27	DH-27	DH-27	DH-27	DH-27	DH-27
Water	SAMPLE DATE	11/20/2006	5/24/2007	10/4/2007	10/4/2007	12/13/2007	2/12/2008
	SAMPLE TIME	10:15	09:20	09:40	12:52	13:40	14:40
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110166-003	H07050291-001	H07100074-002	H07100074-001	H07120160-010	H08020090-007
	SAMPLE NUMBER	AEH-0611-215	AEH-0705-225	AEH-0710-122	AEH-0710-121	AEH-0711-258	AEH-0802-107
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate			

**Physical/Fid-Lab: ppm unless noted**

Total Suspended Solids	18	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	1020	623	864	859	1520	1390
Water Temperature (C) (Fld)		9.07		10.75	9.8	9.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-27	DH-27	DH-27	DH-27	DH-27	DH-27
Water	SAMPLE DATE	5/13/2008	5/13/2008	7/17/2008	11/13/2008	11/13/2008	5/19/2009
	SAMPLE TIME	09:35	09:55	11:35	10:08	10:20	09:45
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08050222-009	H08050222-010	H08070356-007	H08110162-002	H08110162-003	H09050287-003
	SAMPLE NUMBER	AEH-0805-221	AEH-0805-222	AEH-0807-159	AEH-0811-238	AEH-0811-239	AEH-0905-256
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	260	260	260	260	260	260
Calcium (Ca) (DIS)	38	38	37	36	37	30
Chloride (Cl)	71	72	140	94	94	47
Magnesium (Mg) (DIS)	8	8	8	8	8	6
Potassium (K) (DIS)	21	21	17	26	27	27
Sodium (Na) (DIS)	336	343	354	363	374	337
Sulfate (SO4)	540	550	1200	600	610	540
Total Alkalinity As CaCO3	220	220	220	210	220	210

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005 J	<0.005 J		<0.005	<0.005	
Selenium-VI (DIS)	<0.005 J	<0.005 J		<0.005	<0.005	
Aluminum (Al) (DIS)	<0.1	<0.1		<0.1	<0.1	<0.1
Aluminum (Al) (TOT)	<0.1	<0.1				
Antimony (Sb) (DIS)	0.007	0.007		<0.005	<0.005	0.007
Antimony (Sb) (TOT)	0.008	0.009				
Arsenic (As) (DIS)	6.16	6.455	7.06	8.04	8.17	8.2
Arsenic (As) (TOT)	6.51	6.58	7.08			
Arsenic III (DIS)	6.47	6.12	6.32	6.48 J	7.87	
Arsenic V (DIS)	0.123	0.121	0.202	3.59 J	1.19 J	
Barium (Ba) (DIS)	<0.1	<0.1		<0.1	<0.1	<0.1
Barium (Ba) (TOT)	<0.1	<0.1				
Beryllium (Be) (DIS)	<0.001	<0.001		<0.001	<0.001	<0.001
Beryllium (Be) (TOT)	<0.001	<0.001				
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	0.006
Cadmium (Cd) (TOT)	0.002	0.002	<0.001			
Chromium (Cr) (DIS)	<0.001	<0.001		<0.001	<0.001	<0.001
Chromium (Cr) (TOT)	<0.001	<0.001				
Cobalt (Co) (DIS)	<0.01	<0.01		<0.01	<0.01	0.0016
Cobalt (Co) (TOT)	<0.01	<0.01				
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.001
Copper (Cu) (TOT)	<0.004	<0.004	<0.004			
Gold (Au) (DIS)						0.01
Iron (Fe) (DIS)	1.52	1.52	1.88	1.43	1.46	1.85
Iron (Fe) (TOT)	1.53	1.57	1.75			
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	<0.005	<0.005	<0.005			
Manganese (Mn) (DIS)	2.01	2.01	1.68	1.94	1.96	1.68
Manganese (Mn) (TOT)	1.96	1.95	1.79			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-27	DH-27	DH-27	DH-27	DH-27	DH-27
Water	SAMPLE DATE	5/13/2008	5/13/2008	7/17/2008	11/13/2008	11/13/2008	5/19/2009
	SAMPLE TIME	09:35	09:55	11:35	10:08	10:20	09:45
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08050222-009	H08050222-010	H08070356-007	H08110162-002	H08110162-003	H09050287-003
	SAMPLE NUMBER	AEH-0805-221	AEH-0805-222	AEH-0807-159	AEH-0811-238	AEH-0811-239	AEH-0905-256
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	

**Metals (mg/L): ppm unless noted**

Mercury (Hg) (DIS)	<0.006	<0.006		<0.006	<0.006	0.0003
Mercury (Hg) (TOT)	<0.006	<0.006				
Nickel (Ni) (DIS)	<0.01	<0.01		<0.01	<0.01	<0.01
Nickel (Ni) (TOT)	<0.01	<0.01				
Selenium (Se) (DIS)	0.022 J	0.05 J	0.034	0.059	0.062	0.043
Selenium (Se) (TOT)	0.042	0.04	0.034			
Silver (Ag) (DIS)	<0.005	<0.005		<0.005	<0.005	<0.005
Silver (Ag) (TOT)	<0.005	<0.005				
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)	<0.002	<0.002		<0.002	<0.002	<0.001
Thallium (Tl) (TOT)	<0.002	<0.002				
Vanadium (V) (DIS)	<0.01	<0.01		<0.01	<0.01	<0.01
Vanadium (V) (TOT)	<0.01	<0.01				
Zinc (Zn) (DIS)	0.02	0.02	0.05	0.02	0.02	0.06
Zinc (Zn) (TOT)	0.04	0.04	0.02			

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.22		0.2	0.27		0.23
pH	7	7.1	7.4	7.2	7.3	7.4
Water Elevation (ft) (Fld)	3894.41		3895.91			
Depth To Water Level (ft)	15.11		13.61	14		14.38
pH (Fld)	6.91		6.2	6.8		6.98
SC (umhos/cm at 25 C) (Fld)	1830		1942	1998		1702
SC (umhos/cm at 25 C)	1760	1770	1810	1940	1910	1720
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	1200	1200	1250	1270	1290	1130
Water Temperature (C) (Fld)	9.6		15.6	10.63		11.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-30	DH-30	DH-30	DH-30	DH-30	DH-30
Water	SAMPLE DATE	12/17/1999	4/26/2000	11/16/2000	5/2/2001	11/8/2001	5/30/2002
	SAMPLE TIME	12:15	16:50	11:00	14:30	11:25	16:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L992165001	L000631001	L001922001	L010608012	L011535002	L020397008
	SAMPLE NUMBER	IMMW-9912-100	IMMW-0004-100	IMMW-0011-100	EHC-0105-133	EHC-0111-131	EHC-0205-136
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	576	326	329	317	304	306
Calcium (Ca) (DIS)	335	39	239	89	93	48
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Chloride (Cl)	655	265	452	324	368	212
Magnesium (Mg) (DIS)	53	5.4	42	17	17	8.1
Potassium (K) (DIS)	242	119	276	196	244	96
Sodium (Na) (DIS)	2011	878	2185	1239	1520	914
Sulfate (SO4)	4428	1766	4577	2639	2836	1610
Total Alkalinity As CaCO3	226	267	270	260	249	251

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.03 J	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	12	31	20	19	14	16
Arsenic III (dis)	0.1 U	0.04 J	0.8 U	13	5.8	2.4
Arsenic V (dis)	11	29	19	5.7	8.2	14
Cadmium (Cd) (DIS)	12	1.3	15	2.3	2.2	0.8
Copper (Cu) (DIS)	0.008	<0.004 J	0.02 J	<0.004	0.005	0.01
Iron (Fe) (DIS)	2.3	<0.02	1.3	0.9	0.8	0.7
Lead (Pb) (DIS)	<0.005	<0.005	0.006	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	17	2.5	13 J	5.9	7.4	3.1
Zinc (Zn) (DIS)	3.5	0.5	5.8	1.3	1.2	0.4

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					-41.1	2.6
Oxygen (O) (DIS) (Fld)	1.8	4		1.6	0.3	0.2
pH	7.4	7.7	7.3	8	7.5	7.6
Silicon+Silica (Si+SiO2)			28	24	24	21
Water Elevation (ft) (Fld)		3893.41	3893.71	3893.21	3893.11	3892.21
Depth To Water Level (ft)		18.2	17.9	18.4	18.5	19.4
Eh (millivolts)	158 J	207	176.4	160	210	
pH (Fld)	6.7	7.3	7.2	5.9	7.4	6.8
SC (umhos/cm at 25 C) (Fld)	9810	4361	8680	5890	5520	4410
SC (umhos/cm at 25 C)	10040	4480	10540	6480	6720	3920
Total Suspended Solids				257	172	57 J
TDS (Measured at 180 C)	8305	3200	8816	4940	5021	2789
Turbidity (NTU) (Fld)	18.4	27				
Water Temperature (C) (Fld)	13.8	15.5	15.9	14.2	14	10.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-30	DH-30	DH-30	DH-30	DH-30	DH-30
Water	SAMPLE DATE	11/15/2002	11/15/2002	6/1/2003	10/26/2003	5/27/2004	11/3/2004
	SAMPLE TIME	13:15	13:30	08:45	12:00	13:35	14:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	L020950012	L020950013	L030244002	L030600006	H04050208-014	H04110037-019
	SAMPLE NUMBER	EHC-0211-134	EHC-0211-243	AEH-0306-141	AEH-0310-364	AEH-0405-212	AEH-0411-222
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	300	310	334	316	330	300
Calcium (Ca) (DIS)	127	128	82	49	41	117
Carbonate As CO3	<1	<1	<2	<2		
Chloride (Cl)	300 J	717 J	213	19	110	200
Magnesium (Mg) (DIS)	23	23	16	9.6	7	19
Potassium (K) (DIS)	200	200	135	102	78	125
Sodium (Na) (DIS)	1284	1148	856	757	511	873
Sulfate (SO4)	2649	2876	1873	1139	920	2210
Total Alkalinity As CaCO3	246	254	274	259	270	250

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05				
Arsenic (As) (DIS)	8.3	8.5	12	19	11.1	5.445
Arsenic III (dis)	4.3	4.4	9.4	10	<0.06 J	2.2
Arsenic V (dis)	5.7	5.6	2.6	7	15	3.3
Cadmium (Cd) (DIS)	0.7	0.8	1.7	0.7	0.346	0.11
Copper (Cu) (DIS)	0.02 UJ	0.01 UJ	0.01	<0.004	<0.004	0.007
Iron (Fe) (DIS)	1	1	1	0.3	0.86	10.52
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	9.6	9.8	5.6	3.5	2.73	7.02
Zinc (Zn) (DIS)	0.7	0.7	1.1	0.5	0.23	0.12

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3		0.3	0.91	0.17	0.06
pH	7.5	7.4	7.4	7.6	7.4	7.1
Silicon+Silica (Si+SiO2)	23	22				
Water Elevation (ft) (Fld)	3893.21		3893.21	3892.77	3892.5	3894.42
Depth To Water Level (ft)	18.4		18.4	18.84	19.11	17.19
pH (Fld)	6.6		6.06	6.96	7.03	7.83
SC (umhos/cm at 25 C) (Fld)	7870		4760	3300	3370	5027
SC (umhos/cm at 25 C)	6160	6780	4640	3390	2820	4340
Total Suspended Solids	48 J	103 J	12	2.2	20	58
TDS (Measured at 180 C)	6286 J	5111 J	3383	2415	2090	3540
Salinity (G/KG) (Fld)	3.9		2.4	1.6		
Turbidity (NTU) (Fld)	303		6	21		
Water Temperature (C) (Fld)	12.2		9.5	11.8	9.6	11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-30	DH-30	DH-30	DH-30	DH-30	DH-30
Water	SAMPLE DATE	5/19/2005	11/18/2005	5/10/2006	11/20/2006	5/18/2007	12/13/2007
	SAMPLE TIME	11:40	09:40	15:15	09:30	09:25	13:00
	LAB	ELI-Casper	ELI-Hel	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	C05050744-007	H05110164-003	H06050126-005	H06110166-001	H07050219-004	H07120160-009
	SAMPLE NUMBER	AEH-0505-207	AEH-0511-210	AEH-0605-219	AEH-0611-213	AEH-0705-178	AEH-0711-257
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)		342	360	310	440	290	
Bicarbonate (HCO3) (dis)							270
Calcium (Ca) (DIS)		52	69	37	171	26	130
Chloride (Cl)		94	117	90	130	50	195
Magnesium (Mg) (DIS)		6	7	4	8	4	21
Potassium (K) (DIS)		81	93	64	132	53	79
Sodium (Na) (DIS)		598	782	496	983	477	468
Sulfate (SO4)		1080	1390	812	2290	734	942
Total Alkalinity As CaCO3		280	290	250	360	230	220
<b>Metals (mg/L): ppm unless noted</b>							
Selenium-IV (dis)							0.094
Selenium-VI (dis)							1.2
Arsenic (As) (DIS)		18.3	15.9	18.3 J	40.59	20.24	12.8
Arsenic (As) (TOT)							16.5
Arsenic III (dis)		4.1	3.2	0.2	<0.6	5.12 J	12.8 J
Arsenic V (dis)		16.1	12	16.6	33.5	5.19 J+	5.68
Cadmium (Cd) (DIS)		0.07	0.018	0.128	0.013	0.089	5.92
Cadmium (Cd) (TOT)							7.13
Copper (Cu) (DIS)		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)							0.078
Iron (Fe) (DIS)		0.1	5.11	1.1	7.61	0.51	0.96
Iron (Fe) (TOT)							7.74
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	0.009	0.017	<0.005
Lead (Pb) (TOT)							0.619
Manganese (Mn) (DIS)		2.45	3.2	1.94	6.01	1.99	7.29
Manganese (Mn) (TOT)							7.26
Selenium (Se) (DIS)							1.392
Selenium (Se) (TOT)							1.27
Zinc (Zn) (DIS)		0.05	0.03	0.11	0.25	0.13	3.6
Zinc (Zn) (TOT)							4.11
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxidation Reduction Potential					-90.2		
Oxygen (O) (DIS) (Fld)		0.34	0.9	0.56	0.29	4.12	0.22
pH		7.35	7.2	7.5	6.8	7.5	7.2
Water Elevation (ft) (Fld)		3892.44	3894.11	3893.19	3895.31	3891.71	3896.14
Depth To Water Level (ft)		19.17	17.5	18.42	16.3	19.9	14.89
pH (Fld)		6.73	6.66	6.88	6.71	6.97	7.15
SC (umhos/cm at 25 C) (Fld)		3671	4130	2650	5548	3026 A	3328
SC (umhos/cm at 25 C)		3490	3930	2550	5250	2040	2690

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-30	DH-30	DH-30	DH-30	DH-30	DH-30
Water	SAMPLE DATE	5/19/2005	11/18/2005	5/10/2006	11/20/2006	5/18/2007	12/13/2007
	SAMPLE TIME	11:40	09:40	15:15	09:30	09:25	13:00
	LAB	ELI-Casper	ELI-Hel	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	C05050744-007	H05110164-003	H06050126-005	H06110166-001	H07050219-004	H07120160-009
	SAMPLE NUMBER	AEH-0505-207	AEH-0511-210	AEH-0605-219	AEH-0611-213	AEH-0705-178	AEH-0711-257
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Total Suspended Solids	14	25	10 J	120	16	84
	TDS (Measured at 180 C)	2370	2900	1850	4220	1470	2130
	TDS - Calculated	2100					
	Water Temperature (C) (Fld)	9.12	11.88	9.61	10.31	9.77	9.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-30	DH-30	DH-30	DH-30	DH-30
Water	SAMPLE DATE	2/12/2008	5/13/2008	7/17/2008	11/13/2008	5/19/2009
	SAMPLE TIME	15:15	11:10	13:20	09:23	10:15
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08020090-008	H08050222-013	H08070368-001	H08110162-001	H09050287-004
	SAMPLE NUMBER	AEH-0802-108	AEH-0805-225	AEH-0807-160	AEH-0811-237	AEH-0905-257
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	240	260	180	270	260
Calcium (Ca) (DIS)	62	52	86	65	56
Chloride (Cl)	105	100	150	110	56
Magnesium (Mg) (DIS)	9	7	11	7	6
Potassium (K) (DIS)	48	46	66	72	62
Sodium (Na) (DIS)	354	337	395	399	346
Sulfate (SO4)	638	610	810	760	670
Total Alkalinity As CaCO3	190	210	150	220	210

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		0.129 J		0.006	
Selenium-VI (DIS)		0.0538 J		0.205	
Aluminum (Al) (DIS)		<0.1		<0.1	<0.1
Aluminum (Al) (TOT)		8.6			
Antimony (Sb) (DIS)		0.083		0.067	0.077
Antimony (Sb) (TOT)		0.095			
Arsenic (As) (DIS)	13.63	13.7	14.24	18.9	16.5
Arsenic (As) (TOT)	26.4	28.5	15		
Arsenic III (DIS)	2.57	0.651	6.22	9.34 J	
Arsenic V (DIS)	15.3	13.7	8.61	13.8 J	
Barium (Ba) (DIS)		<0.1		<0.1	<0.1
Barium (Ba) (TOT)		0.1			
Beryllium (Be) (DIS)		<0.001		<0.001	<0.001
Beryllium (Be) (TOT)		0.001			
Cadmium (Cd) (DIS)	1.048	0.427	0.827 J	0.399	0.31
Cadmium (Cd) (TOT)	5.44	4.92	1.06		
Chromium (Cr) (DIS)		<0.001		<0.001	0.002
Chromium (Cr) (TOT)		0.013			
Cobalt (Co) (DIS)		<0.01		<0.01	0.0039
Cobalt (Co) (TOT)		<0.01			
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.001
Copper (Cu) (TOT)	0.177	0.178	0.008		
Gold (Au) (DIS)					0.01
Iron (Fe) (DIS)	0.86	0.54	1.65	2.49	1.83
Iron (Fe) (TOT)	17.9	19.2	2.21		
Lead (Pb) (DIS)	<0.005	<0.005	<0.005 J	<0.005	<0.005
Lead (Pb) (TOT)	1.51	1.41	0.066 J		
Manganese (Mn) (DIS)	2.92	2.03	2.68 J	2.06	1.76
Manganese (Mn) (TOT)	3.27	2.67	2.98		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-30	DH-30	DH-30	DH-30	DH-30
Water	SAMPLE DATE	2/12/2008	5/13/2008	7/17/2008	11/13/2008	5/19/2009
	SAMPLE TIME	15:15	11:10	13:20	09:23	10:15
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08020090-008	H08050222-013	H08070368-001	H08110162-001	H09050287-004
	SAMPLE NUMBER	AEH-0802-108	AEH-0805-225	AEH-0807-160	AEH-0811-237	AEH-0905-257
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS					

### Metals (mg/L): ppm unless noted

Mercury (Hg) (DIS)		<0.006		<0.006	0.001
Mercury (Hg) (TOT)		<0.006			
Nickel (Ni) (DIS)		<0.01		<0.01	<0.01
Nickel (Ni) (TOT)		0.01			
Selenium (Se) (DIS)	0.393	0.274	0.348 J	0.219	0.14
Selenium (Se) (TOT)	0.504	0.564	0.323		
Silver (Ag) (DIS)		<0.005		<0.005	<0.005
Silver (Ag) (TOT)		0.009			
Tellurium (Te) (DIS)					<0.1
Thallium (Tl) (DIS)		0.052		0.043	0.028
Thallium (Tl) (TOT)		0.231			
Vanadium (V) (DIS)		0.02		0.01	0.01
Vanadium (V) (TOT)		0.04			
Zinc (Zn) (DIS)	0.79	0.35	0.57	0.34	0.24
Zinc (Zn) (TOT)	2.48	2.05	0.65		

### Physical/Fld-Lab: ppm unless noted

Oxygen (O) (DIS) (Fld)	0.17	0.22	0.16	0.42	0.15
pH	7.7	5.7	7.3	7.4	7.6
Water Elevation (ft) (Fld)	3895.17	3895.13	3897.5		
Depth To Water Level (ft)	15.86	15.9	13.53	14.95	15.12
pH (Fld)	6.96	6.68	6.95	6.76	7.24
SC (umhos/cm at 25 C) (Fld)	2336	2078	2732	2501	2155
SC (umhos/cm at 25 C)	2040	1870	2380	2270	2030
Total Suspended Solids	182	250 J+	17 J+	157	15
TDS (Measured at 180 C)	1460	1320	1770	1570	1380
Water Temperature (C) (Fld)	8.2	13	13.83	11.65	13.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-31	DH-31	DH-31	DH-31	DH-31	DH-31
Water	SAMPLE DATE	12/17/1999	4/26/2000	11/16/2000	5/2/2001	11/11/2001	6/1/2002
	SAMPLE TIME	09:20	15:00	09:00	12:00	14:40	09:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L992165002	L000631008	L001922002	L010608014	L011564005	L020412027
	SAMPLE NUMBER	IMMW-9912-101	IMMW-0004-101	IMMW-0011-101	EHC-0105-134	EHC-0111-132	EHC-0205-137
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	251	293	327	318	349	467
Calcium (Ca) (DIS)	168	179	124	118	144	125
Carbonate As CO3	<1	<1	<1	<1	<1	<1
Chloride (Cl)	538	489	229	232	278	184
Magnesium (Mg) (DIS)	33	28	19	19	21	27
Potassium (K) (DIS)	211	319	278	252	357	207
Sodium (Na) (DIS)	773	697	617	482	674	836
Sulfate (SO4)	1660	1777	1239	1348	1498	1332
Total Alkalinity As CaCO3		240	268	261	286	383

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.03 J	<0.05	<0.05	<0.05
Arsenic (As) (DIS)	26	15	12	9.1	10	27
Arsenic III (dis)	30	13	12	9.5	13	20
Arsenic V (dis)	0.6	0.4	0.2	<0.005	<0.005	4
Cadmium (Cd) (DIS)	0.001	<0.001	0.003	<0.001	<0.001	0.001
Copper (Cu) (DIS)	<0.004	<0.004 J	0.01 J	<0.004	0.006	<0.004
Iron (Fe) (DIS)	1.5	1.6	3.3	6.4	1.8	1.3
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	4.2	6.6	6.2 J	6.9	7.6	7.9
Zinc (Zn) (DIS)	<0.02	0.04	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					-80	-22.7
Oxygen (O) (DIS) (Fld)	2.5	5.5	1.6	1.6	0.2	1.7
pH	7.4	7.6	7.5	8.2	8	7.5
Silicon+Silica (Si+SiO2)			28	26	30	23
Water Elevation (ft) (Fld)	3888.32	3886.22	3887.02	3886.52	3885.72	3883.62
Depth To Water Level (ft)	22.6	24.7	23.9	24.4	25.2	27.3
Eh (millivolts)	96 J	186	74.3	103	145	
pH (Fld)	7.5	7.07	7.2	6.8	7.8	7.3
SC (umhos/cm at 25 C) (Fld)	4260	4782	3450	3550	3480	4150
SC (umhos/cm at 25 C)	4800	4780	4090	3780	4060	3820
Total Suspended Solids				179	32 J	11
TDS (Measured at 180 C)	3518	3615	3077	2782	3049 J	2794
Turbidity (NTU) (Fld)	17.1	112				
Water Temperature (C) (Fld)	15.2	16.6	15.7	14.1	15.7	13.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-31	DH-31	DH-31	DH-31	DH-31	DH-31
Water	SAMPLE DATE	11/18/2002	6/1/2003	10/26/2003	5/28/2004	11/3/2004	5/20/2005
	SAMPLE TIME	09:45	12:00	15:30	10:15	16:05	11:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper
	LAB NUMBER	L020959005	L030244010	L030600015	H04050224-004	H04110037-023	C05050789-006
	SAMPLE NUMBER	EHC-0211-135	AEH-0306-150	AEH-0310-374	AEH-0405-224	AEH-0411-226	AEH-0505-224
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	353	366	357	600	380	556
Calcium (Ca) (DIS)	155	93	105	68	59	61
Carbonate As CO3	<1	<2	<2			
Chloride (Cl)	223	107	136	44	80	15
Magnesium (Mg) (DIS)	27	19	19	16	12	12
Potassium (K) (DIS)	232	113	160	71	100	76
Sodium (Na) (DIS)	573	406	536	486	400	367
Sulfate (SO4)	1495	917	948	880 J	705	559
Total Alkalinity As CaCO3	289	300	293	490	310	456

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05 J					
Arsenic (As) (DIS)	16	28	21	33.6	22.23	20.6
Arsenic III (dis)	17	25	18	28	1	17.9
Arsenic V (dis)	<0.005	2	<0.02	9.4	19	0.6 J
Cadmium (Cd) (DIS)	0.001	<0.001	0.002	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	0.005	<0.004	<0.004 J	<0.004	<0.004
Iron (Fe) (DIS)	18	15	16	7.15	5.82	1.52
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	0.005	<0.005
Manganese (Mn) (DIS)	10 J	7.4	7.2	5.04	3.23	2.41
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.2	0.1	0.94	0.75	0.04	0.15
pH	6.9	7.8	7.5	7.8	7.5	7.61
Silicon+Silica (Si+SiO2)	22					
Water Elevation (ft) (Fld)	3885.72	3886.62	3885.18	3887.04	3885.1	3884.33
Depth To Water Level (ft)	25.2	24.3	25.74	23.88	25.82	26.59
pH (Fld)	7.7	7.2	7.22	6.64	7.76	7.26
SC (umhos/cm at 25 C) (Fld)	3710	2740	2880	2700	2479	2194
SC (umhos/cm at 25 C)	3860	2720	2940	2420	2220	2030
Total Suspended Solids	108	64	79	31	27	68
TDS (Measured at 180 C)	2796	1924	2101	1930	1660	1410
TDS - Calculated						1390
Salinity (G/KG) (Fld)	1.8	1.3	1.4			
Turbidity (NTU) (Fld)	4	20	109			
Water Temperature (C) (Fld)	12.5	9.8	11.8	9.8	11	9.45

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-31	DH-31	DH-31	DH-31	DH-31	DH-31
Water	SAMPLE DATE	11/18/2005	5/11/2006	11/20/2006	5/18/2007	10/3/2007	12/13/2007
	SAMPLE TIME	15:45	10:15	11:25	13:20	09:15	00:00
	LAB	ELI-Hel	ELI-Hel	ELI	ELI	ELI	Hydrometrics
	LAB NUMBER	H05110164-017	H06050137-004	H06110166-007	H07050225-001	H07100061-001	AEH-0711-259
	SAMPLE NUMBER	AEH-0511-225	AEH-0605-224	AEH-0611-219	AEH-0705-184	AEH-0710-110	AEH-0711-259
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION	No Fld SC					No Samp-Damaged
	REMARKS						No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	300	380	330	360	340
Calcium (Ca) (DIS)	42	69	38	26	34
Chloride (Cl)	61	32	42	40	25
Magnesium (Mg) (DIS)	8	12	7	5	6
Potassium (K) (DIS)	89	74	77	71	66
Sodium (Na) (DIS)	322	310	300	344	225
Sulfate (SO4)	490	520	450	469	377
Total Alkalinity As CaCO3	250	310	270	290	280

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	15.6	9.55	17.63	23.02	12.13
Arsenic (As) (TOT)					11.7
Arsenic III (dis)	16	8.8	20.3	10.8 J	12.4
Arsenic V (dis)	0.04	<0.02	5.6	0.816 J	0.454
Cadmium (Cd) (DIS)	<0.001	0.004	<0.001	0.011	0.006
Cadmium (Cd) (TOT)					0.025
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.006	<0.004
Copper (Cu) (TOT)					0.016
Iron (Fe) (DIS)	3.07	2.53	4.08	1.03	0.74 J
Iron (Fe) (TOT)					0.79
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)					<0.005
Manganese (Mn) (DIS)	2.04	3.54	2.09	1.38	1.68
Manganese (Mn) (TOT)					1.7
Selenium (Se) (DIS)					0.006 J
Selenium (Se) (TOT)					0.011
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	0.01	<0.01 J
Zinc (Zn) (TOT)					0.02

**Other: ppm unless noted**

No Analysis					0.0
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**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			-142		
Oxygen (O) (DIS) (Fld)	1.35	0.56	0.2	8.36	4.33
pH	7.7	7.2	7.2	7.4	7.5
Water Elevation (ft) (Fld)	3887.4	3886.54	3888.32	3883.48	3892.51
Depth To Water Level (ft)	23.52	24.38	22.6	27.44	18.41
pH (Fld)	8.22	7.09	7.34	7.5	7.06
SC (umhos/cm at 25 C) (Fld)		2300	1782	1780	1355
SC (umhos/cm at 25 C)	1920	1930	1720	1740	1460

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-31	DH-31	DH-31	DH-31	DH-31
Water	SAMPLE DATE	11/18/2005	5/11/2006	11/20/2006	5/18/2007	10/3/2007
	SAMPLE TIME	15:45	10:15	11:25	13:20	09:15
	LAB	ELI-Hel	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	H05110164-017	H06050137-004	H06110166-007	H07050225-001	H07100061-001
	SAMPLE NUMBER	AEH-0511-225	AEH-0605-224	AEH-0611-219	AEH-0705-184	AEH-0710-110
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION	No Fld SC				
	REMARKS					

**Physical/Fld-Lab: ppm unless noted**

Total Suspended Solids	16	34	12	242	<10
TDS (Measured at 180 C)	1280	1400	1200	1170	995
Water Temperature (C) (Fld)	10.94	9.61	10.99	26.98	10.85

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-31	DH-31	DH-31	DH-31	DH-31
Water	SAMPLE DATE	2/13/2008	5/16/2008	7/18/2008	11/17/2008	5/19/2009
	SAMPLE TIME	00:00	00:00	10:40	14:05	00:00
	LAB	Hydrometrics		Hydrometrics	ELI	Hydrometrics
	LAB NUMBER	AEH-0802-111	AEH-0805-272	AEH-0807-168	H08110187-012	z
	SAMPLE NUMBER	AEH-0802-111	AEH-0805-272	AEH-0807-168	AEH-0811-262	AEH-0905-259
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION	lo Samp-Low SWL	lo Samp-Low SWL	lo Samp-Low SWL		lo Samp-SWL Low
	REMARKS	No Sample	No Sample	No Sample		No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	590
Calcium (Ca) (DIS)	180
Chloride (Cl)	27
Magnesium (Mg) (DIS)	45
Potassium (K) (DIS)	138
Sodium (Na) (DIS)	474
Sulfate (SO4)	1400
Total Alkalinity As CaCO3	490

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005 J
Selenium-VI (DIS)	0.014 J
Aluminum (Al) (DIS)	<0.1
Antimony (Sb) (DIS)	0.016
Arsenic (As) (DIS)	10.4
Arsenic III (DIS)	12.6 J
Arsenic V (DIS)	2.04 J
Barium (Ba) (DIS)	<0.1
Beryllium (Be) (DIS)	<0.001
Cadmium (Cd) (DIS)	0.003
Chromium (Cr) (DIS)	<0.001
Cobalt (Co) (DIS)	<0.01
Copper (Cu) (DIS)	<0.004
Iron (Fe) (DIS)	26
Lead (Pb) (DIS)	<0.005
Manganese (Mn) (DIS)	14.6
Mercury (Hg) (DIS)	<0.006
Nickel (Ni) (DIS)	<0.01
Selenium (Se) (DIS)	0.025
Silver (Ag) (DIS)	<0.005 J-
Thallium (Tl) (DIS)	<0.002
Vanadium (V) (DIS)	<0.01
Zinc (Zn) (DIS)	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)				4	
pH				7	
Water Elevation (ft) (Fld)	3882.47	3881.47	3883.86		
Depth To Water Level (ft)	33.54	34.39	32	32.57	34.1
pH (Fld)				7.24	
SC (umhos/cm at 25 C) (Fld)				3555	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-31
Water	SAMPLE DATE	11/17/2008
	SAMPLE TIME	14:05
	LAB	ELI
	LAB NUMBER	H08110187-012
	SAMPLE NUMBER	AEH-0811-262
	TYPE	Groundwater
	GROUP	RI/SLW
	DESCRIPTION	
	REMARKS	

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**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C)	3340
Total Suspended Solids	300
TDS (Measured at 180 C)	2590
Water Temperature (C) (Fid)	11.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-32	DH-32	DH-32	DH-32	DH-32	DH-32
Water	SAMPLE DATE	12/16/1999	4/26/2000	5/30/2002	11/3/2004	5/13/2005	11/18/2005
	SAMPLE TIME	15:00	16:20	16:30	14:25	13:30	13:40
	LAB	TSC-SLC	HYDRO	ASARCO	ASARCO	Hydro	ASARCO
	LAB NUMBER	L992165003	IMMW-0004-102	EHC0208138	AEH-0411-220	AEH-0505-153	AEH-0511-219
	SAMPLE NUMBER	IMMW-9912-102	IMMW-0004-102	EHC-0205-138	AEH-0411-220	AEH-0505-153	AEH-0511-219
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION				io Samp-Low SWL	No Samp-Dry	io Samp-Low SWL
	REMARKS				No Sample	No Sample	No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	398
Calcium (Ca) (DIS)	65
Carbonate As CO3	<1
Chloride (Cl)	83
Magnesium (Mg) (DIS)	28
Potassium (K) (DIS)	17
Sodium (Na) (DIS)	472
Sulfate (SO4)	894
Total Alkalinity As CACO3	326

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	27
Arsenic III (dis)	30
Arsenic V (dis)	0.9
Cadmium (Cd) (DIS)	<0.001
Copper (Cu) (DIS)	<0.004
Iron (Fe) (DIS)	8.9
Lead (Pb) (DIS)	<0.005
Manganese (Mn) (DIS)	4
Zinc (Zn) (DIS)	0.6

**Other: ppm unless noted**

Analyses	0.0
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.4				
pH	7.3				
Water Elevation (ft) (Fld)	3885.54	3883.14	3914.94	3884.17	3883.08
Depth To Water Level (ft)	29.4	31.8	0.0	30.77	31.86
Eh (millivolts)	137				
pH (Fld)	6.9				
SC (umhos/cm at 25 C) (Fld)	2750				
SC (umhos/cm at 25 C)	2560				
TDS (Measured at 180 C)	1825				
Turbidity (NTU) (Fld)	6.3				
Water Temperature (C) (Fld)	10.1				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-32	DH-32	DH-32	DH-32	DH-32	DH-32
Water	SAMPLE DATE	5/8/2006	11/20/2006	5/18/2007	10/3/2007	12/13/2007	2/13/2008
	SAMPLE TIME	15:20	00:00	00:00	00:00	00:00	00:00
	LAB	ASARCO	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	AEH-0605-186	z	z	AEH-0710-DH32	AEH-0711-251	AEH-0802-119
	SAMPLE NUMBER	AEH-0605-186	AEH-0611-242	AEH-0705-187	AEH-0710-112	AEH-0711-251	AEH-0802-119
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION	No Samp-Dry	lo Samp-Low SWL	No Samp-Dry	No Samp-Dry	No Samp-Dry	No Samp-Dry
	REMARKS	No Sample	No Sample	No Sample	No Sample	No Sample	No Sample
	<b>Other: ppm unless noted</b>						
	No Analysis	0.0		0.0	0.0	0.0	0.0
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Water Elevation (ft) (Fld)		3883.79				
	Depth To Water Level (ft)		31.15				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-32	DH-32	DH-33	DH-33	DH-33
Water	SAMPLE DATE	5/13/2008	7/17/2008	12/17/1999	4/26/2000	11/16/2000
	SAMPLE TIME	00:00	00:00	11:40	15:45	09:45
	LAB		Hydrometrics	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	AEH-0805-229	AEH-0807-156	L992165004	L000631015	L001922003
	SAMPLE NUMBER	AEH-0805-229	AEH-0807-156	IMMW-9912-103	IMMW-0004-103	IMMW-0011-103
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION	Dry	lo Samp-Low SWL			
	REMARKS	No Sample	No Sample			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	454	227	122
Calcium (Ca) (DIS)	5.7	<5	<5
Carbonate As CO3	880	720	516
Chloride (Cl)	147	164	198
Magnesium (Mg) (DIS)	<5	<5	<5
Potassium (K) (DIS)	11	5.4	<5
Sodium (Na) (DIS)	1499	1435	1185
Sulfate (SO4)	1496	1575	1228
Total Alkalinity As CaCO3	1252	1386	960

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			0.5
Arsenic (As) (DIS)	148	225 J	205
Arsenic III (dis)	146	188	180
Arsenic V (dis)	13	27	16
Cadmium (Cd) (DIS)	0.02	0.02	0.002
Copper (Cu) (DIS)	0.03	0.03 J	0.03 J
Iron (Fe) (DIS)	0.6	0.8	0.5 U
Lead (Pb) (DIS)	0.01	0.01	0.03
Manganese (Mn) (DIS)	0.02	<0.02	<0.02 J
Zinc (Zn) (DIS)	0.3	0.4	<0.02

**Other: ppm unless noted**

No Analysis 0.0

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		1.4	3.9	2.01
pH		10	10.5	10.5
Silicon+Silica (Si+SiO2)				7.5
Water Elevation (ft) (Fld)	3883.15	3883.82	3881.42	3881.42
Depth To Water Level (ft)	31.85	27.6	30	30
Eh (millivolts)		-53 J	163	-2.3
pH (Fld)		10.3	10.5	10.3
SC (umhos/cm at 25 C) (Fld)		5680	5664	3800
SC (umhos/cm at 25 C)		5900	5710	4900
TDS (Measured at 180 C)		4359	4128	3567
Turbidity (NTU) (Fld)		17.9	40	
Water Temperature (C) (Fld)		11.7	13	12

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-33	DH-33	DH-33	DH-33	DH-33	DH-33
Water	SAMPLE DATE	5/2/2001	11/8/2001	5/30/2002	11/15/2002	6/1/2003	10/26/2003
	SAMPLE TIME	10:15	10:30	18:45	13:45	10:15	14:00
	LAB	TSC-SLC	TSC-SLC	ASARCO	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010608015	L011535003	EHC0205139	L020950014	L030244006	L030600011
	SAMPLE NUMBER	EHC-0105-136	EHC-0111-134	EHC-0205-139	EHC-0211-137	AEH-0306-146	AEH-0310-370
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	160	96		298	400	442
Calcium (Ca) (DIS)	<5	<5		<5	<5	6.7
Carbonate As CO3	336	271		227	120	144
Chloride (Cl)	243	338		237 J	178	173
Magnesium (Mg) (DIS)	<5	<5		<5	<5	3
Potassium (K) (DIS)	5.8	9.3		12	8.8	7.9
Sodium (Na) (DIS)	1248	1753		1090	938	1274
Sulfate (SO4)	1812	2242		1808	1459	1355
Total Alkalinity As CaCO3	691	531		622	528	602

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	0.4	0.3		0.2		
Arsenic (As) (DIS)	137	102		94	71	77
Arsenic III (dis)	143	115		78	69	77
Arsenic V (dis)	<0.005	<0.005		14	4	<0.05
Cadmium (Cd) (DIS)	<0.001	0.004 U		<0.002	0.002	0.01
Copper (Cu) (DIS)	<0.004	0.007		<0.004	0.004	<0.004
Iron (Fe) (DIS)	0.2	0.09		0.07	0.04	<0.03
Lead (Pb) (DIS)	<0.005	<0.005		<0.005	<0.005	<0.01
Manganese (Mn) (DIS)	<0.02	0.02		0.2	0.09	0.09
Zinc (Zn) (DIS)	0.2	0.05		0.04	0.03	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential		-93.3				
Oxygen (O) (DIS) (Fld)	1.5	0.1		2.4	0.2	0.09
pH	10.5	9.9		9.6	9.1	9.4
Silicon+Silica (Si+SiO2)	6.5	5.7		5.2		
Water Elevation (ft) (Fld)	3880.62	3880.92	3878.82	3880.82	3880.32	3880.42
Depth To Water Level (ft)	30.8	30.5	32.6	30.6	31.1	31
Eh (millivolts)	85	158				
pH (Fld)	10.5	10		8.1	8	9.56
SC (umhos/cm at 25 C) (Fld)	5220	5960		4990	4360	4590
SC (umhos/cm at 25 C)	5590	6490		4950	4360	4720
Total Suspended Solids	57	18		4 J	11	7.8
TDS (Measured at 180 C)	4085	4412		3626 J	2990	3449
Salinity (G/KG) (Fld)				2.5	2.2	2.3
Turbidity (NTU) (Fld)				8	6	88
Water Temperature (C) (Fld)	10.6	13		13.4	12.8	13.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-33	DH-33	DH-33	DH-33	DH-33	DH-33
Water	SAMPLE DATE	5/27/2004	11/3/2004	5/19/2005	11/18/2005	5/11/2006	11/20/2006
	SAMPLE TIME	15:35	14:35	13:00	13:30	10:30	11:40
	LAB	ELI	ELI	Hydro	ELI-Hel	Hydro	ELI
	LAB NUMBER	H04050208-019	H04110037-018	AEH-0505-213	H05110164-011	AEH-0605-227	H06110166-008
	SAMPLE NUMBER	AEH-0405-218	AEH-0411-221	AEH-0505-213	AEH-0511-218	AEH-0605-227	AEH-0611-220
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION			o Samp-Low SWL		o Samp-Low SWL	
	REMARKS			No Sample		No Sample	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	650	630	860	860
Calcium (Ca) (DIS)	6	4	5	3
Chloride (Cl)	130	100	107	77
Magnesium (Mg) (DIS)	1	1	1	<1
Potassium (K) (DIS)	9	8	6	6
Sodium (Na) (DIS)	946	865	1257	803
Sulfate (SO4)	1400	1110	1270	835
Total Alkalinity As CaCO3	600	660	940	750

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	75.3	78.1	101.2	90.2
Arsenic III (dis)	77	61	93.7	109
Arsenic V (dis)	9.5	19	<0.0003	<1 J
Cadmium (Cd) (DIS)	<0.001	<0.001	0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.12	0.15	0.18	0.21
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.05	0.09	0.05	0.07
Zinc (Zn) (DIS)	0.03	<0.02	0.04	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					-310.3	
Oxygen (O) (DIS) (Fld)	0.78	0.04	0.56		0.14	
pH	9.4	9.4	9.5		9.4	
Water Elevation (ft) (Fld)	3879.75	3882.79	3879.4	3881.62	3879.44	3882.06
Depth To Water Level (ft)	31.67	28.63	32.02	29.8	31.98	29.36
pH (Fld)	9.5	9.71	9.57			9.32
SC (umhos/cm at 25 C) (Fld)	4380	3989	4830			3426
SC (umhos/cm at 25 C)	3770	3550	4670			3410
Total Suspended Solids	12	12	<10			11
TDS (Measured at 180 C)	3000	2760	3490			2480
Water Temperature (C) (Fld)	14.6	12.9	14.1			12.41

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-33	DH-33	DH-33	DH-33	DH-33	DH-33
Water	SAMPLE DATE	5/18/2007	10/3/2007	10/3/2007	12/12/2007	2/13/2008	5/16/2008
	SAMPLE TIME	00:00	10:30	10:50	15:00	12:45	11:35
	LAB	Hydrometrics	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	z	H07100061-003	H07100061-004	H07120134-012	H08020101-007	H08050289-005
	SAMPLE NUMBER	AEH-0705-188	AEH-0710-113	AEH-0710-114	AEH-0711-246	AEH-0802-117	AEH-0805-268
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION	lo Samp-Low SWL					
	REMARKS	No Sample		Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	780	780		850	790
Bicarbonate (HCO3) (dis)			830		
Calcium (Ca) (DIS)	4	4	91	12	10
Chloride (Cl)	60	65	262	100	74
Magnesium (Mg) (DIS)	<1	<1	41	4	5
Potassium (K) (DIS)	5	5	15	7	7
Sodium (Na) (DIS)	786	802	1404	1003	936
Sulfate (SO4)	946	956	1940	1270	1300
Total Alkalinity As CaCO3	810	810	680	720	650

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)			<0.005		0.0121 J
Selenium-VI (dis)			0.255		0.872 J
Aluminum (Al) (DIS)					<0.1
Aluminum (Al) (TOT)					0.3
Antimony (Sb) (DIS)					<0.005
Antimony (Sb) (TOT)					<0.005
Arsenic (As) (DIS)	90.7	86.1	75.6	89.4	98.2
Arsenic (As) (TOT)	90.6	85.6	66.9	93.7	108
Arsenic III (DIS)	86.3	86.8	179 A	91.9	94.8
Arsenic V (DIS)	<2.5	<2.5	<1.25 A	<0.25	<0.005 J
Barium (Ba) (DIS)					<0.1
Barium (Ba) (TOT)					<0.1
Beryllium (Be) (DIS)					<0.001
Beryllium (Be) (TOT)					<0.001
Cadmium (Cd) (DIS)	0.002	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)	0.008 UJ	0.007 UJ	0.006	0.009	0.015
Chromium (Cr) (DIS)					<0.001
Chromium (Cr) (TOT)					<0.001
Cobalt (Co) (DIS)					<0.01
Cobalt (Co) (TOT)					<0.01
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)	0.006	0.005	0.01	0.009 J	0.014
Iron (Fe) (DIS)	0.58 J	0.35 J	7.04	0.41	0.42 J
Iron (Fe) (TOT)	0.57	0.62	6.97	0.69	0.95
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	<0.005	<0.005	0.006	0.008	0.012
Manganese (Mn) (DIS)	0.07	0.07	13.36	0.24	0.4
Manganese (Mn) (TOT)	0.09	0.09	12.5	0.26	0.48

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-33	DH-33	DH-33	DH-33	DH-33	DH-33
Water	SAMPLE DATE	5/18/2007	10/3/2007	10/3/2007	12/12/2007	2/13/2008	5/16/2008
	SAMPLE TIME	00:00	10:30	10:50	15:00	12:45	11:35
	LAB	Hydrometrics	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	z	H07100061-003	H07100061-004	H07120134-012	H08020101-007	H08050289-005
	SAMPLE NUMBER	AEH-0705-188	AEH-0710-113	AEH-0710-114	AEH-0711-246	AEH-0802-117	AEH-0805-268
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION	No Sample		Field Duplicate			
	REMARKS	No Sample		Field Duplicate			

**Metals (mg/L): ppm unless noted**

Mercury (Hg) (DIS)							<0.006
Mercury (Hg) (TOT)							<0.006
Nickel (Ni) (DIS)							<0.01
Nickel (Ni) (TOT)							<0.01
Selenium (Se) (DIS)		0.032 J		0.025 J	0.037	0.065	0.03 J
Selenium (Se) (TOT)		0.115		0.096	0.152	0.157	0.185
Silver (Ag) (DIS)							<0.005 J
Silver (Ag) (TOT)							<0.005
Thallium (Tl) (DIS)							<0.002
Thallium (Tl) (TOT)							<0.002
Vanadium (V) (DIS)							<0.01
Vanadium (V) (TOT)							<0.01
Zinc (Zn) (DIS)		0.11 J		0.03 J	0.11	0.04	0.06
Zinc (Zn) (TOT)		0.11		0.1	0.23	0.23	0.28

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		0.61			0.15	0.11	0.11
pH		9.4		9.5	7.7	9.4	9.2
Water Elevation (ft) (Fld)	3878.86		3880.92		3883.67	3881.66	3880.81
Depth To Water Level (ft)	32.56		30.5		31.9	33.91	34.76
pH (Fld)			9.61		7.6	9.36	9.43
SC (umhos/cm at 25 C) (Fld)			3225		5705	4386	4112
SC (umhos/cm at 25 C)			3500		5040	4030	3770
Total Suspended Solids			<10		<10	29	<10
TDS (Measured at 180 C)			2450		2410	4280	2990
Water Temperature (C) (Fld)			11.92		12	10.7	17.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-33	DH-33	DH-33	DH-34	DH-34
Water	SAMPLE DATE	7/17/2008	11/17/2008	5/20/2009	12/17/1999	4/26/2000
	SAMPLE TIME	16:20	12:45	10:25	11:00	15:20
	LAB	ELI	ELI	ELI	TSC-SLC	TSC-SLC
	LAB NUMBER	H08070368-007	H08110187-010	H09050289-005	L992165005	L000631016
	SAMPLE NUMBER	AEH-0807-166	AEH-0811-260	AEH-0905-273	IMMW-9912-104	IMMW-0004-104
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	740	780	730	500	137
Calcium (Ca) (DIS)	13	12	5	<5	<5
Carbonate As CO3				1172	643
Chloride (Cl)	73	90	55	250	225
Magnesium (Mg) (DIS)	5	6	2	<5	<5
Potassium (K) (DIS)	7	8	7	15	7.9
Sodium (Na) (DIS)	951	1020	961	1731	1432
Sulfate (SO4)	1100	1400	1200	1729	1750
Total Alkalinity As CaCO3	630	760	660	1582	1184

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005 J			
Selenium-VI (DIS)		0.548 J			
Aluminum (Al) (DIS)		<0.1	<0.1		
Antimony (Sb) (DIS)		<0.005	<0.003		
Arsenic (As) (DIS)	90.88	98.9	99	207	206 J
Arsenic (As) (TOT)	95.2				
Arsenic III (DIS)	75.8	82.1		183	157
Arsenic V (DIS)	0.645	14		56	40
Barium (Ba) (DIS)		<0.1	<0.1		
Beryllium (Be) (DIS)		<0.001	<0.001		
Cadmium (Cd) (DIS)	0.002 J	<0.001	0.003 UJ	0.006	0.01
Cadmium (Cd) (TOT)	0.009				
Chromium (Cr) (DIS)		0.002	0.004		
Cobalt (Co) (DIS)		<0.01	0.0027 UJ		
Copper (Cu) (DIS)	0.006	<0.004	0.002	0.02	0.006 J
Copper (Cu) (TOT)	0.018				
Gold (Au) (DIS)			<0.02		
Iron (Fe) (DIS)	0.37	0.56	0.6	0.3	0.2
Iron (Fe) (TOT)	0.87				
Lead (Pb) (DIS)	<0.005 J	<0.005	<0.005	0.009	0.01
Lead (Pb) (TOT)	0.012				
Manganese (Mn) (DIS)	0.9	0.53	0.12	<0.02	<0.02
Manganese (Mn) (TOT)	0.86				
Mercury (Hg) (DIS)		<0.006	0.0003		
Nickel (Ni) (DIS)		<0.01	<0.01		
Selenium (Se) (DIS)	0.017	0.034	0.045		
Selenium (Se) (TOT)	0.167				
Silver (Ag) (DIS)		<0.005 J-	<0.005		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-33	DH-33	DH-33	DH-34	DH-34
Water	SAMPLE DATE	7/17/2008	11/17/2008	5/20/2009	12/17/1999	4/26/2000
	SAMPLE TIME	16:20	12:45	10:25	11:00	15:20
	LAB	ELI	ELI	ELI	TSC-SLC	TSC-SLC
	LAB NUMBER	H08070368-007	H08110187-010	H09050289-005	L992165005	L000631016
	SAMPLE NUMBER	AEH-0807-166	AEH-0811-260	AEH-0905-273	IMMW-9912-104	IMMW-0004-104
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS					

**Metals (mg/L): ppm unless noted**

Tellurium (Te) (DIS)				<0.1		
Thallium (Tl) (DIS)			<0.002	<0.001		
Vanadium (V) (DIS)			<0.01	<0.01		
Zinc (Zn) (DIS)	0.07	0.06	0.09	0.04	0.05	
Zinc (Zn) (TOT)	0.17					

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.1	0.76	0.04	1.6	3
pH	8.6	9.3	9.3	10	10.6
Water Elevation (ft) (Fld)	3883.34			3884.87	3882.57
Depth To Water Level (ft)	32.23	32.76	34.69	24.3	26.6
Eh (millivolts)				-36 J	159
pH (Fld)	9.38	9.2	9.47	10.7	10.5
SC (umhos/cm at 25 C) (Fld)	3967	4241	3823	6810	5831
SC (umhos/cm at 25 C)	3820	4190	3690	7060	5910
Total Suspended Solids	10	<10	<10		
TDS (Measured at 180 C)	2670	3020	2720	5260	4260
Turbidity (NTU) (Fld)				18.3	92
Water Temperature (C) (Fld)	19.8	11.5	15.4	13.2	14.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-34	DH-34	DH-34	DH-34	DH-34	DH-34
Water	SAMPLE DATE	11/16/2000	5/2/2001	11/9/2001	6/1/2002	11/18/2002	6/1/2003
	SAMPLE TIME	09:15	10:45	14:10	09:00	09:20	10:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001922004	L010608016	L011564006	L020412026	L020959004	L030244007
	SAMPLE NUMBER	IMMW-0011-104	EHC-0105-137	EHC-0111-135	EHC-0205-140	EHC-0211-138	AEH-0306-147
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	81	359	334	337	598	605
Calcium (Ca) (DIS)	<5	<5	5.7	5.9	15	9.4
Carbonate As CO3	380	82	77	100	53	<2
Chloride (Cl)	261	468	334 J	275	248	171
Magnesium (Mg) (DIS)	<5	<5	<5	<5	5.5	<5
Potassium (K) (DIS)	8.3	17	22	15	36	29
Sodium (Na) (DIS)	1364	1925	1399	1158	1239	842
Sulfate (SO4)	1896	3309	2333	2041	1977	1585
Total Alkalinity As CaCO3	700	430	402	442	578	496

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	0.4	0.2	0.1	0.06 U	0.06 J	
Arsenic (As) (DIS)	158	86	66	59	78	68
Arsenic III (dis)	163	91	68	60	51	64
Arsenic V (dis)	11	<0.005	<0.005	2	20	5
Cadmium (Cd) (DIS)	0.001	<0.001	<0.001	<0.001	<0.002	0.001
Copper (Cu) (DIS)	0.03 J	<0.004	0.01 J	<0.004	<0.008	<0.004
Iron (Fe) (DIS)	0.2 U	<0.05	0.03	0.02	0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005 J	<0.005	<0.01	<0.005
Manganese (Mn) (DIS)	<0.02 J	<0.02	0.02	<0.02	0.04 J	0.03
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			-82.4	-134.7		
Oxygen (O) (DIS) (Fld)	0.8	1.4	0.2	0.2	2.5	0.2
pH	10.5	10	9.3	9.2	8.8	8.3
Silicon+Silica (Si+SiO2)	7.3	5.3	6.3	5.4	6.5	
Water Elevation (ft) (Fld)	3882.87	3882.17	3882.27	3879.87	3882.07	3882.17
Depth To Water Level (ft)	26.3	27	26.9	29.3	27.1	27
Eh (millivolts)	-48	86	172			
pH (Fld)	10.06	10.2	9.4	9	8.3	8.4
SC (umhos/cm at 25 C) (Fld)	4740	7410	5260	5010	5400	4080
SC (umhos/cm at 25 C)	6050	8000	5970	5170	5410	4090
Total Suspended Solids		20	7.8 J	4.3	5.6	4.5
TDS (Measured at 180 C)	4324	5849	4409 J	3793	3955	2579
Salinity (G/KG) (Fld)					2.8	0.2
Turbidity (NTU) (Fld)					1	1
Water Temperature (C) (Fld)	13.4	11.6	16.4	12.9	14.3	12.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-34	DH-34	DH-34	DH-34	DH-34	DH-34
Water	SAMPLE DATE	10/26/2003	5/27/2004	11/3/2004	5/20/2005	5/20/2005	11/18/2005
	SAMPLE TIME	14:20	15:50	15:10	10:20	10:25	15:30
	LAB	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Casper	ELI-Hel
	LAB NUMBER	L030600012	H04050208-020	H04110037-020	C05050789-002	C05050789-003	H05110164-016
	SAMPLE NUMBER	AEH-0310-371	AEH-0405-219	AEH-0411-223	AEH-0505-220	AEH-0505-221	AEH-0511-224
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	654	610	250	740	742	390
Calcium (Ca) (DIS)	19	10	13	15	15	13
Carbonate As CO3	7					
Chloride (Cl)	174	110	100	96	113	93
Magnesium (Mg) (DIS)	8.4	3	4	7	7	9
Potassium (K) (DIS)	39	24	30	33	33	43
Sodium (Na) (DIS)	1199	765	946	959	977	1145
Sulfate (SO4)	1510	980	1210	1370	1370	1310
Total Alkalinity As CaCO3	548	590	260	760	766	410

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	80	89.3	107.6	109	113	130.1
Arsenic III (dis)	84	100	62	119	115	139
Arsenic V (dis)	<0.05	10	40	2.7 J	1.1 J	0.7
Cadmium (Cd) (DIS)	<0.005	<0.001	<0.001	<0.004	<0.004	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	0.007	<0.004
Iron (Fe) (DIS)	<0.03	0.04	0.03	0.02	<0.02	0.12
Lead (Pb) (DIS)	<0.01	<0.005	0.008	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.08	0.05	0.05	0.1	0.1	0.05
Zinc (Zn) (DIS)	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.01	0.13	0.04	0.59		0.53
pH	8.4	9.5	9.5	9.43	9.44	9.4
Water Elevation (ft) (Fld)	3881.56	3881.35	3884.18	3880.65		3882.83
Depth To Water Level (ft)	27.61	27.82	24.99	28.52		26.34
pH (Fld)	9.33	9.52	9.23	9.31		9.37
SC (umhos/cm at 25 C) (Fld)	4560	3440	4204	3659		4680
SC (umhos/cm at 25 C)	4710	3280	3690	4070	4100	4510
Total Suspended Solids	2.6	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	3449	2570	2870	2770	2660	3360
TDS - Calculated				2950	2980	
Salinity (G/KG) (Fld)	2.3					
Turbidity (NTU) (Fld)	9					
Water Temperature (C) (Fld)	14.2	12.8	13.2	11.72		14.08

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-34	DH-34	DH-34	DH-34	DH-34	DH-34
Water	SAMPLE DATE	5/11/2006	11/20/2006	5/21/2007	5/21/2007	5/21/2007	5/21/2007
	SAMPLE TIME	11:15	15:30	13:40	13:40	13:55	13:55
	LAB	ELI-Hel	ELI	EPA-R8	ELI	EPA-R8	ELI
	LAB NUMBER	H06050137-008	H06110172-005	8705007-14	H07050236-002	8705007-15	H07050236-003
	SAMPLE NUMBER	AEH-0605-229	AEH-0611-226	AEH-0705-199	AEH-0705-199	AEH-0705-200	AEH-0705-200
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION			AEH-0705-199-S	EPA Split	AEH-0705-200-S	EPA Split
	REMARKS			Split		Split	Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	830	900 UJ		870		860
Calcium (Ca) (DIS)	10	10		2		2
Chloride (Cl)	62	77		65		62
Magnesium (Mg) (DIS)	4	3		<1		<1
Potassium (K) (DIS)	27	35		11		11
Sodium (Na) (DIS)	834	958		1410		1383
Sulfate (SO4)	898	1050		1180		1180
Total Alkalinity As CaCO3	770	830 UJ		1400		1500

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)				<2.5		<2.5
Antimony (Sb) (DIS)				0.0325		0.0342
Arsenic (As) (DIS)	134.2	155.8		227	229.2	228
Arsenic III (dis)	127	202			232 R	227 R
Arsenic V (dis)	<0.5	<1 J			17.5 R	21.9 R
Barium (Ba) (DIS)				0.02		0.021
Beryllium (Be) (DIS)				<0.001		<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001		<0.0002	<0.001	<0.0002
Chromium (Cr) (DIS)				<0.002		<0.002
Cobalt (Co) (DIS)				<0.002		<0.002
Copper (Cu) (DIS)	<0.004	<0.004		<0.01	<0.004	<0.01
Iron (Fe) (DIS)	0.07	0.09		<0.1	0.14	<0.1
Lead (Pb) (DIS)	<0.005	<0.005		0.0014	<0.005	0.0015
Manganese (Mn) (DIS)	0.06	0.04		0.012	0.01	0.012
Mercury (Hg) (DIS)				0.00036		0.00037
Nickel (Ni) (DIS)				0.0043		0.0041
Selenium (Se) (DIS)				0.0595		0.0654
Silver (Ag) (DIS)				<0.0005		<0.0005
Thallium (Tl) (DIS)				<0.0003		<0.0003
Tin (Sn) (DIS)				<0.2		<0.2
Vanadium (V) (DIS)				0.013		0.015
Zinc (Zn) (DIS)	<0.02	<0.02		<0.04	0.01	<0.04

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential		-257.3				
Oxygen (O) (DIS) (Fld)	0.45	0.23		0.07		
pH	9.6	9.7		10.1		10.1
Water Elevation (ft) (Fld)	3881.02	3883.42		3879.53		
Depth To Water Level (ft)	28.15	25.75		29.64		
pH (Fld)	9.31	9.68		10.17		
SC (umhos/cm at 25 C) (Fld)	3930	3963		5167		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-34	DH-34	DH-34	DH-34
Water	SAMPLE DATE	5/11/2006	11/20/2006	5/21/2007	5/21/2007
	SAMPLE TIME	11:15	15:30	13:40	13:55
	LAB	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	H06050137-008	H06110172-005	H07050236-002	H07050236-003
	SAMPLE NUMBER	AEH-0605-229	AEH-0611-226	AEH-0705-199	AEH-0705-200
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION			EPA Split	EPA Split
	REMARKS				Field Duplicate

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C)	3660	3850	4950	4960
Total Suspended Solids	<10	20	26	19
TDS (Measured at 180 C)	2560	2900	3760	3790
Water Temperature (C) (Fld)	12.75	13.33	15.55	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-34	DH-34	DH-34	DH-34	DH-34	DH-34
Water	SAMPLE DATE	10/3/2007	12/12/2007	2/21/2008	5/16/2008	7/18/2008	11/17/2008
	SAMPLE TIME	09:45	15:35	11:15	13:20	10:40	15:00
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07100061-002	H07120134-013	H08020150-004	H08050289-008	H08070375-006	H08110187-014
	SAMPLE NUMBER	AEH-0710-111	AEH-0711-247	AEH-0802-134	AEH-0805-273	AEH-0807-173	AEH-0811-264
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	700		770	990	730	720
Bicarbonate (HCO3) (dis)		860				
Calcium (Ca) (DIS)	7	10	9	9	5	6
Chloride (Cl)	55	100	62	69	47	54
Magnesium (Mg) (DIS)	2	3	3	3	2	3
Potassium (K) (DIS)	23	28	31	30	25	27
Sodium (Na) (DIS)	720	1012	860	1203	711	778
Sulfate (SO4)	833	1040	889	1400	850	920
Total Alkalinity As CaCO3	800	910	780	1100	610	740

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)		0.0069		0.0122 J		<0.005 J
Selenium-VI (dis)		1.65		1.25 J		1.1 J
Aluminum (Al) (DIS)				<0.1		<0.1
Aluminum (Al) (TOT)				1.4		
Antimony (Sb) (DIS)				0.005		<0.005
Antimony (Sb) (TOT)				0.048		
Arsenic (As) (DIS)	125.7	119.1	97.1	174.4	88.1	89.7
Arsenic (As) (TOT)	123	115	106	181	97.8	
Arsenic III (DIS)	121	117	92.6	156 J	85.8	87.2
Arsenic V (DIS)	<2.5	<2.5	1.54 J	2.94 J	<0.0282	10.6
Barium (Ba) (DIS)				<0.1		<0.1
Barium (Ba) (TOT)				<0.1		
Beryllium (Be) (DIS)				<0.001		<0.001
Beryllium (Be) (TOT)				<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)	0.004 UJ	0.005	0.005	0.004	0.005 J	
Chromium (Cr) (DIS)				<0.001		<0.001
Chromium (Cr) (TOT)				0.002		
Cobalt (Co) (DIS)				<0.01		<0.01
Cobalt (Co) (TOT)				<0.01		
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)	0.016	0.034	0.021	0.024	0.018 J	
Iron (Fe) (DIS)	0.19 UJ	0.15	0.11	0.34 J	0.1	0.13
Iron (Fe) (TOT)	0.36	0.64	1.63	1.77	0.3	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	0.009 UJ	0.017	0.014 J	0.021	0.011	
Manganese (Mn) (DIS)	0.04	0.06	0.08	0.06	0.03	0.03
Manganese (Mn) (TOT)	0.04	0.08	0.14	0.12	0.04	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-34	DH-34	DH-34	DH-34	DH-34	DH-34
Water	SAMPLE DATE	10/3/2007	12/12/2007	2/21/2008	5/16/2008	7/18/2008	11/17/2008
	SAMPLE TIME	09:45	15:35	11:15	13:20	10:40	15:00
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07100061-002	H07120134-013	H08020150-004	H08050289-008	H08070375-006	H08110187-014
	SAMPLE NUMBER	AEH-0710-111	AEH-0711-247	AEH-0802-134	AEH-0805-273	AEH-0807-173	AEH-0811-264
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Metals (mg/L): ppm unless noted**

Mercury (Hg) (DIS)				<0.006		<0.006
Mercury (Hg) (TOT)				<0.006		
Nickel (Ni) (DIS)				<0.01		<0.01
Nickel (Ni) (TOT)				<0.01		
Selenium (Se) (DIS)	0.018 J	0.124	0.028	0.031 J	0.018 J	0.058
Selenium (Se) (TOT)	0.186	0.576	0.272	0.428	0.355	
Silver (Ag) (DIS)				<0.005		<0.005 J-
Silver (Ag) (TOT)				<0.005		
Thallium (Tl) (DIS)				<0.002		<0.002
Thallium (Tl) (TOT)				<0.002		
Vanadium (V) (DIS)				0.02		0.01
Vanadium (V) (TOT)				0.02		
Zinc (Zn) (DIS)	0.04 J	<0.02	<0.01	0.05	<0.01	<0.02
Zinc (Zn) (TOT)	0.04	<0.02	0.06 J	0.35	0.05	

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.3	0.14	0.17	0.07	0.19	0.21
pH	9.7	9.7	9.4	9.8	8.5	9.4
Water Elevation (ft) (Fld)	3882.28	3883.6	3881.68	3880.92	3883.49	
Depth To Water Level (ft)	26.89	29.64	31.56	32.32	29.75	30.34
pH (Fld)	9.87	9.7	9.41	9.84	9.44	9.56
SC (umhos/cm at 25 C) (Fld)	2965	4115	3650	5044	3353	3162
SC (umhos/cm at 25 C)	3240	3870	3470	4480	3790	3310
Total Suspended Solids	<10	11	68	22	12 J+	<10
TDS (Measured at 180 C)	2220	2900	2520	6850 R	2230	2280
Water Temperature (C) (Fld)	11.48	11.9	10.5	22.9	21	12

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-34	DH-35	DH-35	DH-35	DH-35
Water	SAMPLE DATE	5/20/2009	12/17/1999	12/17/1999	4/26/2000	11/16/2000
	SAMPLE TIME	11:05	10:15	10:30	14:30	08:45
	LAB	ELI	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050289-007	L992165006	L992165031	L000631017	L001922005
	SAMPLE NUMBER	AEH-0905-275	IMMW-9912-105	IMMW-9912-131	IMMW-0004-105	IMMW-0011-105
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	660	259	253	268	278
Calcium (Ca) (DIS)	4	86	89	154	110
Carbonate As CO3		<1	<1	<1	<1
Chloride (Cl)	43	282	267	363	179
Magnesium (Mg) (DIS)	2	20	21	31	20
Potassium (K) (DIS)	26	67	68	165	154
Sodium (Na) (DIS)	791	542	538	585	475
Sulfate (SO4)	900	960	967	1214	1110
Total Alkalinity As CaCO3	590	212	207	220	228

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1				0.02 UJ
Antimony (Sb) (DIS)	0.005				
Arsenic (As) (DIS)	98.2	21	22	10 J	9.4
Arsenic III (dis)		14	14	9.9	9.3
Arsenic V (dis)		4.3	4.2	0.3	0.5
Barium (Ba) (DIS)	<0.1				
Beryllium (Be) (DIS)	<0.001				
Cadmium (Cd) (DIS)	0.001 UJ	0.004	0.004	0.002	0.002
Chromium (Cr) (DIS)	0.003				
Cobalt (Co) (DIS)	0.002 UJ				
Copper (Cu) (DIS)	0.002	<0.004	<0.004	0.006 J	0.006 J
Gold (Au) (DIS)	<0.02				
Iron (Fe) (DIS)	0.19	0.2	0.2	2.6	1.8
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.03	1.9	2	8.7	6.5 J
Mercury (Hg) (DIS)	0.0004				
Nickel (Ni) (DIS)	<0.01				
Selenium (Se) (DIS)	0.077				
Silver (Ag) (DIS)	<0.005				
Tellurium (Te) (DIS)	<0.1				
Thallium (Tl) (DIS)	<0.001				
Vanadium (V) (DIS)	<0.01				
Zinc (Zn) (DIS)	0.02	<0.02	<0.02	0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.03	1.7	1.8	3.3	1.8
pH	9.5	8	7.9	7.6	7.7
Silicon+Silica (Si+SiO2)					25
Water Elevation (ft) (Fld)		3886.12	3886.12	3883.74	3884.34
Depth To Water Level (ft)	32.25	25.02	25.02	27.4	26.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-34	DH-35	DH-35	DH-35	DH-35
Water	SAMPLE DATE	5/20/2009	12/17/1999	12/17/1999	4/26/2000	11/16/2000
	SAMPLE TIME	11:05	10:15	10:30	14:30	08:45
	LAB	Hydrometrics	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050289-007	L992165006	L992165031	L000631017	L001922005
	SAMPLE NUMBER	AEH-0905-275	IMMW-9912-105	IMMW-9912-131	IMMW-0004-105	IMMW-0011-105
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS			Field Duplicate		

**Physical/Fld-Lab: ppm unless noted**

Eh (millivolts)		130 J	103 J	195	127.2
pH (Fld)	9.59	8.2	8.2	6.8	7
SC (umhos/cm at 25 C) (Fld)	3237	3100	3070	3861	2530
SC (umhos/cm at 25 C)	3200	3100	3080	3860	3210
Total Suspended Solids	<10				
TDS (Measured at 180 C)	2270	2141	2131	2823	2376
Turbidity (NTU) (Fld)		3.5	3.4	15	
Water Temperature (C) (Fld)	17	13.8	13.8	14.2	14.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-35	DH-35	DH-35	DH-35	DH-35	DH-35
Water	SAMPLE DATE	5/2/2001	11/8/2001	5/30/2002	11/15/2002	6/1/2003	10/26/2003
	SAMPLE TIME	11:15	12:00	17:40	14:45	11:30	15:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010608013	L011535004	L020397009	L020950018	L030244009	L030600014
	SAMPLE NUMBER	EHC-0105-138	EHC-0111-136	EHC-0205-141	EHC-0211-139	AEH-0306-149	AEH-0310-373
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	249	268	259	329	288	306
Calcium (Ca) (DIS)	106	135	100	166	84	98
Carbonate As CO3	<1	<1	<1	<1	<2	<2
Chloride (Cl)	228	278	174	148 J	140	130
Magnesium (Mg) (DIS)	19	23	16	27	14	17
Potassium (K) (DIS)	168	209	141	203	128	148
Sodium (Na) (DIS)	398	502	462	471	288	384
Sulfate (SO4)	990	1231	972	1279	712	746
Total Alkalinity As CaCO3	204	220	212	270	236	251

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		<0.05	<0.05	<0.05		
Arsenic (As) (DIS)	6.2	8.1	6.8	7.3	5.9	7.3
Arsenic III (dis)	4.5	9.5	5.5	6.4	5.5	6.6
Arsenic V (dis)	1.4	<0.005	1.3	0.7	<0.005 UJ	<0.02
Cadmium (Cd) (DIS)	<0.001	0.003 U	0.009	0.002	0.006	0.002
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.004 UJ	0.02	<0.004
Iron (Fe) (DIS)	1.6	2.3	1.8	3.5	1.9	2.4
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	6.2	7.8	6.4	10	5.1	6.8
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential		-79	-22			
Oxygen (O) (DIS) (Fld)	1.5	0.1	0.2	0.5	0.2	1.16
pH	8.2	7.7	7.5	7.3	7.3	7.7
Silicon+Silica (Si+SiO2)		28	26	26		
Water Elevation (ft) (Fld)	3883.64	3883.34	3881.34	3883.24	3903.74	3883.02
Depth To Water Level (ft)	27.5	27.8	29.8	27.9	7.4	28.12
Eh (millivolts)	101	172				
pH (Fld)	7.3	7.3	7.7	7.6	7.5	7.34
SC (umhos/cm at 25 C) (Fld)	2930	3090	2640	3220	2330	2370
SC (umhos/cm at 25 C)	3040	3270	2590	3290	2300	2420
Total Suspended Solids	6.6	9.7	5.9 J	13 J	10	7.4
TDS (Measured at 180 C)	2215	2385	1844	2417 J	1562	1697
Salinity (G/KG) (Fld)				1.5	1.1	1.1
Turbidity (NTU) (Fld)				8	1	2
Water Temperature (C) (Fld)	13.8	14.9	13.3	13.6	11.5	12.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-35	DH-35	DH-35	DH-35	DH-35	DH-35
Water	SAMPLE DATE	5/28/2004	5/28/2004	11/3/2004	5/20/2005	11/18/2005	5/11/2006
	SAMPLE TIME	09:40	09:50	15:50	11:30	14:30	10:50
	LAB	ELI	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel
	LAB NUMBER	H04050224-002	H04050224-003	H04110037-022	C05050789-005	H05110164-014	H06050137-007
	SAMPLE NUMBER	AEH-0405-222	AEH-0405-223	AEH-0411-225	AEH-0505-223	AEH-0511-222	AEH-0605-228
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	300	300	310	309	290	320
Calcium (Ca) (DIS)	69	69	81	60	93	43
Chloride (Cl)	81	81	90	50	81	37
Magnesium (Mg) (DIS)	11	11	15	10	16	7
Potassium (K) (DIS)	94	95	87	84	99	63
Sodium (Na) (DIS)	224	226	274	228	299	195
Sulfate (SO4)	580 J	460 J	587	471	551	316
Total Alkalinity As CaCO3	250	250	260	254	240	260

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	5.37	5.47	6.742	6.74	6.6	6.75
Arsenic III (dis)	<0.045	<0.045	1.8	5.3	6.6	6.6
Arsenic V (dis)	5.2	5.5	5.1	1.2 J	0.7	1.4
Cadmium (Cd) (DIS)	<0.001	0.002	<0.001	0.002	0.006	0.014
Copper (Cu) (DIS)	<0.004 J	0.021 J	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	1.44	1.47	1.4	1.3	2.3	0.94
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	4.23	4.25	4.12	3.52	5.88	2.78
Zinc (Zn) (DIS)	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.41		0.09	0.23	0.48	0.46
pH	7.9	8	7.6	7.72	7.7	7.5
Water Elevation (ft) (Fld)	3882.89		3888.6	3882.21	3884.12	3882.95
Depth To Water Level (ft)	28.25		22.54	28.93	27.02	28.19
pH (Fld)	6.64		8.24	7.21	7.18	7.06
SC (umhos/cm at 25 C) (Fld)	1783		2029	1600	2160	1680
SC (umhos/cm at 25 C)	1600	1610	1850	1610	2070	1390
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	1210	1200	1380	1030	1470	928
TDS - Calculated				1080		
Water Temperature (C) (Fld)	11.1		11.7	10.42	12.89	12.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-35	DH-35	DH-35	DH-35	DH-35	DH-35
Water	SAMPLE DATE	11/20/2006	5/21/2007	10/2/2007	12/13/2007	2/13/2008	5/13/2008
	SAMPLE TIME	15:10	13:15	13:15	11:10	11:20	11:40
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110172-004	H07050236-001	H07100027-006	H07120160-005	H08020101-004	H08050222-014
	SAMPLE NUMBER	AEH-0611-225	AEH-0705-198	AEH-0710-106	AEH-0711-253	AEH-0802-114	AEH-0805-233
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	320	310	310		300	280
Bicarbonate (HCO3) (dis)				350		
Calcium (Ca) (DIS)	55	35	34	58	43	51
Chloride (Cl)	47	27	30	31	30	31
Magnesium (Mg) (DIS)	9	6	6	13	7	8
Potassium (K) (DIS)	63	56	58	36	65	61
Sodium (Na) (DIS)	248	215	200	280	217	198
Sulfate (SO4)	442	295	328	436	349	360
Total Alkalinity As CaCO3	260	250	250	290	240	230

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)				0.009		<0.005 J
Selenium-VI (dis)				0.0085		<0.005 J
Aluminum (Al) (DIS)						<0.1
Aluminum (Al) (TOT)						0.3
Antimony (Sb) (DIS)						0.018
Antimony (Sb) (TOT)						0.018
Arsenic (As) (DIS)	9.93	8.74	8.7	11.16	8.485	5.595
Arsenic (As) (TOT)			8.6	11.9	8.14	5.6
Arsenic III (DIS)	11.5	7.99	7.66	13.8 A	8.18	4.01
Arsenic V (DIS)	1.3 J	1.83 J+	1.62	3.7 A	0.37	1.83
Barium (Ba) (DIS)						<0.1
Barium (Ba) (TOT)						<0.1
Beryllium (Be) (DIS)						<0.001
Beryllium (Be) (TOT)						<0.001
Cadmium (Cd) (DIS)	0.014	0.027	0.009	0.055	0.003	0.005 UJ
Cadmium (Cd) (TOT)			0.01 J	0.054	0.01	0.051
Chromium (Cr) (DIS)						<0.001
Chromium (Cr) (TOT)						<0.001
Cobalt (Co) (DIS)						<0.01
Cobalt (Co) (TOT)						<0.01
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)			<0.004	<0.004	<0.004 J	0.007
Iron (Fe) (DIS)	1.09	0.8	0.78	0.25	0.98	1.01
Iron (Fe) (TOT)			0.82	0.24	0.98	1.3
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)			<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.59	2.21	2.13	1.08	2.31	2.48
Manganese (Mn) (TOT)			2.16	0.92	2.36	2.53

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-35	DH-35	DH-35	DH-35	DH-35	DH-35
Water	SAMPLE DATE	11/20/2006	5/21/2007	10/2/2007	12/13/2007	2/13/2008	5/13/2008
	SAMPLE TIME	15:10	13:15	13:15	11:10	11:20	11:40
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06110172-004	H07050236-001	H07100027-006	H07120160-005	H08020101-004	H08050222-014
	SAMPLE NUMBER	AEH-0611-225	AEH-0705-198	AEH-0710-106	AEH-0711-253	AEH-0802-114	AEH-0805-233
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Metals (mg/L): ppm unless noted**

Mercury (Hg) (DIS)						<0.006
Mercury (Hg) (TOT)						<0.006
Nickel (Ni) (DIS)						<0.01
Nickel (Ni) (TOT)						<0.01
Selenium (Se) (DIS)			0.007	0.027	0.01	0.016 J
Selenium (Se) (TOT)			0.005	0.029	0.011	0.015
Silver (Ag) (DIS)						<0.005
Silver (Ag) (TOT)						<0.005
Thallium (Tl) (DIS)						<0.002
Thallium (Tl) (TOT)						<0.002
Vanadium (V) (DIS)						<0.01
Vanadium (V) (TOT)						<0.01
Zinc (Zn) (DIS)	<0.02	<0.01	0.02	<0.02	<0.01	0.01
Zinc (Zn) (TOT)			0.03	<0.02	<0.01	0.03

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	-92.9					
Oxygen (O) (DIS) (Fld)	0.3	0.24	0.35	0.29	0.26	0.32
pH	7.4	7.9	7.7	7.7	7.9	7.2
Water Elevation (ft) (Fld)	3884.93	3881.1	3883.77	3885	3882.11	3881.13
Depth To Water Level (ft)	26.21	30.04	27.37	30.05	32.94	33.92
pH (Fld)	7.25	7.25	6.82	7.29	7.11	6.98
SC (umhos/cm at 25 C) (Fld)	1557	1244	1191	1860	1411	1298
SC (umhos/cm at 25 C)	1540	1240	1230	1530	1310	1250
Total Suspended Solids	23	<10	<10	<10	27 J	<10
TDS (Measured at 180 C)	1070	855	871	1120	918	881
Water Temperature (C) (Fld)	12.81	12.1	10.96	10.1	10.4	13.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-35	DH-35	DH-35	DH-38	DH-38
Water	SAMPLE DATE	7/17/2008	11/11/2008	5/18/2009	12/16/1999	4/26/2000
	SAMPLE TIME	13:55	13:10	09:55	15:30	16:30
	LAB	ELI	ELI	ELI	TSC-SLC	TSC-SLC
	LAB NUMBER	H08070368-002	H08110126-012	H09050256-002	L992165009	L000631020
	SAMPLE NUMBER	AEH-0807-161	AEH-0811-220	AEH-0905-240	IMMW-9912-108	IMMW-0004-108
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	310	300	260	337	157
Calcium (Ca) (DIS)	60	52	58	119	143
Carbonate As CO3				72	<1
Chloride (Cl)	31	32	42	261	239
Magnesium (Mg) (DIS)	10	9	10	32	29
Potassium (K) (DIS)	61	57	58	64	50
Sodium (Na) (DIS)	190	187	183	1030	537
Sulfate (SO4)	390	360	410	2089	1442
Total Alkalinity As CaCO3	250	250	210	348	129

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005			
Selenium-VI (DIS)		<0.005			
Aluminum (Al) (DIS)		<0.1	<0.1		
Antimony (Sb) (DIS)		0.011	0.041		
Arsenic (As) (DIS)	5.035	6.34	4.63	31	21
Arsenic (As) (TOT)	5.1				
Arsenic III (DIS)	2.68	3.68 J		13	20
Arsenic V (DIS)	2.08	1.28 J		14	0.5
Barium (Ba) (DIS)		<0.1	<0.1		
Beryllium (Be) (DIS)		<0.001	<0.001		
Cadmium (Cd) (DIS)	0.018 J	0.003	0.213	<0.001	<0.001
Cadmium (Cd) (TOT)	0.023 J				
Chromium (Cr) (DIS)		<0.001	<0.001		
Cobalt (Co) (DIS)		<0.01	0.0025		
Copper (Cu) (DIS)	<0.004	<0.004	0.002	<0.004	<0.004 J
Copper (Cu) (TOT)	<0.004				
Gold (Au) (DIS)			0.01		
Iron (Fe) (DIS)	1.03	0.89	0.67	0.2 J	9.8
Iron (Fe) (TOT)	1.04				
Lead (Pb) (DIS)	<0.005 J	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	<0.005 J				
Manganese (Mn) (DIS)	2.71 J	2.32	2.82	1.3	5.5
Manganese (Mn) (TOT)	2.94				
Mercury (Hg) (DIS)		<0.006	<0.0001		
Nickel (Ni) (DIS)		<0.01	<0.01		
Selenium (Se) (DIS)	0.011	0.008	0.076		
Selenium (Se) (TOT)	0.01				
Silver (Ag) (DIS)		<0.005	<0.005		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-35	DH-35	DH-35	DH-38	DH-38
Water	SAMPLE DATE	7/17/2008	11/11/2008	5/18/2009	12/16/1999	4/26/2000
	SAMPLE TIME	13:55	13:10	09:55	15:30	16:30
	LAB	ELI	ELI	ELI	TSC-SLC	TSC-SLC
	LAB NUMBER	H08070368-002	H08110126-012	H09050256-002	L992165009	L000631020
	SAMPLE NUMBER	AEH-0807-161	AEH-0811-220	AEH-0905-240	IMMW-9912-108	IMMW-0004-108
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS					

**Metals (mg/L): ppm unless noted**

Tellurium (Te) (DIS)			<0.1		
Thallium (Tl) (DIS)		<0.002	<0.001		
Vanadium (V) (DIS)		<0.01	<0.01		
Zinc (Zn) (DIS)	<0.01	<0.02 J	0.03	<0.02	0.8
Zinc (Zn) (TOT)	<0.01				

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.16	1.8	2.16	1.5	4.4
pH	7.5	7.8	7.5	8.9	6.9
Water Elevation (ft) (Fld)	3883.72			3892.19	3890.19
Depth To Water Level (ft)	31.33	32.02	33.82	19.3	21.3
Eh (millivolts)				101	199
pH (Fld)	7.06	6.92	7.02	8.9	7.08
SC (umhos/cm at 25 C) (Fld)	1427	1288	1388	5520	3204
SC (umhos/cm at 25 C)	1310	1300	1390	5040	3280
Total Suspended Solids	<10	<10	<10		
TDS (Measured at 180 C)	978	865	952	3807	2936
Turbidity (NTU) (Fld)				18.7	10
Water Temperature (C) (Fld)	16.26	11.6	12.5	10	10.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-38	DH-38	DH-38	DH-38	DH-38	DH-38
Water	SAMPLE DATE	11/16/2000	5/2/2001	11/11/2001	6/1/2002	11/18/2002	6/1/2003
	SAMPLE TIME	10:45	14:00	14:10	08:40	08:50	09:35
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001922008	L010608027	L011564008	L020412025	L020959003	L030244004
	SAMPLE NUMBER	IMMW-0011-108	EHC-0105-141	EHC-0111-139	EHC-0205-144	EHC-0211-142	AEH-0306-143
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	277	418	556	517	805	1083
Calcium (Ca) (DIS)	149	124	69	36	24	22
Carbonate As CO3	<1	<1	36	<1	113	418
Chloride (Cl)	241	267	284	135	316	323
Magnesium (Mg) (DIS)	33	26	17	13	13	20
Potassium (K) (DIS)	60	65	70	40	57	67
Sodium (Na) (DIS)	727	611	842	735	1100	1610
Sulfate (SO4)	1601	1329	1278	1024	1460	2172
Total Alkalinity As CaCO3	227	343	516	424	848	1584

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	0.1 J		<0.05	0.2 U	<0.05 J	
Arsenic (As) (DIS)	29	12	32	28	55	91
Arsenic III (dis)	35	14	34	21	48	72
Arsenic V (dis)	0.7	<0.005	<0.005	2	2	19
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	0.002	<0.002	0.002
Copper (Cu) (DIS)	0.01 J	<0.004	0.03	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	13	2.4	1.5	2.1	0.6	0.4
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	0.03	<0.005	<0.005
Manganese (Mn) (DIS)	7.8 J	3.1	1.9	1.5	0.5 J	0.3
Zinc (Zn) (DIS)	0.6	<0.02	<0.02	0.09	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			-12.4	-87.8		
Oxygen (O) (DIS) (Fld)		1.5	0.3	0.2	0.4	0.2
pH	7	8.1	8.8	7.4	8.9	9.4
Silicon+Silica (Si+SiO2)	20		23	16	12	
Water Elevation (ft) (Fld)	3890.49	3889.89	3889.99	3888.69	3889.99	3889.89
Depth To Water Level (ft)	21	21.6	21.5	22.8	21.5	21.6
Eh (millivolts)	2.3	74	213			
pH (Fld)	8.2	7.5	8.7	8.3	7.7	8.2
SC (umhos/cm at 25 C) (Fld)	3450	3200	3620	3430	6260	8300
SC (umhos/cm at 25 C)	4000	3720	3930	3100	4940	7310
Total Suspended Solids		12	11 J	139	3.3	20
TDS (Measured at 180 C)	3049	2747	2844 J	2147	3502	5247
Salinity (G/KG) (Fld)					2.9	4.2
Turbidity (NTU) (Fld)					9	1
Water Temperature (C) (Fld)	11.1	9.5	12.2	8.7	10.5	8.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-38	DH-38	DH-38	DH-38	DH-38	DH-38
Water	SAMPLE DATE	10/26/2003	5/27/2004	11/3/2004	5/19/2005	11/18/2005	5/11/2006
	SAMPLE TIME	13:05	14:45	14:10	12:20	13:00	09:20
	LAB	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel
	LAB NUMBER	L030600009	H04050208-016	H04110037-017	C05050744-009	H05110164-010	H06050137-001
	SAMPLE NUMBER	AEH-0310-367	AEH-0405-214	AEH-0411-219	AEH-0505-209	AEH-0511-217	AEH-0605-221
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	905	1400	1400	1040	740	1100
Calcium (Ca) (DIS)	42	11	9	18	19	21
Carbonate As CO3	122					
Chloride (Cl)	255	170	200	161	155	125
Magnesium (Mg) (DIS)	17	9	6	14	13	10
Potassium (K) (DIS)	43	50	45	51	36	45
Sodium (Na) (DIS)	868	2546	2019	1290	1310	1398
Sulfate (SO4)	1512	1700	1850	1300	1400	1220
Total Alkalinity As CaCO3	946	3900	2700	1150	1100	1500

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	47	145.8	181.9	102	76.8	125.4
Arsenic III (dis)	48	19	17	72.7	21.7	58
Arsenic V (dis)	<0.05	190	140	16.5	59.3	76.7
Cadmium (Cd) (DIS)	<0.005	<0.001	0.002	<0.004	0.002	0.009
Copper (Cu) (DIS)	<0.004	0.018	0.009	0.006	0.012	0.028
Iron (Fe) (DIS)	3.5	0.08	0.07	0.41	0.22	0.62
Lead (Pb) (DIS)	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	2.4	0.06	0.05	0.31	0.3	0.51
Zinc (Zn) (DIS)	0.03	0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.24	0.33	0.36	1.02	0.78	1.25
pH	9.1	10.2	10.1	9.58	9.8	9.8
Water Elevation (ft) (Fld)	3889.54	3889.02	3891.39	3888.9	3891.03	3889.55
Depth To Water Level (ft)	21.95	22.47	20.1	22.59	20.46	21.94
pH (Fld)	9.45	10.41	10.14	9.86	9.79	9.58
SC (umhos/cm at 25 C) (Fld)	5050	1125	9192	5352	6660	6180
SC (umhos/cm at 25 C)	5390	9270	7290	4730	5640	5350
Total Suspended Solids	3.2	12	15	<10	<10	<10
TDS (Measured at 180 C)	3818	7950	5990	3340	4270	4070
TDS - Calculated				3530		
Salinity (G/KG) (Fld)	2.6					
Turbidity (NTU) (Fld)	9					
Water Temperature (C) (Fld)	11.4	9.4	10.6	8.92	10.67	9.26

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-38	DH-38	DH-38	DH-38	DH-38	DH-38
Water	SAMPLE DATE	11/20/2006	5/18/2007	10/2/2007	12/13/2007	2/12/2008	5/13/2008
	SAMPLE TIME	10:30	11:00	13:45	00:00	00:00	00:00
	LAB	ELI	ELI	ELI	Hydrometrics	Hydrometrics	
	LAB NUMBER	H06110166-004	H07050219-007	H07100027-007	AEH-0711-260	AEH-0802-109	AEH-0805-230
	SAMPLE NUMBER	AEH-0611-216	AEH-0705-182	AEH-0710-107	AEH-0711-260	AEH-0802-109	AEH-0805-230
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION				o Samp-Low SWL	No Samp-Dry	Dry
	REMARKS				No Sample	No Sample	No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	1200	380	990
Calcium (Ca) (DIS)	3	48	13
Chloride (Cl)	195	32	77
Magnesium (Mg) (DIS)	<1	13	7
Potassium (K) (DIS)	28	29	38
Sodium (Na) (DIS)	2628	404	912
Sulfate (SO4)	1940	617	1320
Total Alkalinity As CaCO3	3400	320	1000

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	263.7	19.1	72.9
Arsenic (As) (TOT)			110
Arsenic III (DIS)	<4 R	11.9 J	36.9
Arsenic V (DIS)	444 R	1.13 J+	54
Cadmium (Cd) (DIS)	0.029	<0.001	<0.001
Cadmium (Cd) (TOT)			0.012 J
Copper (Cu) (DIS)	0.068	<0.004	0.008
Copper (Cu) (TOT)			0.056
Iron (Fe) (DIS)	0.06	3.35	0.09 UJ
Iron (Fe) (TOT)			0.12 UJ
Lead (Pb) (DIS)	0.005	<0.005	<0.005
Lead (Pb) (TOT)			<0.005
Manganese (Mn) (DIS)	0.02	2.95	0.05
Manganese (Mn) (TOT)			0.05
Selenium (Se) (DIS)			0.193
Selenium (Se) (TOT)			1.34
Zinc (Zn) (DIS)	0.04	0.04	0.02
Zinc (Zn) (TOT)			0.09

**Other: ppm unless noted**

No Analysis		0.0	0.0	0.0
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**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	-65.8		
Oxygen (O) (DIS) (Fld)	3.41	0.88	0.38
pH	10.4	7.5	9.5
Water Elevation (ft) (Fld)	3891.7	3888.3	3890.49
Depth To Water Level (ft)	19.79	23.19	21
pH (Fld)	10.37	7.59	9.61
SC (umhos/cm at 25 C) (Fld)	9657	2048	4162
SC (umhos/cm at 25 C)	9330	1790	4370

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-38	DH-38	DH-38
Water	SAMPLE DATE	11/20/2006	5/18/2007	10/2/2007
	SAMPLE TIME	10:30	11:00	13:45
	LAB	ELI	ELI	ELI
	LAB NUMBER	H06110166-004	H07050219-007	H07100027-007
	SAMPLE NUMBER	AEH-0611-216	AEH-0705-182	AEH-0710-107
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION			
	REMARKS			

**Physical/Fid-Lab: ppm unless noted**

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Total Suspended Solids	40	17	<10
TDS (Measured at 180 C)	7440	1370	3350
Water Temperature (C) (Fld)	11.88	11.45	11.83

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-38	SDMW-1	SDMW-1	SDMW-1	SDMW-1
Water	SAMPLE DATE	7/17/2008	10/3/2007	12/5/2007	2/13/2008	5/13/2008
	SAMPLE TIME	00:00	11:35	14:50	08:50	12:15
	LAB	Hydrometrics	ELI	ELI	ELI	ELI
	LAB NUMBER	AEH-0807-157	H07100061-005	H07120050-010	H08020101-001	H08050222-015
	SAMPLE NUMBER	AEH-0807-157	AEH-0710-115	AEH-0711-204	AEH-0802-110	AEH-0805-234
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION	No Samp-Dry	New Well			
	REMARKS	No Sample				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	350		290	300
Bicarbonate (HCO3) (dis)		320		
Calcium (Ca) (DIS)	36	42	48	48
Chloride (Cl)	40	42	35	32
Magnesium (Mg) (DIS)	7	7	8	9
Potassium (K) (DIS)	44	56	56	56
Sodium (Na) (DIS)	225	225	201	197
Sulfate (SO4)	347	300	345	330
Total Alkalinity As CaCO3	290	260	240	250

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)		<0.005		<0.005
Selenium-VI (dis)		<0.005		<0.005 J
Aluminum (Al) (DIS)				<0.1
Aluminum (Al) (TOT)				8.3
Antimony (Sb) (DIS)				0.009
Antimony (Sb) (TOT)				0.009
Arsenic (As) (DIS)	16.06	13	10.46	9.94
Arsenic (As) (TOT)	16.4	12.84	10.3	10.2
Arsenic III (DIS)	11.3	6.76	5.99	5.28
Arsenic V (DIS)	5.52	7.08	5.98	4.79
Barium (Ba) (DIS)				<0.1
Barium (Ba) (TOT)				0.1
Beryllium (Be) (DIS)				<0.001
Beryllium (Be) (TOT)				<0.001
Cadmium (Cd) (DIS)	0.115	0.362	0.449	0.498
Cadmium (Cd) (TOT)	0.312	0.686	0.504	0.67
Chromium (Cr) (DIS)				<0.001
Chromium (Cr) (TOT)				0.005
Cobalt (Co) (DIS)				<0.01
Cobalt (Co) (TOT)				<0.01
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)	0.021	0.016	0.006 J	0.027
Iron (Fe) (DIS)	0.33 J	0.11	0.15	0.25
Iron (Fe) (TOT)	5.05	2.03	1.34	8.14
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	0.007 UJ	0.009	<0.005	0.011
Manganese (Mn) (DIS)	2.73	3.62	4.03	4.32
Manganese (Mn) (TOT)	2.86	3.87	4.5	4.62

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-38	SDMW-1	SDMW-1	SDMW-1	SDMW-1
Water	SAMPLE DATE	7/17/2008	10/3/2007	12/5/2007	2/13/2008	5/13/2008
	SAMPLE TIME	00:00	11:35	14:50	08:50	12:15
	LAB	Hydrometrics	ELI	ELI	ELI	ELI
	LAB NUMBER	AEH-0807-157	H07100061-005	H07120050-010	H08020101-001	H08050222-015
	SAMPLE NUMBER	AEH-0807-157	AEH-0710-115	AEH-0711-204	AEH-0802-110	AEH-0805-234
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION	No Samp-Dry	New Well			
	REMARKS	No Sample				

**Metals (mg/L): ppm unless noted**

Mercury (Hg) (DIS)					<0.006
Mercury (Hg) (TOT)					<0.006
Nickel (Ni) (DIS)					<0.01
Nickel (Ni) (TOT)					<0.01
Selenium (Se) (DIS)	0.007 J	0.011	0.006		0.011 J
Selenium (Se) (TOT)	<0.005	0.006	0.005		0.01
Silver (Ag) (DIS)					<0.005
Silver (Ag) (TOT)					<0.005
Thallium (Tl) (DIS)					<0.002
Thallium (Tl) (TOT)					<0.002
Vanadium (V) (DIS)					<0.01
Vanadium (V) (TOT)					0.02
Zinc (Zn) (DIS)	<0.01 J	<0.02	<0.01		0.01
Zinc (Zn) (TOT)	0.03	<0.02	<0.01		0.03

**Other: ppm unless noted**

No Analysis 0.0

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.3	0.88	0.28	0.21
pH	7.8	7.7	7.8	7.1
Water Elevation (ft) (Fld)	3878.59	3878.7	3875.22	3874.65
Depth To Water Level (ft)	32.37	32.26	35.74	36.31
pH (Fld)	7.05	7.1	6.73	7.01
SC (umhos/cm at 25 C) (Fld)	1322	1263	1431	1252
SC (umhos/cm at 25 C)	1440	1350	1320	1210
Total Suspended Solids	93	81	15 J	2000 J+
TDS (Measured at 180 C)	973	942	920	839
Water Temperature (C) (Fld)	11.46	9.6	11.3	12.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SDMW-1	SDMW-1	SDMW-1	SDMW-1	SDMW-2
Water	SAMPLE DATE	7/17/2008	11/12/2008	5/18/2009	5/18/2009	10/4/2007
	SAMPLE TIME	14:20	14:36	10:25	10:30	10:30
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08070368-003	H08110140-012	H09050256-003	H09050256-004	H07100074-003
	SAMPLE NUMBER	AEH-0807-162	AEH-0811-235	AEH-0905-241	AEH-0905-242	AEH-0710-123
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					New Well
	REMARKS				Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	320	260	270	270	550
Calcium (Ca) (DIS)	53	55	57	57	14
Chloride (Cl)	34	30	23	23	40
Magnesium (Mg) (DIS)	11	11	11	11	4
Potassium (K) (DIS)	34	45	36	36	9
Sodium (Na) (DIS)	179	149	128	128	445
Sulfate (SO4)	330	310	290	280	532
Total Alkalinity As CaCO3	260	210	220	220	470

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005			
Selenium-VI (DIS)		0.011			
Aluminum (Al) (DIS)		<0.1	<0.1	<0.1	
Antimony (Sb) (DIS)		0.013	0.018	0.017	
Arsenic (As) (DIS)	8.34	6.26	4.26	4.29	53.2
Arsenic (As) (TOT)	9.02				53.9
Arsenic III (DIS)	5.15	2.13			48.6
Arsenic V (DIS)	2.71	5.14			<0.125
Barium (Ba) (DIS)		<0.1	<0.1	<0.1	
Beryllium (Be) (DIS)		<0.001	<0.001	<0.001	
Cadmium (Cd) (DIS)	0.255 J	0.527	0.62	0.619	<0.001
Cadmium (Cd) (TOT)	0.302				0.159
Chromium (Cr) (DIS)		<0.001	0.002	0.001	
Cobalt (Co) (DIS)		<0.01	0.0048	0.0046	
Copper (Cu) (DIS)	<0.004	<0.004	0.001	0.001	0.025
Copper (Cu) (TOT)	<0.004				0.019
Gold (Au) (DIS)			0.02	0.02	
Iron (Fe) (DIS)	1.23	0.33	0.27	0.28	0.06
Iron (Fe) (TOT)	1.54				3.25
Lead (Pb) (DIS)	<0.005 J	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	<0.005				0.007 UJ
Manganese (Mn) (DIS)	3.5 J	4.39	4.28	4.31	0.55
Manganese (Mn) (TOT)	3.87				0.66
Mercury (Hg) (DIS)		<0.006	<0.0001	<0.0001	
Nickel (Ni) (DIS)		<0.01	<0.01	<0.01	
Selenium (Se) (DIS)	0.022	0.016	0.041	0.041	0.008
Selenium (Se) (TOT)	0.021				0.007
Silver (Ag) (DIS)		<0.005	<0.005	<0.005	
Tellurium (Te) (DIS)			<0.1	<0.1	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SDMW-1	SDMW-1	SDMW-1	SDMW-1	SDMW-2
Water	SAMPLE DATE	7/17/2008	11/12/2008	5/18/2009	5/18/2009	10/4/2007
	SAMPLE TIME	14:20	14:36	10:25	10:30	10:30
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08070368-003	H08110140-012	H09050256-003	H09050256-004	H07100074-003
	SAMPLE NUMBER	AEH-0807-162	AEH-0811-235	AEH-0905-241	AEH-0905-242	AEH-0710-123
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					New Well
	REMARKS				Field Duplicate	
<b>Metals (mg/L): ppm unless noted</b>						
	Thallium (Tl) (DIS)		<0.002	<0.001	<0.001	
	Vanadium (V) (DIS)		<0.01	<0.01	<0.01	
	Zinc (Zn) (DIS)	<0.01	<0.02	<0.01	<0.01	<0.01
	Zinc (Zn) (TOT)	<0.01				0.2
<b>Physical/Fld-Lab: ppm unless noted</b>						
	Oxygen (O) (DIS) (Fld)	0.16	0.27	0.18		0.32
	pH	7.4	7.3	7.3	7.4	8.5
	Water Elevation (ft) (Fld)	3878.55				3878.82
	Depth To Water Level (ft)	32.41	33.3	34.94		32.11
	pH (Fld)	6.84	6.74	6.86		8.48
	SC (umhos/cm at 25 C) (Fld)	1324	1123	1073		1838
	SC (umhos/cm at 25 C)	1240	1130	1080	1070	2120
	Total Suspended Solids	11 J+	49	<10	<10	51
	TDS (Measured at 180 C)	861	747	728	736	1460
	Water Temperature (C) (Fld)	11.6	11.39	11.6		11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SDMW-2	SDMW-2	SDMW-2	SDMW-2	SDMW-2	SDMW-2
Water	SAMPLE DATE	12/12/2007	2/12/2008	5/16/2008	7/17/2008	11/17/2008	5/19/2009
	SAMPLE TIME	10:45	14:10	10:10	14:50	12:25	15:35
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07120134-005	H08020090-005	H08050289-001	H08070368-004	H08110187-006	H09050287-011
	SAMPLE NUMBER	AEH-0711-239	AEH-0802-105	AEH-0805-264	AEH-0807-163	AEH-0811-256	AEH-0905-265
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		460	370	510	370	330
Bicarbonate (HCO3) (dis)	460					
Calcium (Ca) (dis)	19	51	74	70	90	61
Chloride (Cl)	42	55	69	76	70	49
Magnesium (Mg) (dis)	6	15	19	20	23	16
Potassium (K) (dis)	11	18	21	14	24	20
Sodium (Na) (dis)	382	366	337	472	387	378
Sulfate (SO4)	382	490	700	800	890	700
Total Alkalinity As CaCO3	370	380	310	420	300	270

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)	<0.005		<0.005 J		<0.005 J	
Selenium-VI (dis)	<0.005		<0.005 J		<0.005 J	
Aluminum (Al) (DIS)			<0.1		<0.1	<0.1
Aluminum (Al) (TOT)			1.8			
Antimony (Sb) (DIS)			<0.005		<0.005	<0.003
Antimony (Sb) (TOT)			<0.005			
Arsenic (As) (DIS)	48.4	41.4	32.78	38.89	28.5	24.2
Arsenic (As) (TOT)	44.3	43.5	35.5	39.6		
Arsenic III (dis)	46.9	35.6	29.2	33	24.6	
Arsenic V (dis)	<0.624	1.17	1.23	0.441	0.322	
Barium (Ba) (DIS)			<0.1		<0.1	<0.1
Barium (Ba) (TOT)			<0.1			
Beryllium (Be) (DIS)			<0.001		<0.001	<0.001
Beryllium (Be) (TOT)			<0.001			
Cadmium (Cd) (dis)	<0.001	<0.001	<0.001	0.001 J	<0.001	0.001
Cadmium (Cd) (tot)	0.344	0.023	0.056	0.061		
Chromium (Cr) (DIS)			<0.001		<0.001	0.002
Chromium (Cr) (TOT)			0.001			
Cobalt (Co) (DIS)			<0.01		0.02	0.0145
Cobalt (Co) (TOT)			<0.01			
Copper (Cu) (dis)	<0.004	<0.004	<0.004	<0.004	<0.004	0.001
Copper (Cu) (TOT)	0.049	<0.004	0.008	0.009		
Gold (Au) (DIS)						0.04
Iron (Fe) (dis)	0.75	5.18	10.16	5.89	15.3	11.3
Iron (Fe) (tot)	11.4	5.72	12	7.01		
Lead (Pb) (dis)	<0.005	<0.005	<0.005	<0.005 J	<0.005	<0.005
Lead (Pb) (TOT)	0.023	<0.005	<0.005	<0.005		
Manganese (Mn) (dis)	1.81	6.71	9.85	7.12 J	11.1	7.16

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SDMW-2	SDMW-2	SDMW-2	SDMW-2	SDMW-2	SDMW-2
Water	SAMPLE DATE	12/12/2007	2/12/2008	5/16/2008	7/17/2008	11/17/2008	5/19/2009
	SAMPLE TIME	10:45	14:10	10:10	14:50	12:25	15:35
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07120134-005	H08020090-005	H08050289-001	H08070368-004	H08110187-006	H09050287-011
	SAMPLE NUMBER	AEH-0711-239	AEH-0802-105	AEH-0805-264	AEH-0807-163	AEH-0811-256	AEH-0905-265
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Metals (mg/L): ppm unless noted**

Manganese (Mn) (TOT)	2.07	7.12	9.66	7.65		
Mercury (Hg) (DIS)			<0.006		<0.006	<0.0001
Mercury (Hg) (TOT)			<0.006			
Nickel (Ni) (DIS)			<0.01		0.01	<0.01
Nickel (Ni) (TOT)			<0.01			
Selenium (Se) (DIS)	0.008	0.012	0.02 J	0.014	0.027	0.036
Selenium (Se) (TOT)	0.009	0.01	0.017	0.012		
Silver (Ag) (DIS)			<0.005		<0.005 J-	<0.005
Silver (Ag) (TOT)			<0.005			
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)			0.01		0.013	0.015
Thallium (Tl) (TOT)			0.01			
Vanadium (V) (DIS)			<0.01		<0.01	<0.01
Vanadium (V) (TOT)			<0.01			
Zinc (Zn) (dis)	0.04	0.18	0.39	0.2	0.71	0.61
Zinc (Zn) (tot)	0.55	0.21	0.49	0.3		

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.36	0.13	0.22	0.16	0.37	0.16
pH	7.4	7.5	6.8	7.2	6.7	7.1
Water Elevation (ft) (Fld)	3878.91	3875.72	3875.14	3878.41		
Depth To Water Level (ft)	32.02	35.21	35.79	32.52	32.84	35.09
pH (Fld)	7.44	6.8	6.69	6.92	6.51	6.64
SC (umhos/cm at 25 C) (Fld)	1842	2014	1925	2652	2383	2130
SC (umhos/cm at 25 C)	1780	1880	2000	2460	2440	2090
Total Suspended Solids	269	26	50	186 J+	94	77
TDS (Measured at 180 C)	1210	1330	1460	1750	1670	1420
Water Temperature (C) (Fld)	10.4	11.1	11.4	16	10.6	12.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SDMW-3	SDMW-3	SDMW-3	SDMW-3	SDMW-3	SDMW-3
Water	SAMPLE DATE	10/3/2007	12/13/2007	2/13/2008	5/13/2008	7/17/2008	11/13/2008
	SAMPLE TIME	14:00	09:50	13:20	10:10	15:50	10:48
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07100061-007	H07120160-003	H08020101-008	H08050222-011	H08070368-006	H08110162-005
	SAMPLE NUMBER	AEH-0710-117	AEH-0711-250	AEH-0802-118	AEH-0805-223	AEH-0807-165	AEH-0811-241
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION	New Well					
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	17		13	9	<1	15
Bicarbonate (HCO3) (dis)		16				
Calcium (Ca) (DIS)	9	10	13	19	35	18
Chloride (Cl)	17	19	23	31	33	28
Magnesium (Mg) (DIS)	2	2	2	4	8	4
Potassium (K) (DIS)	13	17	17	20	24	21
Sodium (Na) (DIS)	67	94	89	120	137	110
Sulfate (SO4)	180	230	250	320	430	340
Total Acidity As CACO3					35	
Total Alkalinity As CACO3	14	13	11	7	<1	12

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)		<0.005		<0.005		<0.005 J
Selenium-VI (dis)		<0.005		<0.005 J		<0.005 J
Aluminum (Al) (DIS)				1.4		1
Aluminum (Al) (TOT)				3.7		
Antimony (Sb) (DIS)				<0.005		<0.005
Antimony (Sb) (TOT)				<0.005		
Arsenic (As) (DIS)	9.51	10.28	10.28	10.32	10.56	9.15
Arsenic (As) (TOT)	9.56	10.5	10.6	10.4	10.2	
Arsenic III (DIS)	9.73	13.5 J	12	10.3	8.04	8.51
Arsenic V (DIS)	<0.0624	<0.25	<0.0624 J	0.212	0.581	2.17 J
Barium (Ba) (DIS)				<0.1		<0.1
Barium (Ba) (TOT)				<0.1		
Beryllium (Be) (DIS)				<0.001		<0.001
Beryllium (Be) (TOT)				<0.001		
Cadmium (Cd) (DIS)	0.298	0.257	0.325	0.432	0.646	0.371
Cadmium (Cd) (TOT)	0.745	0.366	2.98	0.578	0.652	
Chromium (Cr) (DIS)				<0.001		<0.001
Chromium (Cr) (TOT)				0.002		
Cobalt (Co) (DIS)				0.01		0.01
Cobalt (Co) (TOT)				0.01		
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)	0.097	0.025	0.593	0.026	0.01	
Iron (Fe) (DIS)	2.72	2.93	3.58	5.44	9.67	4.89
Iron (Fe) (TOT)	7.52	3.62	34.9	7.46	9.37	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005 J	<0.005
Lead (Pb) (TOT)	0.007 UJ	<0.005	0.04	<0.005	<0.005	
Manganese (Mn) (DIS)	0.8	0.91	1.01	1.66	2.53 J	1.47

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SDMW-3	SDMW-3	SDMW-3	SDMW-3	SDMW-3	SDMW-3
Water	SAMPLE DATE	10/3/2007	12/13/2007	2/13/2008	5/13/2008	7/17/2008	11/13/2008
	SAMPLE TIME	14:00	09:50	13:20	10:10	15:50	10:48
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07100061-007	H07120160-003	H08020101-008	H08050222-011	H08070368-006	H08110162-005
	SAMPLE NUMBER	AEH-0710-117	AEH-0711-250	AEH-0802-118	AEH-0805-223	AEH-0807-165	AEH-0811-241
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION	New Well					
	REMARKS						

**Metals (mg/L): ppm unless noted**

Manganese (Mn) (TOT)	0.87	0.82	1.4	1.64	2.59	
Mercury (Hg) (DIS)				<0.006		<0.006
Mercury (Hg) (TOT)				<0.006		
Nickel (Ni) (DIS)				<0.01		0.01
Nickel (Ni) (TOT)				0.01		
Selenium (Se) (DIS)	0.006 J	0.006	0.007	0.007 J	0.009	0.016
Selenium (Se) (TOT)	<0.005	<0.005	0.008	0.006	0.005	
Silver (Ag) (DIS)				<0.005		<0.005
Silver (Ag) (TOT)				<0.005		
Thallium (Tl) (DIS)				0.111		0.107
Thallium (Tl) (TOT)				0.116		
Vanadium (V) (DIS)				<0.01		<0.01
Vanadium (V) (TOT)				<0.01		
Zinc (Zn) (DIS)	1.39	1.58	1.74	2.79	3.87	2.45
Zinc (Zn) (TOT)	1.67	1.45	3.45	2.79	3.98	

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.35	0.2	0.42	0.29	0.16	0.35
pH	5.6	5.7	5.3	5.3	4.3	5.4
Water Elevation (ft) (Fld)	3884.82	3884.98	3883.15	3882.74	3885.1	
Depth To Water Level (ft)	30	29.84	31.67	32.08	29.72	29.98
pH (Fld)	5.19	5.41	6.15	5.25	4.9	5.05
SC (umhos/cm at 25 C) (Fld)	510	684	708	891	1120	878
SC (umhos/cm at 25 C)	588	605	686	859	1090	889
Total Suspended Solids	230	26	684	31 J+	33 J+	43
TDS (Measured at 180 C)	347	380	433	556	706	551
Water Temperature (C) (Fld)	9.87	9.6	9.8	10.5	11.7	10.25

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SDMW-3	SDMW-4	SDMW-4	SDMW-4	SDMW-4
Water	SAMPLE DATE	5/18/2009	10/3/2007	12/5/2007	2/13/2008	2/13/2008
	SAMPLE TIME	13:55	13:30	14:12	10:05	10:15
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H09050256-011	H07100061-006	H07120050-009	H08020101-002	H08020101-003
	SAMPLE NUMBER	AEH-0905-249	AEH-0710-116	AEH-0711-203	AEH-0802-112	AEH-0802-113
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION		New Well			
	REMARKS					Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	5 UJ	270		270	260
Bicarbonate (HCO3) (dis)			280		
Calcium (Ca) (DIS)	20	118	119	94	93
Chloride (Cl)	23	50	43	37	32
Magnesium (Mg) (DIS)	4	24	25	19	19
Potassium (K) (DIS)	21	7	7	7	6
Sodium (Na) (DIS)	131	128	111	133	133
Sulfate (SO4)	330	407	337	326	319
Total Alkalinity As CaCO3	4 UJ	220	230	220	220

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)			<0.005		
Selenium-VI (dis)			<0.005		
Aluminum (Al) (DIS)	1.2				
Antimony (Sb) (DIS)	<0.003				
Arsenic (As) (DIS)	8.72	0.095	0.009	0.311	0.303
Arsenic (As) (TOT)		0.151	0.02	0.267	0.254
Arsenic III (DIS)		0.0098	0.0198	0.15	0.128
Arsenic V (DIS)		0.0832	0.017	0.111 J	0.0835 J
Barium (Ba) (DIS)	<0.1				
Beryllium (Be) (DIS)	<0.001				
Cadmium (Cd) (DIS)	0.464	0.003	0.002	0.003	0.002
Cadmium (Cd) (TOT)		0.005 UJ	0.002	0.003	0.003
Chromium (Cr) (DIS)	<0.001				
Cobalt (Co) (DIS)	0.0153				
Copper (Cu) (DIS)	0.002	0.006	0.013 UJ	0.005	0.005
Copper (Cu) (TOT)		0.058	0.013	0.023 J	0.019 J
Gold (Au) (DIS)	<0.01				
Iron (Fe) (DIS)	5.65	0.08 UJ	<0.02	0.03	0.02
Iron (Fe) (TOT)		13.7	1.26	4.98	4.12
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)		0.017 UJ	0.006	0.006	0.005
Manganese (Mn) (DIS)	1.67	6.46	6.58	4.68	4.68
Manganese (Mn) (TOT)		7.46	7.11	5.41	5.45
Mercury (Hg) (DIS)	<0.0001				
Nickel (Ni) (DIS)	0.01				
Selenium (Se) (DIS)	0.012	0.01 J	0.01	0.006	0.007
Selenium (Se) (TOT)		0.008	0.008	<0.005	0.006
Silver (Ag) (DIS)	<0.005				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SDMW-3	SDMW-4	SDMW-4	SDMW-4	SDMW-4
Water	SAMPLE DATE	5/18/2009	10/3/2007	12/5/2007	2/13/2008	2/13/2008
	SAMPLE TIME	13:55	13:30	14:12	10:05	10:15
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H09050256-011	H07100061-006	H07120050-009	H08020101-002	H08020101-003
	SAMPLE NUMBER	AEH-0905-249	AEH-0710-116	AEH-0711-203	AEH-0802-112	AEH-0802-113
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION		New Well			
	REMARKS					Field Duplicate

  

Metals (mg/L): ppm unless noted						
Tellurium (Te) (DIS)	<0.1					
Thallium (Tl) (DIS)	0.118					
Vanadium (V) (DIS)	<0.01					
Zinc (Zn) (DIS)	2.86	<0.01 J	<0.02	<0.01	<0.01	<0.01
Zinc (Zn) (TOT)		0.09	<0.02	0.03	0.03	0.03

  

Physical/Fid-Lab: ppm unless noted						
Oxygen (O) (DIS) (Fld)	0.22	0.32	0.42	0.25		
pH	5.4	7.3	7.4	7.7		7.7
Water Elevation (ft) (Fld)		3887.37	3887.25	3884.58		
Depth To Water Level (ft)	31.74	27.03	27.15	29.82		
pH (Fld)	5.1	6.54	7.05	6.83		
SC (umhos/cm at 25 C) (Fld)	977	1189	1215	1175		
SC (umhos/cm at 25 C)	984	1330	1200	1080		1080
Total Suspended Solids	70	353	58	168 J		121 J
TDS (Measured at 180 C)	621	956	870	794		792
Water Temperature (C) (Fld)	11.2	11.05	10.4	10.9		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SDMW-4	SDMW-4	SDMW-4	SDMW-4	SDMW-4
Water	SAMPLE DATE	5/6/2008	5/6/2008	7/17/2008	11/6/2008	5/13/2009
	SAMPLE TIME	12:50	13:15	10:40	12:43	10:40
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08050097-011	H08050097-012	H08070356-006	H08110088-009	H09050210-006
	SAMPLE NUMBER	AEH-0805-160	AEH-0805-161	AEH-0807-158	AEH-0811-188	AEH-0905-193
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS		Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	270	270	260	270	260
Calcium (Ca) (DIS)	104 J-	103 J-	86	78	76
Chloride (Cl)	29	30	27	25	20
Magnesium (Mg) (DIS)	22	22	18	17	17
Potassium (K) (DIS)	7	7	4	6	6
Sodium (Na) (DIS)	117	118	116	121	97
Sulfate (SO4)	300	310	300	260	240
Total Alkalinity As CaCO3	220	220	210	220	210

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005		<0.005 J	
Selenium-VI (DIS)	<0.005	<0.005		<0.005 J	
Aluminum (Al) (DIS)	<0.1	<0.1		<0.1	<0.1
Aluminum (Al) (TOT)	2.4	2.2			
Antimony (Sb) (DIS)	<0.005	<0.005		<0.005	<0.003
Antimony (Sb) (TOT)	<0.005	<0.005			
Arsenic (As) (DIS)	0.186	0.214	0.248	0.159	0.021
Arsenic (As) (TOT)	0.288	0.28	0.237		
Arsenic III (DIS)	0.139	0.168	0.124 J-	0.0574 J	
Arsenic V (DIS)	0.0929	0.0924	0.0547	0.0674 J	
Barium (Ba) (DIS)	<0.1	<0.1		<0.1	<0.1
Barium (Ba) (TOT)	<0.1	<0.1			
Beryllium (Be) (DIS)	<0.001	<0.001		<0.001	<0.001
Beryllium (Be) (TOT)	<0.001	<0.001			
Cadmium (Cd) (DIS)	<0.001	0.001	<0.001	0.001	<0.001
Cadmium (Cd) (TOT)	0.001	0.001	0.001		
Chromium (Cr) (DIS)	<0.001	<0.001		<0.001	<0.001
Chromium (Cr) (TOT)	0.002 UJ	0.002 UJ			
Cobalt (Co) (DIS)	<0.01	<0.01		<0.01	0.0036 J
Cobalt (Co) (TOT)	<0.01	<0.01			
Copper (Cu) (DIS)	0.006	0.005	0.005	0.006	0.007 UJ
Copper (Cu) (TOT)	0.012	0.011	0.01		
Gold (Au) (DIS)					0.02
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
Iron (Fe) (TOT)	1.55	1.42	0.79		
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	<0.005	<0.005	<0.005		
Manganese (Mn) (DIS)	5.42	5.44	4	4.11	3.97
Manganese (Mn) (TOT)	4.55	4.46	4.25		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SDMW-4	SDMW-4	SDMW-4	SDMW-4	SDMW-4
Water	SAMPLE DATE	5/6/2008	5/6/2008	7/17/2008	11/6/2008	5/13/2009
	SAMPLE TIME	12:50	13:15	10:40	12:43	10:40
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08050097-011	H08050097-012	H08070356-006	H08110088-009	H09050210-006
	SAMPLE NUMBER	AEH-0805-160	AEH-0805-161	AEH-0807-158	AEH-0811-188	AEH-0905-193
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS		Field Duplicate			

### Metals (mg/L): ppm unless noted

Mercury (Hg) (DIS)	<0.006	<0.006		<0.006	<0.001
Mercury (Hg) (TOT)	<0.006	<0.006			
Nickel (Ni) (DIS)	<0.01	<0.01		<0.01	<0.01
Nickel (Ni) (TOT)	<0.01	<0.01			
Selenium (Se) (DIS)	0.007	0.007	<0.005	0.007	0.009
Selenium (Se) (TOT)	<0.005	<0.005	<0.005		
Silver (Ag) (DIS)	<0.005	<0.005		<0.005	<0.005
Silver (Ag) (TOT)	<0.005	<0.005			
Tellurium (Te) (DIS)					<0.1
Thallium (Tl) (DIS)	0.003	0.002		<0.002	0.002
Thallium (Tl) (TOT)	<0.002	<0.002			
Vanadium (V) (DIS)	<0.01	<0.01		<0.01	<0.01
Vanadium (V) (TOT)	<0.01	<0.01			
Zinc (Zn) (DIS)	0.01	<0.01	<0.01	<0.02	0.01 UJ
Zinc (Zn) (TOT)	0.01	0.01	0.02		

### Physical/Fld-Lab: ppm unless noted

Oxygen (O) (DIS) (Fld)	0.45		0.36	0.29	0.51
pH	7.2	7.2	7.4	7.6	7.4
Water Elevation (ft) (Fld)	3884.41		3887.44		
Depth To Water Level (ft)	29.99		26.96	28.51	29.44
pH (Fld)	6.79		6.84	6.76	7.07
SC (umhos/cm at 25 C) (Fld)	1073		1077	975	941
SC (umhos/cm at 25 C)	1040	1040	1000	959	940
Total Suspended Solids	16	13	18 J+	630	378
TDS (Measured at 180 C)	738	739	718	670	655
Water Temperature (C) (Fld)	11		10.8	10.61	10.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SDMW-5	SDMW-5	SDMW-5	SDMW-5	SDMW-5	SDMW-5
Water	SAMPLE DATE	10/3/2007	12/13/2007	12/13/2007	2/14/2008	5/13/2008	7/17/2008
	SAMPLE TIME	14:30	09:00	09:10	09:25	10:40	15:20
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07100061-009	H07120160-001	H07120160-002	H08020113-001	H08050222-012	H08070368-005
	SAMPLE NUMBER	AEH-0710-119	AEH-0711-248	AEH-0711-249	AEH-0802-123	AEH-0805-224	AEH-0807-164
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION	New Well					
	REMARKS			Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	10			10 UJ	21	28
Bicarbonate (HCO3) (dis)		18	20			
Calcium (Ca) (DIS)	48	43	44	42	32	28
Chloride (Cl)	31	25	27	25	17	16
Magnesium (Mg) (DIS)	15	14	14	13	10	9
Potassium (K) (DIS)	20	20	21	20	18	10
Sodium (Na) (DIS)	90	92	98	87	78	63
Sulfate (SO4)	454	395	375	352	290	260
Total Alkalinity As CaCO3	8	15	17	8 UJ	17	23

**Metals (mg/L): ppm unless noted**

Selenium-IV (dis)		<0.005	<0.005		<0.005	
Selenium-VI (dis)		<0.005	<0.005		<0.005 J	
Aluminum (Al) (DIS)					1.2	
Aluminum (Al) (TOT)					2.2	
Antimony (Sb) (DIS)					<0.005	
Antimony (Sb) (TOT)					<0.005	
Arsenic (As) (DIS)	13.17	13.62	13.5	12.12	11.75	11.86
Arsenic (As) (TOT)	12.6	13.2	13.4	12.4	12	11.9
Arsenic III (DIS)	12.3	10.6 J	8.55 J	11.6	11.3	10.1
Arsenic V (DIS)	1.27	7.14	8.08	<0.0499	0.482	0.686
Barium (Ba) (DIS)					<0.1	
Barium (Ba) (TOT)					<0.1	
Beryllium (Be) (DIS)					0.003	
Beryllium (Be) (TOT)					0.003	
Cadmium (Cd) (DIS)	0.656	0.592	0.632	0.767	0.667	0.485 J
Cadmium (Cd) (TOT)	0.871	0.824	0.795	1.45	0.724	0.54
Chromium (Cr) (DIS)					<0.001	
Chromium (Cr) (TOT)					<0.001	
Cobalt (Co) (DIS)					0.02	
Cobalt (Co) (TOT)					0.02	
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)	0.019	0.009	0.011	0.127	<0.004	0.008
Iron (Fe) (DIS)	14.89	13.16	13.24	12.09	9.55	8.35
Iron (Fe) (TOT)	19.1	14.2	14.2	46.4	10.8	9.53
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 J
Lead (Pb) (TOT)	0.005 UJ	<0.005	<0.005	0.034	<0.005	<0.005
Manganese (Mn) (DIS)	5.4	4.89	4.98	4.77	3.47	2.91 J
Manganese (Mn) (TOT)	5.6	4.81	4.68	5.02	3.58	2.99

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SDMW-5	SDMW-5	SDMW-5	SDMW-5	SDMW-5	SDMW-5
Water	SAMPLE DATE	10/3/2007	12/13/2007	12/13/2007	2/14/2008	5/13/2008	7/17/2008
	SAMPLE TIME	14:30	09:00	09:10	09:25	10:40	15:20
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07100061-009	H07120160-001	H07120160-002	H08020113-001	H08050222-012	H08070368-005
	SAMPLE NUMBER	AEH-0710-119	AEH-0711-248	AEH-0711-249	AEH-0802-123	AEH-0805-224	AEH-0807-164
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION	New Well					
	REMARKS			Field Duplicate			

**Metals (mg/L): ppm unless noted**

Mercury (Hg) (DIS)						<0.006	
Mercury (Hg) (TOT)						<0.006	
Nickel (Ni) (DIS)						0.02	
Nickel (Ni) (TOT)						0.02	
Selenium (Se) (DIS)	0.009 J	0.007	0.007	0.007	0.007	0.006 J	<0.005 J
Selenium (Se) (TOT)	0.006	0.005	<0.005	0.006	0.006	0.006	<0.005
Silver (Ag) (DIS)						<0.005	
Silver (Ag) (TOT)						<0.005	
Thallium (Tl) (DIS)						0.023	
Thallium (Tl) (TOT)						0.024	
Vanadium (V) (DIS)						<0.01	
Vanadium (V) (TOT)						<0.01	
Zinc (Zn) (DIS)	7.76	7.19	7.34	7.33	7.33	5.74	4.33
Zinc (Zn) (TOT)	8.31	7.42	7.2	8.76	8.76	5.65	4.44

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.39	0.21		0.39	0.23	0.16	
pH	5.9	5.9	6	5.5	5.8	6	
Water Elevation (ft) (Fld)	3878.76	3883.68		3875.96	3875.4	3878.46	
Depth To Water Level (ft)	39.32	34.4		42.12	42.68	39.62	
pH (Fld)	5.35	6.02		5.67	5.39	5.49	
SC (umhos/cm at 25 C) (Fld)	964	1107		966	783	741	
SC (umhos/cm at 25 C)	1090	940	934	936	760	689	
Total Suspended Solids	139	40	33	801	25 J+	73 J+	
TDS (Measured at 180 C)	757	668	664	651	537	473	
Water Temperature (C) (Fld)	10.26	9.9		9.2	10.7	13.2	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SDMW-5	SDMW-5	TW-1	TW-1	TW-1
Water	SAMPLE DATE	11/13/2008	5/18/2009	12/4/2006	10/2/2007	12/12/2007
	SAMPLE TIME	11:22	13:20	10:10	09:30	14:10
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08110162-006	H09050256-009	H06120014-002	H07100027-001	H07120134-010
	SAMPLE NUMBER	AEH-0811-242	AEH-0905-247	AEH-0611-228	AEH-0710-100	AEH-0711-244
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	22	28	850	680	
Bicarbonate (HCO3) (dis)					690
Calcium (Ca) (DIS)	35	24	8	6	76
Chloride (Cl)	23	12	130	50	200
Magnesium (Mg) (DIS)	12	8	2	4	70
Potassium (K) (DIS)	18	15	9	8	18
Sodium (Na) (DIS)	72	60	909	792	1043
Sulfate (SO4)	320	240	1050	878	1600
Total Alkalinity As CaCO3	18	23	870	730	560

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005				0.0079
Selenium-VI (DIS)	<0.005				0.0071
Aluminum (Al) (DIS)	1.1	0.9			
Antimony (Sb) (DIS)	<0.005	<0.003			
Arsenic (As) (DIS)	11.9	11.6	155.7	139.8	22.02
Arsenic (As) (TOT)				212	20.6
Arsenic III (DIS)	4.16		179	134	17
Arsenic V (DIS)	9.26 J		<0.7	5.71	1.64
Barium (Ba) (DIS)	<0.1	<0.1			
Beryllium (Be) (DIS)	0.003	0.002			
Cadmium (Cd) (DIS)	0.782	0.602	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)				0.007 J	0.001
Chromium (Cr) (DIS)	<0.001	<0.001			
Cobalt (Co) (DIS)	0.03	0.0204			
Copper (Cu) (DIS)	<0.004	<0.001	<0.004	<0.004	<0.004
Copper (Cu) (TOT)				0.021	0.016
Gold (Au) (DIS)		0.02			
Iron (Fe) (DIS)	10.2	7.02	0.11	0.49	2.08
Iron (Fe) (TOT)				0.92	2.71
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)				0.015 UJ	0.016
Manganese (Mn) (DIS)	3.79	2.59	0.06	0.07	2.38
Manganese (Mn) (TOT)				0.1	2.32
Mercury (Hg) (DIS)	<0.006	<0.0001			
Nickel (Ni) (DIS)	0.02	0.02			
Selenium (Se) (DIS)	0.007	0.004		0.015	0.025
Selenium (Se) (TOT)				0.136	0.027
Silver (Ag) (DIS)	<0.005	<0.005			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SDMW-5	SDMW-5	TW-1	TW-1	TW-1
Water	SAMPLE DATE	11/13/2008	5/18/2009	12/4/2006	10/2/2007	12/12/2007
	SAMPLE TIME	11:22	13:20	10:10	09:30	14:10
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08110162-006	H09050256-009	H06120014-002	H07100027-001	H07120134-010
	SAMPLE NUMBER	AEH-0811-242	AEH-0905-247	AEH-0611-228	AEH-0710-100	AEH-0711-244
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS					

### Metals (mg/L): ppm unless noted

Tellurium (Te) (DIS)			<0.1			
Thallium (Tl) (DIS)	0.024		0.022			
Vanadium (V) (DIS)	<0.01		<0.01			
Zinc (Zn) (DIS)	6.29		4.48	<0.02	0.02	<0.02
Zinc (Zn) (TOT)					0.07	0.03

### Physical/Fld-Lab: ppm unless noted

Oxidation Reduction Potential				-140		
Oxygen (O) (DIS) (Fld)	0.26		0.19	0.22	0.67	0.14
pH	5.8		6	9.5	9.6	7.7
Water Elevation (ft) (Fld)				3881.74	3880.45	
Depth To Water Level (ft)	32.84		42.12	29.13	30.42	
pH (Fld)	5.38		5.53	9.47	9.68	7.81
SC (umhos/cm at 25 C) (Fld)	823		659	4070	3075	4326
SC (umhos/cm at 25 C)	800		658	3920	3020	4080
Total Suspended Solids	18		55	49	<10	48
TDS (Measured at 180 C)	552		441	2760	2180	3370
Water Temperature (C) (Fld)	10.05		11.2	12.68	12.04	12.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	TW-1	TW-1	TW-1	TW-1	TW-1	TW-1
Water	SAMPLE DATE	2/13/2008	5/16/2008	5/16/2008	7/18/2008	7/18/2008	11/17/2008
	SAMPLE TIME	12:20	11:10	11:20	09:15	09:30	13:30
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08020101-005	H08050289-003	H08050289-004	H08070375-002	H08070375-003	H08110187-011
	SAMPLE NUMBER	AEH-0802-115	AEH-0805-266	AEH-0805-267	AEH-0807-169	AEH-0807-170	AEH-0811-261
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS			Field Duplicate		Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	760	750	720	710	710	940
Calcium (Ca) (DIS)	18	9	9	42	42	39
Chloride (Cl)	150	69	72	71	68	140
Magnesium (Mg) (DIS)	13	7	7	41	42	45
Potassium (K) (DIS)	11	9	9	12	12	16
Sodium (Na) (DIS)	889	813	840	871	885	1110
Sulfate (SO4)	1080	1100	1100	1500	1600	1700
Total Alkalinity As CaCO3	620	620	600	580	580	790

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		0.0086 J	0.0098 J			<0.005
Selenium-VI (DIS)		0.193 J	0.188 J			0.066
Aluminum (Al) (DIS)		<0.1	<0.1			<0.1
Aluminum (Al) (TOT)		<0.1	<0.1			
Antimony (Sb) (DIS)		<0.005	<0.005			<0.005
Antimony (Sb) (TOT)		0.008	0.009			
Arsenic (As) (DIS)	83.5	109.1	109.1	82.7	82.4	67.6
Arsenic (As) (TOT)	91.7	115	118	92.4	84.1	
Arsenic III (DIS)	85.6	113	110	92	109	61.4
Arsenic V (DIS)	<0.25	<0.0282 J	<0.005 J	<0.0141	<0.0141	11.5
Barium (Ba) (DIS)		<0.1	<0.1			<0.1
Barium (Ba) (TOT)		<0.1	<0.1			
Beryllium (Be) (DIS)		<0.001	<0.001			<0.001
Beryllium (Be) (TOT)		<0.001	<0.001			
Cadmium (Cd) (DIS)	<0.001	0.001	0.001	<0.001	0.002	<0.001
Cadmium (Cd) (TOT)	0.004	0.005	0.005	0.007 J	0.005 J	
Chromium (Cr) (DIS)		<0.001	<0.001			<0.001
Chromium (Cr) (TOT)		<0.001	<0.001			
Cobalt (Co) (DIS)		<0.01	<0.01			<0.01
Cobalt (Co) (TOT)		<0.01	<0.01			
Copper (Cu) (DIS)	<0.004	0.005	<0.004	<0.004	0.008	<0.004
Copper (Cu) (TOT)	0.012 J	0.017	0.019	0.023 J	0.018 J	
Iron (Fe) (DIS)	0.36	0.46 J	0.33 J	0.39	0.35	0.69
Iron (Fe) (TOT)	0.7	0.73	0.8	0.43	0.49	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	0.009	0.013	0.014	0.011	0.01	
Manganese (Mn) (DIS)	0.22	0.09	0.09	0.98	0.98	0.81
Manganese (Mn) (TOT)	0.23	0.09	0.08	1.13	0.99	
Mercury (Hg) (DIS)		<0.006	<0.006			<0.006

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	TW-1	TW-1	TW-1	TW-1	TW-1	TW-1
Water	SAMPLE DATE	2/13/2008	5/16/2008	5/16/2008	7/18/2008	7/18/2008	11/17/2008
	SAMPLE TIME	12:20	11:10	11:20	09:15	09:30	13:30
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08020101-005	H08050289-003	H08050289-004	H08070375-002	H08070375-003	H08110187-011
	SAMPLE NUMBER	AEH-0802-115	AEH-0805-266	AEH-0805-267	AEH-0807-169	AEH-0807-170	AEH-0811-261
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS			Field Duplicate		Field Duplicate	
<b>Metals (mg/L): ppm unless noted</b>							
	Mercury (Hg) (TOT)		<0.006	<0.006			
	Nickel (Ni) (DIS)		<0.01	<0.01			<0.01
	Nickel (Ni) (TOT)		<0.01	<0.01			
	Selenium (Se) (DIS)	0.022	0.049 J	0.03 J	0.033 J	0.073 J	0.059
	Selenium (Se) (TOT)	0.044	0.081	0.09	0.079	0.069	
	Silver (Ag) (DIS)		<0.005 J	<0.005 J			<0.005 J-
	Silver (Ag) (TOT)		<0.005	<0.005			
	Thallium (Tl) (DIS)		<0.002	<0.002			<0.002
	Thallium (Tl) (TOT)		<0.002	<0.002			
	Vanadium (V) (DIS)		<0.01	<0.01			<0.01
	Vanadium (V) (TOT)		<0.01	<0.01			
	Zinc (Zn) (DIS)	0.02	0.04	0.02	0.05	0.05	<0.02
	Zinc (Zn) (TOT)	0.08	0.09	0.1	0.14	0.12	
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	0.12	0.08		0.22		0.64
	pH	9.2	9.2	9.3	8.9	8.9	8.6
	Water Elevation (ft) (Fld)	3881.67	3880.71		3883.27		
	Depth To Water Level (ft)	32.74	34.3		31.74		32.33
	pH (Fld)	9.07	9.53		9.01		8.65
	SC (umhos/cm at 25 C) (Fld)	3990	3628		4309		4702
	SC (umhos/cm at 25 C)	3590	3380	3390	4140	4160	4780
	Total Suspended Solids	<10 J	<10	<10	<10	<10	12
	TDS (Measured at 180 C)	2590	2520	2530	3070	3100	3500
	Water Temperature (C) (Fld)	11.3	14.5		13.33		11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	TW-1	TW-1
Water	SAMPLE DATE	5/20/2009	5/20/2009
	SAMPLE TIME	10:00	10:05
	LAB	ELI	ELI
	LAB NUMBER	H09050289-003	H09050289-004
	SAMPLE NUMBER	AEH-0905-271	AEH-0905-272
	TYPE	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW
	DESCRIPTION		
	REMARKS		Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	750	750
Calcium (Ca) (DIS)	9	8
Chloride (Cl)	55	57
Magnesium (Mg) (DIS)	7	7
Potassium (K) (DIS)	9	9
Sodium (Na) (DIS)	894	898
Sulfate (SO4)	1100	1100
Total Alkalinity As CaCO3	630	630

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.1
Antimony (Sb) (DIS)	0.006	0.006
Arsenic (As) (DIS)	104	103
Barium (Ba) (DIS)	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001
Cadmium (Cd) (DIS)	0.003 UJ	0.002 UJ
Chromium (Cr) (DIS)	<0.001	<0.001
Cobalt (Co) (DIS)	0.0018 UJ	0.0022 UJ
Copper (Cu) (DIS)	0.011	0.009
Gold (Au) (DIS)	0.02	0.03
Iron (Fe) (DIS)	0.53	0.49
Lead (Pb) (DIS)	0.008	0.007
Manganese (Mn) (DIS)	0.1	0.1
Mercury (Hg) (DIS)	0.0001	0.0002
Nickel (Ni) (DIS)	<0.01	<0.01
Selenium (Se) (DIS)	0.091	0.088
Silver (Ag) (DIS)	<0.005	<0.005
Tellurium (Te) (DIS)	<0.1	<0.1
Thallium (Tl) (DIS)	<0.001	<0.001
Vanadium (V) (DIS)	<0.01	<0.01
Zinc (Zn) (DIS)	0.05	0.05

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	0.05	
pH	9.2	9.2
Depth To Water Level (ft)	34.22	
pH (Fld)	9.37	
SC (umhos/cm at 25 C) (Fld)	3627	
SC (umhos/cm at 25 C)	3520	3500

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Monitoring Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	TW-1	TW-1
Water	SAMPLE DATE	5/20/2009	5/20/2009
	SAMPLE TIME	10:00	10:05
	LAB	ELI	ELI
	LAB NUMBER	H09050289-003	H09050289-004
	SAMPLE NUMBER	AEH-0905-271	AEH-0905-272
	TYPE	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW
	DESCRIPTION		
	REMARKS		Field Duplicate

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**Physical/Fid-Lab: ppm unless noted**

Total Suspended Solids	12	10
TDS (Measured at 180 C)	2590	2600
Water Temperature (C) (Fld)	13.5	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

**APPENDIX C-2**

**EAST HELENA WATER  
HISTORICAL ORGANIC DATA**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

### Table of Contents by Station Type

<u>Page</u>	<u>Station Type</u>	<u>Station Name</u>
36	Groundwater	DH-2
48	Groundwater	DH-3
60	Groundwater	DH-6
104	Groundwater	DH-12
111	Groundwater	DH-13
27	Groundwater	DH-16
29	Groundwater	DH-17
36	Groundwater	DH-20
126	Groundwater	DH-21
36	Groundwater	DH-24
44	Groundwater	DH-26
128	Groundwater	DH-27
44	Groundwater	DH-28
132	Groundwater	DH-30
137	Groundwater	DH-31
137	Groundwater	DH-33
139	Groundwater	DH-34
139	Groundwater	DH-35
54	Groundwater	DH-36
56	Groundwater	DH-37
141	Groundwater	DH-38
56	Groundwater	DH-43
58	Groundwater	DH-49
58	Groundwater	DH-50
58	Groundwater	DH-54
60	Groundwater	DH-64
60	Groundwater	EH-50
65	Groundwater	EH-51
65	Groundwater	EH-52
65	Groundwater	EH-54
66	Groundwater	EH-60
86	Groundwater	EH-61
98	Groundwater	EH-62
1	Quality Control	BLANK
7	Quality Control	DI BLANK
24	Quality Control	RINSATE
7	Quality Control	TRIP BLANK

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

### Table of Contents By Lab Sample ID

<u>Page</u>	<u>Lab Sample ID</u>	<u>Sample ID</u>	<u>Sample Date</u>	<u>Station Name</u>
98	00-53528-6	EHC-0005-150	5/3/2000	EH-61
98	00-90952-6	EHC-0011-151	11/8/2000	EH-61
44	87-4198	AEH-8706-100	6/9/1987	DH-26
128	87-4199	AEH-8706-22	6/9/1987	DH-27
126	87-4200	AEH-8706-101	6/9/1987	DH-21
104	87-4201	AEH-8706-12	6/9/1987	DH-12
44	87-6873	AEH-8708-13	8/17/1987	DH-26
128	87-6874	AEH-8708-14	8/17/1987	DH-27
29	87-6875	AEH-8708-05	8/17/1987	DH-17
104	87-6876	AEH-8708-01	8/17/1987	DH-12
44	87-6878	AEH-8708-49	8/17/1987	DH-26
126	87-7529	AEH-8708-09	8/24/1987	DH-21
126	87-7531	AEH-8708-51	8/24/1987	DH-21
60	87-10568	AEH-8711-221	11/20/1987	DH-6
48	87-10571	AEH-8711-218	12/7/1987	DH-3
128	87-10787	AEH-8711-242	11/23/1987	DH-27
36	87-10788	AEH-8711-217	11/24/1987	DH-2
36	87-10789	AEH-8711-239	11/24/1987	DH-24
128	87-11008	AEH-8711-236	11/30/1987	DH-21
66	87-11009	AEH-8712-245	12/2/1987	EH-60
86	87-11010	AEH-8712-246	12/2/1987	EH-61
66	88-2772	AEH-8804-350	4/18/1988	EH-60
86	88-2773	AEH-8804-351	4/18/1988	EH-61
36	88-2774	AEH-8804-323	4/19/1988	DH-24
29	88-2775	AEH-8804-316	4/19/1988	DH-17
66	89-7	AEH-8812-169	12/14/1988	EH-60
89	89-8	AEH-8812-170	12/15/1988	EH-61
98	89-17	AEH-8812-171	12/13/1988	EH-62
48	89-19	AEH-8812-123	12/8/1988	DH-3
1	89-29	AEH-8812-155	12/8/1988	BLANK
37	89-44	AEH-8812-142	12/21/1988	DH-24
29	89-52	AEH-8812-135	12/21/1988	DH-17
111	89-53	AEH-8812-132	12/22/1988	DH-13
48	89-476	AEH-8904-202	4/11/1989	DH-3
66	89-495	AEH-8904-240	4/17/1989	EH-60
37	89-506	AEH-8904-221	4/19/1989	DH-24
48	89-792	AEH-8910-402	10/11/1989	DH-3
48	89-806	AEH-8910-426	10/11/1989	DH-3
66	89-811	AEH-8910-448	10/17/1989	EH-60
99	89-812	AEH-8910-450	10/17/1989	EH-62
104	89-813	AEH-8910-460	10/18/1989	DH-12
111	89-819	AEH-8910-411	10/18/1989	DH-13
29	89-820	AEH-8910-414	10/19/1989	DH-17

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

### Table of Contents By Lab Sample ID

<u>Page</u>	<u>Lab Sample ID</u>	<u>Sample ID</u>	<u>Sample Date</u>	<u>Station Name</u>
37	89-823	AEH-8910-421	10/18/1989	DH-24
48	90-1032	AEH-9005-402	4/27/1990	DH-3
99	90-1052	AEH-9005-450	4/27/1990	EH-62
66	90-1059	AEH-9005-448	4/29/1990	EH-60
115	90-1061	AEH-9005-411	5/1/1990	DH-13
29	90-1062	AEH-9005-414	5/1/1990	DH-17
37	90-1066	AEH-9005-421	5/1/1990	DH-24
1	90-1080	AEH-9005-436	5/1/1990	BLANK
49	90-2221	AEH-9011-709	11/27/1990	DH-3
49	90-2229	AEH-9011-730	11/27/1990	DH-3
29	90-2244	AEH-9011-719	12/4/1990	DH-17
70	90-2248	AEH-9011-751	12/4/1990	EH-60
99	90-2250	AEH-9011-753	11/30/1990	EH-62
115	90-2257	AEH-9011-718	12/6/1990	DH-13
37	90-2261	AEH-9011-726	12/5/1990	DH-24
37	90-2265	AEH-9011-735	12/5/1990	DH-24
49	91-2666	AEH-9105-136	5/3/1991	DH-3
70	91-2673	AEH-9105-144	5/8/1991	EH-60
70	91-2674	AEH-9105-127	5/8/1991	EH-60
99	91-2675	AEH-9105-132	5/6/1991	EH-62
32	91-2679	AEH-9105-150	5/8/1991	DH-17
115	91-2817	AEH-9105-149	5/9/1991	DH-13
38	91-3053	AEH-9105-162	5/8/1991	DH-24
49	91-3611	AEH-9111-309	11/12/1991	DH-3
99	91-3620	AEH-9111-325	11/13/1991	EH-62
32	91-3879	AEH-9111-305	11/20/1991	DH-17
38	91-3881	AEH-9111-310	11/20/1991	DH-24
70	91-3882	AEH-9111-329	11/20/1991	EH-60
115	91-3883	AEH-9111-339	11/21/1991	DH-13
104	91-3885	AEH-9111-349	11/21/1991	DH-12
99	92-4298	AEH-9204-119	4/23/1992	EH-62
32	92-4348	AEH-9204-148	4/29/1992	DH-17
70	92-4350	AEH-9204-155	4/29/1992	EH-60
115	92-4355	AEH-9204-129	4/29/1992	DH-13
38	92-4361	AEH-9204-153	4/29/1992	DH-24
50	92-6775	EHC-9211-167	11/12/1992	DH-3
100	92-6777	EHC-9211-118	11/12/1992	EH-62
32	92-6801	EHC-9211-128	11/20/1992	DH-17
32	92-6803	EHC-9211-147	11/20/1992	DH-17
38	92-6804	EHC-9211-137	11/20/1992	DH-24
70	92-6806	EHC-9211-173	11/21/1992	EH-60
104	92-6807	EHC-9211-151	11/21/1992	DH-12
115	92-6808	EHC-9211-155	11/21/1992	DH-13

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

### Table of Contents By Lab Sample ID

<u>Page</u>	<u>Lab Sample ID</u>	<u>Sample ID</u>	<u>Sample Date</u>	<u>Station Name</u>
50	93-7770	EHC-9305-137	5/3/1993	DH-3
100	93-7771	EHC-9305-138	5/4/1993	EH-62
32	93-7827	EHC-9305-152	5/5/1993	DH-17
38	93-7832	EHC-9305-158	5/5/1993	DH-24
104	93-7834	EHC-9305-159	5/6/1993	DH-12
118	93-7835	EHC-9305-160	5/6/1993	DH-13
73	93-7836	EHC-9305-161	5/6/1993	EH-60
118	93-7837	EHC-9305-162	5/6/1993	DH-13
50	93-9196	EHC-9311-125	11/8/1993	DH-3
100	93-9200	EHC-9311-145	11/8/1993	EH-62
100	93-9204	EHC-9311-167	11/8/1993	EH-62
4	93-9205	EHC-9311-168	11/8/1993	BLANK
105	93-9270	EHC-9311-109	11/12/1993	DH-12
118	93-9271	EHC-9311-110	11/12/1993	DH-13
33	93-9272	EHC-9311-112	11/11/1993	DH-17
38	93-9274	EHC-9311-120	11/11/1993	DH-24
73	93-9276	EHC-9311-143	11/12/1993	EH-60
73	93-9278	EHC-9311-178	11/12/1993	EH-60
50	94-1336	EHC-9405-130	5/10/1994	DH-3
100	94-1340	EHC-9405-149	5/10/1994	EH-62
105	94-1382	EHC-9405-115	5/12/1994	DH-12
118	94-1383	EHC-9405-116	5/12/1994	DH-13
33	94-1384	EHC-9405-118	5/12/1994	DH-17
39	94-1385	EHC-9405-125	5/12/1994	DH-24
73	94-1386	EHC-9405-147	5/12/1994	EH-60
118	94-1387	EHC-9405-179	5/12/1994	DH-13
50	94-3270	EHC-9411-130	11/10/1994	DH-3
100	94-3275	EHC-9411-151	11/10/1994	EH-62
105	94-3385	EHC-9411-115	11/18/1994	DH-12
118	94-3386	EHC-9411-116	11/18/1994	DH-13
33	94-3387	EHC-9411-118	11/18/1994	DH-17
39	94-3389	EHC-9411-125	11/17/1994	DH-24
73	94-3393	EHC-9411-148	11/18/1994	EH-60
33	94-3398	EHC-9411-182	11/18/1994	DH-17
73	94-3400	EHC-9411-184	11/18/1994	EH-60
51	95-4481	EHC-9505-130	5/9/1995	DH-3
101	95-4489	EHC-9505-150	5/9/1995	EH-62
51	95-4493	EHC-9505-168	5/9/1995	DH-3
7	95-4494	EHC-9505-169	5/9/1995	DI BLANK
105	95-4510	EHC-9505-115	5/16/1995	DH-12
122	95-4511	EHC-9505-116	5/16/1995	DH-13
33	95-4512	EHC-9505-118	5/16/1995	DH-17
39	95-4516	EHC-9505-125	5/16/1995	DH-24

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

### Table of Contents By Lab Sample ID

<u>Page</u>	<u>Lab Sample ID</u>	<u>Sample ID</u>	<u>Sample Date</u>	<u>Station Name</u>
76	95-4520	EHC-9505-148	5/16/1995	EH-60
76	95-4526	EHC-9505-178	5/16/1995	EH-60
7	95-4527	EHC-9505-179	5/16/1995	DI BLANK
51	95-6091	EHC-9511-132	11/8/1995	DH-3
101	95-6100	EHC-9511-151	11/8/1995	EH-62
11	95-6105	EHC-9511-170	11/8/1995	DI BLANK
105	95-6141	EHC-9511-116	11/14/1995	DH-12
122	95-6142	EHC-9511-117	11/14/1995	DH-13
34	95-6143	EHC-9511-119	11/13/1995	DH-17
39	95-6147	EHC-9511-127	11/13/1995	DH-24
76	95-6149	EHC-9511-150	11/14/1995	EH-60
11	95-6150	EHC-9511-174	11/13/1995	DI BLANK
39	95-6151	EHC-9511-175	11/13/1995	DH-24
11	95-6152	EHC-9511-176	11/14/1995	DI BLANK
76	95-6153	EHC-9511-177	11/14/1995	EH-60
51	96-6708	EHC-9605-118	5/8/1996	DH-3
101	96-6717	EHC-9605-136	5/8/1996	EH-62
51	96-6720	EHC-9605-147	5/8/1996	DH-3
11	96-6721	EHC-9605-148	5/8/1996	DI BLANK
11	96-6764	EHC-9605-155	5/14/1996	DI BLANK
76	96-6765	EHC-9605-156	5/15/1996	EH-60
11	96-6766	EHC-9605-157	5/15/1996	DI BLANK
105	96-6772	EHC-9605-104	5/14/1996	DH-12
122	96-6773	EHC-9605-105	5/14/1996	DH-13
27	96-6774	EHC-9605-107	5/14/1996	DH-16
39	96-6779	EHC-9605-114	5/14/1996	DH-24
76	96-6789	EHC-9605-134	5/15/1996	EH-60
101	96-7753	EHC-9611-148	11/7/1996	EH-62
52	96-7754	EHC-9611-118	11/7/1996	DH-3
14	96-7763	EHC-9611-147	11/7/1996	DI BLANK
101	96-7765	EHC-9611-136	11/7/1996	EH-62
108	96-7784	EHC-9611-104	11/12/1996	DH-12
122	96-7785	EHC-9611-105	11/12/1996	DH-13
34	96-7786	EHC-9611-106	11/12/1996	DH-17
40	96-7788	EHC-9611-114	11/12/1996	DH-24
80	96-7789	EHC-9611-134	11/12/1996	EH-60
40	96-7791	EHC-9611-155	11/12/1996	DH-24
14	96-7792	EHC-9611-156	11/12/1996	DI BLANK
131	96-69325	EHC-9612-100CS	12/9/1996	DH-27
44	96-69420	EHC-9612-101CS	12/10/1996	DH-28
52	97-904	EHC-9705-117	5/5/1997	DH-3
101	97-918	EHC-9705-133	5/5/1997	EH-62
102	97-925	EHC-9705-146	5/5/1997	EH-62

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108	97-934	EHC-9705-104	5/7/1997	DH-12
122	97-935	EHC-9705-105	5/7/1997	DH-13
40	97-940	EHC-9705-113	5/7/1997	DH-24
80	97-971	EHC-9705-132	5/7/1997	EH-60
34	97-972	EHC-9705-138	5/7/1997	DH-17
131	97-030469	EHC-9705-114CS	5/8/1997	DH-27
44	97-030470	EHC-9705-115CS	5/8/1997	DH-28
45	97-70127	EHC-9711-160CS	11/12/1997	DH-28
131	97-70128	EHC-9711-161CS	11/12/1997	DH-27
45	98-31302	EHC-9805-117CS	5/11/1998	DH-28
131	98-31303	EHC-9805-116CS	5/11/1998	DH-27
14	187-2681	EHC-9711-149	11/5/1997	DI BLANK
108	187-2682	EHC-9711-104	11/5/1997	DH-12
52	188-2683	EHC-9711-118	11/5/1997	DH-3
80	188-2686	EHC-9711-134	11/5/1997	EH-60
102	188-2687	EHC-9711-136	11/5/1997	EH-62
102	188-2699	EHC-9711-150	11/5/1997	EH-62
122	192-2741	EHC-9711-105	11/7/1997	DH-13
34	192-2742	EHC-9711-106	11/7/1997	DH-17
27	192-2743	EHC-9711-107	11/10/1997	DH-16
40	192-2748	EHC-9711-114	11/7/1997	DH-24
40	193-2759	EHC-9711-154	11/7/1997	DH-24
14	193-2760	EHC-9711-155	11/7/1997	DI BLANK
108	260-3751	EHC-9805-105	5/7/1998	DH-12
52	260-3756	EHC-9805-119	5/5/1998	DH-3
80	261-3770	EHC-9805-135	5/6/1998	EH-60
102	261-3771	EHC-9805-137	5/6/1998	EH-62
14	261-3776	EHC-9805-149	5/6/1998	DI BLANK
80	261-3777	EHC-9805-150	5/6/1998	EH-60
123	262-3783	EHC-9805-106	5/11/1998	DH-13
34	262-3784	EHC-9805-107	5/11/1998	DH-17
40	262-3788	EHC-9805-115	5/11/1998	DH-24
34	262-3796	EHC-9805-154	5/11/1998	DH-17
20	262-3799	EHC-9805-157	5/12/1998	DI BLANK
52	310-4401	EHC-9811-118	11/18/1998	DH-3
102	310-4411	EHC-9811-136	11/18/1998	EH-62
52	310-4416	EHC-9811-148	11/18/1998	DH-3
20	311-4417	EHC-9811-149	11/18/1998	DI BLANK
45	311-4432	EHC-9811-116	11/20/1998	DH-28
80	311-4434	EHC-9811-134	11/19/1998	EH-60
20	311-4435	EHC-9811-152	11/19/1998	DI BLANK
20	311-4436	EHC-9811-154	11/20/1998	DI BLANK
108	312-4438	EHC-9811-104	11/19/1998	DH-12

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41	312-4440	EHC-9811-114	11/20/1998	DH-24
108	312-4444	EHC-9811-151	11/19/1998	DH-12
41	312-4445	EHC-9811-153	11/20/1998	DH-24
123	314-4463	EHC-9811-105	11/19/1998	DH-13
131	314-4468	EHC-9811-115	11/20/1998	DH-27
53	346-4880	EHC-9905-118	5/8/1999	DH-3
53	346-4883	EHC-9905-146	5/8/1999	DH-3
20	346-4884	EHC-9905-147	5/8/1999	DI BLANK
102	346-4885	EHC-9905-136	5/8/1999	EH-62
83	347-4894	EHC-9905-134	5/10/1999	EH-60
83	347-4895	EHC-9905-148	5/10/1999	EH-60
20	347-4896	EHC-9905-149	5/10/1999	DI BLANK
111	347-4897	EHC-9905-104	5/11/1999	DH-12
123	347-4898	EHC-9905-105	5/11/1999	DH-13
35	347-4899	EHC-9905-106	5/11/1999	DH-17
41	347-4903	EHC-9905-114	5/11/1999	DH-24
131	347-4904	EHC-9905-115	5/11/1999	DH-27
45	347-4905	EHC-9905-116	5/11/1999	DH-28
41	348-4906	EHC-9905-150	5/11/1999	DH-24
23	348-4907	EHC-9905-151	5/11/1999	DI BLANK
111	5556	AEH-8708-71	8/17/1987	DH-13
36	7336	AEH-8711-235	12/7/1987	DH-20
65	7336	AEH-8711-204	12/7/1987	EH-54
65	7336	AEH-8711-202	12/7/1987	EH-52
65	7336	AEH-8711-201	12/7/1987	EH-51
89	8904-241	AEH-8904-241	4/17/1989	EH-61
89	8904-270	AEH-8904-270	4/17/1989	EH-61
89	8910-449	AEH-8910-449	10/17/1989	EH-61
49	9005-430	AEH-9005-430	4/27/1990	DH-3
89	9005-449	AEH-9005-449	4/28/1990	EH-61
1	9005-601	AEH-9005-601	5/1/1990	BLANK
89	9012-078	AEH-9011-752	12/6/1990	EH-61
1	9012-078-5	AEH-9011-757	12/6/1990	BLANK
91	9105-124-2	AEH-9105-128	5/10/1991	EH-61
91	9111-241-5	AEH-9111-368	11/21/1991	EH-61
49	9204-227-2	AEH-9204-165	4/20/1992	DH-3
91	9205-008-5	AEH-9204-172	4/29/1992	EH-61
91	9211-235-4	EHC-9211-164	11/21/1992	EH-61
91	9305-064-1	EHC-9305-164	5/6/1993	EH-61
33	9305-064-9	EHC-9305-153	5/5/1993	DH-17
91	9311-159-6	EHC-9311-144	11/12/1993	EH-61
92	9405-095-9	EHC-9405-148	5/12/1994	EH-61

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50	411072-3	EHC-9411-169	11/10/1994	DH-3
4	411072-4	EHC-9411-171	11/10/1994	BLANK
92	411143-6	EHC-9411-150	11/18/1994	EH-61
92	505078 -4	EHC-9505-149	5/16/1995	EH-61
7	505078 -6	EHC-9505-180	5/5/1995	TRIP BLANK
51	511023-3	EHC-9511-167	11/8/1995	DH-3
92	511049-6	EHC-9511-152	11/8/1995	EH-61
92	605045-4	EHC-9605-135	5/15/1996	EH-61
7	605045-10	EHC-9605-158	5/15/1996	TRIP BLANK
92	611035-6	EHC-9611-135	11/12/1996	EH-61
14	705025-1	EHC-9705-153	5/7/1997	DI BLANK
95	705025-2	EHC-9705-151	5/7/1997	EH-61
95	705025-8	EHC-9705-139	5/7/1997	EH-61
95	711029-4	EHC-9711-135	11/7/1997	EH-61
95	805027-5	EHC-9805-136	5/6/1998	EH-61
7	805044-6	EHC-9805-158	5/12/1998	TRIP BLANK
95	811076-4	EHC-9811-135	11/19/1998	EH-61
95	905024-3	EHC-9905-135	5/10/1999	EH-61
98	911050-3	EHC-9911-151	11/11/1999	EH-61
4	9405095-10	EHC-9405-180	5/12/1994	BLANK
4	9405095-11	EHC-9405-230	5/12/1994	BLANK
98	60190487	EHC-0105-177	5/10/2001	EH-61
1	91051047	AEH-9105-138	5/9/1991	BLANK
1	91051243	AEH-9105-200	5/13/1991	BLANK
60	H07050276-002	AEH-0705-223	5/23/2007	DH-64
132	H07050291-001	AEH-0705-225	5/24/2007	DH-27
123	L000703001	EHC-0005-115	5/3/2000	DH-13
35	L000703002	EHC-0005-117	5/3/2000	DH-17
42	L000703007	EHC-0005-126	5/1/2000	DH-24
53	L000703010	EHC-0005-131	5/2/2000	DH-3
83	L000704003	EHC-0005-149	5/3/2000	EH-60
103	L000704004	EHC-0005-151	5/2/2000	EH-62
42	L000704005	EHC-0005-162	5/1/2000	DH-24
23	L000704006	EHC-0005-163	5/1/2000	DI BLANK
53	L000704007	EHC-0005-164	5/2/2000	DH-3
23	L000704008	EHC-0005-165	5/2/2000	DI BLANK
42	L001873001	EHC-0011-127	11/8/2000	DH-24
53	L001873003	EHC-0011-132	11/7/2000	DH-3
83	L001873009	EHC-0011-150	11/8/2000	EH-60
103	L001873010	EHC-0011-152	11/7/2000	EH-62
54	L001873013	EHC-0011-170	11/7/2000	DH-3
4	L001873014	EHC-0011-171	11/7/2000	BLANK
86	L001873015	EHC-0011-172	11/8/2000	EH-60

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4	L001873016	EHC-0011-173	11/8/2000	BLANK
123	L001873017	EHC-0011-115	11/8/2000	DH-13
35	L001873018	EHC-0011-118	11/7/2000	DH-17
132	L010608012	EHC-0105-133	5/2/2001	DH-30
139	L010608013	EHC-0105-138	5/2/2001	DH-35
137	L010608014	EHC-0105-134	5/2/2001	DH-31
137	L010608015	EHC-0105-136	5/2/2001	DH-33
139	L010608016	EHC-0105-137	5/2/2001	DH-34
58	L010608017	EHC-0105-155	5/1/2001	DH-50
58	L010608021	EHC-0105-159	5/1/2001	DH-54
54	L010608022	EHC-0105-204	5/2/2001	DH-36
24	L010608023	EHC-0105-205	5/1/2001	DI BLANK
56	L010608024	EHC-0105-206	5/2/2001	DH-37
54	L010608025	EHC-0105-139	5/2/2001	DH-36
56	L010608026	EHC-0105-140	5/2/2001	DH-37
141	L010608027	EHC-0105-141	5/2/2001	DH-38
56	L010608029	EHC-0105-147	5/2/2001	DH-43
58	L010608033	EHC-0105-153	5/1/2001	DH-49
24	L010608035	EHC-0105-208	5/2/2001	DI BLANK
24	L010608036	EHC-0105-207	5/2/2001	RINSATE
24	L010691001	EHC-0105-224	5/9/2001	DI BLANK
60	L010691008	EHC-0105-168	5/9/2001	EH-50
86	L010691010	EHC-0105-176	5/10/2001	EH-60
103	L010691011	EHC-0105-178	5/9/2001	EH-62
54	L010691013	EHC-0105-222	5/9/2001	DH-3
26	L010691014	EHC-0105-223	5/9/2001	RINSATE
126	L010691017	EHC-0105-116	5/11/2001	DH-13
27	L010691018	EHC-0105-118	5/10/2001	DH-16
128	L010691020	EHC-0105-124	5/11/2001	DH-21
42	L010691022	EHC-0105-127	5/10/2001	DH-24
132	L010691023	EHC-0105-129	5/11/2001	DH-27
45	L010691024	EHC-0105-130	5/11/2001	DH-28
54	L010691026	EHC-0105-143	5/9/2001	DH-3
126	L011563014	EHC-0111-114	11/9/2001	DH-13
27	L011563016	EHC-0111-118	11/9/2001	DH-16
42	L011563018	EHC-0111-126	11/9/2001	DH-24
132	L011564003	EHC-0111-127	11/11/2001	DH-27
137	L011564005	EHC-0111-132	11/11/2001	DH-31
139	L011564006	EHC-0111-135	11/9/2001	DH-34
56	L011564007	EHC-0111-137	11/9/2001	DH-36
141	L011564008	EHC-0111-139	11/11/2001	DH-38
86	L011565003	EHC-0111-174	11/9/2001	EH-60
26	L011565005	EHC-0111-202	11/9/2001	RINSATE

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27	L011565007	EHC-0111-204	11/9/2001	DH-16
132	L020959002	EHC-0211-130	11/18/2002	DH-27
141	L020959003	EHC-0211-142	11/18/2002	DH-38
139	L020959004	EHC-0211-138	11/18/2002	DH-34
137	L020959005	EHC-0211-135	11/18/2002	DH-31
111	L992007004	EHC-9911-115	11/12/1999	DH-12
123	L992007005	EHC-9911-116	11/12/1999	DH-13
35	L992007006	EHC-9911-118	11/12/1999	DH-17
41	L992007011	EHC-9911-127	11/12/1999	DH-24
53	L992007014	EHC-9911-132	11/10/1999	DH-3
83	L992008015	EHC-9911-150	11/11/1999	EH-60
103	L992009001	EHC-9911-152	11/10/1999	EH-62
103	L992009008	EHC-9911-172	11/10/1999	EH-62
23	L992009009	EHC-9911-173	11/10/1999	DI BLANK
83	L992009010	EHC-9911-174	11/11/1999	EH-60
23	L992009011	EHC-9911-175	11/11/1999	DI BLANK
41	L992009012	EHC-9911-176	11/12/1999	DH-24
23	L992009013	EHC-9911-177	11/12/1999	DI BLANK

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132	AEH-0705-225	H07050291-001	5/24/2007	DH-27
104	AEH-8706-12	87-4201	6/9/1987	DH-12
128	AEH-8706-22	87-4199	6/9/1987	DH-27
44	AEH-8706-100	87-4198	6/9/1987	DH-26
126	AEH-8706-101	87-4200	6/9/1987	DH-21
104	AEH-8708-01	87-6876	8/17/1987	DH-12
29	AEH-8708-05	87-6875	8/17/1987	DH-17
126	AEH-8708-09	87-7529	8/24/1987	DH-21
44	AEH-8708-13	87-6873	8/17/1987	DH-26
128	AEH-8708-14	87-6874	8/17/1987	DH-27
44	AEH-8708-49	87-6878	8/17/1987	DH-26
126	AEH-8708-51	87-7531	8/24/1987	DH-21
111	AEH-8708-71	5556	8/17/1987	DH-13
65	AEH-8711-201	7336	12/7/1987	EH-51
65	AEH-8711-202	7336	12/7/1987	EH-52
65	AEH-8711-204	7336	12/7/1987	EH-54
36	AEH-8711-217	87-10788	11/24/1987	DH-2
48	AEH-8711-218	87-10571	12/7/1987	DH-3
60	AEH-8711-221	87-10568	11/20/1987	DH-6
36	AEH-8711-235	7336	12/7/1987	DH-20
128	AEH-8711-236	87-11008	11/30/1987	DH-21
36	AEH-8711-239	87-10789	11/24/1987	DH-24
128	AEH-8711-242	87-10787	11/23/1987	DH-27
66	AEH-8712-245	87-11009	12/2/1987	EH-60
86	AEH-8712-246	87-11010	12/2/1987	EH-61
29	AEH-8804-316	88-2775	4/19/1988	DH-17
36	AEH-8804-323	88-2774	4/19/1988	DH-24
66	AEH-8804-350	88-2772	4/18/1988	EH-60
86	AEH-8804-351	88-2773	4/18/1988	EH-61
48	AEH-8812-123	89-19	12/8/1988	DH-3
111	AEH-8812-132	89-53	12/22/1988	DH-13
29	AEH-8812-135	89-52	12/21/1988	DH-17
37	AEH-8812-142	89-44	12/21/1988	DH-24
1	AEH-8812-155	89-29	12/8/1988	BLANK
66	AEH-8812-169	89-7	12/14/1988	EH-60
89	AEH-8812-170	89-8	12/15/1988	EH-61
98	AEH-8812-171	89-17	12/13/1988	EH-62
48	AEH-8904-202	89-476	4/11/1989	DH-3
37	AEH-8904-221	89-506	4/19/1989	DH-24
66	AEH-8904-240	89-495	4/17/1989	EH-60
89	AEH-8904-241	8904-241	4/17/1989	EH-61
89	AEH-8904-270	8904-270	4/17/1989	EH-61

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111	AEH-8910-411	89-819	10/18/1989	DH-13
29	AEH-8910-414	89-820	10/19/1989	DH-17
37	AEH-8910-421	89-823	10/18/1989	DH-24
48	AEH-8910-426	89-806	10/11/1989	DH-3
66	AEH-8910-448	89-811	10/17/1989	EH-60
89	AEH-8910-449	8910-449	10/17/1989	EH-61
99	AEH-8910-450	89-812	10/17/1989	EH-62
104	AEH-8910-460	89-813	10/18/1989	DH-12
48	AEH-9005-402	90-1032	4/27/1990	DH-3
115	AEH-9005-411	90-1061	5/1/1990	DH-13
29	AEH-9005-414	90-1062	5/1/1990	DH-17
37	AEH-9005-421	90-1066	5/1/1990	DH-24
49	AEH-9005-430	9005-430	4/27/1990	DH-3
1	AEH-9005-436	90-1080	5/1/1990	BLANK
66	AEH-9005-448	90-1059	4/29/1990	EH-60
89	AEH-9005-449	9005-449	4/28/1990	EH-61
99	AEH-9005-450	90-1052	4/27/1990	EH-62
1	AEH-9005-601	9005-601	5/1/1990	BLANK
49	AEH-9011-709	90-2221	11/27/1990	DH-3
115	AEH-9011-718	90-2257	12/6/1990	DH-13
29	AEH-9011-719	90-2244	12/4/1990	DH-17
37	AEH-9011-726	90-2261	12/5/1990	DH-24
49	AEH-9011-730	90-2229	11/27/1990	DH-3
37	AEH-9011-735	90-2265	12/5/1990	DH-24
70	AEH-9011-751	90-2248	12/4/1990	EH-60
89	AEH-9011-752	9012-078	12/6/1990	EH-61
99	AEH-9011-753	90-2250	11/30/1990	EH-62
1	AEH-9011-757	9012-078-5	12/6/1990	BLANK
70	AEH-9105-127	91-2674	5/8/1991	EH-60
91	AEH-9105-128	9105-124-2	5/10/1991	EH-61
99	AEH-9105-132	91-2675	5/6/1991	EH-62
49	AEH-9105-136	91-2666	5/3/1991	DH-3
1	AEH-9105-138	91051047	5/9/1991	BLANK
70	AEH-9105-144	91-2673	5/8/1991	EH-60
115	AEH-9105-149	91-2817	5/9/1991	DH-13
32	AEH-9105-150	91-2679	5/8/1991	DH-17
38	AEH-9105-162	91-3053	5/8/1991	DH-24
1	AEH-9105-200	91051243	5/13/1991	BLANK
32	AEH-9111-305	91-3879	11/20/1991	DH-17
49	AEH-9111-309	91-3611	11/12/1991	DH-3
38	AEH-9111-310	91-3881	11/20/1991	DH-24
99	AEH-9111-325	91-3620	11/13/1991	EH-62

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115	AEH-9111-339	91-3883	11/21/1991	DH-13
104	AEH-9111-349	91-3885	11/21/1991	DH-12
91	AEH-9111-368	9111-241-5	11/21/1991	EH-61
99	AEH-9204-119	92-4298	4/23/1992	EH-62
115	AEH-9204-129	92-4355	4/29/1992	DH-13
32	AEH-9204-148	92-4348	4/29/1992	DH-17
38	AEH-9204-153	92-4361	4/29/1992	DH-24
70	AEH-9204-155	92-4350	4/29/1992	EH-60
49	AEH-9204-165	9204-227-2	4/20/1992	DH-3
91	AEH-9204-172	9205-008-5	4/29/1992	EH-61
123	EHC-0005-115	L000703001	5/3/2000	DH-13
35	EHC-0005-117	L000703002	5/3/2000	DH-17
42	EHC-0005-126	L000703007	5/1/2000	DH-24
53	EHC-0005-131	L000703010	5/2/2000	DH-3
83	EHC-0005-149	L000704003	5/3/2000	EH-60
98	EHC-0005-150	00-53528-6	5/3/2000	EH-61
103	EHC-0005-151	L000704004	5/2/2000	EH-62
42	EHC-0005-162	L000704005	5/1/2000	DH-24
23	EHC-0005-163	L000704006	5/1/2000	DI BLANK
53	EHC-0005-164	L000704007	5/2/2000	DH-3
23	EHC-0005-165	L000704008	5/2/2000	DI BLANK
123	EHC-0011-115	L001873017	11/8/2000	DH-13
35	EHC-0011-118	L001873018	11/7/2000	DH-17
42	EHC-0011-127	L001873001	11/8/2000	DH-24
53	EHC-0011-132	L001873003	11/7/2000	DH-3
83	EHC-0011-150	L001873009	11/8/2000	EH-60
98	EHC-0011-151	00-90952-6	11/8/2000	EH-61
103	EHC-0011-152	L001873010	11/7/2000	EH-62
54	EHC-0011-170	L001873013	11/7/2000	DH-3
4	EHC-0011-171	L001873014	11/7/2000	BLANK
86	EHC-0011-172	L001873015	11/8/2000	EH-60
4	EHC-0011-173	L001873016	11/8/2000	BLANK
126	EHC-0105-116	L010691017	5/11/2001	DH-13
27	EHC-0105-118	L010691018	5/10/2001	DH-16
128	EHC-0105-124	L010691020	5/11/2001	DH-21
42	EHC-0105-127	L010691022	5/10/2001	DH-24
132	EHC-0105-129	L010691023	5/11/2001	DH-27
45	EHC-0105-130	L010691024	5/11/2001	DH-28
132	EHC-0105-133	L010608012	5/2/2001	DH-30
137	EHC-0105-134	L010608014	5/2/2001	DH-31
137	EHC-0105-136	L010608015	5/2/2001	DH-33
139	EHC-0105-137	L010608016	5/2/2001	DH-34

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54	EHC-0105-139	L010608025	5/2/2001	DH-36
56	EHC-0105-140	L010608026	5/2/2001	DH-37
141	EHC-0105-141	L010608027	5/2/2001	DH-38
54	EHC-0105-143	L010691026	5/9/2001	DH-3
56	EHC-0105-147	L010608029	5/2/2001	DH-43
58	EHC-0105-153	L010608033	5/1/2001	DH-49
58	EHC-0105-155	L010608017	5/1/2001	DH-50
58	EHC-0105-159	L010608021	5/1/2001	DH-54
60	EHC-0105-168	L010691008	5/9/2001	EH-50
86	EHC-0105-176	L010691010	5/10/2001	EH-60
98	EHC-0105-177	60190487	5/10/2001	EH-61
103	EHC-0105-178	L010691011	5/9/2001	EH-62
54	EHC-0105-204	L010608022	5/2/2001	DH-36
24	EHC-0105-205	L010608023	5/1/2001	DI BLANK
56	EHC-0105-206	L010608024	5/2/2001	DH-37
24	EHC-0105-207	L010608036	5/2/2001	RINSATE
24	EHC-0105-208	L010608035	5/2/2001	DI BLANK
54	EHC-0105-222	L010691013	5/9/2001	DH-3
26	EHC-0105-223	L010691014	5/9/2001	RINSATE
24	EHC-0105-224	L010691001	5/9/2001	DI BLANK
126	EHC-0111-114	L011563014	11/9/2001	DH-13
27	EHC-0111-118	L011563016	11/9/2001	DH-16
42	EHC-0111-126	L011563018	11/9/2001	DH-24
132	EHC-0111-127	L011564003	11/11/2001	DH-27
137	EHC-0111-132	L011564005	11/11/2001	DH-31
139	EHC-0111-135	L011564006	11/9/2001	DH-34
56	EHC-0111-137	L011564007	11/9/2001	DH-36
141	EHC-0111-139	L011564008	11/11/2001	DH-38
86	EHC-0111-174	L011565003	11/9/2001	EH-60
26	EHC-0111-202	L011565005	11/9/2001	RINSATE
24	EHC-0111-203	L011565006	11/9/2001	DI BLANK
27	EHC-0111-204	L011565007	11/9/2001	DH-16
132	EHC-0211-130	L020959002	11/18/2002	DH-27
137	EHC-0211-135	L020959005	11/18/2002	DH-31
139	EHC-0211-138	L020959004	11/18/2002	DH-34
141	EHC-0211-142	L020959003	11/18/2002	DH-38
100	EHC-9211-118	92-6777	11/12/1992	EH-62
32	EHC-9211-128	92-6801	11/20/1992	DH-17
38	EHC-9211-137	92-6804	11/20/1992	DH-24
32	EHC-9211-147	92-6803	11/20/1992	DH-17
104	EHC-9211-151	92-6807	11/21/1992	DH-12
115	EHC-9211-155	92-6808	11/21/1992	DH-13

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50	EHC-9211-167	92-6775	11/12/1992	DH-3
70	EHC-9211-173	92-6806	11/21/1992	EH-60
50	EHC-9305-137	93-7770	5/3/1993	DH-3
100	EHC-9305-138	93-7771	5/4/1993	EH-62
32	EHC-9305-152	93-7827	5/5/1993	DH-17
33	EHC-9305-153	9305-064-9	5/5/1993	DH-17
38	EHC-9305-158	93-7832	5/5/1993	DH-24
104	EHC-9305-159	93-7834	5/6/1993	DH-12
118	EHC-9305-160	93-7835	5/6/1993	DH-13
73	EHC-9305-161	93-7836	5/6/1993	EH-60
118	EHC-9305-162	93-7837	5/6/1993	DH-13
91	EHC-9305-164	9305-064-1	5/6/1993	EH-61
105	EHC-9311-109	93-9270	11/12/1993	DH-12
118	EHC-9311-110	93-9271	11/12/1993	DH-13
33	EHC-9311-112	93-9272	11/11/1993	DH-17
38	EHC-9311-120	93-9274	11/11/1993	DH-24
50	EHC-9311-125	93-9196	11/8/1993	DH-3
73	EHC-9311-143	93-9276	11/12/1993	EH-60
91	EHC-9311-144	9311-159-6	11/12/1993	EH-61
100	EHC-9311-145	93-9200	11/8/1993	EH-62
100	EHC-9311-167	93-9204	11/8/1993	EH-62
4	EHC-9311-168	93-9205	11/8/1993	BLANK
73	EHC-9311-178	93-9278	11/12/1993	EH-60
105	EHC-9405-115	94-1382	5/12/1994	DH-12
118	EHC-9405-116	94-1383	5/12/1994	DH-13
33	EHC-9405-118	94-1384	5/12/1994	DH-17
39	EHC-9405-125	94-1385	5/12/1994	DH-24
50	EHC-9405-130	94-1336	5/10/1994	DH-3
73	EHC-9405-147	94-1386	5/12/1994	EH-60
92	EHC-9405-148	9405-095-9	5/12/1994	EH-61
100	EHC-9405-149	94-1340	5/10/1994	EH-62
118	EHC-9405-179	94-1387	5/12/1994	DH-13
4	EHC-9405-180	9405095-10	5/12/1994	BLANK
4	EHC-9405-230	9405095-11	5/12/1994	BLANK
105	EHC-9411-115	94-3385	11/18/1994	DH-12
118	EHC-9411-116	94-3386	11/18/1994	DH-13
33	EHC-9411-118	94-3387	11/18/1994	DH-17
39	EHC-9411-125	94-3389	11/17/1994	DH-24
50	EHC-9411-130	94-3270	11/10/1994	DH-3
73	EHC-9411-148	94-3393	11/18/1994	EH-60
92	EHC-9411-150	411143-6	11/18/1994	EH-61
100	EHC-9411-151	94-3275	11/10/1994	EH-62

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50	EHC-9411-169	411072-3	11/10/1994	DH-3
4	EHC-9411-171	411072-4	11/10/1994	BLANK
33	EHC-9411-182	94-3398	11/18/1994	DH-17
73	EHC-9411-184	94-3400	11/18/1994	EH-60
105	EHC-9505-115	95-4510	5/16/1995	DH-12
122	EHC-9505-116	95-4511	5/16/1995	DH-13
33	EHC-9505-118	95-4512	5/16/1995	DH-17
39	EHC-9505-125	95-4516	5/16/1995	DH-24
51	EHC-9505-130	95-4481	5/9/1995	DH-3
76	EHC-9505-148	95-4520	5/16/1995	EH-60
92	EHC-9505-149	505078 -4	5/16/1995	EH-61
101	EHC-9505-150	95-4489	5/9/1995	EH-62
51	EHC-9505-168	95-4493	5/9/1995	DH-3
7	EHC-9505-169	95-4494	5/9/1995	DI BLANK
76	EHC-9505-178	95-4526	5/16/1995	EH-60
7	EHC-9505-179	95-4527	5/16/1995	DI BLANK
7	EHC-9505-180	505078 -6	5/5/1995	TRIP BLANK
105	EHC-9511-116	95-6141	11/14/1995	DH-12
122	EHC-9511-117	95-6142	11/14/1995	DH-13
34	EHC-9511-119	95-6143	11/13/1995	DH-17
39	EHC-9511-127	95-6147	11/13/1995	DH-24
51	EHC-9511-132	95-6091	11/8/1995	DH-3
76	EHC-9511-150	95-6149	11/14/1995	EH-60
101	EHC-9511-151	95-6100	11/8/1995	EH-62
92	EHC-9511-152	511049-6	11/8/1995	EH-61
51	EHC-9511-167	511023-3	11/8/1995	DH-3
11	EHC-9511-170	95-6105	11/8/1995	DI BLANK
11	EHC-9511-174	95-6150	11/13/1995	DI BLANK
39	EHC-9511-175	95-6151	11/13/1995	DH-24
11	EHC-9511-176	95-6152	11/14/1995	DI BLANK
76	EHC-9511-177	95-6153	11/14/1995	EH-60
105	EHC-9605-104	96-6772	5/14/1996	DH-12
122	EHC-9605-105	96-6773	5/14/1996	DH-13
27	EHC-9605-107	96-6774	5/14/1996	DH-16
39	EHC-9605-114	96-6779	5/14/1996	DH-24
51	EHC-9605-118	96-6708	5/8/1996	DH-3
76	EHC-9605-134	96-6789	5/15/1996	EH-60
92	EHC-9605-135	605045-4	5/15/1996	EH-61
101	EHC-9605-136	96-6717	5/8/1996	EH-62
51	EHC-9605-147	96-6720	5/8/1996	DH-3
11	EHC-9605-148	96-6721	5/8/1996	DI BLANK
11	EHC-9605-155	96-6764	5/14/1996	DI BLANK
76	EHC-9605-156	96-6765	5/15/1996	EH-60

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7	EHC-9605-158	605045-10	5/15/1996	TRIP BLANK
108	EHC-9611-104	96-7784	11/12/1996	DH-12
122	EHC-9611-105	96-7785	11/12/1996	DH-13
34	EHC-9611-106	96-7786	11/12/1996	DH-17
40	EHC-9611-114	96-7788	11/12/1996	DH-24
52	EHC-9611-118	96-7754	11/7/1996	DH-3
80	EHC-9611-134	96-7789	11/12/1996	EH-60
92	EHC-9611-135	611035-6	11/12/1996	EH-61
101	EHC-9611-136	96-7765	11/7/1996	EH-62
14	EHC-9611-147	96-7763	11/7/1996	DI BLANK
101	EHC-9611-148	96-7753	11/7/1996	EH-62
40	EHC-9611-155	96-7791	11/12/1996	DH-24
14	EHC-9611-156	96-7792	11/12/1996	DI BLANK
131	EHC-9612-100CS	96-69325	12/9/1996	DH-27
44	EHC-9612-101CS	96-69420	12/10/1996	DH-28
108	EHC-9705-104	97-934	5/7/1997	DH-12
122	EHC-9705-105	97-935	5/7/1997	DH-13
40	EHC-9705-113	97-940	5/7/1997	DH-24
131	EHC-9705-114CS	97-030469	5/8/1997	DH-27
44	EHC-9705-115CS	97-030470	5/8/1997	DH-28
52	EHC-9705-117	97-904	5/5/1997	DH-3
80	EHC-9705-132	97-971	5/7/1997	EH-60
101	EHC-9705-133	97-918	5/5/1997	EH-62
34	EHC-9705-138	97-972	5/7/1997	DH-17
95	EHC-9705-139	705025-8	5/7/1997	EH-61
102	EHC-9705-146	97-925	5/5/1997	EH-62
95	EHC-9705-151	705025-2	5/7/1997	EH-61
14	EHC-9705-153	705025-1	5/7/1997	DI BLANK
108	EHC-9711-104	187-2682	11/5/1997	DH-12
122	EHC-9711-105	192-2741	11/7/1997	DH-13
34	EHC-9711-106	192-2742	11/7/1997	DH-17
27	EHC-9711-107	192-2743	11/10/1997	DH-16
40	EHC-9711-114	192-2748	11/7/1997	DH-24
52	EHC-9711-118	188-2683	11/5/1997	DH-3
80	EHC-9711-134	188-2686	11/5/1997	EH-60
95	EHC-9711-135	711029-4	11/7/1997	EH-61
102	EHC-9711-136	188-2687	11/5/1997	EH-62
14	EHC-9711-149	187-2681	11/5/1997	DI BLANK
102	EHC-9711-150	188-2699	11/5/1997	EH-62
40	EHC-9711-154	193-2759	11/7/1997	DH-24
14	EHC-9711-155	193-2760	11/7/1997	DI BLANK
45	EHC-9711-160CS	97-70127	11/12/1997	DH-28

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108	EHC-9805-105	260-3751	5/7/1998	DH-12
123	EHC-9805-106	262-3783	5/11/1998	DH-13
34	EHC-9805-107	262-3784	5/11/1998	DH-17
40	EHC-9805-115	262-3788	5/11/1998	DH-24
131	EHC-9805-116CS	98-31303	5/11/1998	DH-27
45	EHC-9805-117CS	98-31302	5/11/1998	DH-28
52	EHC-9805-119	260-3756	5/5/1998	DH-3
80	EHC-9805-135	261-3770	5/6/1998	EH-60
95	EHC-9805-136	805027-5	5/6/1998	EH-61
102	EHC-9805-137	261-3771	5/6/1998	EH-62
14	EHC-9805-149	261-3776	5/6/1998	DI BLANK
80	EHC-9805-150	261-3777	5/6/1998	EH-60
34	EHC-9805-154	262-3796	5/11/1998	DH-17
20	EHC-9805-157	262-3799	5/12/1998	DI BLANK
7	EHC-9805-158	805044-6	5/12/1998	TRIP BLANK
108	EHC-9811-104	312-4438	11/19/1998	DH-12
123	EHC-9811-105	314-4463	11/19/1998	DH-13
35	EHC-9811-106	312-4439	11/20/1998	DH-17
41	EHC-9811-114	312-4440	11/20/1998	DH-24
131	EHC-9811-115	314-4468	11/20/1998	DH-27
45	EHC-9811-116	311-4432	11/20/1998	DH-28
52	EHC-9811-118	310-4401	11/18/1998	DH-3
80	EHC-9811-134	311-4434	11/19/1998	EH-60
95	EHC-9811-135	811076-4	11/19/1998	EH-61
102	EHC-9811-136	310-4411	11/18/1998	EH-62
52	EHC-9811-148	310-4416	11/18/1998	DH-3
20	EHC-9811-149	311-4417	11/18/1998	DI BLANK
108	EHC-9811-151	312-4444	11/19/1998	DH-12
20	EHC-9811-152	311-4435	11/19/1998	DI BLANK
41	EHC-9811-153	312-4445	11/20/1998	DH-24
20	EHC-9811-154	311-4436	11/20/1998	DI BLANK
111	EHC-9905-104	347-4897	5/11/1999	DH-12
123	EHC-9905-105	347-4898	5/11/1999	DH-13
35	EHC-9905-106	347-4899	5/11/1999	DH-17
41	EHC-9905-114	347-4903	5/11/1999	DH-24
131	EHC-9905-115	347-4904	5/11/1999	DH-27
45	EHC-9905-116	347-4905	5/11/1999	DH-28
53	EHC-9905-118	346-4880	5/8/1999	DH-3
83	EHC-9905-134	347-4894	5/10/1999	EH-60
95	EHC-9905-135	905024-3	5/10/1999	EH-61
102	EHC-9905-136	346-4885	5/8/1999	EH-62
53	EHC-9905-146	346-4883	5/8/1999	DH-3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

Run Time: 9/16/2009 11:56:51 AM

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# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

### Table of Contents by Sample ID

<u>Page</u>	<u>Sample ID</u>	<u>Lab Sample ID</u>	<u>Sample Date</u>	<u>Station Name</u>
20	EHC-9905-147	346-4884	5/8/1999	DI BLANK
83	EHC-9905-148	347-4895	5/10/1999	EH-60
20	EHC-9905-149	347-4896	5/10/1999	DI BLANK
41	EHC-9905-150	348-4906	5/11/1999	DH-24
23	EHC-9905-151	348-4907	5/11/1999	DI BLANK
111	EHC-9911-115	L992007004	11/12/1999	DH-12
123	EHC-9911-116	L992007005	11/12/1999	DH-13
35	EHC-9911-118	L992007006	11/12/1999	DH-17
41	EHC-9911-127	L992007011	11/12/1999	DH-24
53	EHC-9911-132	L992007014	11/10/1999	DH-3
83	EHC-9911-150	L992008015	11/11/1999	EH-60
98	EHC-9911-151	911050-3	11/11/1999	EH-61
103	EHC-9911-152	L992009001	11/10/1999	EH-62
103	EHC-9911-172	L992009008	11/10/1999	EH-62
23	EHC-9911-173	L992009009	11/10/1999	DI BLANK
83	EHC-9911-174	L992009010	11/11/1999	EH-60
23	EHC-9911-175	L992009011	11/11/1999	DI BLANK
41	EHC-9911-176	L992009012	11/12/1999	DH-24
23	EHC-9911-177	L992009013	11/12/1999	DI BLANK

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

Run Time: 9/16/2009 11:56:51 AM

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# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	BLANK	BLANK	BLANK	BLANK	BLANK	BLANK
Unknown	SAMPLE DATE	12/8/1988	5/1/1990	5/1/1990	12/6/1990	5/9/1991	5/13/1991
	SAMPLE TIME	00:00	00:00	00:00	15:45	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	ATI	ATI	ATI	ATI
	LAB NUMBER	89-29	90-1080	9005-601	9012-078-5	91051047	91051243
	SAMPLE NUMBER	AEH-8812-155	AEH-9005-436	AEH-9005-601	AEH-9011-757	AEH-9105-138	AEH-9105-200
	TYPE	QC	QC	QC	QC	QC	QC
	GROUP	QC	QC	QC	QC	QC	QC
	DESCRIPTION						
	REMARKS	Blank	Blank	Blank		Blank	Blank

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics	<1	<1
Gasoline Range Organics	<1	<1
Total Petroleum Hydrocarbons	<0.05	<1

**Semi-VOA's (mg/L): ppm unless noted**

1,2-Dichloroethene	<0.005	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	<0.05		<0.05	
2,4,6-Trichlorophenol	<0.01		<0.01	
2,4-Dichlorophenol	<0.01		<0.01	
2,4-Dimethylphenol	<0.01		<0.01	
2,4-Dinitrophenol	<0.05		<0.05	
2,4-Dinitrotoluene	<0.01		<0.01	
2-Chloronaphthalene	<0.01		<0.01	
2-Methylnaphthalene	<0.01		<0.01	
2-Methylphenol	<0.01		<0.01	
2-Nitrophenol	<0.01		<0.01	
3,3-Dichlorobenzidine	<0.02		<0.02	
3-Nitroaniline	<0.05		<0.05	
4,6-Dinitro-2-methylphenol	<0.05		<0.05	
4-Bromophenyl Phenyl Ether	<0.01		<0.01	
4-Chloro-3-methylphenol	<0.01		<0.01	
4-Chloroaniline	<0.01		<0.01	
4-Chlorophenyl Phenyl Ether	<0.01		<0.01	
4-Methylphenol	<0.01		<0.01	
4-Nitroaniline	<0.05		<0.05	
4-Nitrophenol	<0.05		<0.05	
Acenaphthene	<0.01		<0.01	
Acenaphthylene	<0.01		<0.01	
Benzo(a)anthracene	<0.01		<0.01	
Benzo(a)pyrene	<0.01		<0.01	
Benzo(b)fluoranthene	<0.01		<0.01	
Benzo(g,h,i)perylene	<0.01		<0.01	
Benzo(k)fluoranthene	<0.01		<0.01	
Benzoic Acid	<0.05		<0.05	
Benzyl Alcohol	<0.01		<0.01	
bis(2-chloroethoxy)methane	<0.01		<0.01	
bis(2-chloroethyl) Ether	<0.01		<0.01	
bis(2-chloroisopropyl) Ether	<0.01		<0.01	
bis(2-ethylhexyl)Phthalate	0.2		0.004	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	BLANK	BLANK	BLANK	BLANK
Unknown	SAMPLE DATE	5/1/1990	5/1/1990	5/9/1991	5/13/1991
	SAMPLE TIME	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	ATI	ATI	ATI
	LAB NUMBER	90-1080	9005-601	91051047	91051243
	SAMPLE NUMBER	AEH-9005-436	AEH-9005-601	AEH-9105-138	AEH-9105-200
	TYPE	QC	QC	QC	QC
	GROUP	QC	QC	QC	QC
	DESCRIPTION				
	REMARKS	Blank	Blank	Blank	Blank

**Semi-VOA's (mg/L): ppm unless noted**

Butyl Benzyl Phthalate	<0.01	<0.01
Dibenz(a,h)anthracene	<0.01	<0.01
Dibenzofuran	<0.01	<0.01
Dimethylphthalate	<0.01	<0.01
Di-n-Butylphthalate	<0.01	<0.01
Di-N-Octylphthalate	<0.01	<0.01
Fluorene	<0.01	<0.01
Hexachlorobenzene	<0.01	<0.01
Hexachloroethane	<0.01	<0.01
Indeno (1,2,3-cd) Pyrene	<0.01	<0.01
Isophorone	<0.01	<0.01
Nitrobenzene	<0.01	<0.01
N-Nitroso-Di-N-Propylamine	<0.01	<0.01
Phenanthrene	<0.01	<0.01
Pyrene	<0.01	<0.01
1,2,4-Trichlorobenzene	<0.01	<0.01
2,6-Dinitrotoluene	<0.01	<0.01
2-Chlorophenol	<0.01	<0.01
2-Nitroaniline	<0.05	<0.05
Anthracene	<0.01	<0.01
Chrysene	<0.01	<0.01
Diethylphthalate	<0.01	<0.01
Fluoranthene	<0.01	<0.01
Hexachlorocyclopentadiene	<0.01	<0.01
N-Nitrosodiphenylamine	<0.01	<0.01
Naphthalene	<0.01	<0.01
Pentachlorophenol	<0.05	<0.05
Phenol	<0.01	<0.01

**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene	<0.01	<0.01		
1,3-Dichlorobenzene	<0.01	<0.01		
1,4-Dichlorobenzene	<0.01	<0.01		
Hexachlorobutadiene	<0.01	<0.01		
1,1,1-Trichloroethane	<0.005	<0.005	<0.005	<0.005
1,1,2,2-Tetrachloroethane	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethane	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethene	<0.005	<0.005	<0.005	<0.005

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	BLANK	BLANK	BLANK	BLANK
Unknown	SAMPLE DATE	5/1/1990	5/1/1990	5/9/1991	5/13/1991
	SAMPLE TIME	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	ATI	ATI	ATI
	LAB NUMBER	90-1080	9005-601	91051047	91051243
	SAMPLE NUMBER	AEH-9005-436	AEH-9005-601	AEH-9105-138	AEH-9105-200
	TYPE	QC	QC	QC	QC
	GROUP	QC	QC	QC	QC
	DESCRIPTION				
	REMARKS	Blank	Blank	Blank	Blank

**VOA's (mg/L): ppm unless noted**

1,2-Dichloroethane	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane	<0.005	<0.005	<0.005	<0.005
2-Butanone	<0.01	<0.01	<0.01	<0.01
2-Hexanone	<0.01	<0.01	<0.01	<0.01
4-Methyl-2-Pentanone	<0.01	<0.01	<0.01	<0.01
Acetone	<0.01	<0.01	0.005	0.05
Benzene	<0.005	<0.005	<0.005	<0.005
Bromodichloromethane	<0.005	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005	<0.005
Bromomethane	<0.01	<0.01	<0.01	<0.01
Carbon Disulfide	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	<0.005	<0.005	<0.005	<0.005
Chlorobenzene	<0.005	<0.005	<0.005	<0.005
Chloroethane	<0.01	<0.01	<0.01	<0.01
Chloroform	<0.005	<0.005	<0.005	<0.005
Chloromethane	<0.01	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	<0.005	<0.005	<0.005	<0.005
Dibromochloromethane	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	<0.005	<0.005	<0.005	<0.005
m-Xylene	<0.005	<0.005	<0.005	<0.005
Methylene Chloride	<0.005	<0.005	0.004	<0.004
Styrene	<0.005	<0.005	<0.005	<0.005
Tetrachloroethene	<0.005	<0.005	<0.005	<0.005
Toluene	<0.005	<0.005	<0.005	<0.005
Total Xylene	<0.005	<0.005	<0.005	<0.005
Trans-1,3-dichloropropene	<0.005	<0.005	<0.005	<0.005
Trichloroethene	<0.005	<0.005	<0.005	<0.005
Vinyl Acetate	<0.01	<0.01	<0.01	<0.01
Vinyl Chloride	<0.01	<0.01	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	BLANK	BLANK	BLANK	BLANK	BLANK	BLANK
Unknown	SAMPLE DATE	11/8/1993	5/12/1994	5/12/1994	11/10/1994	11/7/2000	11/8/2000
	SAMPLE TIME	10:00	00:00	16:50	16:00	17:00	17:00
	LAB	TSC-SLC	ATI	ATI	ATI	TSC-SLC	TSC-SLC
	LAB NUMBER	93-9205	9405095-11	9405095-10	411072-4	L001873014	L001873016
	SAMPLE NUMBER	EHC-9311-168	EHC-9405-230	EHC-9405-180	EHC-9411-171	EHC-0011-171	EHC-0011-173
	TYPE	QC	QC	QC	QC	QC	QC
	GROUP	QC	QC	QC	QC	QC	QC
	DESCRIPTION						
	REMARKS		Blank	Blank	Blank	Blank	Blank

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics	<1	<0.5	<0.5
Diesel Range Organics as Diesel		<0.5	<0.5
Gasoline Range Organics	<1	<0.02 J	<0.02 J
Gasoline Range Organics as Gas		<0.02 J	<0.02 J
Total Extractable Hydrocarbons		<0.5	<0.5
Total Petroleum Hydrocarbons	<1	<1	<0.1
Total Purgeable Hydrocarbons		<0.02	<0.02 J

**Semi-VOA's (mg/L): ppm unless noted**

1,2-Dichloroethene	<0.01	<0.01
2,2'-Oxybis(1-Chloropropane)		<0.01 UJ
2,4,5-Trichlorophenol		<0.03
2,4,6-Trichlorophenol		<0.01
2,4-Dichlorophenol		<0.01
2,4-Dimethylphenol		<0.01
2,4-Dinitrophenol		<0.03 UJ
2,4-Dinitrotoluene		<0.01
2-Chloronaphthalene		<0.01
2-Methylnaphthalene		<0.01
2-Methylphenol		<0.01
2-Nitrophenol		<0.01
3,3-Dichlorobenzidine		<0.01
3-Nitroaniline		<0.03
4,6-Dinitro-2-methylphenol		<0.03
4-Bromophenyl Phenyl Ether		<0.01
4-Chloro-3-methylphenol		<0.01
4-Chloroaniline		<0.01
4-Chlorophenyl Phenyl Ether		<0.01
4-Methylphenol		<0.01
4-Nitroaniline		<0.03
4-Nitrophenol		<0.03
Acenaphthene		<0.01
Acenaphthylene		<0.01
Benzo(a)anthracene		<0.01
Benzo(a)pyrene		<0.01
Benzo(b)fluoranthene		<0.01
Benzo(g,h,i)perylene		<0.01
Benzo(k)fluoranthene		<0.01
bis(2-chloroethoxy)methane		<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	BLANK	BLANK
Unknown	SAMPLE DATE	5/12/1994	5/12/1994
	SAMPLE TIME	00:00	16:50
	LAB	ATI	ATI
	LAB NUMBER	9405095-11	9405095-10
	SAMPLE NUMBER	EHC-9405-230	EHC-9405-180
	TYPE	QC	QC
	GROUP	QC	QC
	DESCRIPTION		
	REMARKS	Blank	Blank

**Semi-VOA's (mg/L): ppm unless noted**

bis(2-chloroethyl) Ether	<0.01
bis(2-ethylhexyl)Phthalate	0.07 J
Butyl Benzyl Phthalate	<0.01 UJ
Dibenz(a,h)anthracene	<0.01
Dibenzofuran	<0.01
Dimethylphthalate	<0.01
Di-n-Butylphthalate	<0.01
Di-N-Octylphthalate	<0.01 UJ
Fluorene	<0.01
Hexachlorobenzene	<0.01
Hexachloroethane	<0.01
Indeno (1,2,3-cd) Pyrene	<0.01
Isophorone	<0.01
Nitrobenzene	<0.01
N-Nitroso-Di-N-Propylamine	<0.01 UJ
Phenanthrene	<0.01
Pyrene	<0.01 UJ
1,2,4-Trichlorobenzene	<0.01
2,6-Dinitrotoluene	<0.01
2-Chlorophenol	<0.01
2-Nitroaniline	<0.03
Anthracene	<0.01
Chrysene	<0.01
Diethylphthalate	<0.01
Fluoranthene	<0.01
Hexachlorocyclopentadiene	<0.01
N-Nitrosodiphenylamine	<0.01
Naphthalene	<0.01
Pentachlorophenol	<0.03
Phenol	<0.01

**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene	<0.01
1,3-Dichlorobenzene	<0.01
1,4-Dichlorobenzene	<0.01
Hexachlorobutadiene	<0.01
1,1,1-Trichloroethane	<0.01
1,1,2,2-Tetrachloroethane	<0.01
1,1,2-Trichloroethane	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	BLANK	BLANK
Unknown	SAMPLE DATE	5/12/1994	5/12/1994
	SAMPLE TIME	00:00	16:50
	LAB	ATI	ATI
	LAB NUMBER	9405095-11	9405095-10
	SAMPLE NUMBER	EHC-9405-230	EHC-9405-180
	TYPE	QC	QC
	GROUP	QC	QC
	DESCRIPTION		
	REMARKS	Blank	Blank

**VOA's (mg/L): ppm unless noted**

1,1-Dichloroethane	<0.01	<0.01
1,1-Dichloroethene	<0.01	<0.01
1,2-Dichloroethane	<0.01	<0.01
1,2-Dichloropropane	<0.01	<0.01
2-Butanone	<0.01	<0.01
2-Hexanone	<0.01	<0.01
4-Methyl-2-Pentanone	<0.01	<0.01
Acetone	<0.01 UJ	<0.01 UJ
Benzene	<0.01	<0.01
Bromodichloromethane	<0.01	<0.01
Bromoform	<0.01	<0.01
Bromomethane	<0.01	<0.01
Carbon Disulfide	<0.01	<0.01
Carbon Tetrachloride	<0.01	<0.01
Chlorobenzene	<0.01	<0.01
Chloroethane	<0.01	<0.01
Chloroform	<0.01	<0.01
Chloromethane	<0.01	<0.01
cis-1,3-Dichloropropene	<0.01	<0.01
Dibromochloromethane	<0.01	<0.01
Ethylbenzene	<0.01	<0.01
Methylene Chloride	<0.01	<0.01
Styrene	<0.01	<0.01
Tetrachloroethene	<0.01	<0.01
Toluene	<0.01	<0.01
Total Xylene	<0.01	<0.01
Trans-1,3-dichloropropene	<0.01	<0.01
Trichloroethene	<0.01	<0.01
Vinyl Chloride	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	TRIP BLANK	TRIP BLANK	TRIP BLANK	DI BLANK	DI BLANK
Unknown	SAMPLE DATE	5/5/1995	5/15/1996	5/12/1998	5/9/1995	5/16/1995
	SAMPLE TIME	17:00	00:00	12:30	14:00	16:15
	LAB	ATI	ATI	MULTICHEM	TSC-SLC	TSC-SLC
	LAB NUMBER	505078 -6	605045-10	805044-6	95-4494	95-4527
	SAMPLE NUMBER	EHC-9505-180	EHC-9605-158	EHC-9805-158	EHC-9505-169	EHC-9505-179
	TYPE	QC	QC	QC	QC	QC
	GROUP	QC	QC	QC	RI	RI
	DESCRIPTION					
	REMARKS	Blank	Blank	Blank	Blank	Blank

**Hydrocarbon: ppm unless noted**

Diesel Range Organics	<1
Gasoline Range Organics	<1
Total Petroleum Hydrocarbons	<1

**Hydrocarbon (mg/L): ppm unless noted**

Total Petroleum Hydrocarbons	<1
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**Semi-VOA's: ppm unless noted**

1,2-Dichloroethene	<0.01
1,2-Diphenylhydrazine	<0.01
2,4,5-Trichlorophenol	<0.05
2,4,6-Trichlorophenol	<0.01
2,4-Dichlorophenol	<0.01
2,4-Dimethylphenol	<0.01
2,4-Dinitrophenol	<0.05
2,4-Dinitrotoluene	<0.01
2-Chloronaphthalene	<0.01
2-Methylnaphthalene	<0.01
2-Methylphenol	<0.01
2-Nitrophenol	<0.01
3,3-Dichlorobenzidine	<0.02
3-Nitroaniline	<0.05
4,6-Dinitro-2-methylphenol	<0.05
4-Bromophenyl Phenyl Ether	<0.01
4-Chloro-3-methylphenol	<0.02
4-Chloroaniline	<0.04
4-Chlorophenyl Phenyl Ether	<0.01
4-Methylphenol	<0.01
4-Nitroaniline	<0.02
4-Nitrophenol	<0.05
Acenaphthene	<0.01
Acenaphthylene	<0.01
Benzidine	<0.02
Benzo(a)anthracene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(g,h,l)perylene	<0.01
Benzo(k)fluoranthene	<0.01
Benzoic Acid	<0.1
Benzyl Alcohol	<0.04
bis(2-chloroethoxy)methane	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	TRIP BLANK	TRIP BLANK	TRIP BLANK	DI BLANK
Unknown	SAMPLE DATE	5/5/1995	5/15/1996	5/12/1998	5/16/1995
	SAMPLE TIME	17:00	00:00	12:30	16:15
	LAB	ATI	ATI	MULTICHEM	TSC-SLC
	LAB NUMBER	505078 -6	605045-10	805044-6	95-4527
	SAMPLE NUMBER	EHC-9505-180	EHC-9605-158	EHC-9805-158	EHC-9505-179
	TYPE	QC	QC	QC	QC
	GROUP	QC	QC	QC	RI
	DESCRIPTION				
	REMARKS	Blank	Blank	Blank	Blank

**Semi-VOA's: ppm unless noted**

bis(2-chloroethyl) Ether	<0.01
bis(2-chloroisopropyl) Ether	<0.01
bis(2-ethylhexyl)Phthalate	<0.01
Butyl Benzyl Phthalate	<0.01
Carbazole	<0.01
Dibenz(a,h)anthracene	<0.01
Dibenzofuran	<0.01
Dimethylphthalate	<0.01
Di-n-Butylphthalate	<0.01
Di-N-Octylphthalate	<0.01
Fluorene	<0.01
Hexachlorobenzene	<0.01
Hexachloroethane	<0.01
Indeno (1,2,3-cd) Pyrene	<0.01
Isophorone	<0.01
Nitrobenzene	<0.01
N-Nitrosodipropylamine	<0.01
Phenanthrene	<0.01
Pyrene	<0.01
Pyridine	<0.01
1,2,4-Trichlorobenzene	<0.01
2,6-Dinitrotoluene	<0.01
2-Chlorophenol	<0.01
2-Nitroaniline	<0.05
Aniline	<0.01
Anthracene	<0.01
Chrysene	<0.01
Diethylphthalate	<0.01
Fluoranthene	<0.01
Hexachlorocyclopentadiene	<0.01
N-Nitrosodimethylamine	<0.01
N-Nitrosodiphenylamine	<0.01
Naphthalene	<0.01
Pentachlorophenol	<0.05
Phenol	<0.01

**Semi-VOA's (mg/L): ppm unless noted**

1,2-Dichloroethene	<0.01	<0.01	<0.01
Bromoethane		<0.01	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	TRIP BLANK	TRIP BLANK	TRIP BLANK	DI BLANK
Unknown	SAMPLE DATE	5/5/1995	5/15/1996	5/12/1998	5/16/1995
	SAMPLE TIME	17:00	00:00	12:30	16:15
	LAB	ATI	ATI	MULTICHEM	TSC-SLC
	LAB NUMBER	505078 -6	605045-10	805044-6	95-4527
	SAMPLE NUMBER	EHC-9505-180	EHC-9605-158	EHC-9805-158	EHC-9505-179
	TYPE	QC	QC	QC	QC
	GROUP	QC	QC	QC	RI
	DESCRIPTION				
	REMARKS	Blank	Blank	Blank	Blank

**VOA's: ppm unless noted**

1,2-Dichlorobenzene	<0.01
1,3-Dichlorobenzene	<0.01
1,4-Dichlorobenzene	<0.01
Hexachlorobutadiene	<0.01
1,1,1-Trichloroethane	<0.01
1,1,2,2-Tetrachloroethane	<0.01
1,1,2-Trichloroethane	<0.01
1,1-Dichloroethane	<0.01
1,1-Dichloroethene	<0.01
1,2-Dichloroethane	<0.01
1,2-Dichloropropane	<0.01
2-Butanone	<0.01
2-Hexanone	<0.01
4-Methyl-2-Pentanone	<0.01
Acetone	0.008
Benzene	<0.01
Bromodichloromethane	<0.01
Bromoform	<0.01
Bromomethane	<0.01
Carbon Disulfide	<0.01
Carbon Tetrachloride	<0.01
Chlorobenzene	<0.01
Chloroethane	<0.01
Chloroform	<0.01
Chloromethane	<0.01
cis-1,3-Dichloropropene	<0.01
Dibromochloromethane	<0.01
Ethylbenzene	<0.01
Methylene Chloride	<0.01
Styrene	<0.01
Tetrachloroethene	<0.01
Toluene	<0.01
Total Xylene	<0.01
Trans-1,3-dichloropropene	<0.01
Trichloroethene	<0.01
Vinyl Chloride	<0.01

**VOA's (mg/L): ppm unless noted**

1,1,1-Trichloroethane	<0.01	<0.01	<0.01
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	TRIP BLANK	TRIP BLANK	TRIP BLANK
Unknown	SAMPLE DATE	5/5/1995	5/15/1996	5/12/1998
	SAMPLE TIME	17:00	00:00	12:30
	LAB	ATI	ATI	MULTICHEM
	LAB NUMBER	505078 -6	605045-10	805044-6
	SAMPLE NUMBER	EHC-9505-180	EHC-9605-158	EHC-9805-158
	TYPE	QC	QC	QC
	GROUP	QC	QC	QC
	DESCRIPTION			
	REMARKS	Blank	Blank	Blank

**VOA's (mg/L): ppm unless noted**

1,1,2,2-Tetrachloroethane	<0.01	<0.01	<0.01
1,1,2-Trichloroethane	<0.01	<0.01	<0.01
1,1-Dichloroethane	<0.01	<0.01	<0.01
1,1-Dichloroethene	<0.01	<0.01	<0.01
1,2-Dichloroethane	<0.01	<0.01	<0.01
1,2-Dichloropropane	<0.01	<0.01	<0.01
2-Butanone	<0.01	<0.01	<0.01 UJ
2-Hexanone	<0.01	<0.01	<0.01 UJ
4-Methyl-2-Pentanone	<0.01	<0.01	<0.01
Acetone	0.006	0.003	<0.01 UJ
Benzene	<0.01	<0.01	<0.01
Bromodichloromethane	<0.01	<0.01	<0.01
Bromoform	<0.01	<0.01	<0.01
Bromomethane	<0.01	<0.01	<0.01
Carbon Disulfide	<0.01	0.002	<0.01
Carbon Tetrachloride	<0.01	<0.01	<0.01
Chlorobenzene	<0.01	<0.01	<0.01
Chloroethane	<0.01	<0.01	<0.01
Chloroform	<0.01	<0.01	<0.01
Chloromethane	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	<0.01	<0.01	<0.01
Dibromochloromethane	<0.01	<0.01	<0.01
Ethylbenzene	<0.01	<0.01	<0.01
Methylene Chloride	<0.01	0.002	0.001
Styrene	<0.01	<0.01	<0.01
Tetrachloroethene	<0.01	<0.01	<0.01
Toluene	<0.01	<0.01	<0.01
Total Xylene	<0.01	<0.01	<0.01
Trans-1,3-dichloropropene	<0.01	<0.01	<0.01
Trichloroethene	<0.01	<0.01	<0.01
Vinyl Chloride	<0.01	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DI BLANK	DI BLANK	DI BLANK	DI BLANK	DI BLANK	DI BLANK
Unknown	SAMPLE DATE	11/8/1995	11/13/1995	11/14/1995	5/8/1996	5/14/1996	5/15/1996
	SAMPLE TIME	13:15	15:00	08:25	10:00	19:00	14:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-6105	95-6150	95-6152	96-6721	96-6764	96-6766
	SAMPLE NUMBER	EHC-9511-170	EHC-9511-174	EHC-9511-176	EHC-9605-148	EHC-9605-155	EHC-9605-157
	TYPE	QC	QC	QC	QC	QC	QC
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Blank	Blank	Blank	Blank	Blank	Blank

**Hydrocarbon: ppm unless noted**

Diesel Range Organics					<1	2
Gasoline Range Organics					<1	<1
Total Petroleum Hydrocarbons	<1	<1	<1	<1	<1	<1

**Semi-VOA's: ppm unless noted**

1,2-Dichloroethene					<0.01	<0.01
2,2'-Oxybis(1-Chloropropane)					<0.01	<0.01
2,4,5-Trichlorophenol					<0.03	<0.03
2,4,6-Trichlorophenol					<0.01	<0.01
2,4-Dichlorophenol					<0.01	<0.01
2,4-Dimethylphenol					<0.01	<0.01
2,4-Dinitrophenol					<0.03	<0.03
2,4-Dinitrotoluene					<0.01	<0.01
2-Chloronaphthalene					<0.01	<0.01
2-Methylnaphthalene					<0.01	<0.01
2-Methylphenol					<0.01	<0.01
2-Nitrophenol					<0.01	<0.01
3,3-Dichlorobenzidine					<0.01	<0.01
3-Nitroaniline					<0.03	<0.03
4,6-Dinitro-2-methylphenol					<0.03	<0.03
4-Bromophenyl Phenyl Ether					<0.01	<0.01
4-Chloro-3-methylphenol					<0.01	<0.01
4-Chloroaniline					<0.01	<0.01
4-Chlorophenyl Phenyl Ether					<0.01	<0.01
4-Methylphenol					<0.01	<0.01
4-Nitroaniline					<0.03	<0.03
4-Nitrophenol					<0.03	<0.03
Acenaphthene					<0.01	<0.01
Acenaphthylene					<0.01	<0.01
Benzo(a)anthracene					<0.01	<0.01
Benzo(a)pyrene					<0.01	<0.01
Benzo(b)fluoranthene					<0.01	<0.01
Benzo(g,h,i)perylene					<0.01	<0.01
Benzo(k)fluoranthene					<0.01	<0.01
bis(2-chloroethoxy)methane					<0.01	<0.01
bis(2-chloroethyl) Ether					<0.01	<0.01
bis(2-ethylhexyl)Phthalate					0.006	0.005
Bromoethane					<0.01	<0.01
Butyl Benzyl Phthalate					<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DI BLANK	DI BLANK
Unknown	SAMPLE DATE	5/14/1996	5/15/1996
	SAMPLE TIME	19:00	14:30
	LAB	TSC-SLC	TSC-SLC
	LAB NUMBER	96-6764	96-6766
	SAMPLE NUMBER	EHC-9605-155	EHC-9605-157
	TYPE	QC	QC
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS	Blank	Blank

**Semi-VOA's: ppm unless noted**

Carbazole	<0.01	<0.01
Dibenz(a,h)anthracene	<0.01	<0.01
Dibenzofuran	<0.01	<0.01
Dimethylphthalate	<0.01	<0.01
Di-n-Butylphthalate	<0.01	<0.01
Di-N-Octylphthalate	<0.01	<0.01
Fluorene	<0.01	<0.01
Hexachlorobenzene	<0.01	<0.01
Hexachloroethane	<0.01	<0.01
Indeno (1,2,3-cd) Pyrene	<0.01	<0.01
Isophorone	<0.01	<0.01
Nitrobenzene	<0.01	<0.01
N-Nitroso-Di-N-Propylamine	<0.01	<0.01
Phenanthrene	<0.01	<0.01
Pyrene	<0.01	<0.01
1,2,4-Trichlorobenzene	<0.01	<0.01
2,6-Dinitrotoluene	<0.01	<0.01
2-Chlorophenol	<0.01	<0.01
2-Nitroaniline	<0.03	<0.03
Anthracene	<0.01	<0.01
Chrysene	<0.01	<0.01
Diethylphthalate	<0.01	<0.01
Fluoranthene	<0.01	<0.01
Hexachlorocyclopentadiene	<0.01	<0.01
N-Nitrosodiphenylamine	<0.01	<0.01
Naphthalene	<0.01	<0.01
Pentachlorophenol	<0.01	<0.03
Phenol	<0.01	<0.01

**VOA's: ppm unless noted**

1,2-Dichlorobenzene	<0.01	<0.01
1,3-Dichlorobenzene	<0.01	<0.01
1,4-Dichlorobenzene	<0.01	<0.01
Hexachlorobutadiene	<0.01	<0.01
1,1,1-Trichloroethane	<0.01	<0.01
1,1,2,2-Tetrachloroethane	<0.01	<0.01
1,1,2-Trichloroethane	<0.01	<0.01
1,1-Dichloroethane	<0.01	<0.01
1,1-Dichloroethene	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DI BLANK	DI BLANK
Unknown	SAMPLE DATE	5/14/1996	5/15/1996
	SAMPLE TIME	19:00	14:30
	LAB	TSC-SLC	TSC-SLC
	LAB NUMBER	96-6764	96-6766
	SAMPLE NUMBER	EHC-9605-155	EHC-9605-157
	TYPE	QC	QC
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS	Blank	Blank

**VOA's: ppm unless noted**

1,2-Dichloroethane	<0.01	<0.01
1,2-Dichloropropane	<0.01	<0.01
2-Butanone	<0.01	<0.01
2-Hexanone	<0.01	<0.01
4-Methyl-2-Pentanone	<0.01	<0.01
Acetone	0.004	<0.01
Benzene	<0.01	<0.01
Bromodichloromethane	<0.01	<0.01
Bromoform	<0.01	<0.01
Carbon Disulfide	<0.01	<0.01
Carbon Tetrachloride	<0.01	<0.01
Chlorobenzene	<0.01	<0.01
Chloroethane	<0.01	<0.01
Chloroform	<0.01	<0.01
Chloromethane	<0.01	<0.01
cis-1,3-Dichloropropene	<0.01	<0.01
Dibromochloromethane	<0.01	<0.01
Ethylbenzene	<0.01	<0.01
Methylene Chloride	0.001	<0.01
Styrene	<0.01	<0.01
Tetrachloroethene	<0.01	<0.01
Toluene	<0.01	<0.01
Total Xylene	<0.01	<0.01
Trans-1,3-dichloropropene	<0.01	<0.01
Trichloroethene	<0.01	<0.01
Vinyl Chloride	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DI BLANK	DI BLANK	DI BLANK	DI BLANK	DI BLANK	DI BLANK
Unknown	SAMPLE DATE	11/7/1996	11/12/1996	5/7/1997	11/5/1997	11/7/1997	5/6/1998
	SAMPLE TIME	13:05	17:30	19:15	09:30	11:10	10:20
	LAB	TSC-SLC	TSC-SLC	ATI	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-7763	96-7792	705025-1	187-2681	193-2760	261-3776
	SAMPLE NUMBER	EHC-9611-147	EHC-9611-156	EHC-9705-153	EHC-9711-149	EHC-9711-155	EHC-9805-149
	TYPE	QC	QC	QC	QC	QC	QC
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Blank	Blank	Blank	Blank	Blank	Blank

**Hydrocarbon: ppm unless noted**

Diesel Range Organics	<1	<1
Gasoline Range Organics	<1	<1
Total Petroleum Hydrocarbons	<1	<1

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics	<1
Gasoline Range Organics	<1
Total Petroleum Hydrocarbons	<1

**Semi-VOA's: ppm unless noted**

1,2-Dichloroethene	<0.01
2,2'-Oxybis(1-Chloropropane)	<0.01
2,4,5-Trichlorophenol	<0.03
2,4,6-Trichlorophenol	<0.01
2,4-Dichlorophenol	<0.01
2,4-Dimethylphenol	<0.01
2,4-Dinitrophenol	<0.03
2,4-Dinitrotoluene	<0.01
2-Chloronaphthalene	<0.01
2-Methylnaphthalene	<0.01
2-Methylphenol	<0.01
2-Nitrophenol	<0.01
3,3-Dichlorobenzidine	<0.01
3-Nitroaniline	<0.03
4,6-Dinitro-2-methylphenol	<0.03
4-Bromophenyl Phenyl Ether	<0.01
4-Chloro-3-methylphenol	<0.01
4-Chloroaniline	<0.01
4-Chlorophenyl Phenyl Ether	<0.01
4-Methylphenol	<0.01
4-Nitroaniline	<0.03
4-Nitrophenol	<0.03
Acenaphthene	<0.01
Acenaphthylene	<0.01
Benzo(a)anthracene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(g,h,i)perylene	<0.01
Benzo(k)fluoranthene	<0.01
bis(2-chloroethoxy)methane	<0.01
bis(2-chloroethyl) Ether	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DI BLANK	DI BLANK
Unknown	SAMPLE DATE	5/7/1997	5/6/1998
	SAMPLE TIME	19:15	10:20
	LAB	ATI	TSC-SLC
	LAB NUMBER	705025-1	261-3776
	SAMPLE NUMBER	EHC-9705-153	EHC-9805-149
	TYPE	QC	QC
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS	Blank	Blank

**Semi-VOA's: ppm unless noted**

bis(2-ethylhexyl)Phthalate	0.005
Bromoethane	<0.01
Butyl Benzyl Phthalate	<0.01
Carbazole	<0.01
Dibenz(a,h)anthracene	<0.01
Dibenzofuran	<0.01
Dimethylphthalate	<0.01
Di-n-Butylphthalate	<0.01
Di-N-Octylphthalate	<0.01
Fluorene	<0.01
Hexachlorobenzene	<0.01
Hexachloroethane	<0.01
Indeno (1,2,3-cd) Pyrene	<0.01
Isophorone	<0.01
Nitrobenzene	<0.01
N-Nitroso-Di-N-Propylamine	<0.01
Phenanthrene	<0.01
Pyrene	<0.01
1,2,4-Trichlorobenzene	<0.01
2,6-Dinitrotoluene	<0.01
2-Chlorophenol	<0.01
2-Nitroaniline	<0.03
Anthracene	<0.01
Chrysene	<0.01
Diethylphthalate	<0.01
Fluoranthene	<0.01
Hexachlorocyclopentadiene	<0.01
N-Nitrosodiphenylamine	<0.01
Naphthalene	<0.01
Pentachlorophenol	<0.03
Phenol	<0.01

**Semi-VOA's (mg/L): ppm unless noted**

1,2-Dichloroethene	<0.01
2,2'-Oxybis(1-Chloropropane)	<0.01
2,4,5-Trichlorophenol	<0.03
2,4,6-Trichlorophenol	<0.01
2,4-Dichlorophenol	<0.01
2,4-Dimethylphenol	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DI BLANK	DI BLANK
Unknown	SAMPLE DATE	5/7/1997	5/6/1998
	SAMPLE TIME	19:15	10:20
	LAB	ATI	TSC-SLC
	LAB NUMBER	705025-1	261-3776
	SAMPLE NUMBER	EHC-9705-153	EHC-9805-149
	TYPE	QC	QC
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS	Blank	Blank

**Semi-VOA's (mg/L): ppm unless noted**

2,4-Dinitrophenol	<0.03
2,4-Dinitrotoluene	<0.01
2-Chloronaphthalene	<0.01
2-Methylnaphthalene	<0.01
2-Methylphenol	<0.01
2-Nitrophenol	<0.01
3,3-Dichlorobenzidine	<0.01
3-Nitroaniline	<0.03
4,6-Dinitro-2-methylphenol	<0.03
4-Bromophenyl Phenyl Ether	<0.01
4-Chloro-3-methylphenol	<0.01
4-Chloroaniline	<0.01
4-Chlorophenyl Phenyl Ether	<0.01
4-Methylphenol	<0.01
4-Nitroaniline	<0.03
4-Nitrophenol	<0.01
Acenaphthene	<0.01
Acenaphthylene	<0.01
Benzo(a)anthracene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(g,h,i)perylene	<0.01
Benzo(k)fluoranthene	<0.01
bis(2-chloroethoxy)methane	<0.01
bis(2-chloroethyl) Ether	<0.01
bis(2-ethylhexyl)Phthalate	<0.01
Butyl Benzyl Phthalate	<0.01
Carbazole	<0.01
Dibenz(a,h)anthracene	<0.01
Dibenzofuran	<0.01
Dimethylphthalate	<0.01
Di-n-Butylphthalate	0.0004
Di-N-Octylphthalate	<0.01
Fluorene	<0.01
Hexachlorobenzene	<0.01
Hexachloroethane	<0.01
Indeno (1,2,3-cd) Pyrene	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DI BLANK	DI BLANK
Unknown	SAMPLE DATE	5/7/1997	5/6/1998
	SAMPLE TIME	19:15	10:20
	LAB	ATI	TSC-SLC
	LAB NUMBER	705025-1	261-3776
	SAMPLE NUMBER	EHC-9705-153	EHC-9805-149
	TYPE	QC	QC
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS	Blank	Blank

**Semi-VOA's (mg/L): ppm unless noted**

Isophorone	<0.01
Nitrobenzene	<0.01
N-Nitroso-Di-N-Propylamine	<0.01
Phenanthrene	<0.01
Pyrene	<0.01
1,2,4-Trichlorobenzene	<0.01
2,6-Dinitrotoluene	<0.01
2-Chlorophenol	<0.01
2-Nitroaniline	<0.03
Anthracene	<0.01
Chrysene	<0.01
Diethylphthalate	0.001
Fluoranthene	<0.01
Hexachlorocyclopentadiene	<0.01
N-Nitrosodiphenylamine	<0.01
Naphthalene	<0.01
Pentachlorophenol	<0.03
Phenol	<0.01

**VOA's: ppm unless noted**

1,2-Dichlorobenzene	<0.01
1,3-Dichlorobenzene	<0.01
1,4-Dichlorobenzene	<0.01
Hexachlorobutadiene	<0.01
1,1,1-Trichloroethane	<0.01
1,1,2,2-Tetrachloroethane	<0.01
1,1,2-Trichloroethane	<0.01
1,1-Dichloroethane	<0.01
1,1-Dichloroethene	<0.01
1,2-Dichloroethane	<0.01
1,2-Dichloropropane	<0.01
2-Butanone	<0.01
2-Hexanone	<0.01
4-Methyl-2-Pentanone	<0.01
Acetone	0.006
Benzene	<0.01
Bromodichloromethane	<0.01
Bromoform	<0.01
Carbon Disulfide	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DI BLANK	DI BLANK
Unknown	SAMPLE DATE	5/7/1997	5/6/1998
	SAMPLE TIME	19:15	10:20
	LAB	ATI	TSC-SLC
	LAB NUMBER	705025-1	261-3776
	SAMPLE NUMBER	EHC-9705-153	EHC-9805-149
	TYPE	QC	QC
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS	Blank	Blank

**VOA's: ppm unless noted**

Carbon Tetrachloride	<0.01
Chlorobenzene	<0.01
Chloroethane	<0.01
Chloroform	<0.01
Chloromethane	<0.01
cis-1,3-Dichloropropene	<0.01
Dibromochloromethane	<0.01
Ethylbenzene	<0.01
Methylene Chloride	<0.01
Styrene	<0.01
Tetrachloroethene	<0.01
Toluene	<0.01
Total Xylene	<0.01
Trans-1,3-dichloropropene	<0.01
Trichloroethene	<0.01
Vinyl Chloride	<0.01

**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene	<0.01
1,3-Dichlorobenzene	<0.01
1,4-Dichlorobenzene	<0.01
Hexachlorobutadiene	<0.01
1,1,1-Trichloroethane	<0.01
1,1,2,2-Tetrachloroethane	<0.01
1,1,2-Trichloroethane	<0.01
1,1-Dichloroethane	<0.01
1,1-Dichloroethene	<0.01
1,2-Dichloroethane	<0.01
1,2-Dichloropropane	<0.01
2-Butanone	0.004
2-Hexanone	<0.01
4-Methyl-2-Pentanone	<0.01
Acetone	0.006
Benzene	<0.01
Bromodichloromethane	<0.01
Bromoform	<0.01
Bromomethane	<0.01
Carbon Disulfide	<0.01
Carbon Tetrachloride	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>DI BLANK</b>
Unknown	SAMPLE DATE	5/6/1998
	SAMPLE TIME	10:20
	LAB	TSC-SLC
	LAB NUMBER	261-3776
	SAMPLE NUMBER	EHC-9805-149
	TYPE	QC
	GROUP	RI
	DESCRIPTION	
	REMARKS	Blank

**VOA's (mg/L): ppm unless noted**

---

Chlorobenzene	<0.01
Chloroethane	<0.01
Chloroform	<0.01
Chloromethane	<0.01
cis-1,3-Dichloropropene	<0.01
Dibromochloromethane	<0.01
Ethylbenzene	<0.01
Methylene Chloride	0.0006
Styrene	<0.01
Tetrachloroethene	<0.01
Toluene	<0.01
Total Xylene	<0.01
Trans-1,3-dichloropropene	<0.01
Trichloroethene	<0.01
Vinyl Chloride	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DI BLANK	DI BLANK	DI BLANK	DI BLANK	DI BLANK	DI BLANK
Unknown	SAMPLE DATE	5/12/1998	11/18/1998	11/19/1998	11/20/1998	5/8/1999	5/10/1999
	SAMPLE TIME	12:00	14:45	20:00	14:00	13:00	20:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	262-3799	311-4417	311-4435	311-4436	346-4884	347-4896
	SAMPLE NUMBER	EHC-9805-157	EHC-9811-149	EHC-9811-152	EHC-9811-154	EHC-9905-147	EHC-9905-149
	TYPE	QC	QC	QC	QC	QC	QC
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Blank	Blank	Blank	Blank	Blank	Blank

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics							<1
Gasoline Range Organics							<1
Total Petroleum Hydrocarbons	<1	<1 UJ	<1 UJ	<1 UJ	<1.1		<1.2

**Semi-VOA's (mg/L): ppm unless noted**

1,2-Dichloroethene							<0.01
2,2'-Oxybis(1-Chloropropane)							<0.01
2,4,5-Trichlorophenol							<0.03
2,4,6-Trichlorophenol							<0.01
2,4-Dichlorophenol							<0.01
2,4-Dimethylphenol							<0.01
2,4-Dinitrophenol							<0.03
2,4-Dinitrotoluene							<0.01
2-Chloronaphthalene							<0.01
2-Methylnaphthalene							<0.01
2-Methylphenol							<0.01
2-Nitrophenol							<0.01
3,3-Dichlorobenzidine							<0.01
3-Nitroaniline							<0.03
4,6-Dinitro-2-methylphenol							<0.03
4-Bromophenyl Phenyl Ether							<0.01
4-Chloro-3-methylphenol							<0.01
4-Chloroaniline							<0.01
4-Chlorophenyl Phenyl Ether							<0.01
4-Methylphenol							<0.01
4-Nitroaniline							<0.03
4-Nitrophenol							<0.03
Acenaphthene							<0.01
Acenaphthylene							<0.01
Benzo(a)anthracene							<0.01
Benzo(a)pyrene							<0.01
Benzo(b)fluoranthene							<0.01
Benzo(g,h,i)perylene							<0.01
Benzo(k)fluoranthene							<0.01
bis(2-chloroethoxy)methane							<0.01
bis(2-chloroethyl) Ether							<0.01
bis(2-ethylhexyl)Phthalate							0.02
Butyl Benzyl Phthalate							<0.01
Carbazole							<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>DI BLANK</b>
Unknown	SAMPLE DATE	5/10/1999
	SAMPLE TIME	20:00
	LAB	TSC-SLC
	LAB NUMBER	347-4896
	SAMPLE NUMBER	EHC-9905-149
	TYPE	QC
	GROUP	RI
	DESCRIPTION	
	REMARKS	Blank

**Semi-VOA's (mg/L): ppm unless noted**

Dibenz(a,h)anthracene	<0.01
Dibenzofuran	<0.01
Dimethylphthalate	<0.01
Di-n-Butylphthalate	<0.01
Di-N-Octylphthalate	<0.01
Fluorene	<0.01
Hexachlorobenzene	<0.01
Hexachloroethane	<0.01
Indeno (1,2,3-cd) Pyrene	<0.01
Isophorone	<0.01
Nitrobenzene	<0.01
N-Nitroso-Di-N-Propylamine	<0.01
Phenanthrene	<0.01
Pyrene	<0.01
1,2,4-Trichlorobenzene	<0.01
2,6-Dinitrotoluene	<0.01
2-Chlorophenol	<0.01
2-Nitroaniline	<0.03
Anthracene	<0.01
Chrysene	<0.01
Diethylphthalate	<0.01
Fluoranthene	<0.01
Hexachlorocyclopentadiene	<0.01
N-Nitrosodiphenylamine	<0.01
Naphthalene	<0.01
Pentachlorophenol	<0.03
Phenol	<0.01

**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene	<0.01
1,3-Dichlorobenzene	<0.01
1,4-Dichlorobenzene	<0.01
Hexachlorobutadiene	<0.01
1,1,1-Trichloroethane	<0.01
1,1,2,2-Tetrachloroethane	<0.01
1,1,2-Trichloroethane	<0.01
1,1-Dichloroethane	<0.01
1,1-Dichloroethene	<0.01
1,2-Dichloroethane	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>DI BLANK</b>
Unknown	SAMPLE DATE	5/10/1999
	SAMPLE TIME	20:00
	LAB	TSC-SLC
	LAB NUMBER	347-4896
	SAMPLE NUMBER	EHC-9905-149
	TYPE	QC
	GROUP	RI
	DESCRIPTION	
	REMARKS	Blank

**VOA's (mg/L): ppm unless noted**

---

1,2-Dichloropropane	<0.01
2-Butanone	<0.01
2-Hexanone	<0.01
4-Methyl-2-Pentanone	<0.01
Acetone	<0.01
Benzene	<0.01
Bromodichloromethane	<0.01
Bromoform	<0.01
Bromomethane	<0.01
Carbon Disulfide	<0.01
Carbon Tetrachloride	<0.01
Chlorobenzene	<0.01
Chloroethane	<0.01
Chloroform	<0.01
Chloromethane	<0.01
cis-1,3-Dichloropropene	<0.01
Dibromochloromethane	<0.01
Ethylbenzene	<0.01
Methylene Chloride	<0.01
Styrene	<0.01
Tetrachloroethene	<0.01
Toluene	<0.01
Total Xylene	<0.01
Trans-1,3-dichloropropene	<0.01
Trichloroethene	<0.01
Vinyl Chloride	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DI BLANK	DI BLANK	DI BLANK	DI BLANK	DI BLANK	DI BLANK
Unknown	SAMPLE DATE	5/11/1999	11/10/1999	11/11/1999	11/12/1999	5/1/2000	5/2/2000
	SAMPLE TIME	18:30	16:20	16:15	16:00	12:00	17:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	348-4907	L992009009	L992009011	L992009013	L000704006	L000704008
	SAMPLE NUMBER	EHC-9905-151	EHC-9911-173	EHC-9911-175	EHC-9911-177	EHC-0005-163	EHC-0005-165
	TYPE	QC	QC	QC	QC	QC	QC
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Blank	Blank	Blank	Blank	Blank	Blank

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics	<1			<4	<0.5 UJ	
Diesel Range Organics as Diesel					<0.5 UJ	
Gasoline Range Organics	<1			<1	<0.02	
Gasoline Range Organics as Gas					<0.02	
Total Extractable Hydrocarbons					<0.5 UJ	
Total Petroleum Hydrocarbons	<1.1	<1 UJ	<1 UJ	<1.1	<0.1	<0.1
Total Purgeable Hydrocarbons					<0.02	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DI BLANK	DI BLANK	DI BLANK	DI BLANK	RINSATE
Unknown	SAMPLE DATE	5/1/2001	5/2/2001	5/9/2001	11/9/2001	5/2/2001
	SAMPLE TIME	18:00	16:30	16:00	15:00	15:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010608023	L010608035	L010691001	L011565006	L010608036
	SAMPLE NUMBER	EHC-0105-205	EHC-0105-208	EHC-0105-224	EHC-0111-203	EHC-0105-207
	TYPE	QC	QC	QC	QC	QC
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Blank	Blank	Blank	Blank	Blank

#### Hydrocarbon: ppm unless noted

Diesel Range Organics	<0.5	<0.5	<0.5	<0.5
Diesel Range Organics as Diesel	<0.5	<0.5	<0.5	<0.5
Gasoline Range Organics	<0.02	<0.02	<0.02	<0.02
Gasoline Range Organics as Gas	<0.02	<0.02	<0.02	<0.02
Total Extractable Hydrocarbons	<0.5	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	0.8	<0.1		0.4
Total Purgeable Hydrocarbons	<0.02	<0.02	<0.02	<0.02

#### Hydrocarbon (mg/L): ppm unless noted

Diesel Range Organics	<0.5
Diesel Range Organics as Diesel	<0.5
Gasoline Range Organics	<0.02
Gasoline Range Organics as Gas	<0.02
Total Extractable Hydrocarbons	<0.5
Total Petroleum Hydrocarbons	<0.1
Total Purgeable Hydrocarbons	<0.02

#### Semi-VOA's: ppm unless noted

1,2-Dibromoethane	<0.01	<0.01	<0.001
1,4 - Dioxane	<2.5	<2.5	<0.3
1-Methylnaphthalene	<0.01	<0.01	<0.01
2,4-Dimethylphenol	<0.01	<0.01	<0.01
2,4-Dinitrophenol	<0.06	<0.06	<0.06
2-Methylnaphthalene	<0.01	<0.01	<0.01
2-Methylphenol	<0.01	<0.01	<0.01
4-Methylphenol/3-Methylphenol	<0.01	<0.01	<0.01
4-Nitrophenol	<0.06	<0.06	<0.06
6-Methylchrysene	<0.01	<0.01	<0.01
7,12-Dimethylbenz(a)anthracene	<0.01	<0.01	<0.01
Benzo(a)anthracene	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01
Benzo(j)Fluoranthene	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01
bis(2-ethylhexyl)Phthalate	0.006	0.004	0.005
Butyl Benzyl Phthalate	<0.01	<0.01	<0.01
Dibenz(a,h)acridine	<0.01	<0.01	<0.01
Dibenz(a,h)anthracene	<0.01	<0.01	<0.01
Dimethylphthalate	<0.01	<0.01	<0.01
Di-n-Butylphthalate	<0.01	<0.01	<0.01
Di-N-Octylphthalate	<0.01	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DI BLANK	DI BLANK	RINSATE
Unknown	SAMPLE DATE	5/1/2001	5/2/2001	5/2/2001
	SAMPLE TIME	18:00	16:30	15:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010608023	L010608035	L010608036
	SAMPLE NUMBER	EHC-0105-205	EHC-0105-208	EHC-0105-207
	TYPE	QC	QC	QC
	GROUP	RI	RI	RI
	DESCRIPTION			
	REMARKS	Blank	Blank	Blank

**Semi-VOA's: ppm unless noted**

Indene	<0.01	<0.01	<0.01
Phenanthrene	<0.01	<0.01	<0.01
Pyrene	<0.01	<0.01	<0.01
Pyridine	<0.02	<0.02	<0.02
Quinoline	<0.01	<0.01	<0.01
Thiophenol	<0.02	<0.02	<0.02
Anthracene	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01
Diethylphthalate	<0.01	<0.01	<0.01
Fluoranthene	<0.01	<0.01	<0.01
Naphthalene	<0.01	<0.01	<0.01
Phenol	<0.01	0.002	<0.01

**VOA's: ppm unless noted**

1,2-Dichlorobenzene	<0.01	<0.01	<0.01
1,3-Dichlorobenzene	<0.01	<0.01	<0.01
1,4-Dichlorobenzene	<0.01	<0.01	<0.01
1,2-Dichloroethane	<0.01	<0.01	<0.001
2-Butanone	<0.1	<0.1	<0.01
Benzene	<0.01	<0.01	<0.001
Carbon Disulfide	<0.01	<0.01	<0.001
Chlorobenzene	<0.01	<0.01	<0.001
Chloroform	<0.01	<0.01	<0.001
Ethylbenzene	<0.01	<0.01	<0.001
m,p - Xylene	<0.01	<0.01	<0.001
o-Xylene	<0.01	<0.01	<0.001
Styrene	<0.01	<0.01	<0.001
Toluene	<0.01	<0.01	<0.001
Total Xylene	<0.01	<0.01	<0.001

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	RINSATE	RINSATE
Unknown	SAMPLE DATE	5/9/2001	11/9/2001
	SAMPLE TIME	15:15	12:30
	LAB	TSC-SLC	TSC-SLC
	LAB NUMBER	L010691014	L011565005
	SAMPLE NUMBER	EHC-0105-223	EHC-0111-202
	TYPE	QC	QC
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS	Blank	Blank

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**Hydrocarbon: ppm unless noted**

Diesel Range Organics	<0.5
Diesel Range Organics as Diesel	<0.5
Gasoline Range Organics	<0.02
Gasoline Range Organics as Gas	<0.02
Total Extractable Hydrocarbons	<0.5
Total Purgeable Hydrocarbons	<0.02

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**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics	<0.5
Diesel Range Organics as Diesel	<0.5
Gasoline Range Organics	<0.02
Gasoline Range Organics as Gas	<0.02
Total Extractable Hydrocarbons	<0.5
Total Petroleum Hydrocarbons	<0.1
Total Purgeable Hydrocarbons	<0.02

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-16	DH-16	DH-16	DH-16	DH-16
Water	SAMPLE DATE	5/14/1996	11/10/1997	5/10/2001	11/9/2001	11/9/2001
	SAMPLE TIME	15:50	12:30	14:30	11:50	12:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-6774	192-2743	L010691018	L011563016	L011565007
	SAMPLE NUMBER	EHC-9605-107	EHC-9711-107	EHC-0105-118	EHC-0111-118	EHC-0111-204
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					Field Duplicate

### Hydrocarbon (mg/L): ppm unless noted

Diesel Range Organics			<0.5	1.2	1.2
Diesel Range Organics as Diesel			<0.5	1.2	1.2
Gasoline Range Organics			<0.02	<0.02	<0.02
Gasoline Range Organics as Gas			<0.02	<0.02	<0.02
Total Extractable Hydrocarbons			0.6	1.2	1.2
Total Petroleum Hydrocarbons	<1	<1	<0.1		
Total Purgeable Hydrocarbons			0.3	0.1 J	0.2 J

### Semi-VOA's (mg/L): ppm unless noted

1,2-Dibromoethane	<0.001
1,4 - Dioxane	<0.3
1-Methylnaphthalene	<0.01
2,4-Dimethylphenol	<0.01
2,4-Dinitrophenol	<0.05
2-Methylnaphthalene	<0.01
2-Methylphenol	<0.01
4-Methylphenol/3-Methylphenol	<0.01
4-Nitrophenol	<0.05
6-Methylchrysene	<0.01
7,12-Dimethylbenz(a)anthracene	<0.01
Benzo(a)anthracene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(j)Fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
bis(2-ethylhexyl)Phthalate	<0.01
Butyl Benzyl Phthalate	<0.01
Dibenz(a,h)acridine	<0.01
Dibenz(a,h)anthracene	<0.01
Dimethylphthalate	<0.01
Di-n-Butylphthalate	<0.01
Di-N-Octylphthalate	<0.01
Indene	<0.01
Phenanthrene	<0.01
Pyrene	<0.01
Pyridine	<0.02
Quinoline	<0.01
Thiophenol	<0.02
Anthracene	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-16
Water	SAMPLE DATE	5/10/2001
	SAMPLE TIME	14:30
	LAB	TSC-SLC
	LAB NUMBER	L010691018
	SAMPLE NUMBER	EHC-0105-118
	TYPE	Groundwater
	GROUP	RI
	DESCRIPTION	
	REMARKS	

**Semi-VOA's (mg/L): ppm unless noted**

Chrysene	<0.01
Diethylphthalate	<0.01
Fluoranthene	<0.01
Naphthalene	<0.01
Phenol	<0.01

**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene	<0.01
1,3-Dichlorobenzene	<0.01
1,4-Dichlorobenzene	<0.01
1,2-Dichloroethane	<0.001
2-Butanone	<0.02
Benzene	<0.001
Carbon Disulfide	<0.001
Chlorobenzene	<0.001
Chloroform	<0.001
Ethylbenzene	<0.001
m,p - Xylene	<0.001
o-Xylene	<0.001
Styrene	<0.001
Toluene	<0.001
Total Xylene	<0.001

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-17	DH-17	DH-17	DH-17	DH-17	DH-17
Water	SAMPLE DATE	8/17/1987	4/19/1988	12/21/1988	10/19/1989	5/1/1990	12/4/1990
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-6875	88-2775	89-52	89-820	90-1062	90-2244
	SAMPLE NUMBER	AEH-8708-05	AEH-8804-316	AEH-8812-135	AEH-8910-414	AEH-9005-414	AEH-9011-719
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION REMARKS						

**Hydrocarbon (mg/L): ppm unless noted**

C10-C32 Fuel Hydrocarbons	<1				
Total Petroleum Hydrocarbons		4.7	0.3	<1	<1

**Other: ppm unless noted**

GC/FID CALC AS DIESEL	0.005
Oil & Grease	32
	0.1

**PCB's (mg/L): ppm unless noted**

LY CHLORINATED BIPHENYLS (PCBS)	0.005
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**Semi-VOA's (mg/L): ppm unless noted**

2,4,5-Trichlorophenol	<0.05
2,4,6-Trichlorophenol	<0.01
2,4-Dichlorophenol	<0.01
2,4-Dimethylphenol	<0.01
2,4-Dinitrophenol	<0.05
2,4-Dinitrotoluene	<0.01
2-Chloronaphthalene	<0.01
2-Methylnaphthalene	<0.01
2-Methylphenol	<0.01
2-Nitrophenol	<0.01
3,3-Dichlorobenzidine	<0.02
3-Nitroaniline	<0.05
4,6-Dinitro-2-methylphenol	<0.05
4-Bromophenyl Phenyl Ether	<0.01
4-Chloro-3-methylphenol	<0.01
4-Chloroaniline	<0.01
4-Chlorophenyl Phenyl Ether	<0.01
4-Methylphenol	<0.01
4-Nitroaniline	<0.05
4-Nitrophenol	<0.05
Acenaphthene	<0.01
Acenaphthylene	<0.01
Benzidine	<0.1
Benzo(a)anthracene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	0.01
Benzo(b)thiophene	0.03
Benzo(g,h,i)perylene	<0.01
Benzo(k)fluoranthene	<0.01
Benzoic Acid	<0.05
Benzyl Alcohol	<0.01
bis(2-chloroethoxy)methane	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>DH-17</b>
<b>Water</b>	SAMPLE DATE	4/19/1988
	SAMPLE TIME	00:00
	LAB	TSC-SLC
	LAB NUMBER	88-2775
	SAMPLE NUMBER	AEH-8804-316
	TYPE	Groundwater
	GROUP	RI
	DESCRIPTION	
	REMARKS	

**Semi-VOA's (mg/L): ppm unless noted**

bis(2-chloroethyl) Ether	<0.01
bis(2-chloroisopropyl) Ether	<0.01
bis(2-ethylhexyl)Phthalate	<0.01
Branched Naphthalene	0.004
Butyl Benzyl Phthalate	<0.01
Dibenz(a,h)anthracene	<0.01
Dibenzofuran	<0.01
Dihydro Dimethyl Indene	0.01
Dihydrobenzo(b)thiophene	0.009
Di-n-Butylphthalate	<0.01
Di-N-Octylphthalate	<0.01
Fluorene	<0.01
Hexachlorobenzene	<0.01
Hexachloroethane	<0.01
Indeno (1,2,3-cd) Pyrene	<0.01
Isophorone	<0.01
Nitrobenzene	<0.01
N-Nitroso-Di-N-Propylamine	<0.01
Phenanthrene	<0.01
Pyrene	<0.01
1,2,4-Trichlorobenzene	<0.01
2,6-Dinitrotoluene	<0.01
2-Chlorophenol	<0.01
2-Nitroaniline	<0.05
Aniline	<0.01
Anthracene	<0.01
Chrysene	<0.01
Diethylphthalate	<0.01
Fluoranthene	<0.01
Hexachlorocyclopentadiene	<0.01
N-Nitrosodimethylamine	<0.01
N-Nitrosodiphenylamine	<0.01
Naphthalene	<0.01
Pentachlorophenol	<0.05
Phenol	0.03

**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene	<0.01
1,3-Dichlorobenzene	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>DH-17</b>
<b>Water</b>	SAMPLE DATE	4/19/1988
	SAMPLE TIME	00:00
	LAB	TSC-SLC
	LAB NUMBER	88-2775
	SAMPLE NUMBER	AEH-8804-316
	TYPE	Groundwater
	GROUP	RI
	DESCRIPTION	
	REMARKS	

**VOA's (mg/L): ppm unless noted**

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1,4-Dichlorobenzene	<0.01
GC/FID CALC AS BUNKER C	0.004
Hexachlorobutadiene	<0.01
Ethylmethyl Benzo(b)thiophene	0.005

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-17	DH-17	DH-17	DH-17	DH-17	DH-17
Water	SAMPLE DATE	5/8/1991	11/20/1991	4/29/1992	11/20/1992	11/20/1992	5/5/1993
	SAMPLE TIME	00:00	14:00	08:30	12:00	13:15	11:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	91-2679	91-3879	92-4348	92-6803	92-6801	93-7827
	SAMPLE NUMBER	AEH-9105-150	AEH-9111-305	AEH-9204-148	EHC-9211-147	EHC-9211-128	EHC-9305-152
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		
<b>Hydrocarbon (mg/L): ppm unless noted</b>							
	Total Petroleum Hydrocarbons	<1	<1	<1	<1	<1	<1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-17	DH-17	DH-17	DH-17	DH-17	DH-17
Water	SAMPLE DATE	5/5/1993	11/11/1993	5/12/1994	11/18/1994	11/18/1994	5/16/1995
	SAMPLE TIME	12:50	15:20	10:15	14:00	15:00	10:40
	LAB	ATI	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	9305-064-9	93-9272	94-1384	94-3398	94-3387	95-4512
	SAMPLE NUMBER	EHC-9305-153	EHC-9311-112	EHC-9405-118	EHC-9411-182	EHC-9411-118	EHC-9505-118
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate		

**Hydrocarbon (mg/L): ppm unless noted**

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Total Petroleum Hydrocarbons	<1	<1	<1	<1	<1	<1
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-17	DH-17	DH-17	DH-17	DH-17	DH-17
Water	SAMPLE DATE	11/13/1995	11/12/1996	5/7/1997	11/7/1997	5/11/1998	5/11/1998
	SAMPLE TIME	17:15	10:30	18:00	12:10	11:00	11:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-6143	96-7786	97-972	192-2742	262-3784	262-3796
	SAMPLE NUMBER	EHC-9511-119	EHC-9611-106	EHC-9705-138	EHC-9711-106	EHC-9805-107	EHC-9805-154
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
<b>Hydrocarbon (mg/L): ppm unless noted</b>							
	Total Petroleum Hydrocarbons	<1	<1	<1	<1	<1	1.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-17	DH-17	DH-17	DH-17	DH-17
Water	SAMPLE DATE	11/20/1998	5/11/1999	11/12/1999	5/3/2000	11/7/2000
	SAMPLE TIME	09:45	14:40	11:20	10:05	16:35
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	312-4439	347-4899	L992007006	L000703002	L001873018
	SAMPLE NUMBER	EHC-9811-106	EHC-9905-106	EHC-9911-118	EHC-0005-117	EHC-0011-118
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics			<4	<0.5	<0.5
Diesel Range Organics as Diesel				0.7	<0.5
Gasoline Range Organics			<1	<0.02	<0.02 J
Gasoline Range Organics as Gas				<0.02	<0.02 J
Total Extractable Hydrocarbons				0.7	<0.5
Total Petroleum Hydrocarbons	<1 UJ	<1.1	<1	0.3	<0.1
Total Purgeable Hydrocarbons				0.1	0.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-2	DH-20	DH-24	DH-24
Water	SAMPLE DATE	11/24/1987	12/7/1987	11/24/1987	4/19/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	LKS	TSC-SLC	TSC-SLC
	LAB NUMBER	87-10788	7336	87-10789	88-2774
	SAMPLE NUMBER	AEH-8711-217	AEH-8711-235	AEH-8711-239	AEH-8804-323
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS				

Other: ppm unless noted

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Oil & Grease	0.1	1.3	0.7	0.1
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-24	DH-24	DH-24
Water	SAMPLE DATE	12/21/1988	4/19/1989	10/18/1989	5/1/1990	12/5/1990	12/5/1990
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-44	89-506	89-823	90-1066	90-2261	90-2265
	SAMPLE NUMBER	AEH-8812-142	AEH-8904-221	AEH-8910-421	AEH-9005-421	AEH-9011-726	AEH-9011-735
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
<b>Hydrocarbon (mg/L): ppm unless noted</b>							
	C10-C32 Fuel Hydrocabons			<0.5 J			
	Diesel Range Organics	<1	5.3		<1	<1	<1
	Gasoline Range Organics	<1	<1		<1	<1	<1
	Total Petroleum Hydrocarbons	0.05		0.07	<1	<1	<1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-24	DH-24	DH-24
Water	SAMPLE DATE	5/8/1991	11/20/1991	4/29/1992	11/20/1992	5/5/1993	11/11/1993
	SAMPLE TIME	00:00	16:00	10:30	15:00	20:00	17:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	91-3053	91-3881	92-4361	92-6804	93-7832	93-9274
	SAMPLE NUMBER	AEH-9105-162	AEH-9111-310	AEH-9204-153	EHC-9211-137	EHC-9305-158	EHC-9311-120
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	REMARKS						

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics	<1	<1	<1	<1	<1	<1
Gasoline Range Organics	<1	<1	<1	<1	<1	<1
Total Petroleum Hydrocarbons	<1	<1	1.2	<1	<1	<1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-24	DH-24	DH-24
Water	SAMPLE DATE	5/12/1994	11/17/1994	5/16/1995	11/13/1995	11/13/1995	5/14/1996
	SAMPLE TIME	08:40	16:40	09:20	16:00	16:15	16:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1385	94-3389	95-4516	95-6147	95-6151	96-6779
	SAMPLE NUMBER	EHC-9405-125	EHC-9411-125	EHC-9505-125	EHC-9511-127	EHC-9511-175	EHC-9605-114
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
	<b>Hydrocarbon (mg/L): ppm unless noted</b>						
	Diesel Range Organics	<1	<1	1	<1		<1
	Gasoline Range Organics	<1	<1	<1	<1.5		<1
	Total Petroleum Hydrocarbons	<1	<1	<1	<1	<1	<1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-24	DH-24	DH-24
Water	SAMPLE DATE	11/12/1996	11/12/1996	5/7/1997	11/7/1997	11/7/1997	5/11/1998
	SAMPLE TIME	09:15	09:30	17:00	10:35	10:50	09:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-7788	96-7791	97-940	192-2748	193-2759	262-3788
	SAMPLE NUMBER	EHC-9611-114	EHC-9611-155	EHC-9705-113	EHC-9711-114	EHC-9711-154	EHC-9805-115
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	
<b>Hydrocarbon (mg/L): ppm unless noted</b>							
	Diesel Range Organics	<2	<2	<1	<1	<1	<5
	Gasoline Range Organics	<1	<1	<1	<1	<1	<5
	Total Petroleum Hydrocarbons	<1	<1	<1	<1	<1	<1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-24	DH-24	DH-24
Water	SAMPLE DATE	11/20/1998	11/20/1998	5/11/1999	5/11/1999	11/12/1999	11/12/1999
	SAMPLE TIME	08:45	09:00	13:50	14:10	13:30	13:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	312-4440	312-4445	347-4903	348-4906	L992007011	L992009012
	SAMPLE NUMBER	EHC-9811-114	EHC-9811-153	EHC-9905-114	EHC-9905-150	EHC-9911-127	EHC-9911-176
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		Field Duplicate
<b>Hydrocarbon (mg/L): ppm unless noted</b>							
	Diesel Range Organics			<1	<1	<4	<4
	Gasoline Range Organics			<1	<1	<1	<1
	Total Petroleum Hydrocarbons	<1 UJ	<1.1 UJ	<1.1	<1	<1	<1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-24	DH-24	DH-24	DH-24	DH-24
Water	SAMPLE DATE	5/1/2000	5/1/2000	11/8/2000	5/10/2001	11/9/2001
	SAMPLE TIME	10:30	10:45	12:05	15:20	11:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000703007	L000704005	L001873001	L010691022	L011563018
	SAMPLE NUMBER	EHC-0005-126	EHC-0005-162	EHC-0011-127	EHC-0105-127	EHC-0111-126
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Field Duplicate			

### Hydrocarbon (mg/L): ppm unless noted

Diesel Range Organics	<0.5 UJ	<0.5 UJ	<0.5	<0.5	<0.5
Diesel Range Organics as Diesel	<0.5 UJ	<0.5 UJ	<0.5	<0.5	<0.5
Gasoline Range Organics	<0.02	<0.02	<0.02 J	<0.02	<0.02
Gasoline Range Organics as Gas	<0.02	<0.02	<0.02 J	<0.02	<0.02
Total Extractable Hydrocarbons	<0.5 UJ	0.5 J	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	0.6	<0.1	<0.1	<0.1	<0.1
Total Purgeable Hydrocarbons	0.1	0.09	<0.02	0.05	<0.02 J

### Semi-VOA's (mg/L): ppm unless noted

1,2-Dibromoethane	<0.001
1,4 - Dioxane	<0.3
1-Methylnaphthalene	<0.01
2,4-Dimethylphenol	<0.01
2,4-Dinitrophenol	<0.05
2-Methylnaphthalene	<0.01
2-Methylphenol	<0.01
4-Methylphenol/3-Methylphenol	<0.01
4-Nitrophenol	<0.05
6-Methylchrysene	<0.01
7,12-Dimethylbenz(a)anthracene	<0.01
Benzo(a)anthracene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(j)Fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
bis(2-ethylhexyl)Phthalate	0.009
Butyl Benzyl Phthalate	<0.01
Dibenz(a,h)acridine	<0.01
Dibenz(a,h)anthracene	<0.01
Dimethylphthalate	<0.01
Di-n-Butylphthalate	<0.01
Di-N-Octylphthalate	<0.01
Indene	<0.01
Phenanthrene	<0.01
Pyrene	<0.01
Pyridine	<0.02
Quinoline	<0.01
Thiophenol	<0.02
Anthracene	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>DH-24</b>
<b>Water</b>	SAMPLE DATE	5/10/2001
	SAMPLE TIME	15:20
	LAB	TSC-SLC
	LAB NUMBER	L010691022
	SAMPLE NUMBER	EHC-0105-127
	TYPE	Groundwater
	GROUP	RI
	DESCRIPTION	
	REMARKS	

**Semi-VOA's (mg/L): ppm unless noted**

Chrysene	<0.01
Diethylphthalate	<0.01
Fluoranthene	<0.01
Naphthalene	<0.01
Phenol	<0.01

**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene	<0.01
1,3-Dichlorobenzene	<0.01
1,4-Dichlorobenzene	<0.01
1,2-Dichloroethane	<0.001
2-Butanone	<0.02
Benzene	<0.001
Carbon Disulfide	<0.001
Chlorobenzene	<0.001
Chloroform	<0.001
Ethylbenzene	<0.001
m,p - Xylene	<0.001
o-Xylene	<0.001
Styrene	<0.001
Toluene	<0.001
Total Xylene	<0.001

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-26	DH-26	DH-26	DH-28	DH-28
Water	SAMPLE DATE	6/9/1987	8/17/1987	8/17/1987	12/10/1996	5/8/1997
	SAMPLE TIME	00:00	00:00	00:00	10:00	11:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	EL	EL
	LAB NUMBER	87-4198	87-6873	87-6878	96-69420	97-030470
	SAMPLE NUMBER	AEH-8706-100	AEH-8708-13	AEH-8708-49	EHC-9612-101CS	EHC-9705-115CS
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Field Duplicate		

**Hydrocarbon (%): ppm unless noted**

Carbon 1 - Carbon 5	0.0	0.0
Carbon 10 - Carbon 11	2	3
Carbon 11 - Carbon 12	5.7	7.2
Carbon 12 - Carbon 13	11.2	12.2
Carbon 13 - Carbon 14	7.1	7.4
Carbon 14 - Carbon 15	8.4	9.3
Carbon 15 - Carbon 16	8.5	8.1
Carbon 16 - Carbon 17	6.8	6.4
Carbon 17 - Carbon 18	5.5	5
Carbon 18 - Carbon 19	5.2	5.3
Carbon 19 - Carbon 20	4.8	3.8
Carbon 20 - Carbon 21	3.8	3.6
Carbon 21 - Carbon 22	3.8	4.1
Carbon 22 - Carbon 23	2.6	2.6
Carbon 23 - Carbon 24	2.4	1.8
Carbon 24 - Carbon 25	2.1	2.4
Carbon 25 - Carbon 26	1.9	2.1
Carbon 26 - Carbon 27	1.5	2
Carbon 27 - Carbon 28	1.6	1.3
Carbon 28 - Carbon 29	1.4	2.1
Carbon 29 - Carbon 30	1.4	0.7
Carbon 30+	11.1	8.5
Carbon 5 - Carbon 6	0.0	0.0
Carbon 6 - Carbon 7	0.0	0.0
Carbon 7 - Carbon 8	0.1	0.0
Carbon 8 - Carbon 9	0.7	0.0
Carbon 9 - Carbon 10	0.4	1.1

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics as Diesel	1.1	<0.5
Gasoline Range Organics	<0.02	<20

**Other: ppm unless noted**

Oil & Grease	22	13	15
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**VOA's (mg/L): ppm unless noted**

Benzene	<0.001
Toluene	<0.001
Total Xylene	<0.001

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-28	DH-28	DH-28	DH-28	DH-28
Water	SAMPLE DATE	11/12/1997	5/11/1998	11/20/1998	5/11/1999	5/11/2001
	SAMPLE TIME	00:00	14:00	11:45	17:30	11:20
	LAB	EL	EL	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	97-70127	98-31302	311-4432	347-4905	L010691024
	SAMPLE NUMBER	EHC-9711-160CS	EHC-9805-117CS	EHC-9811-116	EHC-9905-116	EHC-0105-130
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

### Hydrocarbon (%): ppm unless noted

Carbon 1 - Carbon 5	0.0
Carbon 10 - Carbon 11	3.9
Carbon 11 - Carbon 12	9.7
Carbon 12 - Carbon 13	15.4
Carbon 13 - Carbon 14	10.7
Carbon 14 - Carbon 15	12.7
Carbon 15 - Carbon 16	11.4
Carbon 16 - Carbon 17	7.9
Carbon 17 - Carbon 18	5.1
Carbon 18 - Carbon 19	5.2
Carbon 19 - Carbon 20	5.3
Carbon 20 - Carbon 21	3
Carbon 21 - Carbon 22	2.6
Carbon 22 - Carbon 23	2.2
Carbon 23 - Carbon 24	1.9
Carbon 24 - Carbon 25	0.5
Carbon 25 - Carbon 26	0.8
Carbon 26 - Carbon 27	0.3
Carbon 27 - Carbon 28	0.1
Carbon 28 - Carbon 29	0.0
Carbon 29 - Carbon 30	0.0
Carbon 30+	0.0
Carbon 5 - Carbon 6	0.0
Carbon 6 - Carbon 7	0.0
Carbon 7 - Carbon 8	0.1
Carbon 8 - Carbon 9	0.7
Carbon 9 - Carbon 10	0.5

### Hydrocarbon (mg/L): ppm unless noted

Diesel Range Organics as Diesel	0.6	1.1		
Gasoline Range Organics	<20	<0.02		
Total Petroleum Hydrocarbons			<1 UJ	3.9

### Semi-VOA's (mg/L): ppm unless noted

1,2-Dibromoethane	<0.001
1,4 - Dioxane	<0.3
1-Methylnaphthalene	0.001
2,4-Dimethylphenol	<0.01
2,4-Dinitrophenol	<0.05
2-Methylnaphthalene	<0.01
2-Methylphenol	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>DH-28</b>
Water	SAMPLE DATE	5/11/2001
	SAMPLE TIME	11:20
	LAB	TSC-SLC
	LAB NUMBER	L010691024
	SAMPLE NUMBER	EHC-0105-130
	TYPE	Groundwater
	GROUP	RI
	DESCRIPTION	
	REMARKS	

**Semi-VOA's (mg/L): ppm unless noted**

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4-Methylphenol/3-Methylphenol	<0.01
4-Nitrophenol	<0.05
6-Methylchrysene	<0.01
7,12-Dimethylbenz(a)anthracene	<0.01
Benzo(a)anthracene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(j)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
bis(2-ethylhexyl)Phthalate	0.006
Butyl Benzyl Phthalate	<0.01
Dibenz(a,h)acridine	<0.01
Dibenz(a,h)anthracene	<0.01
Dimethylphthalate	<0.01
Di-n-Butylphthalate	<0.01
Di-N-Octylphthalate	<0.01
Indene	<0.01
Phenanthrene	0.003
Pyrene	<0.01
Pyridine	<0.02
Quinoline	<0.01
Thiophenol	<0.02
Anthracene	<0.01
Chrysene	<0.01
Diethylphthalate	<0.01
Fluoranthene	<0.01
Naphthalene	<0.01
Phenol	<0.01

**VOA's (mg/L): ppm unless noted**

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1,2-Dichlorobenzene	<0.01
1,3-Dichlorobenzene	<0.01
1,4-Dichlorobenzene	<0.01
1,2-Dichloroethane	<0.001
2-Butanone	<0.02
Benzene	<0.001
Carbon Disulfide	<0.001
Chlorobenzene	<0.001
Chloroform	<0.001

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>DH-28</b>
<b>Water</b>	SAMPLE DATE	5/11/2001
	SAMPLE TIME	11:20
	LAB	TSC-SLC
	LAB NUMBER	L010691024
	SAMPLE NUMBER	EHC-0105-130
	TYPE	Groundwater
	GROUP	RI
	DESCRIPTION	
	REMARKS	

**VOA's (mg/L): ppm unless noted**

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Ethylbenzene	<0.001
m,p - Xylene	<0.001
o-Xylene	<0.001
Styrene	<0.001
Toluene	<0.001
Total Xylene	<0.001

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-3	DH-3	DH-3
Water	SAMPLE DATE	12/7/1987	12/8/1988	4/11/1989	10/11/1989	10/11/1989	4/27/1990
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-10571	89-19	89-476	89-792	89-806	90-1032
	SAMPLE NUMBER	AEH-8711-218	AEH-8812-123	AEH-8904-202	AEH-8910-402	AEH-8910-426	AEH-9005-402
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Hydrocarbon (mg/L): ppm unless noted</b>							
	Total Petroleum Hydrocarbons		0.1	<0.05	0.4	0.6	<1
<b>Other: ppm unless noted</b>							
	Oil & Grease	1.2					

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-3	DH-3	DH-3
Water	SAMPLE DATE	4/27/1990	11/27/1990	11/27/1990	5/3/1991	11/12/1991	4/20/1992
	SAMPLE TIME	00:00	00:00	00:00	00:00	10:00	16:00
	LAB	ATI	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ATI
	LAB NUMBER	9005-430	90-2221	90-2229	91-2666	91-3611	9204-227-2
	SAMPLE NUMBER	AEH-9005-430	AEH-9011-709	AEH-9011-730	AEH-9105-136	AEH-9111-309	AEH-9204-165
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate			

**Hydrocarbon (mg/L): ppm unless noted**

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Total Petroleum Hydrocarbons	1.1	<1	<1	<1 UJ	<1	<1
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-3	DH-3	DH-3
Water	SAMPLE DATE	11/12/1992	5/3/1993	11/8/1993	5/10/1994	11/10/1994	11/10/1994
	SAMPLE TIME	11:40	20:20	17:30	17:10	14:30	15:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ATI	TSC-SLC
	LAB NUMBER	92-6775	93-7770	93-9196	94-1336	411072-3	94-3270
	SAMPLE NUMBER	EHC-9211-167	EHC-9305-137	EHC-9311-125	EHC-9405-130	EHC-9411-169	EHC-9411-130
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	REMARKS					Field Duplicate	

**Hydrocarbon (mg/L): ppm unless noted**

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Total Petroleum Hydrocarbons	<1	<1	<1	<1	<1	<1
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-3	DH-3	DH-3
Water	SAMPLE DATE	5/9/1995	5/9/1995	11/8/1995	11/8/1995	5/8/1996	5/8/1996
	SAMPLE TIME	12:00	12:15	10:30	10:45	10:40	10:55
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ATI	TSC-SLC	TSC-SLC
	LAB NUMBER	95-4481	95-4493	95-6091	511023-3	96-6708	96-6720
	SAMPLE NUMBER	EHC-9505-130	EHC-9505-168	EHC-9511-132	EHC-9511-167	EHC-9605-118	EHC-9605-147
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		Field Duplicate
	<b>Hydrocarbon (mg/L): ppm unless noted</b>						
Total Petroleum Hydrocarbons	<1	<1	<1	<1	<1	<1	<1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-3	DH-3	DH-3
Water	SAMPLE DATE	11/7/1996	5/5/1997	11/5/1997	5/5/1998	11/18/1998	11/18/1998
	SAMPLE TIME	15:30	15:50	10:30	13:10	10:45	10:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-7754	97-904	188-2683	260-3756	310-4401	310-4416
	SAMPLE NUMBER	EHC-9611-118	EHC-9705-117	EHC-9711-118	EHC-9805-119	EHC-9811-118	EHC-9811-148
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
	<b>Hydrocarbon (mg/L): ppm unless noted</b>						
Total Petroleum Hydrocarbons	<1	<1	<1	<1	<1 UJ	<1 UJ	<1 UJ

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-3	DH-3	DH-3
Water	SAMPLE DATE	5/8/1999	5/8/1999	11/10/1999	5/2/2000	5/2/2000	11/7/2000
	SAMPLE TIME	11:50	12:10	09:30	14:20	14:35	14:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	346-4880	346-4883	L992007014	L000703010	L000704007	L001873003
	SAMPLE NUMBER	EHC-9905-118	EHC-9905-146	EHC-9911-132	EHC-0005-131	EHC-0005-164	EHC-0011-132
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics							<0.5
Diesel Range Organics as Diesel							<0.5
Gasoline Range Organics							<0.02 J
Gasoline Range Organics as Gas							<0.02 J
Total Extractable Hydrocarbons							<0.5
Total Petroleum Hydrocarbons	<1	<1	<1.1 UJ	<0.1	<0.1	<0.1	<0.1
Total Purgeable Hydrocarbons							<0.02

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-3	DH-3	DH-3	DH-36	DH-36
Water	SAMPLE DATE	11/7/2000	5/9/2001	5/9/2001	5/2/2001	5/2/2001
	SAMPLE TIME	14:15	13:40	13:50	16:00	16:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001873013	L010691026	L010691013	L010608025	L010608022
	SAMPLE NUMBER	EHC-0011-170	EHC-0105-143	EHC-0105-222	EHC-0105-139	EHC-0105-204
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Field Duplicate		Field Duplicate		Field Duplicate

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics	<0.5	<0.5	<0.5	1	<0.5
Diesel Range Organics as Diesel	<0.5	<0.5	<0.5	1	<0.5
Gasoline Range Organics	<0.02 J	<0.02	<0.02	<0.02	<0.02
Gasoline Range Organics as Gas	<0.02 J	<0.02	<0.02	<0.02	<0.02
Total Extractable Hydrocarbons	<0.5	<0.5	0.6	1.1 J	<0.5 J
Total Petroleum Hydrocarbons	<0.1	<0.1	<0.1	<0.1	<0.1
Total Purgeable Hydrocarbons	<0.02	<0.02	<0.02	0.04	0.04

**Semi-VOA's (mg/L): ppm unless noted**

1,2-Dibromoethane				<0.001	<0.001
1,4 - Dioxane				<0.3	<0.3
1-Methylnaphthalene				<0.01	<0.01
2,4-Dimethylphenol				<0.01	<0.01
2,4-Dinitrophenol				<0.06	<0.06
2-Methylnaphthalene				<0.01	<0.01
2-Methylphenol				<0.01	<0.01
4-Methylphenol/3-Methylphenol				<0.01	<0.01
4-Nitrophenol				<0.06	<0.06
6-Methylchrysene				<0.01	<0.01
7,12-Dimethylbenz(a)anthracene				<0.01	<0.01
Benzo(a)anthracene				<0.01	<0.01
Benzo(a)pyrene				<0.01	<0.01
Benzo(b)fluoranthene				<0.01	<0.01
Benzo(j)Fluoranthene				<0.01	<0.01
Benzo(k)fluoranthene				<0.01	<0.01
bis(2-ethylhexyl)Phthalate				0.002	0.003
Butyl Benzyl Phthalate				<0.01	<0.01
Dibenz(a,h)acridine				<0.01	<0.01
Dibenz(a,h)anthracene				<0.01	<0.01
Dimethylphthalate				<0.01	<0.01
Di-n-Butylphthalate				<0.01	<0.01
Di-N-Octylphthalate				<0.01	<0.01
Indene				<0.01	<0.01
Phenanthrene				<0.01	<0.01
Pyrene				<0.01	<0.01
Pyridine				<0.02	<0.02
Quinoline				<0.01	<0.01
Thiophenol				<0.02	<0.02
Anthracene				<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-36	DH-36
Water	SAMPLE DATE	5/2/2001	5/2/2001
	SAMPLE TIME	16:00	16:15
	LAB	TSC-SLC	TSC-SLC
	LAB NUMBER	L010608025	L010608022
	SAMPLE NUMBER	EHC-0105-139	EHC-0105-204
	TYPE	Groundwater	Groundwater
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS		Field Duplicate
<b>Semi-VOA's (mg/L): ppm unless noted</b>			
	Chrysene	<0.01	<0.01
	Diethylphthalate	<0.01	<0.01
	Fluoranthene	<0.01	<0.01
	Naphthalene	<0.01	<0.01
	Phenol	0.003	0.002
<b>VOA's (mg/L): ppm unless noted</b>			
	1,2-Dichlorobenzene	<0.01	<0.01
	1,3-Dichlorobenzene	<0.01	<0.01
	1,4-Dichlorobenzene	<0.01	<0.01
	1,2-Dichloroethane	<0.001	<0.001
	2-Butanone	<0.01	<0.01
	Benzene	<0.001	<0.001
	Carbon Disulfide	<0.001	<0.001
	Chlorobenzene	<0.001	<0.001
	Chloroform	<0.001	<0.001
	Ethylbenzene	<0.001	<0.001
	m,p - Xylene	<0.001	<0.001
	o-Xylene	<0.001	<0.001
	Styrene	<0.001	<0.001
	Toluene	<0.001	<0.001
	Total Xylene	<0.001	<0.001

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-36	DH-37	DH-37	DH-43
Water	SAMPLE DATE	11/9/2001	5/2/2001	5/2/2001	5/2/2001
	SAMPLE TIME	13:10	13:30	13:40	15:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011564007	L010608026	L010608024	L010608029
	SAMPLE NUMBER	EHC-0111-137	EHC-0105-140	EHC-0105-206	EHC-0105-147
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS			Field Duplicate	

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics	<0.5
Diesel Range Organics as Diesel	<0.5
Gasoline Range Organics	<0.02
Gasoline Range Organics as Gas	<0.02
Total Extractable Hydrocarbons	<0.5
Total Purgeable Hydrocarbons	0.05 J

**Semi-VOA's (mg/L): ppm unless noted**

1,2-Dibromoethane	<0.001	<0.001	<0.001
1,4 - Dioxane	<0.3	<0.3	<0.3
1-Methylnaphthalene	0.003	0.003	<0.01
2,4-Dimethylphenol	<0.01 J	<0.01	<0.01 J
2,4-Dinitrophenol	<0.06	<0.06	<0.06
2-Methylnaphthalene	0.002	0.003	<0.01
2-Methylphenol	<0.01 J	<0.01	<0.01 J
4-Methylphenol/3-Methylphenol	<0.01 J	<0.01	<0.01 J
4-Nitrophenol	<0.06	<0.06	<0.06
6-Methylchrysene	<0.01	<0.01	<0.01
7,12-Dimethylbenz(a)anthracene	<0.01	<0.01	<0.01
Benzo(a)anthracene	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01
Benzo(j)fluoranthene	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01
bis(2-ethylhexyl)Phthalate	0.003	0.003	<0.01
Butyl Benzyl Phthalate	<0.01	<0.01	<0.01
Dibenz(a,h)acridine	<0.01	<0.01	<0.01
Dibenz(a,h)anthracene	<0.01	<0.01	<0.01
Dimethylphthalate	<0.01	<0.01	<0.01
Di-n-Butylphthalate	<0.01	<0.01	<0.01
Di-N-Octylphthalate	<0.01	<0.01	<0.01
Indene	<0.01	<0.01	<0.01
Phenanthrene	0.006	0.008	<0.01
Pyrene	<0.01	<0.01	<0.01
Pyridine	<0.02	<0.02	<0.02
Quinoline	<0.01	<0.01	<0.01
Thiophenol	<0.02	<0.02	<0.02
Anthracene	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-37	DH-37	DH-43
Water	SAMPLE DATE	5/2/2001	5/2/2001	5/2/2001
	SAMPLE TIME	13:30	13:40	15:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010608026	L010608024	L010608029
	SAMPLE NUMBER	EHC-0105-140	EHC-0105-206	EHC-0105-147
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI
	DESCRIPTION			
	REMARKS		Field Duplicate	

  

Semi-VOA's (mg/L): ppm unless noted				
	Diethylphthalate	<0.01	<0.01	<0.01
	Fluoranthene	<0.01	<0.01	<0.01
	Naphthalene	0.002	0.002	<0.01
	Phenol	<0.01 J	0.001	0.002 J

  

VOA's (mg/L): ppm unless noted				
	1,2-Dichlorobenzene	<0.01	<0.01	<0.01
	1,3-Dichlorobenzene	<0.01	<0.01	<0.01
	1,4-Dichlorobenzene	<0.01	<0.01	<0.01
	1,2-Dichloroethane	<0.001	<0.001	<0.001
	2-Butanone	<0.01	<0.01	<0.01
	Benzene	<0.001	<0.001	<0.001
	Carbon Disulfide	<0.001	<0.001	<0.001
	Chlorobenzene	<0.001	<0.001	<0.001
	Chloroform	<0.001	<0.001	<0.001
	Ethylbenzene	<0.001	<0.001	<0.001
	m,p - Xylene	<0.001	<0.001	<0.001
	o-Xylene	<0.001	<0.001	<0.001
	Styrene	<0.001	<0.001	<0.001
	Toluene	<0.001	<0.001	<0.001
	Total Xylene	<0.001	<0.001	<0.001

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-49	DH-50	DH-54
Water	SAMPLE DATE	5/1/2001	5/1/2001	5/1/2001
	SAMPLE TIME	13:15	14:30	12:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010608033	L010608017	L010608021
	SAMPLE NUMBER	EHC-0105-153	EHC-0105-155	EHC-0105-159
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI
	DESCRIPTION			
	REMARKS			

**Semi-VOA's (mg/L): ppm unless noted**

1,2-Dibromoethane	<0.001	<0.001	<0.001
1,4 - Dioxane	<0.3	<0.3	<0.3
1-Methylnaphthalene	<0.01	<0.01	<0.01
2,4-Dimethylphenol	<0.01	<0.01 J	<0.01
2,4-Dinitrophenol	<0.06	<0.06	<0.06
2-Methylnaphthalene	<0.01	<0.01	<0.01
2-Methylphenol	<0.01	<0.01 J	<0.01
4-Methylphenol/3-Methylphenol	<0.01	<0.01 J	<0.01
4-Nitrophenol	<0.06	<0.06	<0.06
6-Methylchrysene	<0.01	<0.01	<0.01
7,12-Dimethylbenz(a)anthracene	<0.01	<0.01	<0.01
Benzo(a)anthracene	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01
Benzo(j)Fluoranthene	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01
bis(2-ethylhexyl)Phthalate	<0.01	<0.01	<0.01
Butyl Benzyl Phthalate	<0.01	<0.01	<0.01
Dibenz(a,h)acridine	<0.01	<0.01	<0.01
Dibenz(a,h)anthracene	<0.01	<0.01	<0.01
Dimethylphthalate	<0.01	<0.01	<0.01
Di-n-Butylphthalate	<0.01	<0.01	<0.01
Di-N-Octylphthalate	<0.01	<0.01	<0.01
Indene	<0.01	<0.01	<0.01
Phenanthrene	<0.01	<0.01	<0.01
Pyrene	<0.01	<0.01	<0.01
Pyridine	<0.02	<0.02	<0.02
Quinoline	<0.01	<0.01	<0.01
Thiophenol	<0.02	<0.02	<0.02
Anthracene	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01
Diethylphthalate	<0.01	<0.01	<0.01
Fluoranthene	<0.01	<0.01	<0.01
Naphthalene	<0.01	<0.01	<0.01
Phenol	<0.01	<0.01 J	<0.01

**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene	<0.01	<0.01	<0.01
1,3-Dichlorobenzene	<0.01	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-49	DH-50	DH-54
Water	SAMPLE DATE	5/1/2001	5/1/2001	5/1/2001
	SAMPLE TIME	13:15	14:30	12:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010608033	L010608017	L010608021
	SAMPLE NUMBER	EHC-0105-153	EHC-0105-155	EHC-0105-159
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI
	DESCRIPTION			
	REMARKS			

**VOA's (mg/L): ppm unless noted**

1,4-Dichlorobenzene	<0.01	<0.01	<0.01
1,2-Dichloroethane	<0.001	<0.001	<0.001
2-Butanone	<0.01	<0.01	<0.01
Benzene	<0.001	<0.001	<0.001
Carbon Disulfide	<0.001	<0.001	<0.001
Chlorobenzene	<0.001	<0.001	<0.001
Chloroform	<0.001	<0.001	<0.001
Ethylbenzene	<0.001	<0.001	<0.001
m,p - Xylene	<0.001	<0.001	<0.001
o-Xylene	<0.001	<0.001	<0.001
Styrene	<0.01	<0.001 J	<0.001
Toluene	<0.01	<0.001	<0.001
Total Xylene	<0.001	<0.001	<0.001

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-6	DH-64	EH-50
Water	SAMPLE DATE	11/20/1987	5/23/2007	5/9/2001
	SAMPLE TIME	00:00	15:15	15:45
	LAB	TSC-SLC	ELI	TSC-SLC
	LAB NUMBER	87-10568	H07050276-002	L010691008
	SAMPLE NUMBER	AEH-8711-221	AEH-0705-223	EHC-0105-168
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI
	DESCRIPTION		EPA Split	
	REMARKS			

**EPH: ppm unless noted**

Naphthalene (EPH)	<0.01
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**Other: ppm unless noted**

Oil & Grease	0.7
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**Pesticides (mg/L): ppm unless noted**

Diallate	<0.01
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**Semi-VOA's (mg/L): ppm unless noted**

1,1-Dichloropropene	<0.001	
1,2,3-Trichlorobenzene	<0.001	
1,2,4-Trichlorobenzene (Semi)	<0.01	
1,2,4-Trimethylbenzene	<0.001	
1,2-Dibromoethane	<0.001	<0.001
1,3,5-Trimethylbenzene	<0.001	
1,3-Dichloropropane	<0.001	
1,4 - Dioxane		<0.3
1-Methylnaphthalene	<0.01	<0.01
2,2-Dichloropropane	<0.001	
2,4,5-Trichlorophenol	<0.01	
2,4,6-Trichlorophenol	<0.01	
2,4-Dichlorophenol	<0.01	
2,4-Dimethylphenol	<0.01	<0.01
2,4-Dinitrophenol	<0.05	<0.05
2,4-Dinitrotoluene	<0.01	
2-Chloronaphthalene	<0.01	
2-Chlorotoluene	<0.001	
2-Methylnaphthalene	<0.01	<0.01
2-Methylphenol	<0.01	<0.01
2-Nitrophenol	<0.01	
3,3-Dichlorobenzidine	<0.02	
4,6-Dinitro-2-methylphenol	<0.05	
4-Bromophenyl Phenyl Ether	<0.01	
4-Chloro-3-methylphenol	<0.01	
4-Chlorophenol	<0.01	
4-Chlorophenyl Phenyl Ether	<0.01	
4-Chlorotoluene	<0.001	
4-Methylphenol/3-Methylphenol	<0.0033	<0.01
4-Nitrophenol	<0.05	<0.05
6-Methylchrysene		<0.01
7,12-Dimethylbenz(a)anthracene		<0.01
Acenaphthene	<0.01	
Acenaphthylene	<0.01	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-64	EH-50
Water	SAMPLE DATE	5/23/2007	5/9/2001
	SAMPLE TIME	15:15	15:45
	LAB	ELI	TSC-SLC
	LAB NUMBER	H07050276-002	L010691008
	SAMPLE NUMBER	AEH-0705-223	EHC-0105-168
	TYPE	Groundwater	Groundwater
	GROUP	RI	RI
	DESCRIPTION	EPA Split	
	REMARKS		

**Semi-VOA's (mg/L): ppm unless noted**

Acetonitrile	<0.01	
Benzidine	<0.02	
Benzo(a)anthracene	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01
Benzo(g,h,i)perylene	<0.01	
Benzo(j)Fluoranthene		<0.01
Benzo(k)fluoranthene	<0.01	<0.01
bis(2-chloroethoxy)methane	<0.01	
bis(2-chloroethyl) Ether	<0.01	
bis(2-chloroisopropyl) Ether	<0.01	
bis(2-ethylhexyl)Phthalate	<0.01	<0.01
Bromobenzene	<0.001	
Bromochloromethane	<0.001	
Butyl Benzyl Phthalate	<0.01	<0.01
Chlorodibromomethane	<0.001	
Dibenz(a,h)acridine		<0.01
Dibenz(a,h)anthracene	<0.01	<0.01
Dimethylphthalate	<0.01	<0.01
Di-n-Butylphthalate	<0.01	<0.01
Di-N-Octylphthalate	<0.01	<0.01
Fluorene	<0.01	
Hexachlorobenzene	<0.01	
Hexachlorobutadiene (Semi)	<0.01	
Hexachloroethane	<0.01	
Indene		<0.01
Indeno (1,2,3-cd) Pyrene	<0.01	
Isophorone	<0.01	
Isopropylbenzene	<0.00026	
Methylethylketone	<0.02	
n-Butylbenzene	<0.001	
Nitrobenzene	<0.01	
N-Nitroso-Di-N-Propylamine	<0.01	
n-Propylbenzene	<0.001	
Phenanthrene	<0.01	<0.01
p-Isopropyltoluene	<0.001	
Pyrene	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-64	EH-50
Water	SAMPLE DATE	5/23/2007	5/9/2001
	SAMPLE TIME	15:15	15:45
	LAB	ELI	TSC-SLC
	LAB NUMBER	H07050276-002	L010691008
	SAMPLE NUMBER	AEH-0705-223	EHC-0105-168
	TYPE	Groundwater	Groundwater
	GROUP	RI	RI
	DESCRIPTION	EPA Split	
	REMARKS		

**Semi-VOA's (mg/L): ppm unless noted**

Pyridine	<0.02	<0.02
Quinoline		<0.01
sec-Butylbenzene	<0.00067	
tert-Butylbenzene	<0.001	
Thiophenol		<0.02
1,2-Dichlorobenzene (Semi)	<0.01	
1,3-Dichlorobenzene (Semi)	<0.01	
1,4-Dichlorobenzene (Semi)	<0.01	
2,6-Dinitrotoluene	<0.01	
2-Chlorophenol	<0.01	
Anthracene	<0.01	<0.01
Chrysene	<0.01	<0.01
Diethylphthalate	<0.01	<0.01
Fluoranthene	<0.01	<0.01
Hexachlorocyclopentadiene	<0.02	
N-Nitrosodimethylamine	<0.01	
N-Nitrosodiphenylamine	<0.01	
Naphthalene		<0.01
Pentachlorophenol	<0.05	
Phenol	<0.01	<0.01

**VOA's (mg/L): ppm unless noted**

1,2,4-Trichlorobenzene (Vol)	<0.001	
1,2-Dichlorobenzene		<0.01
1,3-Dichlorobenzene		<0.01
1,4-Dichlorobenzene		<0.01
Dibromomethane	<0.001	
Hexachlorobutadiene (Vol)	<0.001	
Iodomethane	<0.001	
m,p-Xylene	<0.001	
Methyl tert-butyl ether	<0.001	
1,1,1,2-Tetrachloroethane	<0.001	
1,1,1-Trichloroethane	<0.001	
1,1,2,2-Tetrachloroethane	<0.001	
1,1,2-Trichloroethane	<0.001	
1,1-Dichloroethane	<0.001	
1,1-Dichloroethene	<0.001	
1,2,3-Trichloropropane	<0.001	
1,2-Dibromo-3-chloropropane	<0.001	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-64	EH-50
Water	SAMPLE DATE	5/23/2007	5/9/2001
	SAMPLE TIME	15:15	15:45
	LAB	ELI	TSC-SLC
	LAB NUMBER	H07050276-002	L010691008
	SAMPLE NUMBER	AEH-0705-223	EHC-0105-168
	TYPE	Groundwater	Groundwater
	GROUP	RI	RI
	DESCRIPTION	EPA Split	
	REMARKS		

**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene (Vol)	<0.001	
1,2-Dichloroethane	<0.001	<0.001
1,2-Dichloropropane	<0.001	
1,3-Dichlorobenzene (Vol)	<0.001	
1,4-Dichlorobenzene (Vol)	<0.001	
2-Butanone		<0.02
2-Chloroethyl Vinyl Ether	<0.001	
2-Hexanone	<0.02	
4-Methyl-2-Pentanone	<0.02	
Acetone	<0.02	
Acrolein	<0.02	
Acrylonitrile	<0.02	
Benzene	<0.00046	<0.001
Bromodichloromethane	<0.001	
Bromoform	<0.001	
Bromomethane	<0.001	
Carbon Disulfide	<0.001	<0.001
Carbon Tetrachloride	<0.001	
Chlorobenzene	<0.001	<0.001
Chloroethane	<0.001	
Chloroform	<0.001	0.001
Chloromethane	<0.001	
cis-1,2-Dichloroethene	<0.001	
cis-1,3-Dichloropropene	<0.001	
Dichlorodifluoromethane	<0.001	
Ethylbenzene	<0.001	<0.001
m,p - Xylene		<0.001
Methylene Chloride	<0.001	
o-Xylene	<0.001	<0.001
Styrene	<0.001	<0.001
Tetrachloroethene	<0.001	
Toluene	<0.001	<0.001
Total Xylene	<0.001	<0.001
trans-1,2-Dichloroethene	<0.001	
Trans-1,3-dichloropropene	<0.001	
Trichloroethene	<0.001	
Trichlorofluoromethane	<0.001	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-64
Water	SAMPLE DATE	5/23/2007
	SAMPLE TIME	15:15
	LAB	ELI
	LAB NUMBER	H07050276-002
	SAMPLE NUMBER	AEH-0705-223
	TYPE	Groundwater
	GROUP	RI
	DESCRIPTION	EPA Split
	REMARKS	

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**VOA's (mg/L): ppm unless noted**

Vinyl Acetate	<0.001
Vinyl Chloride	<0.001

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**VPH: ppm unless noted**

Naphthalene (VPH)	<0.001
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-51	EH-52	EH-54
Water	SAMPLE DATE	12/7/1987	12/7/1987	12/7/1987
	SAMPLE TIME	00:00	00:00	00:00
	LAB	LKS	LKS	LKS
	LAB NUMBER	7336	7336	7336
	SAMPLE NUMBER	AEH-8711-201	AEH-8711-202	AEH-8711-204
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI
	DESCRIPTION			
	REMARKS			

**Other: ppm unless noted**

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Oil & Grease	0.4	0.4	1.2
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-60	EH-60	EH-60
Water	SAMPLE DATE	12/2/1987	4/18/1988	12/14/1988	4/17/1989	10/17/1989	4/29/1990
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-11009	88-2772	89-7	89-495	89-811	90-1059
	SAMPLE NUMBER	AEH-8712-245	AEH-8804-350	AEH-8812-169	AEH-8904-240	AEH-8910-448	AEH-9005-448
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics							<1
Gasoline Range Organics							<1
Halogenated Hydrocarbon							0.02
Oxygenated Hydrocarbon							0.06
Substituted Hydrocarbon							0.07
Sulfonated Aromatic						0.01	
Total Petroleum Hydrocarbons			0.07		0.2		<1

**Other: ppm unless noted**

Oil & Grease	60	0.08
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**Semi-VOA's (mg/L): ppm unless noted**

1,2-Dichloroethene		<0.005	<0.005
2,3-Dimethylbutane		0.005	
2,4,5-Trichlorophenol		<0.05 UJ	<0.05
2,4,6-Trichlorophenol		<0.01 UJ	<0.01
2,4-Dichlorophenol		<0.01 UJ	<0.01
2,4-Dimethylphenol		<0.01 UJ	<0.01
2,4-Dinitrophenol		<0.05 UJ	<0.05
2,4-Dinitrotoluene		<0.01 UJ	<0.01
2-Chloronaphthalene		<0.01 UJ	<0.01
2-Methylnaphthalene		<0.01 UJ	<0.01
2-Methylphenol		<0.01 UJ	<0.01
2-Nitrophenol		<0.01 UJ	<0.01
2-Pentene		0.006	
3,3-Dichlorobenzidine		<0.02 UJ	<0.02
3-Nitroaniline		<0.05 UJ	<0.05
4,6-Dinitro-2-methylphenol		<0.05 UJ	<0.05
4-Bromophenyl Phenyl Ether		<0.01 UJ	<0.01
4-Chloro-3-methylphenol		<0.01 R	<0.01
4-Chloroaniline		<0.01 UJ	<0.01
4-Chlorophenyl Phenyl Ether		<0.01 UJ	<0.01
4-Methylphenol		<0.01 UJ	<0.01
4-Nitroaniline		<0.05 UJ	<0.05
4-Nitrophenol		<0.05 R	<0.05
Acenaphthene		<0.01 UJ	<0.01
Acenaphthylene		<0.01 UJ	<0.01
Benzo(a)anthracene		<0.01 UJ	<0.01
Benzo(a)pyrene		<0.01 UJ	<0.01
Benzo(b)fluoranthene		<0.01 UJ	<0.01
Benzo(g,h,i)perylene		<0.01 UJ	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60
Water	SAMPLE DATE	10/17/1989	4/29/1990
	SAMPLE TIME	00:00	00:00
	LAB	TSC-SLC	TSC-SLC
	LAB NUMBER	89-811	90-1059
	SAMPLE NUMBER	AEH-8910-448	AEH-9005-448
	TYPE	Groundwater	Groundwater
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS		

**Semi-VOA's (mg/L): ppm unless noted**

Benzo(k)fluoranthene	<0.01 UJ	<0.01
Benzoic Acid	<0.05 UJ	<0.05
Benzyl Alcohol	<0.01 UJ	<0.01
bis(2-chloroethoxy)methane	<0.01 UJ	<0.01
bis(2-chloroethyl) Ether	<0.01 UJ	<0.01
bis(2-chloroisopropyl) Ether	<0.01 UJ	<0.01
bis(2-ethylhexyl)Phthalate	<0.01 UJ	<0.01
Butyl Benzyl Phthalate	<0.01 UJ	<0.01
Cyclohexane	0.005	
Dibenz(a,h)anthracene	<0.01 UJ	<0.01
Dibenzofuran	<0.01 UJ	<0.01
Dimethylphthalate	<0.01 UJ	<0.01
Di-n-Butylphthalate	<0.01 UJ	<0.01
Di-N-Octylphthalate	<0.01 UJ	<0.01
Fluorene	<0.01 UJ	<0.01
Hexachlorobenzene	<0.01 UJ	<0.01
Hexachloroethane	<0.01 UJ	<0.01
Indeno (1,2,3-cd) Pyrene	<0.01 UJ	<0.01
Isophorone	<0.01 UJ	<0.01
Nitrobenzene	<0.01 UJ	<0.01
N-Nitroso-Di-N-Propylamine	<0.01 UJ	<0.01
Phenanthrene	<0.01 UJ	<0.01
Pyrene	<0.01 UJ	<0.01
1,2,4-Trichlorobenzene	<0.01 UJ	<0.01
2,6-Dinitrotoluene	<0.01 UJ	<0.01
2-Chlorophenol	<0.01 R	<0.01
2-Nitroaniline	<0.05 UJ	<0.05
Anthracene	<0.01 UJ	<0.01
Chrysene	<0.01 UJ	<0.01
Diethylphthalate	<0.01 UJ	<0.01
Fluoranthene	<0.01 UJ	<0.01
Hexachlorocyclopentadiene	<0.01 UJ	<0.01
N-Nitrosodiphenylamine	<0.01 UJ	<0.01
Naphthalene	<0.01 UJ	<0.01
Pentachlorophenol	<0.05 UJ	<0.05
Phenol	<0.01 R	<0.01

**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene	<0.01 UJ	<0.01
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60
Water	SAMPLE DATE	10/17/1989	4/29/1990
	SAMPLE TIME	00:00	00:00
	LAB	TSC-SLC	TSC-SLC
	LAB NUMBER	89-811	90-1059
	SAMPLE NUMBER	AEH-8910-448	AEH-9005-448
	TYPE	Groundwater	Groundwater
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS		

**VOA's (mg/L): ppm unless noted**

1,3-Dichlorobenzene	<0.01 UJ	<0.01
1,4-Dichlorobenzene	<0.01 UJ	<0.01
Hexachlorobutadiene	<0.01 UJ	<0.01
1,1,1-Trichloroethane	<0.005	<0.005
1,1,2,2-Tetrachloroethane	<0.005	<0.005
1,1,2-Trichloroethane	<0.005	<0.005
1,1-Dichloroethane	<0.005	<0.005
1,1-Dichloroethene	<0.005	<0.005
1,2-Dichloroethane	<0.005	<0.005
1,2-Dichloropropane	<0.005	<0.005
2-Butanone	<0.01	<0.01
2-Hexanone	<0.01	<0.01
4-Methyl-2-Pentanone	<0.01	<0.01
Acetone	0.01	<0.01
Benzene	0.006	<0.005
Bromodichloromethane	<0.005	<0.005
Bromoform	<0.005	<0.005
Bromomethane	<0.01	<0.01
Carbon Disulfide	<0.005	0.008
Carbon Tetrachloride	<0.005	<0.005
Chlorobenzene	<0.005	<0.005
Chloroethane	<0.01	<0.01
Chloroform	<0.005	<0.005
Chloromethane	<0.01	<0.01
cis-1,3-Dichloropropene	<0.005	<0.005
Dibromochloromethane	<0.005	<0.005
Ethylbenzene	<0.005	<0.005
m-Xylene		<0.005
Methylated Alcohol		0.02
Methylcyclopentene	0.004	
Methylene Chloride	0.003	<0.005
Styrene	<0.005	<0.005
Tetrachloroethene	<0.005	<0.005
Toluene	0.001	<0.005
Total Xylene	<0.005	<0.005
Trans-1,3-dichloropropene	<0.005	<0.005

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60
Water	SAMPLE DATE	10/17/1989	4/29/1990
	SAMPLE TIME	00:00	00:00
	LAB	TSC-SLC	TSC-SLC
	LAB NUMBER	89-811	90-1059
	SAMPLE NUMBER	AEH-8910-448	AEH-9005-448
	TYPE	Groundwater	Groundwater
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS		
<b>VOA's (mg/L): ppm unless noted</b>			
	Trichloroethene	<0.005	<0.005
	Vinyl Acetate	<0.01	<0.01
	Vinyl Chloride	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable  
**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-60	EH-60	EH-60
Water	SAMPLE DATE	12/4/1990	5/8/1991	5/8/1991	11/20/1991	4/29/1992	11/21/1992
	SAMPLE TIME	00:00	00:00	00:00	16:40	14:00	10:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	90-2248	91-2674	91-2673	91-3882	92-4350	92-6806
	SAMPLE NUMBER	AEH-9011-751	AEH-9105-127	AEH-9105-144	AEH-9111-329	AEH-9204-155	EHC-9211-173
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics	<1	<1	<1	<1
Gasoline Range Organics	<1	<1	<1	<1
Total Petroleum Hydrocarbons	<1	<1	<1	1.4

**Semi-VOA's (mg/L): ppm unless noted**

1,2-Dichloroethene	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	<0.05 R	<0.05 UJ	<0.05
2,4,6-Trichlorophenol	<0.01 R	<0.01 UJ	<0.01
2,4-Dichlorophenol	<0.01 R	<0.01 UJ	<0.01
2,4-Dimethylphenol	<0.01 R	<0.01 UJ	<0.01
2,4-Dinitrophenol	<0.05 R	<0.05 UJ	<0.05
2,4-Dinitrotoluene	<0.01 J	<0.01 UJ	<0.01
2-Chloronaphthalene	<0.01 J	<0.01 UJ	<0.01
2-Methylnaphthalene	<0.01 J	<0.01 UJ	<0.01
2-Methylphenol	<0.01 R	<0.01 UJ	<0.01
2-Nitrophenol	<0.01 R	<0.01 UJ	<0.01
3,3-Dichlorobenzidine	<0.02 J	<0.02 UJ	<0.02
3-Nitroaniline	<0.05 J	<0.05 UJ	<0.05
4,6-Dinitro-2-methylphenol	<0.05 R	<0.05 UJ	<0.05
4-Bromophenyl Phenyl Ether	<0.01 J	<0.01 UJ	<0.01
4-Chloro-3-methylphenol	<0.01 R	<0.01 UJ	<0.01
4-Chloroaniline	<0.01 J	<0.01 UJ	<0.01
4-Chlorophenyl Phenyl Ether	<0.01 J	<0.01 UJ	<0.01
4-Methylphenol	<0.01 R	<0.01 UJ	<0.01
4-Nitroaniline	<0.05 J	<0.05 UJ	<0.05
4-Nitrophenol	<0.05 R	<0.05 UJ	<0.05
Acenaphthene	<0.01 J	<0.01 UJ	<0.01
Acenaphthylene	<0.01 J	<0.01 UJ	<0.01
Benzo(a)anthracene	<0.01 J	<0.01 UJ	<0.01
Benzo(a)pyrene	<0.01 J	<0.01 UJ	<0.01
Benzo(b)fluoranthene	<0.01 J	<0.01 UJ	<0.01
Benzo(g,h,i)perylene	<0.01 J	<0.01 UJ	<0.01
Benzo(k)fluoranthene	<0.01 J	<0.01 UJ	<0.01
Benzoic Acid	<0.05 J	<0.05 UJ	0.003
Benzyl Alcohol	<0.01 J	<0.01 UJ	<0.01
bis(2-chloroethoxy)methane	<0.01 J	<0.01 UJ	<0.01
bis(2-chloroethyl) Ether	<0.01 J	<0.01 UJ	<0.01
bis(2-chloroisopropyl) Ether	<0.01 J	<0.01 UJ	<0.01
bis(2-ethylhexyl)Phthalate	0.003 J	0.003 J	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60
Water	SAMPLE DATE	5/8/1991	5/8/1991	4/29/1992
	SAMPLE TIME	00:00	00:00	14:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	91-2674	91-2673	92-4350
	SAMPLE NUMBER	AEH-9105-127	AEH-9105-144	AEH-9204-155
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI
	DESCRIPTION			
	REMARKS		Field Duplicate	

**Semi-VOA's (mg/L): ppm unless noted**

Butyl Benzyl Phthalate	<0.01 J	<0.01 UJ	<0.01
Dibenz(a,h)anthracene	<0.01 J	<0.01 UJ	<0.01
Dibenzofuran	<0.01 J	<0.01 UJ	<0.01
Dimethylphthalate	<0.01 J	<0.01 UJ	<0.01
Di-n-Butylphthalate	<0.01 J	<0.01 UJ	<0.01
Di-N-Octylphthalate	<0.01 J	<0.01 UJ	<0.01
Fluorene	<0.01 J	<0.01 UJ	<0.01
Hexachlorobenzene	<0.01 J	<0.01 UJ	<0.01
Hexachloroethane	<0.01 J	<0.01 UJ	<0.01
Indeno (1,2,3-cd) Pyrene	<0.01 J	<0.01 UJ	<0.01
Isophorone	<0.01 J	<0.01 UJ	<0.01
Nitrobenzene	<0.01 J	<0.01 UJ	<0.01
N-Nitroso-Di-N-Propylamine	<0.01 J	<0.01 UJ	<0.01
Phenanthrene	<0.01 J	<0.01 UJ	<0.01
Pyrene	<0.01 J	<0.01 UJ	<0.01
1,2,4-Trichlorobenzene	<0.01 J	<0.01 UJ	<0.01
2,6-Dinitrotoluene	<0.01 J	<0.01 UJ	<0.01
2-Chlorophenol	<0.01 R	<0.01 UJ	<0.01
2-Nitroaniline	<0.05 J	<0.05 UJ	<0.05
Anthracene	<0.01 J	<0.01 UJ	<0.01
Chrysene	<0.01 J	<0.01 UJ	<0.01
Diethylphthalate	<0.01 J	<0.01 UJ	<0.01
Fluoranthene	<0.01 J	<0.01 UJ	<0.01
Hexachlorocyclopentadiene	<0.01 J	<0.01 UJ	<0.01
N-Nitrosodiphenylamine	<0.01 J	<0.01 UJ	<0.01
Naphthalene	<0.01 J	<0.01 UJ	<0.01
Pentachlorophenol	<0.05 R	<0.05 UJ	<0.05
Phenol	<0.01 R	<0.01 UJ	<0.01

**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene	<0.01 J	<0.01 UJ	<0.01
1,3-Dichlorobenzene	<0.01 J	<0.01 UJ	<0.01
1,4-Dichlorobenzene	<0.01 J	<0.01 UJ	<0.01
Hexachlorobutadiene	<0.01 J	<0.01 UJ	<0.01
1,1,1-Trichloroethane	<0.005	<0.005	<0.005
1,1,2,2-Tetrachloroethane	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	<0.005	<0.005	<0.005
1,1-Dichloroethane	<0.005	<0.005	<0.005
1,1-Dichloroethene	<0.005	<0.005	<0.005

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60
Water	SAMPLE DATE	5/8/1991	5/8/1991	4/29/1992
	SAMPLE TIME	00:00	00:00	14:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	91-2674	91-2673	92-4350
	SAMPLE NUMBER	AEH-9105-127	AEH-9105-144	AEH-9204-155
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI
	DESCRIPTION			
	REMARKS		Field Duplicate	

**VOA's (mg/L): ppm unless noted**

1,2-Dichloroethane	<0.005	<0.005	<0.005
1,2-Dichloropropane	<0.005	<0.005	<0.005
2-Butanone	<0.01	<0.01	<0.01
2-Hexanone	<0.01	<0.01	<0.01
4-Methyl-2-Pentanone	<0.01	<0.01	<0.01
Acetone	<0.01	<0.01	<0.01
Benzene	0.002	0.002	0.005
Bromodichloromethane	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005
Bromomethane	<0.01	<0.01	<0.01
Carbon Disulfide	<0.005	<0.005	<0.005
Carbon Tetrachloride	<0.005	<0.005	<0.005
Chlorobenzene	<0.005	<0.005	<0.005
Chloroethane	<0.01	<0.01	<0.01
Chloroform	<0.005	<0.005	<0.005
Chloromethane	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	<0.005	<0.005	<0.005
Dibromochloromethane	<0.005	<0.005	<0.005
Ethylbenzene	<0.005	<0.005	<0.005
Methylene Chloride	0.004	0.004	<0.005
Styrene	<0.005	<0.005	<0.005
Tetrachloroethene	<0.005	<0.005	<0.01
Toluene	<0.005	<0.005	0.001
Total Xylene	<0.005	<0.005	<0.005
Trans-1,3-dichloropropene	<0.005	<0.005	<0.005
Trichloroethene	<0.005	<0.005	<0.005
Vinyl Acetate	<0.01	<0.01	<0.01
Vinyl Chloride	<0.01	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-60	EH-60	EH-60
Water	SAMPLE DATE	5/6/1993	11/12/1993	11/12/1993	5/12/1994	11/18/1994	11/18/1994
	SAMPLE TIME	13:00	13:20	16:30	16:10	13:15	14:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-7836	93-9278	93-9276	94-1386	94-3400	94-3393
	SAMPLE NUMBER	EHC-9305-161	EHC-9311-178	EHC-9311-143	EHC-9405-147	EHC-9411-184	EHC-9411-148
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics	<1					
Gasoline Range Organics	<1					
Total Petroleum Hydrocarbons	<1	<1	<1	<1	<1	<1

**Semi-VOA's (mg/L): ppm unless noted**

2,2'-Oxybis(1-Chloropropane)	<0.01
2,4,5-Trichlorophenol	<0.03
2,4,6-Trichlorophenol	<0.01
2,4-Dichlorophenol	<0.01
2,4-Dimethylphenol	<0.01
2,4-Dinitrophenol	<0.03 UJ
2,4-Dinitrotoluene	<0.01
2-Chloronaphthalene	<0.01
2-Methylnaphthalene	<0.01
2-Methylphenol	<0.01
2-Nitrophenol	<0.01
3,3-Dichlorobenzidine	<0.01
3-Nitroaniline	<0.03
4,6-Dinitro-2-methylphenol	<0.03
4-Bromophenyl Phenyl Ether	<0.01
4-Chloro-3-methylphenol	<0.01
4-Chloroaniline	<0.01
4-Chlorophenyl Phenyl Ether	<0.01
4-Methylphenol	<0.01
4-Nitroaniline	<0.03
4-Nitrophenol	<0.03
Acenaphthene	<0.01
Acenaphthylene	<0.01
Benzo(a)anthracene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(g,h,i)perylene	<0.01
Benzo(k)fluoranthene	<0.01
bis(2-chloroethoxy)methane	<0.01
bis(2-chloroethyl) Ether	<0.01
bis(2-ethylhexyl)Phthalate	0.001 J
Butyl Benzyl Phthalate	<0.01
Carbazole	<0.01
Dibenz(a,h)anthracene	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>EH-60</b>
<b>Water</b>	SAMPLE DATE	5/6/1993
	SAMPLE TIME	13:00
	LAB	TSC-SLC
	LAB NUMBER	93-7836
	SAMPLE NUMBER	EHC-9305-161
	TYPE	Groundwater
	GROUP	RI
	DESCRIPTION	
	REMARKS	

**Semi-VOA's (mg/L): ppm unless noted**

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Dibenzofuran	<0.01
Dimethylphthalate	<0.01
Di-n-Butylphthalate	<0.01
Di-N-Octylphthalate	<0.01 UJ
Fluorene	<0.01
Hexachlorobenzene	<0.01
Hexachloroethane	<0.01
Indeno (1,2,3-cd) Pyrene	<0.01
Isophorone	<0.01
Nitrobenzene	<0.01
N-Nitroso-Di-N-Propylamine	<0.01
Phenanthrene	<0.01
Pyrene	<0.01
1,2,4-Trichlorobenzene	<0.01
2,6-Dinitrotoluene	<0.01
2-Chlorophenol	<0.01
2-Nitroaniline	<0.03
Anthracene	<0.01
Chrysene	<0.01
Diethylphthalate	<0.01
Fluoranthene	<0.01
Hexachlorocyclopentadiene	<0.01 UJ
N-Nitrosodiphenylamine	<0.01
Naphthalene	<0.01
Pentachlorophenol	<0.03 UJ
Phenol	<0.01

**VOA's (mg/L): ppm unless noted**

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1,2-Dichlorobenzene	<0.01
1,3-Dichlorobenzene	<0.01
1,4-Dichlorobenzene	<0.01
Hexachlorobutadiene	<0.01
1,1,1-Trichloroethane	<0.01
1,1,2,2-Tetrachloroethane	<0.01
1,1,2-Trichloroethane	<0.01
1,1-Dichloroethane	<0.01
1,1-Dichloroethene	<0.01
1,2-Dichloroethane	<0.01
1,2-Dichloropropane	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>EH-60</b>
<b>Water</b>	SAMPLE DATE	5/6/1993
	SAMPLE TIME	13:00
	LAB	TSC-SLC
	LAB NUMBER	93-7836
	SAMPLE NUMBER	EHC-9305-161
	TYPE	Groundwater
	GROUP	RI
	DESCRIPTION	
	REMARKS	

**VOA's (mg/L): ppm unless noted**

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2-Butanone	<0.01
2-Hexanone	<0.01
4-Methyl-2-Pentanone	<0.01
Acetone	<0.01
Benzene	0.003
Bromodichloromethane	<0.01
Bromoform	<0.01
Bromomethane	<0.01
Carbon Disulfide	<0.01
Carbon Tetrachloride	<0.01
Chlorobenzene	<0.01
Chloroethane	<0.01
Chloroform	<0.01
Chloromethane	<0.01
cis-1,2-Dichloroethene	<0.01
cis-1,3-Dichloropropene	<0.01
Dibromochloromethane	<0.01
Ethylbenzene	<0.01
Methylene Chloride	<0.01
Styrene	<0.01
Tetrachloroethene	<0.01
Toluene	<0.01
Total Xylene	0.002
trans-1,2-Dichloroethene	<0.01
Trans-1,3-dichloropropene	<0.01
Trichloroethene	<0.01
Vinyl Chloride	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-60	EH-60	EH-60
Water	SAMPLE DATE	5/16/1995	5/16/1995	11/14/1995	11/14/1995	5/15/1996	5/15/1996
	SAMPLE TIME	13:30	13:45	10:20	10:35	12:45	13:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-4520	95-4526	95-6149	95-6153	96-6789	96-6765
	SAMPLE NUMBER	EHC-9505-148	EHC-9505-178	EHC-9511-150	EHC-9511-177	EHC-9605-134	EHC-9605-156
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		Field Duplicate
<b>Hydrocarbon (mg/L): ppm unless noted</b>							
	Diesel Range Organics	<1	<1			<1	<1
	Gasoline Range Organics	<1	<1			<1	<1
	Total Petroleum Hydrocarbons	<1	<1	<1	<1	<1	<1
<b>Semi-VOA's (mg/L): ppm unless noted</b>							
	1,2-Dichloroethene	<0.01	<0.01			<0.01	<0.01
	1,2-Diphenylhydrazine	<0.01	<0.01				
	2,2'-Oxybis(1-Chloropropane)					<0.01	<0.01
	2,4,5-Trichlorophenol	<0.05	<0.05			<0.03	<0.03
	2,4,6-Trichlorophenol	<0.01	<0.01			<0.01	<0.01
	2,4-Dichlorophenol	<0.01	<0.01			<0.01	<0.01
	2,4-Dimethylphenol	<0.01	<0.01			<0.01	<0.01
	2,4-Dinitrophenol	<0.05	<0.05			<0.03	<0.03
	2,4-Dinitrotoluene	<0.01	<0.01			<0.01	<0.01
	2-Chloronaphthalene	<0.01	<0.01			<0.01	<0.01
	2-Methylnaphthalene	<0.01	<0.01			<0.01	<0.01
	2-Methylphenol	<0.01	<0.01			<0.01	<0.01
	2-Nitrophenol	<0.01	<0.01			<0.01	<0.01
	3,3-Dichlorobenzidine	<0.02	<0.02			<0.01	<0.01
	3-Nitroaniline	<0.05	<0.05			<0.03	<0.03
	4,6-Dinitro-2-methylphenol	<0.05	<0.05			<0.03	<0.03
	4-Bromophenyl Phenyl Ether	<0.01	<0.01			<0.01	<0.01
	4-Chloro-3-methylphenol	<0.02	<0.02			<0.01	<0.01
	4-Chloroaniline	<0.04	<0.04			<0.01	<0.01
	4-Chlorophenyl Phenyl Ether	<0.01	<0.01			<0.01	<0.01
	4-Methylphenol	<0.01	<0.01			<0.01	<0.01
	4-Nitroaniline	<0.02	<0.02			<0.03	<0.03
	4-Nitrophenol	<0.05	<0.05			<0.03	<0.03
	Acenaphthene	<0.01	<0.01			<0.01	<0.01
	Acenaphthylene	<0.01	<0.01			<0.01	<0.01
	Benzidine	<0.02	<0.02				
	Benzo(a)anthracene	<0.01	<0.01			<0.01	<0.01
	Benzo(a)pyrene	<0.01	<0.01			<0.01	<0.01
	Benzo(b)fluoranthene	<0.01	<0.01			<0.01	<0.01
	Benzo(g,h,i)perylene	<0.01	<0.01			<0.01	<0.01
	Benzo(k)fluoranthene	<0.01	<0.01			<0.01	<0.01
	Benzoic Acid	<0.1	<0.1				
	Benzyl Alcohol	<0.04	<0.04				
	bis(2-chloroethoxy)methane	<0.01	<0.01			<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-60
Water	SAMPLE DATE	5/16/1995	5/16/1995	5/15/1996	5/15/1996
	SAMPLE TIME	13:30	13:45	12:45	13:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-4520	95-4526	96-6789	96-6765
	SAMPLE NUMBER	EHC-9505-148	EHC-9505-178	EHC-9605-134	EHC-9605-156
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS		Field Duplicate		Field Duplicate

**Semi-VOA's (mg/L): ppm unless noted**

bis(2-chloroethyl) Ether	<0.01	<0.01	<0.01	<0.01
bis(2-chloroisopropyl) Ether	<0.01	<0.01		
bis(2-ethylhexyl)Phthalate	<0.01	<0.01	0.0005	<0.01
Bromoethane				<0.01
Butyl Benzyl Phthalate	<0.01	<0.01	<0.01	<0.01
Carbazole	<0.01	<0.01	<0.01	<0.01
Dibenz(a,h)anthracene	<0.01	<0.01	<0.01	<0.01
Dibenzofuran	<0.01	<0.01	<0.01	<0.01
Dimethylphthalate	<0.01	<0.01	<0.01	<0.01
Di-n-Butylphthalate	<0.01	<0.01	<0.01	<0.01
Di-N-Octylphthalate	<0.01	<0.01	<0.01	<0.01
Fluorene	<0.01	<0.01	<0.01	<0.01
Hexachlorobenzene	<0.01	<0.01	<0.01	<0.01
Hexachloroethane	<0.01	<0.01	<0.01	<0.01
Indeno (1,2,3-cd) Pyrene	<0.01	<0.01	<0.01	<0.01
Isophorone	<0.01	<0.01	<0.01	<0.01
Nitrobenzene	<0.01	<0.01	<0.01	<0.01
N-Nitroso-Di-N-Propylamine			<0.01	<0.01
N-Nitrosodipropylamine	<0.01	<0.01		
Phenanthrene	<0.01	<0.01	<0.01	<0.01
Pyrene	<0.01	<0.01	<0.01	<0.01
Pyridine	<0.01	<0.01		
1,2,4-Trichlorobenzene	<0.01	<0.01	<0.01	<0.01
2,6-Dinitrotoluene	<0.01	<0.01	<0.01	<0.01
2-Chlorophenol	<0.01	<0.01	<0.01	<0.01
2-Nitroaniline	<0.05	<0.05	<0.03	<0.03
Aniline	<0.01	<0.01		
Anthracene	<0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01	<0.01
Diethylphthalate	<0.01	<0.01	<0.01	<0.01
Fluoranthene	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene	<0.01	<0.01	<0.01	<0.01
N-Nitrosodimethylamine	<0.01	<0.01		
N-Nitrosodiphenylamine	<0.01	<0.01	<0.01	<0.01
Naphthalene	<0.01	<0.01	<0.01	<0.01
Pentachlorophenol	<0.05	<0.05	<0.03	<0.03
Phenol	<0.01	<0.01	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-60
Water	SAMPLE DATE	5/16/1995	5/16/1995	5/15/1996	5/15/1996
	SAMPLE TIME	13:30	13:45	12:45	13:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-4520	95-4526	96-6789	96-6765
	SAMPLE NUMBER	EHC-9505-148	EHC-9505-178	EHC-9605-134	EHC-9605-156
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS		Field Duplicate		Field Duplicate

**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene	<0.01	<0.01	<0.01	<0.01
1,3-Dichlorobenzene	<0.01	<0.01	<0.01	<0.01
1,4-Dichlorobenzene	<0.01	<0.01	<0.01	<0.01
Hexachlorobutadiene	<0.01	<0.01	<0.01	<0.01
1,1,1-Trichloroethane	<0.01	<0.01	<0.01	<0.01
1,1,2,2-Tetrachloroethane	<0.01	<0.01	<0.01	<0.01
1,1,2-Trichloroethane	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethane	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethene	<0.01	<0.01	<0.01	<0.01
1,2-Dichloroethane	<0.01	<0.01	<0.01	<0.01
1,2-Dichloropropane	<0.01	<0.01	<0.01	<0.01
2-Butanone	<0.01	<0.01	<0.01	<0.01
2-Hexanone	<0.01	<0.01	<0.01	<0.01
4-Methyl-2-Pentanone	<0.01	<0.01	<0.01	<0.01
Acetone	<0.01	<0.01	<0.01	0.004
Benzene	<0.01	<0.01	0.005	0.004
Bromodichloromethane	<0.01	<0.01	<0.01	<0.01
Bromoform	<0.01	<0.01	<0.01	<0.01
Bromomethane	<0.01	<0.01	<0.01	<0.01
Carbon Disulfide	<0.01	<0.01	0.001	0.002
Carbon Tetrachloride	<0.01	<0.01	<0.01	<0.01
Chlorobenzene	<0.01	<0.01	<0.01	<0.01
Chloroethane	<0.01	<0.01	<0.01	<0.01
Chloroform	<0.01	<0.01	<0.01	<0.01
Chloromethane	<0.01	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	<0.01	<0.01	0.002	<0.01
Methylene Chloride	<0.01	<0.01	0.001	0.002
Styrene	<0.01	<0.01	<0.01	<0.01
Tetrachloroethene	<0.01	<0.01	<0.01	<0.01
Toluene	<0.01	<0.01	0.001	<0.01
Total Xylene	<0.01	<0.01	<0.01	<0.01
Trans-1,3-dichloropropene	<0.01	<0.01	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-60
Water	SAMPLE DATE	5/16/1995	5/16/1995	5/15/1996	5/15/1996
	SAMPLE TIME	13:30	13:45	12:45	13:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-4520	95-4526	96-6789	96-6765
	SAMPLE NUMBER	EHC-9505-148	EHC-9505-178	EHC-9605-134	EHC-9605-156
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS		Field Duplicate		Field Duplicate
	<b>VOA's (mg/L): ppm unless noted</b>				
	Trichloroethene	<0.01	<0.01	<0.01	<0.01
	Vinyl Chloride	<0.01	<0.01	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-60	EH-60	EH-60
Water	SAMPLE DATE	11/12/1996	5/7/1997	11/5/1997	5/6/1998	5/6/1998	11/19/1998
	SAMPLE TIME	16:00	16:00	17:30	14:50	15:05	09:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-7789	97-971	188-2686	261-3770	261-3777	311-4434
	SAMPLE NUMBER	EHC-9611-134	EHC-9705-132	EHC-9711-134	EHC-9805-135	EHC-9805-150	EHC-9811-134
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics				<1	<1	
Gasoline Range Organics				<1	<1	
Total Petroleum Hydrocarbons	<1	<1	<1	<1	<1	<1 UJ

**Semi-VOA's (mg/L): ppm unless noted**

1,2-Dichloroethene				<0.01	<0.01	
2,2'-Oxybis(1-Chloropropane)				<0.01	<0.01	
2,4,5-Trichlorophenol				<0.03	<0.03	
2,4,6-Trichlorophenol				<0.01	<0.01	
2,4-Dichlorophenol				<0.01	<0.01	
2,4-Dimethylphenol				<0.01	<0.01	
2,4-Dinitrophenol				<0.03	<0.03	
2,4-Dinitrotoluene				<0.01	<0.01	
2-Chloronaphthalene				<0.01	<0.01	
2-Methylnaphthalene				<0.01	<0.01	
2-Methylphenol				<0.01	<0.01	
2-Nitrophenol				<0.01	<0.01	
3,3-Dichlorobenzidine				<0.01	<0.01	
3-Nitroaniline				<0.03	<0.03	
4,6-Dinitro-2-methylphenol				<0.03	<0.03	
4-Bromophenyl Phenyl Ether				<0.01	<0.01	
4-Chloro-3-methylphenol				<0.01	<0.01	
4-Chloroaniline				<0.01	<0.01	
4-Chlorophenyl Phenyl Ether				<0.01	<0.01	
4-Methylphenol				<0.01	<0.01	
4-Nitroaniline				<0.03	<0.03	
4-Nitrophenol				<0.01	<0.01	
Acenaphthene				<0.01	<0.01	
Acenaphthylene				<0.01	<0.01	
Benzo(a)anthracene				<0.01	<0.01	
Benzo(a)pyrene				<0.01	<0.01	
Benzo(b)fluoranthene				<0.01	<0.01	
Benzo(g,h,i)perylene				<0.01	<0.01	
Benzo(k)fluoranthene				<0.01	<0.01	
bis(2-chloroethoxy)methane				<0.01	<0.01	
bis(2-chloroethyl) Ether				<0.01	<0.01	
bis(2-ethylhexyl)Phthalate				<0.01	<0.01	
Butyl Benzyl Phthalate				<0.01	<0.01	
Carbazole				<0.01	<0.01	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60
Water	SAMPLE DATE	5/6/1998	5/6/1998
	SAMPLE TIME	14:50	15:05
	LAB	TSC-SLC	TSC-SLC
	LAB NUMBER	261-3770	261-3777
	SAMPLE NUMBER	EHC-9805-135	EHC-9805-150
	TYPE	Groundwater	Groundwater
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS		Field Duplicate

**Semi-VOA's (mg/L): ppm unless noted**

Dibenz(a,h)anthracene	<0.01	<0.01
Dibenzofuran	<0.01	<0.01
Dimethylphthalate	<0.01	<0.01
Di-n-Butylphthalate	<0.01	<0.01
Di-N-Octylphthalate	<0.01	<0.01
Fluorene	<0.01	<0.01
Hexachlorobenzene	<0.01	<0.01
Hexachloroethane	<0.01	<0.01
Indeno (1,2,3-cd) Pyrene	<0.01	<0.01
Isophorone	<0.01	<0.01
Nitrobenzene	<0.01	<0.01
N-Nitroso-Di-N-Propylamine	<0.01	<0.01
Phenanthrene	<0.01	<0.01
Pyrene	<0.01	<0.01
1,2,4-Trichlorobenzene	<0.01	<0.01
2,6-Dinitrotoluene	<0.01	<0.01
2-Chlorophenol	<0.01	<0.01
2-Nitroaniline	<0.03	<0.03
Anthracene	<0.01	<0.01
Chrysene	<0.01	<0.01
Diethylphthalate	<0.01	<0.01
Fluoranthene	<0.01	<0.01
Hexachlorocyclopentadiene	<0.01	<0.01
N-Nitrosodiphenylamine	<0.01	<0.01
Naphthalene	<0.01	<0.01
Pentachlorophenol	<0.03	<0.03
Phenol	<0.01	<0.01

**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene	<0.01	<0.01
1,3-Dichlorobenzene	<0.01	<0.01
1,4-Dichlorobenzene	<0.01	<0.01
Hexachlorobutadiene	<0.01	<0.01
1,1,1-Trichloroethane	<0.01	<0.01
1,1,2,2-Tetrachloroethane	<0.01	<0.01
1,1,2-Trichloroethane	<0.01	<0.01
1,1-Dichloroethane	<0.01	<0.01
1,1-Dichloroethene	<0.01	<0.01
1,2-Dichloroethane	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60
Water	SAMPLE DATE	5/6/1998	5/6/1998
	SAMPLE TIME	14:50	15:05
	LAB	TSC-SLC	TSC-SLC
	LAB NUMBER	261-3770	261-3777
	SAMPLE NUMBER	EHC-9805-135	EHC-9805-150
	TYPE	Groundwater	Groundwater
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS		Field Duplicate

**VOA's (mg/L): ppm unless noted**

1,2-Dichloropropane	<0.01	<0.01
2-Butanone	<0.01	<0.01
2-Hexanone	<0.01	<0.01
4-Methyl-2-Pentanone	<0.01	<0.01
Acetone	<0.01	<0.01
Benzene	0.002	0.002
Bromodichloromethane	<0.01	<0.01
Bromoform	<0.01	<0.01
Bromomethane	<0.01	<0.01
Carbon Disulfide	<0.01	<0.01
Carbon Tetrachloride	<0.01	<0.01
Chlorobenzene	<0.01	<0.01
Chloroethane	<0.01	<0.01
Chloroform	0.001	0.001
Chloromethane	<0.01	<0.01
cis-1,3-Dichloropropene	<0.01	<0.01
Dibromochloromethane	<0.01	<0.01
Ethylbenzene	<0.01	<0.01
Methylene Chloride	<0.01	<0.01
Styrene	<0.01	<0.01
Tetrachloroethene	<0.01	<0.01
Toluene	<0.01	<0.01
Total Xylene	<0.01	<0.01
Trans-1,3-dichloropropene	<0.01	<0.01
Trichloroethene	<0.01	<0.01
Vinyl Chloride	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-60	EH-60	EH-60
Water	SAMPLE DATE	5/10/1999	5/10/1999	11/11/1999	11/11/1999	5/3/2000	11/8/2000
	SAMPLE TIME	14:30	14:45	11:30	11:45	12:20	11:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	347-4894	347-4895	L992008015	L992009010	L000704003	L001873009
	SAMPLE NUMBER	EHC-9905-134	EHC-9905-148	EHC-9911-150	EHC-9911-174	EHC-0005-149	EHC-0011-150
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		

#### Hydrocarbon (mg/L): ppm unless noted

Diesel Range Organics	<1	<1			<0.5	<0.5
Diesel Range Organics as Diesel					<0.5	<0.5
Gasoline Range Organics	<1	<1			0.05	<0.02 J
Gasoline Range Organics as Gas					0.05	<0.02 J
Total Extractable Hydrocarbons					<0.5	<0.5
Total Petroleum Hydrocarbons	<1.1	<1	<1 UJ	<1 UJ	<0.1	<0.1
Total Purgeable Hydrocarbons					0.1	<0.02

#### Semi-VOA's (mg/L): ppm unless noted

1,2-Dichloroethene	<0.01	<0.01		
2,2'-Oxybis(1-Chloropropane)	<0.01	<0.01		
2,4,5-Trichlorophenol	<0.03	<0.03		
2,4,6-Trichlorophenol	<0.01	<0.01		
2,4-Dichlorophenol	<0.01	<0.01		
2,4-Dimethylphenol	<0.01	<0.01		
2,4-Dinitrophenol	<0.03	<0.03		
2,4-Dinitrotoluene	<0.01	<0.01		
2-Chloronaphthalene	<0.01	<0.01		
2-Methylnaphthalene	<0.01	<0.01		
2-Methylphenol	<0.01	<0.01		
2-Nitrophenol	<0.01	<0.01		
3,3-Dichlorobenzidine	<0.01	<0.01		
3-Nitroaniline	<0.03	<0.03		
4,6-Dinitro-2-methylphenol	<0.03	<0.03		
4-Bromophenyl Phenyl Ether	<0.01	<0.01		
4-Chloro-3-methylphenol	<0.01	<0.01		
4-Chloroaniline	<0.01	<0.01		
4-Chlorophenyl Phenyl Ether	<0.01	<0.01		
4-Methylphenol	<0.01	<0.01		
4-Nitroaniline	<0.03	<0.03		
4-Nitrophenol	<0.03	<0.03		
Acenaphthene	<0.01	<0.01		
Acenaphthylene	<0.01	<0.01		
Benzo(a)anthracene	<0.01	<0.01		
Benzo(a)pyrene	<0.01	<0.01		
Benzo(b)fluoranthene	<0.01	<0.01		
Benzo(g,h,i)perylene	<0.01	<0.01		
Benzo(k)fluoranthene	<0.01	<0.01		
bis(2-chloroethoxy)methane	<0.01	<0.01		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60
Water	SAMPLE DATE	5/10/1999	5/10/1999
	SAMPLE TIME	14:30	14:45
	LAB	TSC-SLC	TSC-SLC
	LAB NUMBER	347-4894	347-4895
	SAMPLE NUMBER	EHC-9905-134	EHC-9905-148
	TYPE	Groundwater	Groundwater
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS		Field Duplicate

**Semi-VOA's (mg/L): ppm unless noted**

bis(2-chloroethyl) Ether	<0.01	<0.01
bis(2-ethylhexyl)Phthalate	<0.01	<0.01
Butyl Benzyl Phthalate	<0.01	<0.01
Carbazole	<0.01	<0.01
Dibenz(a,h)anthracene	<0.01	<0.01
Dibenzofuran	<0.01	<0.01
Dimethylphthalate	<0.01	<0.01
Di-n-Butylphthalate	<0.01	<0.01
Di-N-Octylphthalate	<0.01	<0.01
Fluorene	<0.01	<0.01
Hexachlorobenzene	<0.01	<0.01
Hexachloroethane	<0.01	<0.01
Indeno (1,2,3-cd) Pyrene	<0.01	<0.01
Isophorone	<0.01	<0.01
Nitrobenzene	<0.01	<0.01
N-Nitroso-Di-N-Propylamine	<0.01	<0.01
Phenanthrene	<0.01	<0.01
Pyrene	<0.01	<0.01
1,2,4-Trichlorobenzene	<0.01	<0.01
2,6-Dinitrotoluene	<0.01	<0.01
2-Chlorophenol	<0.01	<0.01
2-Nitroaniline	<0.03	<0.03
Anthracene	<0.01	<0.01
Chrysene	<0.01	<0.01
Diethylphthalate	<0.01	<0.01
Fluoranthene	<0.01	<0.01
Hexachlorocyclopentadiene	<0.01	<0.01
N-Nitrosodiphenylamine	<0.01	<0.01
Naphthalene	<0.01	<0.01
Pentachlorophenol	<0.03	<0.03
Phenol	<0.01	<0.01

**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene	<0.01	<0.01
1,3-Dichlorobenzene	<0.01	<0.01
1,4-Dichlorobenzene	<0.01	<0.01
Hexachlorobutadiene	<0.01	<0.01
1,1,1-Trichloroethane	<0.01	<0.01
1,1,2,2-Tetrachloroethane	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60
Water	SAMPLE DATE	5/10/1999	5/10/1999
	SAMPLE TIME	14:30	14:45
	LAB	TSC-SLC	TSC-SLC
	LAB NUMBER	347-4894	347-4895
	SAMPLE NUMBER	EHC-9905-134	EHC-9905-148
	TYPE	Groundwater	Groundwater
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS		Field Duplicate

**VOA's (mg/L): ppm unless noted**

1,1,2-Trichloroethane	<0.01	<0.01
1,1-Dichloroethane	<0.01	<0.01
1,1-Dichloroethene	<0.01	<0.01
1,2-Dichloroethane	<0.01	<0.01
1,2-Dichloropropane	<0.01	<0.01
2-Butanone	<0.01	<0.01
2-Hexanone	<0.01	<0.01
4-Methyl-2-Pentanone	<0.01	<0.01
Acetone	<0.01	<0.01
Benzene	0.0009	0.0008
Bromodichloromethane	<0.01	<0.01
Bromoform	<0.01	<0.01
Bromomethane	<0.01	<0.01
Carbon Disulfide	<0.01	<0.01
Carbon Tetrachloride	<0.01	<0.01
Chlorobenzene	<0.01	<0.01
Chloroethane	<0.01	<0.01
Chloroform	<0.01	<0.01
Chloromethane	<0.01	<0.01
cis-1,3-Dichloropropene	<0.01	<0.01
Dibromochloromethane	<0.01	<0.01
Ethylbenzene	<0.01	<0.01
Methylene Chloride	0.002	<0.01
Styrene	<0.01	<0.01
Tetrachloroethene	<0.01	<0.01
Toluene	<0.01	<0.01
Total Xylene	<0.01	<0.01
Trans-1,3-dichloropropene	<0.01	<0.01
Trichloroethene	<0.01	<0.01
Vinyl Chloride	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-60	EH-60	EH-60	EH-61	EH-61
Water	SAMPLE DATE	11/8/2000	5/10/2001	11/9/2001	12/2/1987	4/18/1988
	SAMPLE TIME	11:00	13:20	10:45	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001873015	L010691010	L011565003	87-11010	88-2773
	SAMPLE NUMBER	EHC-0011-172	EHC-0105-176	EHC-0111-174	AEH-8712-246	AEH-8804-351
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Field Duplicate				

**Hydrocarbon (mg/L): ppm unless noted**

C10-C32 Fuel Hydrocabons				<1
Diesel Range Organics	<0.5	<0.5	<0.5	
Diesel Range Organics as Diesel	<0.5	<0.5	<0.5	
Gasoline Range Organics	<0.02 J	<0.02	60	
Gasoline Range Organics as Gas	<0.02 J	<0.02	60	
Total Extractable Hydrocarbons	<0.5	<0.5	<0.5	
Total Petroleum Hydrocarbons	<0.1	<0.1		
Total Purgeable Hydrocarbons	<0.02	<0.02	150	

**Other: ppm unless noted**

Oil & Grease			110	<0.05
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**Semi-VOA's (mg/L): ppm unless noted**

1,2-Dibromoethane	<0.001			
1,4 - Dioxane	<0.3			
1-Methylnaphthalene	<0.01			
2,4,5-Trichlorophenol				<0.05 R
2,4,6-Trichlorophenol				<0.01 R
2,4-Dichlorophenol				<0.01 R
2,4-Dimethylphenol	<0.01			<0.01 R
2,4-Dinitrophenol	<0.05			<0.05 R
2,4-Dinitrotoluene				<0.01 R
2-Chloronaphthalene				<0.01 R
2-Methylnaphthalene	<0.01			<0.01 R
2-Methylphenol	<0.01			<0.01 R
2-Nitrophenol				<0.01 R
3,3-Dichlorobenzidine				<0.02 R
3-Nitroaniline				<0.05 R
4,6-Dinitro-2-methylphenol				<0.05 R
4-Bromophenyl Phenyl Ether				<0.01 R
4-Chloro-3-methylphenol				<0.01 R
4-Chloroaniline				<0.01 R
4-Chlorophenyl Phenyl Ether				<0.01 R
4-Methylphenol				<0.01 R
4-Methylphenol/3-Methylphenol	<0.01			
4-Nitroaniline				<0.05 R
4-Nitrophenol	<0.05			<0.05 R
6-Methylchrysene	<0.01			
7,12-Dimethylbenz(a)anthracene	<0.01			
Acenaphthene				<0.01 R
Acenaphthylene				<0.01 R

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>EH-60</b>	<b>EH-61</b>
<b>Water</b>	SAMPLE DATE	5/10/2001	4/18/1988
	SAMPLE TIME	13:20	00:00
	LAB	TSC-SLC	TSC-SLC
	LAB NUMBER	L010691010	88-2773
	SAMPLE NUMBER	EHC-0105-176	AEH-8804-351
	TYPE	Groundwater	Groundwater
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS		

**Semi-VOA's (mg/L): ppm unless noted**

Benzidine		<0.1	R
Benzo(a)anthracene	<0.01		<0.01 R
Benzo(a)pyrene	<0.01		<0.01 R
Benzo(b)fluoranthene	<0.01		<0.01 R
Benzo(g,h,i)perylene			<0.01 R
Benzo(j)Fluoranthene	<0.01		
Benzo(k)fluoranthene	<0.01		
Benzoic Acid			<0.05 R
Benzyl Alcohol			<0.01 R
bis(2-chloroethoxy)methane			<0.01 R
bis(2-chloroethyl) Ether			<0.01 R
bis(2-chloroisopropyl) Ether			<0.01 R
bis(2-ethylhexyl)Phthalate	<0.01		<0.01 R
Butyl Benzyl Phthalate	<0.01		<0.01 R
Dibenz(a,h)acridine	<0.01		
Dibenz(a,h)anthracene	<0.01		<0.01 R
Dibenzofuran			<0.01 R
Dimethylphthalate	<0.01		<0.01 R
Di-n-Butylphthalate	<0.01		<0.01 R
Di-N-Octylphthalate	<0.01		<0.01 R
Fluorene			<0.01 R
Hexachlorobenzene			<0.01 R
Hexachloroethane			<0.01 R
Indene	<0.01		
Indeno (1,2,3-cd) Pyrene			<0.01 R
Iodocyclohexane			0.01
Isophorone			<0.01 R
Nitrobenzene			<0.01 R
N-Nitroso-Di-N-Propylamine			<0.01 R
Phenanthrene	<0.01		<0.01 R
Pyrene	<0.01		<0.01 R
Pyridine	<0.02		
Quinoline	<0.01		
Thiophenol	<0.02		
1,2,4-Trichlorobenzene			<0.01 R
2,6-Dinitrotoluene			<0.01 R
2-Chlorophenol			<0.01 R

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>EH-60</b>	<b>EH-61</b>
<b>Water</b>	SAMPLE DATE	5/10/2001	4/18/1988
	SAMPLE TIME	13:20	00:00
	LAB	TSC-SLC	TSC-SLC
	LAB NUMBER	L010691010	88-2773
	SAMPLE NUMBER	EHC-0105-176	AEH-8804-351
	TYPE	Groundwater	Groundwater
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS		

**Semi-VOA's (mg/L): ppm unless noted**

2-Nitroaniline		<0.05 R
Aniline		<0.01 R
Anthracene	<0.01	<0.01 R
Chrysene	<0.01	0.01 J
Diethylphthalate	<0.01	<0.01 R
Fluoranthene	<0.01	<0.01 R
Hexachlorocyclopentadiene		<0.01 R
N-Nitrosodimethylamine		<0.01 R
N-Nitrosodiphenylamine		<0.01 R
Naphthalene	<0.01	<0.01 R
Pentachlorophenol		<0.05 R
Phenol	<0.01	<0.01 R

**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene	<0.01	<0.01 R
1,3-Dichlorobenzene	<0.01	<0.01 R
1,4-Dichlorobenzene	<0.01	<0.01 R
Hexachlorobutadiene		<0.01 R
1,2-Dichloroethane	<0.001	
2-Butanone	<0.02	
Benzene	<0.001	
Carbon Disulfide	<0.001	
Chlorobenzene	<0.001	
Chloroform	<0.001	
Ethylbenzene	<0.001	
m,p - Xylene	<0.001	
o-Xylene	<0.001	
Styrene	<0.001	
Toluene	<0.001	
Total Xylene	<0.001	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-61	EH-61	EH-61	EH-61	EH-61	EH-61
Water	SAMPLE DATE	12/15/1988	4/17/1989	4/17/1989	10/17/1989	4/28/1990	12/6/1990
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	15:10
	LAB	TSC-SLC	ATI	ATI	ATI	ATI	ATI
	LAB NUMBER	89-8	8904-241	8904-270	8910-449	9005-449	9012-078
	SAMPLE NUMBER	AEH-8812-170	AEH-8904-241	AEH-8904-270	AEH-8910-449	AEH-9005-449	AEH-9011-752
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics	<1					
Gasoline Range Organics	<1					
Total Petroleum Hydrocarbons	<0.05	<0.05	<0.05	<0.05	<1	<1

**Semi-VOA's (mg/L): ppm unless noted**

2,4,5-Trichlorophenol	<0.05 R
2,4,6-Trichlorophenol	<0.01 R
2,4-Dichlorophenol	<0.01 R
2,4-Dimethylphenol	<0.01 R
2,4-Dinitrophenol	<0.05 R
2,4-Dinitrotoluene	<0.01 R
2-Chloronaphthalene	<0.01 R
2-Methylnaphthalene	<0.01 R
2-Methylphenol	<0.01 R
2-Nitrophenol	<0.01 R
3,3-Dichlorobenzidine	<0.02 R
3-Nitroaniline	<0.05 R
4,6-Dinitro-2-methylphenol	<0.05 R
4-Bromophenyl Phenyl Ether	<0.01 R
4-Chloro-3-methylphenol	<0.01 R
4-Chloroaniline	<0.01 R
4-Chlorophenyl Phenyl Ether	<0.01 R
4-Methylphenol	<0.01 R
4-Nitroaniline	<0.05 R
4-Nitrophenol	<0.05 R
Acenaphthene	<0.01 R
Acenaphthylene	<0.01 R
Benzidine	<0.1 R
Benzo(a)anthracene	<0.01 R
Benzo(a)pyrene	<0.01 R
Benzo(b)fluoranthene	<0.01 R
Benzo(g,h,i)perylene	<0.01 R
Benzo(k)fluoranthene	<0.01 R
Benzoic Acid	<0.05 R
Benzyl Alcohol	<0.01 R
bis(2-chloroethoxy)methane	<0.01 R
bis(2-chloroethyl) Ether	<0.01 R
bis(2-chloroisopropyl) Ether	<0.01 R
bis(2-ethylhexyl)Phthalate	<0.01 R

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>EH-61</b>
<b>Water</b>	SAMPLE DATE	12/15/1988
	SAMPLE TIME	00:00
	LAB	TSC-SLC
	LAB NUMBER	89-8
	SAMPLE NUMBER	AEH-8812-170
	TYPE	Groundwater
	GROUP	RI
	DESCRIPTION	
	REMARKS	

**Semi-VOA's (mg/L): ppm unless noted**

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Butyl Benzyl Phthalate	<0.01 R
Dibenz(a,h)anthracene	<0.01 R
Dibenzofuran	<0.01 R
Dimethylphthalate	<0.01 R
Di-n-Butylphthalate	<0.01 R
Di-N-Octylphthalate	<0.01 R
Fluorene	<0.01 R
Hexachlorobenzene	<0.01 R
Hexachloroethane	<0.01 R
Indeno (1,2,3-cd) Pyrene	<0.01 R
Isophorone	<0.01 R
Nitrobenzene	<0.01 R
N-Nitroso-Di-N-Propylamine	<0.01 R
Phenanthrene	<0.01 R
Pyrene	<0.01 R
1,2,4-Trichlorobenzene	<0.01 R
2,6-Dinitrotoluene	<0.01 R
2-Chlorophenol	<0.01 R
2-Nitroaniline	<0.05 R
Aniline	<0.01 R
Anthracene	<0.01 R
Chrysene	<0.01 R
Diethylphthalate	<0.01 R
Fluoranthene	<0.01 R
Hexachlorocyclopentadiene	<0.01 R
N-Nitrosodimethylamine	<0.01 R
N-Nitrosodiphenylamine	<0.01 R
Naphthalene	<0.01 R
Pentachlorophenol	<0.05 R
Phenol	<0.01 R

**VOA's (mg/L): ppm unless noted**

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1,2-Dichlorobenzene	<0.01 R
1,3-Dichlorobenzene	<0.01 R
1,4-Dichlorobenzene	<0.01 R
Hexachlorobutadiene	<0.01 R

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-61	EH-61	EH-61	EH-61	EH-61	EH-61
Water	SAMPLE DATE	5/10/1991	11/21/1991	4/29/1992	11/21/1992	5/6/1993	11/12/1993
	SAMPLE TIME	00:00	00:00	15:00	12:15	12:30	15:45
	LAB	ATI	ATI	ATI	ATI	ATI	ATI
	LAB NUMBER	9105-124-2	9111-241-5	9205-008-5	9211-235-4	9305-064-1	9311-159-6
	SAMPLE NUMBER	AEH-9105-128	AEH-9111-368	AEH-9204-172	EHC-9211-164	EHC-9305-164	EHC-9311-144
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
	<b>Hydrocarbon (mg/L): ppm unless noted</b>						
Total Petroleum Hydrocarbons		<1	<1	<1	<1	<1	<1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable  
**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-61	EH-61	EH-61	EH-61	EH-61	EH-61
Water	SAMPLE DATE	5/12/1994	11/18/1994	5/16/1995	11/8/1995	5/15/1996	11/12/1996
	SAMPLE TIME	17:10	16:00	00:00	12:00	14:30	17:00
	LAB	ATI	ATI	ATI	ATI	ATI	ATI
	LAB NUMBER	9405-095-9	411143-6	505078 -4	511049-6	605045-4	611035-6
	SAMPLE NUMBER	EHC-9405-148	EHC-9411-150	EHC-9505-149	EHC-9511-152	EHC-9605-135	EHC-9611-135
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics	<1						
Gasoline Range Organics	<1						
Total Petroleum Hydrocarbons	<1	<1	<1	<1	<1	<1	<1

**Semi-VOA's (mg/L): ppm unless noted**

1,2-Dichloroethene	<0.01
2,2'-Oxybis(1-Chloropropane)	<0.01 UJ
2,4,5-Trichlorophenol	<0.03
2,4,6-Trichlorophenol	<0.01
2,4-Dichlorophenol	<0.01
2,4-Dimethylphenol	<0.01
2,4-Dinitrophenol	<0.03 UJ
2,4-Dinitrotoluene	<0.01
2-Chloronaphthalene	<0.01
2-Methylnaphthalene	<0.01
2-Methylphenol	<0.01
2-Nitrophenol	<0.01
3,3-Dichlorobenzidine	<0.01
3-Nitroaniline	<0.03
4,6-Dinitro-2-methylphenol	<0.03
4-Bromophenyl Phenyl Ether	<0.01
4-Chloro-3-methylphenol	<0.01
4-Chloroaniline	<0.01
4-Chlorophenyl Phenyl Ether	<0.01
4-Methylphenol	<0.01
4-Nitroaniline	<0.03
4-Nitrophenol	<0.03
Acenaphthene	<0.01
Acenaphthylene	<0.01
Benzo(a)anthracene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(g,h,i)perylene	<0.01
Benzo(k)fluoranthene	<0.01
bis(2-chloroethoxy)methane	<0.01
bis(2-chloroethyl) Ether	<0.01
bis(2-ethylhexyl)Phthalate	<0.01 UJ
Carbazole	<0.01 UJ
Dibenz(a,h)anthracene	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>EH-61</b>
<b>Water</b>	SAMPLE DATE	5/12/1994
	SAMPLE TIME	17:10
	LAB	ATI
	LAB NUMBER	9405-095-9
	SAMPLE NUMBER	EHC-9405-148
	TYPE	Groundwater
	GROUP	RI
	DESCRIPTION	
	REMARKS	

**Semi-VOA's (mg/L): ppm unless noted**

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Dibenzofuran	<0.01
Dimethylphthalate	<0.01
Di-n-Butylphthalate	0.0005
Di-N-Octylphthalate	<0.01 UJ
Fluorene	<0.01
Hexachlorobenzene	<0.01
Hexachloroethane	<0.01
Indeno (1,2,3-cd) Pyrene	<0.01
Isophorone	<0.01
Nitrobenzene	<0.01
N-Nitroso-Di-N-Propylamine	<0.01 UJ
Phenanthrene	<0.01
Pyrene	<0.01 UJ
1,2,4-Trichlorobenzene	<0.01
2,6-Dinitrotoluene	<0.01
2-Chlorophenol	<0.01
2-Nitroaniline	<0.03
Anthracene	<0.01
Chrysene	<0.01
Diethylphthalate	<0.01
Fluoranthene	<0.01
Hexachlorocyclopentadiene	<0.01
N-Nitrosodiphenylamine	<0.01
Naphthalene	<0.01
Pentachlorophenol	<0.03
Phenol	<0.01

**VOA's (mg/L): ppm unless noted**

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1,2-Dichlorobenzene	<0.01
1,3-Dichlorobenzene	<0.01
1,4-Dichlorobenzene	<0.01
Hexachlorobutadiene	<0.01
1,1,1-Trichloroethane	<0.01
1,1,2,2-Tetrachloroethane	<0.01
1,1,2-Trichloroethane	<0.01
1,1-Dichloroethane	<0.01
1,1-Dichloroethene	<0.01
1,2-Dichloroethane	<0.01
1,2-Dichloropropane	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>EH-61</b>
<b>Water</b>	SAMPLE DATE	5/12/1994
	SAMPLE TIME	17:10
	LAB	ATI
	LAB NUMBER	9405-095-9
	SAMPLE NUMBER	EHC-9405-148
	TYPE	Groundwater
	GROUP	RI
	DESCRIPTION	
	REMARKS	

**VOA's (mg/L): ppm unless noted**

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2-Butanone	<0.01
2-Hexanone	<0.01
4-Methyl-2-Pentanone	<0.01
Acetone	<0.01 UJ
Benzene	<0.01
Bromodichloromethane	<0.01
Bromoform	<0.01
Bromomethane	<0.01
Carbon Disulfide	<0.01
Carbon Tetrachloride	<0.01
Chlorobenzene	<0.01
Chloroethane	<0.01
Chloroform	<0.01
Chloromethane	<0.01
cis-1,3-Dichloropropene	<0.01
Dibromochloromethane	<0.01
Ethylbenzene	<0.01
Methylene Chloride	<0.01
Styrene	<0.01
Tetrachloroethene	<0.01
Toluene	<0.01
Total Xylene	<0.01
Trans-1,3-dichloropropene	<0.01
Trichloroethene	<0.01
Vinyl Chloride	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-61	EH-61	EH-61	EH-61	EH-61	EH-61
Water	SAMPLE DATE	5/7/1997	5/7/1997	11/7/1997	5/6/1998	11/19/1998	5/10/1999
	SAMPLE TIME	14:40	14:55	09:15	14:00	10:30	13:50
	LAB	ATI	ATI	ATI	MULTICHEM	MULTICHEM	MULTICHEM
	LAB NUMBER	705025-8	705025-2	711029-4	805027-5	811076-4	905024-3
	SAMPLE NUMBER	EHC-9705-139	EHC-9705-151	EHC-9711-135	EHC-9805-136	EHC-9811-135	EHC-9905-135
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics	<1	<1				
Gasoline Range Organics	<1	<1				
Total Petroleum Hydrocarbons	<1	<1	<1	<1	<1 UJ	<1

**Semi-VOA's (mg/L): ppm unless noted**

1,2-Dichloroethene	<0.01	<0.01
2,2'-Oxybis(1-Chloropropane)	<0.01	<0.01
2,4,5-Trichlorophenol	<0.03	<0.03
2,4,6-Trichlorophenol	<0.01	<0.01
2,4-Dichlorophenol	<0.01	<0.01
2,4-Dimethylphenol	<0.01	<0.01
2,4-Dinitrophenol	<0.03	<0.03
2,4-Dinitrotoluene	<0.01	<0.01
2-Chloronaphthalene	<0.01	<0.01
2-Methylnaphthalene	<0.01	<0.01
2-Methylphenol	<0.01	<0.01
2-Nitrophenol	<0.01	<0.01
3,3-Dichlorobenzidine	<0.01	<0.01
3-Nitroaniline	<0.03	<0.03
4,6-Dinitro-2-methylphenol	<0.03	<0.03
4-Bromophenyl Phenyl Ether	<0.01	<0.01
4-Chloro-3-methylphenol	<0.01	<0.01
4-Chloroaniline	<0.01	<0.01
4-Chlorophenyl Phenyl Ether	<0.01	<0.01
4-Methylphenol	<0.01	<0.01
4-Nitroaniline	<0.03	<0.03
4-Nitrophenol	<0.03	<0.03
Acenaphthene	<0.01	<0.01
Acenaphthylene	<0.01	<0.01
Benzo(a)anthracene	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01
Benzo(g,h,i)perylene	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01
bis(2-chloroethoxy)methane	<0.01	<0.01
bis(2-chloroethyl) Ether	<0.01	<0.01
bis(2-ethylhexyl)Phthalate	0.001	0.002
Bromoethane	<0.01	<0.01
Butyl Benzyl Phthalate	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>EH-61</b>	<b>EH-61</b>
<b>Water</b>	SAMPLE DATE	5/7/1997	5/7/1997
	SAMPLE TIME	14:40	14:55
	LAB	ATI	ATI
	LAB NUMBER	705025-8	705025-2
	SAMPLE NUMBER	EHC-9705-139	EHC-9705-151
	TYPE	Groundwater	Groundwater
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS		Field Duplicate

**Semi-VOA's (mg/L): ppm unless noted**

Carbazole	<0.01	<0.01
Dibenz(a,h)anthracene	<0.01	<0.01
Dibenzofuran	<0.01	<0.01
Dimethylphthalate	<0.01	<0.01
Di-n-Butylphthalate	<0.01	<0.01
Di-N-Octylphthalate	<0.01	<0.01
Fluorene	<0.01	<0.01
Hexachlorobenzene	<0.01	<0.01
Hexachloroethane	<0.01	<0.01
Indeno (1,2,3-cd) Pyrene	<0.01	<0.01
Isophorone	<0.01	<0.01
Nitrobenzene	<0.01	<0.01
N-Nitroso-Di-N-Propylamine	<0.01	<0.01
Phenanthrene	<0.01	<0.01
Pyrene	<0.01	<0.01
1,2,4-Trichlorobenzene	<0.01	<0.01
2,6-Dinitrotoluene	<0.01	<0.01
2-Chlorophenol	<0.01	<0.01
2-Nitroaniline	<0.03	<0.03
Anthracene	<0.01	<0.01
Chrysene	<0.01	<0.01
Diethylphthalate	<0.01	<0.01
Fluoranthene	<0.01	<0.01
Hexachlorocyclopentadiene	<0.01	<0.01
N-Nitrosodiphenylamine	<0.01	<0.01
Naphthalene	<0.01	<0.01
Pentachlorophenol	<0.03	<0.03
Phenol	<0.01	<0.01

**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene	<0.01	<0.01
1,3-Dichlorobenzene	<0.01	<0.01
1,4-Dichlorobenzene	<0.01	<0.01
Hexachlorobutadiene	<0.01	<0.01
1,1,1-Trichloroethane	<0.01	<0.01
1,1,2,2-Tetrachloroethane	<0.01	<0.01
1,1,2-Trichloroethane	<0.01	<0.01
1,1-Dichloroethane	<0.01	<0.01
1,1-Dichloroethene	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-61	EH-61
Water	SAMPLE DATE	5/7/1997	5/7/1997
	SAMPLE TIME	14:40	14:55
	LAB	ATI	ATI
	LAB NUMBER	705025-8	705025-2
	SAMPLE NUMBER	EHC-9705-139	EHC-9705-151
	TYPE	Groundwater	Groundwater
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS		Field Duplicate

**VOA's (mg/L): ppm unless noted**

1,2-Dichloroethane	<0.01	<0.01
1,2-Dichloropropane	<0.01	<0.01
2-Butanone	<0.01	<0.01
2-Hexanone	<0.01	<0.01
4-Methyl-2-Pentanone	<0.01	<0.01
Acetone	<0.01	<0.01
Benzene	<0.01	<0.01
Bromodichloromethane	<0.01	<0.01
Bromoform	<0.01	<0.01
Bromomethane	<0.01	<0.01
Carbon Disulfide	<0.01	<0.01
Carbon Tetrachloride	<0.01	<0.01
Chlorobenzene	<0.01	<0.01
Chloroethane	<0.01	<0.01
Chloroform	<0.01	<0.01
Chloromethane	<0.01	<0.01
cis-1,3-Dichloropropene	<0.01	<0.01
Dibromochloromethane	<0.01	<0.01
Ethylbenzene	<0.01	<0.01
Methylene Chloride	<0.01	<0.01
Styrene	<0.01	<0.01
Tetrachloroethene	<0.01	<0.01
Toluene	<0.01	<0.01
Total Xylene	<0.01	<0.01
Trans-1,3-dichloropropene	<0.01	<0.01
Trichloroethene	<0.01	<0.01
Vinyl Chloride	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-61	EH-61	EH-61	EH-61	EH-62
Water	SAMPLE DATE	11/11/1999	5/3/2000	11/8/2000	5/10/2001	12/13/1988
	SAMPLE TIME	11:10	11:30	10:20	12:40	00:00
	LAB	MULTICHEM	ENERGY	ENERGY	EL	TSC-SLC
	LAB NUMBER	911050-3	00-53528-6	00-90952-6	60190487	89-17
	SAMPLE NUMBER	EHC-9911-151	EHC-0005-150	EHC-0011-151	EHC-0105-177	AEH-8812-171
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics		<0.5	<0.5	<0.5	
Diesel Range Organics as Diesel		<0.5	<0.5	<0.5	
Gasoline Range Organics		<0.02	<0.02 J	<0.02	
Gasoline Range Organics as Gas		<0.02	<0.02 J	<0.02	
Total Extractable Hydrocarbons		<0.5	<0.5	<0.5	
Total Petroleum Hydrocarbons	<1 UJ	<0.1	<0.1	<0.1	0.2
Total Purgeable Hydrocarbons		<0.02	<0.02	<0.02	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-62	EH-62	EH-62	EH-62	EH-62	EH-62
Water	SAMPLE DATE	10/17/1989	4/27/1990	11/30/1990	5/6/1991	11/13/1991	4/23/1992
	SAMPLE TIME	00:00	00:00	00:00	00:00	16:30	10:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-812	90-1052	90-2250	91-2675	91-3620	92-4298
	SAMPLE NUMBER	AEH-8910-450	AEH-9005-450	AEH-9011-753	AEH-9105-132	AEH-9111-325	AEH-9204-119
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Hydrocarbon (mg/L): ppm unless noted**

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Total Petroleum Hydrocarbons	0.05	<1	<1	<1	<1	<1
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-62	EH-62	EH-62	EH-62	EH-62	EH-62
Water	SAMPLE DATE	11/12/1992	5/4/1993	11/8/1993	11/8/1993	5/10/1994	11/10/1994
	SAMPLE TIME	14:30	08:30	09:00	10:30	15:40	13:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	92-6777	93-7771	93-9204	93-9200	94-1340	94-3275
	SAMPLE NUMBER	EHC-9211-118	EHC-9305-138	EHC-9311-167	EHC-9311-145	EHC-9405-149	EHC-9411-151
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			
	<b>Hydrocarbon (mg/L): ppm unless noted</b>						
Total Petroleum Hydrocarbons	<1	<1	<1	<1	<1	<1	<1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-62	EH-62	EH-62	EH-62	EH-62	EH-62
Water	SAMPLE DATE	5/9/1995	11/8/1995	5/8/1996	11/7/1996	11/7/1996	5/5/1997
	SAMPLE TIME	14:30	09:00	13:00	13:45	14:00	14:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-4489	95-6100	96-6717	96-7765	96-7753	97-918
	SAMPLE NUMBER	EHC-9505-150	EHC-9511-151	EHC-9605-136	EHC-9611-136	EHC-9611-148	EHC-9705-133
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Hydrocarbon (mg/L): ppm unless noted</b>							
	Total Petroleum Hydrocarbons	<1	<1	<1	<1	<1	<1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable  
**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-62	EH-62	EH-62	EH-62	EH-62	EH-62
Water	SAMPLE DATE	5/5/1997	11/5/1997	11/5/1997	5/6/1998	11/18/1998	5/8/1999
	SAMPLE TIME	14:15	12:30	12:45	10:50	09:15	10:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	97-925	188-2687	188-2699	261-3771	310-4411	346-4885
	SAMPLE NUMBER	EHC-9705-146	EHC-9711-136	EHC-9711-150	EHC-9805-137	EHC-9811-136	EHC-9905-136
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI	RI
	REMARKS	Field Duplicate		Field Duplicate			

**Hydrocarbon (mg/L): ppm unless noted**

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Total Petroleum Hydrocarbons	<1	<1	<1	<1	<1 UJ	<1
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-62	EH-62	EH-62	EH-62	EH-62
Water	SAMPLE DATE	11/10/1999	11/10/1999	5/2/2000	11/7/2000	5/9/2001
	SAMPLE TIME	12:15	12:30	11:35	12:15	15:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L992009001	L992009008	L000704004	L001873010	L010691011
	SAMPLE NUMBER	EHC-9911-152	EHC-9911-172	EHC-0005-151	EHC-0011-152	EHC-0105-178
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Field Duplicate			

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics				<0.5	<0.5
Diesel Range Organics as Diesel				<0.5	<0.5
Gasoline Range Organics				<0.02 J	<0.02
Gasoline Range Organics as Gas				<0.02 J	<0.02
Total Extractable Hydrocarbons				<0.5	<0.5
Total Petroleum Hydrocarbons	<0.9 UJ	<1 UJ	<0.1	<0.1	<0.1
Total Purgeable Hydrocarbons				<0.02	<0.02

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-12	DH-12	DH-12	DH-12	DH-12	DH-12
Water	SAMPLE DATE	6/9/1987	8/17/1987	10/18/1989	11/21/1991	11/21/1992	5/6/1993
	SAMPLE TIME	00:00	00:00	00:00	12:00	14:00	09:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-4201	87-6876	89-813	91-3885	92-6807	93-7834
	SAMPLE NUMBER	AEH-8706-12	AEH-8708-01	AEH-8910-460	AEH-9111-349	EHC-9211-151	EHC-9305-159
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						
<b>Hydrocarbon (mg/L): ppm unless noted</b>							
	Total Petroleum Hydrocarbons			0.5	2.3	<1	<1
<b>Other: ppm unless noted</b>							
	Oil & Grease	5	4.6				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-12	DH-12	DH-12	DH-12	DH-12	DH-12
Water	SAMPLE DATE	11/12/1993	5/12/1994	11/18/1994	5/16/1995	11/14/1995	5/14/1996
	SAMPLE TIME	11:00	11:20	10:30	12:00	09:30	14:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-9270	94-1382	94-3385	95-4510	95-6141	96-6772
	SAMPLE NUMBER	EHC-9311-109	EHC-9405-115	EHC-9411-115	EHC-9505-115	EHC-9511-116	EHC-9605-104
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics				<1		2
Gasoline Range Organics				<1		<1
Total Petroleum Hydrocarbons	<1	<1	<1	<1	<1	<1

**Semi-VOA's (mg/L): ppm unless noted**

1,2-Dichloroethene				<0.01		<0.01
1,2-Diphenylhydrazine				<0.01		
2,2'-Oxybis(1-Chloropropane)						<0.01
2,4,5-Trichlorophenol				<0.05		<0.03
2,4,6-Trichlorophenol				<0.01		<0.01
2,4-Dichlorophenol				<0.01		<0.01
2,4-Dimethylphenol				<0.01		<0.01
2,4-Dinitrophenol				<0.05		<0.03
2,4-Dinitrotoluene				<0.01		<0.01
2-Chloronaphthalene				<0.01		<0.01
2-Methylnaphthalene				<0.01		<0.01
2-Methylphenol				<0.01		<0.01
2-Nitrophenol				<0.01		<0.01
3,3-Dichlorobenzidine				<0.02		<0.01
3-Nitroaniline				<0.05		<0.03
4,6-Dinitro-2-methylphenol				<0.05		<0.03
4-Bromophenyl Phenyl Ether				<0.01		<0.01
4-Chloro-3-methylphenol				<0.02		<0.01
4-Chloroaniline				<0.04		<0.01
4-Chlorophenyl Phenyl Ether				<0.01		<0.01
4-Methylphenol				<0.01		<0.01
4-Nitroaniline				<0.02		<0.03
4-Nitrophenol				<0.05		<0.03
Acenaphthene				<0.01		<0.01
Acenaphthylene				<0.01		<0.01
Benzdine				<0.02		
Benzo(a)anthracene				<0.01		<0.01
Benzo(a)pyrene				<0.01		<0.01
Benzo(b)fluoranthene				<0.01		<0.01
Benzo(g,h,i)perylene				<0.01		<0.01
Benzo(k)fluoranthene				<0.01		<0.01
Benzoic Acid				<0.1		
Benzyl Alcohol				<0.04		
bis(2-chloroethoxy)methane				<0.01		<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-12	DH-12
Water	SAMPLE DATE	5/16/1995	5/14/1996
	SAMPLE TIME	12:00	14:00
	LAB	TSC-SLC	TSC-SLC
	LAB NUMBER	95-4510	96-6772
	SAMPLE NUMBER	EHC-9505-115	EHC-9605-104
	TYPE	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW
	DESCRIPTION		
	REMARKS		

**Semi-VOA's (mg/L): ppm unless noted**

bis(2-chloroethyl) Ether	<0.01	<0.01
bis(2-chloroisopropyl) Ether	<0.01	
bis(2-ethylhexyl)Phthalate	<0.01	0.001
Butyl Benzyl Phthalate	<0.01	<0.01
Carbazole	<0.01	<0.01
Dibenz(a,h)anthracene	<0.01	<0.01
Dibenzofuran	<0.01	0.001
Dimethylphthalate	<0.01	<0.01
Di-n-Butylphthalate	<0.01	<0.01
Di-N-Octylphthalate	<0.01	<0.01
Fluorene	<0.01	<0.01
Hexachlorobenzene	<0.01	<0.01
Hexachloroethane	<0.01	<0.01
Indeno (1,2,3-cd) Pyrene	<0.01	<0.01
Isophorone	<0.01	<0.01
Nitrobenzene	<0.01	<0.01
N-Nitroso-Di-N-Propylamine	<0.01	<0.01
Phenanthrene	<0.01	<0.01
Pyrene	<0.01	<0.01
Pyridine	<0.01	
1,2,4-Trichlorobenzene	<0.01	<0.01
2,6-Dinitrotoluene	<0.01	<0.01
2-Chlorophenol	<0.01	<0.01
2-Nitroaniline	<0.05	<0.03
Aniline	<0.01	
Anthracene	<0.01	<0.01
Chrysene	<0.01	<0.01
Diethylphthalate	<0.01	<0.01
Fluoranthene	<0.01	<0.01
Hexachlorocyclopentadiene	<0.01	<0.01
N-Nitrosodimethylamine	<0.01	
N-Nitrosodiphenylamine	<0.01	<0.01
Naphthalene	<0.01	0.001
Pentachlorophenol	<0.05	<0.03
Phenol	<0.01	<0.01

**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene	<0.01	<0.01
1,3-Dichlorobenzene	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>DH-12</b>	<b>DH-12</b>
Water	SAMPLE DATE	5/16/1995	5/14/1996
	SAMPLE TIME	12:00	14:00
	LAB	TSC-SLC	TSC-SLC
	LAB NUMBER	95-4510	96-6772
	SAMPLE NUMBER	EHC-9505-115	EHC-9605-104
	TYPE	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW
	DESCRIPTION		
	REMARKS		

**VOA's (mg/L): ppm unless noted**

1,4-Dichlorobenzene	<0.01	<0.01
Hexachlorobutadiene	<0.01	<0.01
1,1,1-Trichloroethane	<0.01	<0.01
1,1,2,2-Tetrachloroethane	<0.01	<0.01
1,1,2-Trichloroethane	<0.01	<0.01
1,1-Dichloroethane	<0.01	<0.01
1,1-Dichloroethene	<0.01	<0.01
1,2-Dichloroethane	<0.01	<0.01
1,2-Dichloropropane	<0.01	<0.01
2-Butanone	<0.01	<0.01
2-Hexanone	<0.01	<0.01
4-Methyl-2-Pentanone	<0.01	<0.01
Acetone	<0.01	<0.01
Benzene	<0.01	<0.01
Bromodichloromethane	<0.01	<0.01
Bromoform	<0.01	<0.01
Bromomethane	<0.01	<0.01
Carbon Disulfide	<0.01	0.001
Carbon Tetrachloride	<0.01	<0.01
Chlorobenzene	<0.01	<0.01
Chloroethane	<0.01	<0.01
Chloroform	<0.01	<0.01
Chloromethane	<0.01	<0.01
cis-1,3-Dichloropropene	<0.01	<0.01
Dibromochloromethane	<0.01	<0.01
Ethylbenzene	<0.01	<0.01
Methylene Chloride	<0.01	0.002
Styrene	<0.01	<0.01
Tetrachloroethene	<0.01	<0.01
Toluene	<0.01	<0.01
Total Xylene	<0.01	<0.01
Trans-1,3-dichloropropene	<0.01	<0.01
Trichloroethene	<0.01	<0.01
Vinyl Chloride	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-12	DH-12	DH-12	DH-12	DH-12	DH-12
Water	SAMPLE DATE	11/12/1996	5/7/1997	11/5/1997	5/7/1998	11/19/1998	11/19/1998
	SAMPLE TIME	13:00	13:00	16:00	11:30	17:25	17:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-7784	97-934	187-2682	260-3751	312-4438	312-4444
	SAMPLE NUMBER	EHC-9611-104	EHC-9705-104	EHC-9711-104	EHC-9805-105	EHC-9811-104	EHC-9811-151
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						Field Duplicate

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics	<1
Gasoline Range Organics	<1
Total Petroleum Hydrocarbons	<1      2.7      <1      2.7      4.7 J      2.8 UJ

**Semi-VOA's (mg/L): ppm unless noted**

1,2-Dichloroethene	<0.01
2,2'-Oxybis(1-Chloropropane)	<0.01
2,4,5-Trichlorophenol	<0.03
2,4,6-Trichlorophenol	<0.01
2,4-Dichlorophenol	<0.01
2,4-Dimethylphenol	<0.01
2,4-Dinitrophenol	<0.03
2,4-Dinitrotoluene	<0.01
2-Chloronaphthalene	<0.01
2-Methylnaphthalene	<0.01
2-Methylphenol	<0.01
2-Nitrophenol	<0.01
3,3-Dichlorobenzidine	<0.01
3-Nitroaniline	<0.03
4,6-Dinitro-2-methylphenol	<0.03
4-Bromophenyl Phenyl Ether	<0.01
4-Chloro-3-methylphenol	<0.01
4-Chloroaniline	<0.01
4-Chlorophenyl Phenyl Ether	<0.01
4-Methylphenol	<0.01
4-Nitroaniline	<0.03
4-Nitrophenol	<0.03
Acenaphthene	0.001
Acenaphthylene	<0.01
Benzo(a)anthracene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(g,h,i)perylene	<0.01
Benzo(k)fluoranthene	<0.01
bis(2-chloroethoxy)methane	<0.01
bis(2-chloroethyl) Ether	<0.01
bis(2-ethylhexyl)Phthalate	0.02
Butyl Benzyl Phthalate	<0.01
Carbazole	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>DH-12</b>
<b>Water</b>	SAMPLE DATE	5/7/1997
	SAMPLE TIME	13:00
	LAB	TSC-SLC
	LAB NUMBER	97-934
	SAMPLE NUMBER	EHC-9705-104
	TYPE	Groundwater
	GROUP	RI/SLW
	DESCRIPTION	
	REMARKS	

**Semi-VOA's (mg/L): ppm unless noted**

---

Dibenz(a,h)anthracene	<0.01
Dibenzofuran	0.001
Dimethylphthalate	<0.01
Di-n-Butylphthalate	<0.01
Di-N-Octylphthalate	<0.01
Fluorene	<0.01
Hexachlorobenzene	<0.01
Hexachloroethane	<0.01
Indeno (1,2,3-cd) Pyrene	<0.01
Isophorone	<0.01
Nitrobenzene	<0.01
N-Nitroso-Di-N-Propylamine	<0.01
Phenanthrene	<0.01
Pyrene	<0.01
1,2,4-Trichlorobenzene	<0.01
2,6-Dinitrotoluene	<0.01
2-Chlorophenol	<0.01
2-Nitroaniline	<0.03
Anthracene	<0.01
Chrysene	<0.01
Diethylphthalate	<0.01
Fluoranthene	<0.01
Hexachlorocyclopentadiene	<0.01
N-Nitrosodiphenylamine	<0.01
Naphthalene	<0.01
Pentachlorophenol	<0.03
Phenol	<0.01

**VOA's (mg/L): ppm unless noted**

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1,2-Dichlorobenzene	<0.01
1,3-Dichlorobenzene	<0.01
1,4-Dichlorobenzene	<0.01
Hexachlorobutadiene	<0.01
1,1,1-Trichloroethane	<0.01
1,1,2,2-Tetrachloroethane	<0.01
1,1,2-Trichloroethane	<0.01
1,1-Dichloroethane	<0.01
1,1-Dichloroethene	<0.01
1,2-Dichloroethane	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>DH-12</b>
<b>Water</b>	SAMPLE DATE	5/7/1997
	SAMPLE TIME	13:00
	LAB	TSC-SLC
	LAB NUMBER	97-934
	SAMPLE NUMBER	EHC-9705-104
	TYPE	Groundwater
	GROUP	RI/SLW
	DESCRIPTION	
	REMARKS	

**VOA's (mg/L): ppm unless noted**

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1,2-Dichloropropane	<0.01
2-Butanone	<0.01
2-Hexanone	<0.01
4-Methyl-2-Pentanone	<0.01
Acetone	<0.01
Benzene	<0.01
Bromodichloromethane	<0.01
Bromoform	<0.01
Bromomethane	<0.01
Carbon Disulfide	<0.01
Carbon Tetrachloride	<0.01
Chlorobenzene	<0.01
Chloroethane	<0.01
Chloroform	0.01
Chloromethane	<0.01
cis-1,3-Dichloropropene	<0.01
Dibromochloromethane	<0.01
Ethylbenzene	<0.01
Methylene Chloride	<0.01
Styrene	<0.01
Tetrachloroethene	<0.01
Toluene	<0.01
Total Xylene	<0.01
Trans-1,3-dichloropropene	<0.01
Trichloroethene	<0.01
Vinyl Chloride	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-12	DH-12	DH-13	DH-13	DH-13
Water	SAMPLE DATE	5/11/1999	11/12/1999	8/17/1987	12/22/1988	10/18/1989
	SAMPLE TIME	09:45	09:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	LKS	TSC-SLC	TSC-SLC
	LAB NUMBER	347-4897	L992007004	5556	89-53	89-819
	SAMPLE NUMBER	EHC-9905-104	EHC-9911-115	AEH-8708-71	AEH-8812-132	AEH-8910-411
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS					

**Hydrocarbon (mg/L): ppm unless noted**

C10-C32 Fuel Hydrocarbons						<0.5 J
Chlorohydrocarbon						0.01
Diesel Range Organics			<4		<1	
Gasoline Range Organics			<1		<1	
Total Petroleum Hydrocarbons	2.4		<1		<0.05	0.1

**Other: ppm unless noted**

Oil & Grease				2	0.01	
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**PCB's (mg/L): ppm unless noted**

LY CHLORINATED BIPHENYLS (PCBS)						0.009
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**Semi-VOA's (mg/L): ppm unless noted**

1,2-Dichloroethene						<0.005
2,4,5-Trichlorophenol					<0.05	<0.05
2,4,6-Trichlorophenol					<0.01	<0.01
2,4-Dichlorophenol					<0.01	<0.01
2,4-Dimethylphenol					<0.01	<0.01
2,4-Dinitrophenol					<0.05	<0.05
2,4-Dinitrotoluene					<0.01 UJ	<0.01
2-Chloronaphthalene					<0.01	<0.01
2-Methylnaphthalene					<0.01 R	<0.01
2-Methylphenol					<0.01 UJ	<0.01
2-Nitrophenol					<0.01	<0.01
3,3-Dichlorobenzidine					<0.02 UJ	<0.02
3-Nitroaniline					<0.05 R	<0.05
4,6-Dinitro-2-methylphenol					<0.05	<0.05
4-Bromophenyl Phenyl Ether					<0.01	<0.01
4-Chloro-3-methylphenol					<0.01	<0.01
4-Chloroaniline					<0.01 UJ	<0.01
4-Chlorophenyl Phenyl Ether					<0.01	<0.01
4-Methylphenol					<0.01	<0.01
4-Nitroaniline					<0.05 R	<0.05
4-Nitrophenol					<0.05 UJ	<0.05
Acenaphthene					<0.01	<0.01
Acenaphthylene					<0.01	<0.01
Benzidine					<0.1 R	
Benzo(a)anthracene					<0.01	<0.01
Benzo(a)pyrene					<0.01	<0.01
Benzo(b)fluoranthene					<0.01	<0.01
Benzo(b)thiophene					0.03	0.02
Benzo(g,h,i)perylene					<0.01	<0.01
Benzo(k)fluoranthene					<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13
Water	SAMPLE DATE	12/22/1988	10/18/1989
	SAMPLE TIME	00:00	00:00
	LAB	TSC-SLC	TSC-SLC
	LAB NUMBER	89-53	89-819
	SAMPLE NUMBER	AEH-8812-132	AEH-8910-411
	TYPE	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW
	DESCRIPTION		
	REMARKS		

**Semi-VOA's (mg/L): ppm unless noted**

Benzoic Acid	<0.05	<0.05
Benzyl Alcohol	<0.01	<0.01
bis(2-chloroethoxy)methane	<0.01	<0.01
bis(2-chloroethyl) Ether	<0.01	<0.01
bis(2-chloroisopropyl) Ether	<0.01 UJ	<0.01
bis(2-ethylhexyl)Phthalate	<0.01	<0.01
Branched Naphthalene	0.01	
Butyl Benzyl Phthalate	<0.01	<0.01
Dibenz(a,h)anthracene	<0.01	<0.01
Dibenzofuran	<0.01	<0.01
Dihydrobenzo(b)thiophene	0.01	0.009
Dimethylnaphthalene		0.007
Dimethylphthalate	<0.01	<0.01
Di-n-Butylphthalate	<0.01	<0.01
Di-N-Octylphthalate	<0.01	<0.01
Fluorene	<0.01	<0.01
Hexachlorobenzene	<0.01 UJ	<0.01
Hexachloroethane	<0.01	<0.01
Indeno (1,2,3-cd) Pyrene	<0.01	<0.01
Isochlorone	<0.01 UJ	<0.01
Nitrobenzene	<0.01 UJ	<0.01
N-Nitroso-Di-N-Propylamine	<0.01 UJ	<0.01
Phenanthrene	<0.01	<0.01
Pyrene	<0.01	<0.01
1,2,4-Trichlorobenzene	<0.01	<0.01
2,6-Dinitrotoluene	<0.01 UJ	<0.01
2-Chlorophenol	<0.01	<0.01
2-Nitroaniline	<0.05 UJ	<0.05
Aniline	<0.01 UJ	
Anthracene	<0.01	<0.01
Chrysene	<0.01	<0.01
Diethylphthalate	<0.01	<0.01
Fluoranthene	<0.01	<0.01
Hexachlorocyclopentadiene	<0.01	<0.01
N-Nitrosodimethylamine	<0.01 UJ	
N-Nitrosodiphenylamine	<0.01 UJ	<0.01
Naphthalene	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13
Water	SAMPLE DATE	12/22/1988	10/18/1989
	SAMPLE TIME	00:00	00:00
	LAB	TSC-SLC	TSC-SLC
	LAB NUMBER	89-53	89-819
	SAMPLE NUMBER	AEH-8812-132	AEH-8910-411
	TYPE	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW
	DESCRIPTION		
	REMARKS		

  

Semi-VOA's (mg/L): ppm unless noted			
	Pentachlorophenol	<0.05	<0.05
	Phenol	<0.01	<0.01

  

VOA's (mg/L): ppm unless noted			
	1,2-Dichlorobenzene	<0.01	<0.01
	1,3-Dichlorobenzene	<0.01	<0.01
	1,4-Dichlorobenzene	<0.01 UJ	<0.01
	Hexachlorobutadiene	<0.01	<0.01
	1,1,1-Trichloroethane		<0.005
	1,1,2,2-Tetrachloroethane		<0.005
	1,1,2-Trichloroethane		<0.005
	1,1-Dichloroethane		<0.005
	1,1-Dichloroethene		<0.005
	1,2-Dichloroethane		<0.005
	1,2-Dichloropropane		<0.005
	2-Butanone		<0.01
	2-Hexanone		<0.01
	4-Methyl-2-Pentanone		<0.01
	Acetone		0.03
	Benzene		<0.005
	Branched Benzene		0.005
	Bromodichloromethane		<0.005
	Bromoform		<0.005
	Bromomethane		<0.01
	Carbon Disulfide		<0.005
	Carbon Tetrachloride		<0.005
	Chlorobenzene		<0.005
	Chloroethane		<0.01
	Chloroform		<0.005
	Chloromethane		<0.01
	cis-1,3-Dichloropropene		<0.005
	Dibromochloromethane		<0.005
	Ethylbenzene		<0.005
	Methylene Chloride		0.003
	Styrene		<0.005
	Tetrachloroethene		<0.005
	Toluene		<0.005
	Total Xylene		<0.005
	Trans-1,3-dichloropropene		<0.005

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13
Water	SAMPLE DATE	10/18/1989
	SAMPLE TIME	00:00
	LAB	TSC-SLC
	LAB NUMBER	89-819
	SAMPLE NUMBER	AEH-8910-411
	TYPE	Groundwater
	GROUP	RI/SLW
	DESCRIPTION	
	REMARKS	

**VOA's (mg/L): ppm unless noted**

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Trichloroethene	<0.005
Vinyl Acetate	<0.01
Vinyl Chloride	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13	DH-13	DH-13	DH-13	DH-13
Water	SAMPLE DATE	5/1/1990	12/6/1990	5/9/1991	11/21/1991	4/29/1992	11/21/1992
	SAMPLE TIME	00:00	00:00	00:00	13:00	11:30	15:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	90-1061	90-2257	91-2817	91-3883	92-4355	92-6808
	SAMPLE NUMBER	AEH-9005-411	AEH-9011-718	AEH-9105-149	AEH-9111-339	AEH-9204-129	EHC-9211-155
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Hydrocarbon (mg/L): ppm unless noted**

Alkane	0.01					
Diesel Range Organics	<1		<1		<1	
Gasoline Range Organics	<1		3		<1	
Total Petroleum Hydrocarbons	<1	<1	5	<1	<1	<1

**Semi-VOA's (mg/L): ppm unless noted**

1,2-Dichloroethene	<0.005		<0.005 J		<0.005 UJ	
2,4,5-Trichlorophenol	<0.05		<0.05		<0.05	
2,4,6-Trichlorophenol	<0.01		<0.01		<0.01	
2,4-Dichlorophenol	<0.01		<0.01		<0.01	
2,4-Dimethylphenol	<0.01		0.005		0.003	
2,4-Dinitrophenol	<0.05		<0.05		<0.05	
2,4-Dinitrotoluene	<0.01		<0.01		<0.01	
2-Chloronaphthalene	<0.01		<0.01		<0.01	
2-Methylnaphthalene	<0.01		0.003		0.002	
2-Methylphenol	<0.01		<0.01		<0.01	
2-Nitrophenol	<0.01		<0.01		<0.01	
3,3-Dichlorobenzidine	<0.02		<0.02		<0.02	
3-Nitroaniline	<0.05		<0.05		<0.05	
4,6-Dinitro-2-methylphenol	<0.05		<0.05		<0.05	
4-Bromophenyl Phenyl Ether	<0.01		<0.01		<0.01	
4-Chloro-3-methylphenol	<0.01		<0.01		<0.01	
4-Chloroaniline	<0.01		<0.01		<0.01	
4-Chlorophenyl Phenyl Ether	<0.01		<0.01		<0.01	
4-Methylphenol	<0.01		0.005		<0.01	
4-Nitroaniline	<0.05		<0.05		<0.05	
4-Nitrophenol	<0.05		<0.05		<0.05	
Acenaphthene	<0.01		<0.01		<0.01	
Acenaphthylene	<0.01		<0.01		<0.01	
Benzo(a)anthracene	<0.01		<0.01		<0.01	
Benzo(a)pyrene	<0.01		<0.01		<0.01	
Benzo(b)fluoranthene	<0.01		<0.01		<0.01	
Benzo(b)thiophene	0.02					
Benzo(g,h,i)perylene	<0.01		<0.01		<0.01	
Benzo(k)fluoranthene	<0.01		<0.01		<0.01	
Benzoic Acid	<0.05		<0.05		<0.05	
Benzyl Alcohol	<0.01		<0.01		<0.01	
bis(2-chloroethoxy)methane	<0.01		<0.01		<0.01	
bis(2-chloroethyl) Ether	<0.01		<0.01		<0.01	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13	DH-13
Water	SAMPLE DATE	5/1/1990	5/9/1991	4/29/1992
	SAMPLE TIME	00:00	00:00	11:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	90-1061	91-2817	92-4355
	SAMPLE NUMBER	AEH-9005-411	AEH-9105-149	AEH-9204-129
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION			
	REMARKS			

**Semi-VOA's (mg/L): ppm unless noted**

bis(2-chloroisopropyl) Ether	<0.01	<0.01	<0.01
bis(2-ethylhexyl)Phthalate	<0.01	<0.01 U	0.01
Butyl Benzyl Phthalate	<0.01	<0.01	<0.01
Cyclohexanone	0.01		
Dibenz(a,h)anthracene	<0.01	<0.01	<0.01
Dibenzofuran	<0.01	<0.01	<0.01
Dimethylphthalate	<0.01	<0.01	<0.01
Di-n-Butylphthalate	<0.01	<0.01	<0.01
Di-N-Octylphthalate	<0.01	<0.01	<0.01
Fluorene	<0.01	<0.01	<0.01
Hexachlorobenzene	<0.01	<0.01	<0.01
Hexachloroethane	<0.01	<0.01	<0.01
Indeno (1,2,3-cd) Pyrene	<0.01	<0.01	<0.01
Isophorone	<0.01	<0.01	<0.01
Nitrobenzene	<0.01	<0.01	<0.01
N-Nitroso-Di-N-Propylamine	<0.01	<0.01	<0.01
Phenanthrene	<0.01	0.002	0.002
Pyrene	<0.01	<0.01	<0.01
1,2,4-Trichlorobenzene	<0.01	<0.01	<0.01
2,6-Dinitrotoluene	<0.01	<0.01	<0.01
2-Chlorophenol	<0.01	<0.01	<0.01
2-Nitroaniline	<0.05	<0.05	<0.05
Anthracene	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01
Diethylphthalate	<0.01	0.005	<0.01
Fluoranthene	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene	<0.01	<0.01	<0.01
N-Nitrosodiphenylamine	<0.01	<0.01	<0.01
Naphthalene	<0.01	<0.01	<0.01
Pentachlorophenol	<0.05	<0.05	<0.05
Phenol	<0.01	<0.01	<0.01

**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene	<0.01	<0.01	<0.01
1,3-Dichlorobenzene	<0.01	<0.01	<0.01
1,4-Dichlorobenzene	<0.01	<0.01	<0.01
Hexachlorobutadiene	<0.01	<0.01	<0.01
1,1,1-Trichloroethane	<0.005	<0.005 J	<0.005 UJ
1,1,2,2-Tetrachloroethane	<0.005	<0.005 J	<0.005 UJ

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13	DH-13
Water	SAMPLE DATE	5/1/1990	5/9/1991	4/29/1992
	SAMPLE TIME	00:00	00:00	11:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	90-1061	91-2817	92-4355
	SAMPLE NUMBER	AEH-9005-411	AEH-9105-149	AEH-9204-129
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION			
	REMARKS			

**VOA's (mg/L): ppm unless noted**

1,1,2-Trichloroethane	<0.005	<0.005 J	<0.005 UJ
1,1-Dichloroethane	<0.005	<0.005 J	<0.005 UJ
1,1-Dichloroethene	<0.005	<0.005 J	<0.005 UJ
1,2-Dichloroethane	<0.005	<0.005 J	<0.005 UJ
1,2-Dichloropropane	<0.005	<0.005 J	<0.005 UJ
2-Butanone	0.04	5.5 J	<0.01 UJ
2-Hexanone	<0.01	<0.01 J	<0.01 UJ
4-Methyl-2-Pentanone	<0.01	<0.01 J	<0.01 UJ
Acetone	<0.01	<0.07 JU	<0.01 UJ
Benzene	<0.005	<0.005 J	<0.005 UJ
Bromodichloromethane	<0.005	<0.005 J	<0.005 UJ
Bromoform	<0.005	<0.005 J	<0.005 UJ
Bromomethane	<0.01	<0.01 J	<0.01 UJ
Carbon Disulfide	<0.005	<0.005 J	<0.005 UJ
Carbon Tetrachloride	<0.005	<0.005 J	<0.005 UJ
Chlorobenzene	<0.005	<0.005 J	<0.005 UJ
Chloroethane	<0.01	<0.01 J	<0.01 UJ
Chloroform	<0.005	<0.005 J	<0.005 UJ
Chloromethane	<0.01	<0.01 J	<0.01 UJ
cis-1,3-Dichloropropene	<0.005	<0.005 J	<0.005 UJ
Dibromochloromethane	<0.005	<0.005 J	<0.005 UJ
Ethylbenzene	<0.005	<0.005 J	<0.005 UJ
m-Xylene	<0.005		
Methylene Chloride	<0.005	<0.005 JU	0.001 J
Styrene	<0.005	<0.005 J	<0.005 UJ
Tetrachloroethene	<0.005	<0.005 J	<0.005 UJ
Toluene	<0.005	<0.005 J	<0.005 UJ
Total Xylene	<0.005	<0.005 J	<0.005 UJ
Trans-1,3-dichloropropene	<0.005	<0.005 J	<0.005 UJ
Trichloroethene	<0.005	<0.005 J	<0.005 UJ
Vinyl Acetate	<0.01	<0.01 J	<0.01 UJ
Vinyl Chloride	<0.01	<0.01 J	<0.01 UJ

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13	DH-13	DH-13	DH-13	DH-13
Water	SAMPLE DATE	5/6/1993	5/6/1993	11/12/1993	5/12/1994	5/12/1994	11/18/1994
	SAMPLE TIME	10:00	13:40	10:20	07:15	12:20	12:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-7835	93-7837	93-9271	94-1387	94-1383	94-3386
	SAMPLE NUMBER	EHC-9305-160	EHC-9305-162	EHC-9311-110	EHC-9405-179	EHC-9405-116	EHC-9411-116
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		
<b>Hydrocarbon (mg/L): ppm unless noted</b>							
	Diesel Range Organics	<1	<1		<1	<1	
	Gasoline Range Organics	<1	<1		<1	<1	
	Total Petroleum Hydrocarbons	<1	<1	<1	<1	<1	<1
<b>Semi-VOA's (mg/L): ppm unless noted</b>							
	1(3H)-Isobenzofuranone		0.008 J				
	1,2-Benzenedicarbonitrile		0.01 J				
	1,2-Dichloroethene				<0.01	<0.01	
	1,3-Dimethylnaphthalene		0.007 J				
	1,4-Dimethylnaphthalene		0.007 J				
	2,2'-Oxybis(1-Chloropropane)	<0.01	<0.01		<0.01 UJ	<0.01 UJ	
	2,3-Dihyd Benzo(B)Thiophene		0.005 J				
	2,3-Dimethylphenol		0.01 J				
	2,4,5-Trichlorophenol	<0.03	<0.03		<0.03	<0.03	
	2,4,6-Trichlorophenol	<0.01	<0.01		<0.01	<0.01	
	2,4-Dichlorophenol	<0.01	<0.01		<0.01	<0.01	
	2,4-Dimethylphenol	<0.01	0.01		<0.01	<0.01	
	2,4-Dinitrophenol	<0.03	<0.03 UJ		<0.03 UJ	<0.03 UJ	
	2,4-Dinitrotoluene	<0.01	<0.01		<0.01	<0.01	
	2-Chloronaphthalene	<0.01	<0.01		<0.01	<0.01	
	2-Methylnaphthalene	0.002	0.001		0.002	0.002	
	2-Methylphenol	0.02	0.02		0.002	0.002	
	2-Nitrophenol	<0.01	<0.01		<0.01	<0.01	
	3,3-Dichlorobenzidine	<0.01	<0.01		<0.01	<0.01	
	3-Nitroaniline	<0.03	<0.03		<0.03	<0.03	
	4,6-Dinitro-2-methylphenol	<0.03	<0.03		<0.03	<0.03	
	4-Bromophenyl Phenyl Ether	<0.01	<0.01		<0.01	<0.01	
	4-Chloro-3-methylphenol	<0.01	<0.01		<0.01	<0.01	
	4-Chloroaniline	<0.01	<0.01		<0.01	<0.01	
	4-Chlorophenyl Phenyl Ether	<0.01	<0.01		<0.01	<0.01	
	4-Methylphenol	0.05	0.04		0.002	0.001	
	4-Nitroaniline	<0.03	<0.03		<0.03	<0.03	
	4-Nitrophenol	<0.03 UJ	<0.03		<0.03	<0.03	
	Acenaphthene	<0.01	<0.01		<0.01	<0.01	
	Acenaphthylene	<0.01	<0.01		<0.01	<0.01	
	Benzo(a)anthracene	<0.01	<0.01		<0.01	<0.01	
	Benzo(a)pyrene	<0.01	<0.01		<0.01	<0.01	
	Benzo(b)fluoranthene	<0.01	<0.01		<0.01	<0.01	
	Benzo(g,h,i)perylene	<0.01	<0.01		<0.01	<0.01	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13	DH-13	DH-13
Water	SAMPLE DATE	5/6/1993	5/6/1993	5/12/1994	5/12/1994
	SAMPLE TIME	10:00	13:40	07:15	12:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-7835	93-7837	94-1387	94-1383
	SAMPLE NUMBER	EHC-9305-160	EHC-9305-162	EHC-9405-179	EHC-9405-116
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION				
	REMARKS		Field Duplicate	Field Duplicate	

**Semi-VOA's (mg/L): ppm unless noted**

Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01
Benothiazole		0.01 J		
bis(2-chloroethoxy)methane	<0.01	<0.01	<0.01	<0.01
bis(2-chloroethyl) Ether	<0.01	<0.01	<0.01	<0.01
bis(2-ethylhexyl)Phthalate	0.002	0.003 J	<0.01 UJ	<0.01 UJ
Butyl Benzyl Phthalate	<0.01	<0.01	<0.01 UJ	
Carbazole	<0.01	<0.01		<0.01 UJ
Cyclohexanone		0.01 J		
Dibenz(a,h)anthracene	<0.01	<0.01	<0.01	<0.01
Dibenzofuran	<0.01	<0.01	<0.01	<0.01
Dibenzothiophene		0.007		
Dimethylphthalate	<0.01	<0.01	<0.01	<0.01
Di-n-Butylphthalate	<0.01	<0.01	<0.01	<0.01
Di-N-Octylphthalate	<0.01	<0.01 UJ	<0.01 UJ	<0.01 UJ
Fluorene	<0.01	<0.01	<0.01	<0.01
Hexachlorobenzene	<0.01	<0.01	<0.01	<0.01
Hexachloroethane	<0.01	<0.01	<0.01	<0.01
Indeno (1,2,3-cd) Pyrene	<0.01	<0.01	<0.01	<0.01
Isophorone	<0.01	<0.01	<0.01	<0.01
Nitrobenzene	<0.01	<0.01	<0.01	<0.01
N-Nitroso-Di-N-Propylamine	<0.01		<0.01 UJ	<0.01 UJ
N-Nitrosodipropylamine		<0.01		
Phenanthrene	0.002	0.001	0.002	0.002
Pyrene	<0.01	<0.01	<0.01 UJ	<0.01 UJ
1,2,4-Trichlorobenzene	<0.01	<0.01	<0.01	<0.01
2,6-Dinitrotoluene	<0.01	<0.01	<0.01	<0.01
2-Chlorophenol	<0.01	<0.01	<0.01	<0.01
2-Nitroaniline	<0.03	<0.03	<0.03	<0.03
Anthracene	<0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01	<0.01
Diethylphthalate	<0.01	<0.01	<0.01	<0.01
Fluoranthene	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene	<0.01	<0.01 UJ	<0.01	<0.01
N-Nitrosodiphenylamine	<0.01	<0.01	<0.01	<0.01
Naphthalene	0.002	0.002	<0.01	0.0009
Pentachlorophenol	<0.03	<0.03 UJ	<0.03	<0.03
Phenol	<0.01	<0.01	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13	DH-13	DH-13
Water	SAMPLE DATE	5/6/1993	5/6/1993	5/12/1994	5/12/1994
	SAMPLE TIME	10:00	13:40	07:15	12:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-7835	93-7837	94-1387	94-1383
	SAMPLE NUMBER	EHC-9305-160	EHC-9305-162	EHC-9405-179	EHC-9405-116
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION				
	REMARKS		Field Duplicate	Field Duplicate	

**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene	<0.01	<0.01	<0.01	<0.01
1,3-Dichlorobenzene	<0.01	<0.01	<0.01	<0.01
1,4-Dichlorobenzene	<0.01	<0.01	<0.01	<0.01
Hexachlorobutadiene	<0.01	<0.01	<0.01	<0.01
1,1,1-Trichloroethane	<0.01	<0.01	<0.01	<0.01
1,1,2,2-Tetrachloroethane	<0.01	<0.01	<0.01	<0.01
1,1,2-Trichloroethane	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethane	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethene	<0.01	<0.01	<0.01	<0.01
1,2-Dichloroethane	<0.01	<0.01	<0.01	<0.01
1,2-Dichloropropane	<0.01	<0.01	<0.01	<0.01
2-Butanone	0.01	<0.01	<0.01	<0.01
2-Hexanone	<0.01	<0.01	<0.01	<0.01
4-Methyl-2-Pentanone	<0.01	<0.01	<0.01	<0.01
Acetone	<0.01	<0.01	<0.01 UJ	<0.01 UJ
Benzene	<0.01	<0.01	<0.01	<0.01
Bromodichloromethane	<0.01	<0.01	<0.01	<0.01
Bromoform	<0.01	<0.01	<0.01	<0.01
Bromomethane	<0.01	<0.01	<0.01	<0.01
Carbon Disulfide	<0.01	0.002	<0.01	<0.01
Carbon Tetrachloride	<0.01	<0.01	<0.01	<0.01
Chlorobenzene	<0.01	<0.01	<0.01	<0.01
Chloroethane	<0.01	<0.01	<0.01	<0.01
Chloroform	<0.01	<0.01	<0.01	<0.01
Chloromethane	<0.01	<0.01	<0.01	<0.01
cis-1,2-Dichloroethene	<0.01	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	<0.01	<0.01	<0.01	<0.01
Methylene Chloride	<0.01	<0.01 U	<0.01	<0.01
Styrene	<0.01	<0.01	<0.01	<0.01
Tetrachloroethene	<0.01	<0.01	<0.01	<0.01
Toluene	<0.01	<0.01	<0.01	<0.01
Total Xylene	<0.01	<0.01	<0.01	<0.01
trans-1,2-Dichloroethene	<0.01	<0.01	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13	DH-13	DH-13
Water	SAMPLE DATE	5/6/1993	5/6/1993	5/12/1994	5/12/1994
	SAMPLE TIME	10:00	13:40	07:15	12:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-7835	93-7837	94-1387	94-1383
	SAMPLE NUMBER	EHC-9305-160	EHC-9305-162	EHC-9405-179	EHC-9405-116
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION				
	REMARKS		Field Duplicate	Field Duplicate	

**VOA's (mg/L): ppm unless noted**

Trans-1,3-dichloropropene	<0.01	<0.01	<0.01	<0.01
Trichloroethene	<0.01	<0.01	<0.01	<0.01
Vinyl Chloride	<0.01	<0.01	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13	DH-13	DH-13	DH-13	DH-13
Water	SAMPLE DATE	5/16/1995	11/14/1995	5/14/1996	11/12/1996	5/7/1997	11/7/1997
	SAMPLE TIME	13:40	08:45	13:00	12:00	19:00	14:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-4511	95-6142	96-6773	96-7785	97-935	192-2741
	SAMPLE NUMBER	EHC-9505-116	EHC-9511-117	EHC-9605-105	EHC-9611-105	EHC-9705-105	EHC-9711-105
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Hydrocarbon (mg/L): ppm unless noted**

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Total Petroleum Hydrocarbons	<1	<1	<1	<1	<1	<1	<1
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13	DH-13	DH-13	DH-13	DH-13
Water	SAMPLE DATE	5/11/1998	11/19/1998	5/11/1999	11/12/1999	5/3/2000	11/8/2000
	SAMPLE TIME	09:45	18:30	11:15	10:00	15:20	15:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	262-3783	314-4463	347-4898	L992007005	L000703001	L001873017
	SAMPLE NUMBER	EHC-9805-106	EHC-9811-105	EHC-9905-105	EHC-9911-116	EHC-0005-115	EHC-0011-115
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics	<5		<1	<4	<0.5	<0.6
Diesel Range Organics as Diesel					<0.5	<0.6
Gasoline Range Organics	<5		<1	<1	<0.02	<0.02 J
Gasoline Range Organics as Gas					<0.02	<0.02 J
Total Extractable Hydrocarbons					<0.5	<0.6
Total Petroleum Hydrocarbons	<1	<1 UJ	<1.1	<1	<0.1	<0.1
Total Purgeable Hydrocarbons					<0.02	0.09

**Semi-VOA's (mg/L): ppm unless noted**

1,2-Dichloroethene	<0.01		<0.01
2,2'-Oxybis(1-Chloropropane)	<0.01		<0.01
2,4,5-Trichlorophenol	<0.03		<0.03
2,4,6-Trichlorophenol	<0.01		<0.01
2,4-Dichlorophenol	<0.01		<0.01
2,4-Dimethylphenol	<0.01		<0.01
2,4-Dinitrophenol	<0.03		<0.03
2,4-Dinitrotoluene	<0.01		<0.01
2-Chloronaphthalene	<0.01		<0.01
2-Methylnaphthalene	<0.01		<0.01
2-Methylphenol	<0.01		<0.01
2-Nitrophenol	<0.01		<0.01
3,3-Dichlorobenzidine	<0.01		<0.01
3-Nitroaniline	<0.03		<0.03
4,6-Dinitro-2-methylphenol	<0.03		<0.03
4-Bromophenyl Phenyl Ether	<0.01		<0.01
4-Chloro-3-methylphenol	<0.01		<0.01
4-Chloroaniline	<0.01		<0.01
4-Chlorophenyl Phenyl Ether	<0.01		<0.01
4-Methylphenol	<0.01		<0.01
4-Nitroaniline	<0.03		<0.03
4-Nitrophenol	<0.01		<0.03
Acenaphthene	0.0006		<0.01
Acenaphthylene	<0.01		<0.01
Benzo(a)anthracene	<0.01		<0.01
Benzo(a)pyrene	<0.01		<0.01
Benzo(b)fluoranthene	<0.01		<0.01
Benzo(g,h,i)perylene	<0.01		<0.01
Benzo(k)fluoranthene	<0.01		<0.01
bis(2-chloroethoxy)methane	<0.01		<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13
Water	SAMPLE DATE	5/11/1998	5/11/1999
	SAMPLE TIME	09:45	11:15
	LAB	TSC-SLC	TSC-SLC
	LAB NUMBER	262-3783	347-4898
	SAMPLE NUMBER	EHC-9805-106	EHC-9905-105
	TYPE	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW
	DESCRIPTION		
	REMARKS		

**Semi-VOA's (mg/L): ppm unless noted**

bis(2-chloroethyl) Ether	<0.01	<0.01
bis(2-ethylhexyl)Phthalate	<0.01	<0.01
Butyl Benzyl Phthalate	<0.01	<0.01
Carbazole	<0.01	<0.01
Dibenz(a,h)anthracene	<0.01	<0.01
Dibenzofuran	0.001	<0.01
Dimethylphthalate	<0.01	<0.01
Di-n-Butylphthalate	<0.01	<0.01
Di-N-Octylphthalate	<0.01	<0.01
Fluorene	<0.01	<0.01
Hexachlorobenzene	<0.01	<0.01
Hexachloroethane	<0.01	<0.01
Indeno (1,2,3-cd) Pyrene	<0.01	<0.01
Isophorone	<0.01	<0.01
Nitrobenzene	<0.01	<0.01
N-Nitroso-Di-N-Propylamine	<0.01	<0.01
Phenanthrene	<0.01	<0.01
Pyrene	<0.01	<0.01
1,2,4-Trichlorobenzene	<0.01	<0.01
2,6-Dinitrotoluene	<0.01	<0.01
2-Chlorophenol	<0.01	<0.01
2-Nitroaniline	<0.03	<0.03
Anthracene	<0.01	<0.01
Chrysene	<0.01	<0.01
Diethylphthalate	<0.01	<0.01
Fluoranthene	<0.01	<0.01
Hexachlorocyclopentadiene	<0.01	<0.01
N-Nitrosodiphenylamine	<0.01	<0.01
Naphthalene	0.0004	<0.01
Pentachlorophenol	<0.03	<0.03
Phenol	<0.01	<0.01

**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene	<0.01	<0.01
1,3-Dichlorobenzene	<0.01	<0.01
1,4-Dichlorobenzene	<0.01	<0.01
Hexachlorobutadiene	<0.01	<0.01
1,1,1-Trichloroethane	<0.01	<0.01
1,1,2,2-Tetrachloroethane	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13
Water	SAMPLE DATE	5/11/1998	5/11/1999
	SAMPLE TIME	09:45	11:15
	LAB	TSC-SLC	TSC-SLC
	LAB NUMBER	262-3783	347-4898
	SAMPLE NUMBER	EHC-9805-106	EHC-9905-105
	TYPE	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW
	DESCRIPTION		
	REMARKS		

**VOA's (mg/L): ppm unless noted**

1,1,2-Trichloroethane	<0.01	<0.01
1,1-Dichloroethane	<0.01	<0.01
1,1-Dichloroethene	<0.01	<0.01
1,2-Dichloroethane	<0.01	<0.01
1,2-Dichloropropane	<0.01	<0.01
2-Butanone	<0.01 UJ	<0.01
2-Hexanone	<0.01 UJ	<0.01
4-Methyl-2-Pentanone	<0.01	<0.01
Acetone	<0.01 UJ	<0.01
Benzene	<0.01	<0.01
Bromodichloromethane	<0.01	<0.01
Bromoform	<0.01	<0.01
Bromomethane	<0.01	<0.01
Carbon Disulfide	<0.01	<0.01
Carbon Tetrachloride	<0.01	<0.01
Chlorobenzene	<0.01	<0.01
Chloroethane	<0.01	<0.01
Chloroform	0.004	0.001
Chloromethane	<0.01	<0.01
cis-1,3-Dichloropropene	<0.01	<0.01
Dibromochloromethane	<0.01	<0.01
Ethylbenzene	<0.01	<0.01
Methylene Chloride	0.0006	<0.01
Styrene	<0.01	<0.01
Tetrachloroethene	<0.01	<0.01
Toluene	<0.01	<0.01
Total Xylene	<0.01	<0.01
Trans-1,3-dichloropropene	<0.01	<0.01
Trichloroethene	<0.01	<0.01
Vinyl Chloride	<0.01	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-13	DH-13	DH-21	DH-21	DH-21
Water	SAMPLE DATE	5/11/2001	11/9/2001	6/9/1987	8/24/1987	8/24/1987
	SAMPLE TIME	09:35	13:30	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010691017	L011563014	87-4200	87-7529	87-7531
	SAMPLE NUMBER	EHC-0105-116	EHC-0111-114	AEH-8706-101	AEH-8708-09	AEH-8708-51
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS					

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics	<0.5	<0.5
Diesel Range Organics as Diesel	<0.5	<0.5
Gasoline Range Organics	<0.02	<0.02
Gasoline Range Organics as Gas	<0.02	<0.02
Total Extractable Hydrocarbons	<0.5	<0.5
Total Petroleum Hydrocarbons	<0.1	
Total Purgeable Hydrocarbons	0.05	<0.02 J

**Other: ppm unless noted**

Oil & Grease	19	3.9	1.4
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**Semi-VOA's (mg/L): ppm unless noted**

1,2-Dibromoethane	<0.001
1,4 - Dioxane	<0.3
1-Methylnaphthalene	<0.01
2,4-Dimethylphenol	<0.01
2,4-Dinitrophenol	<0.05
2-Methylnaphthalene	<0.01
2-Methylphenol	<0.01
4-Methylphenol/3-Methylphenol	<0.01
4-Nitrophenol	<0.05
6-Methylchrysene	<0.01
7,12-Dimethylbenz(a)anthracene	<0.01
Benzo(a)anthracene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(j)Fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
bis(2-ethylhexyl)Phthalate	0.007
Butyl Benzyl Phthalate	<0.01
Dibenz(a,h)acridine	<0.01
Dibenz(a,h)anthracene	<0.01
Dimethylphthalate	<0.01
Di-n-Butylphthalate	<0.01
Di-N-Octylphthalate	<0.01
Indene	<0.01
Phenanthrene	<0.01
Pyrene	<0.01
Pyridine	<0.02
Quinoline	<0.01
Thiophenol	<0.02

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>DH-13</b>
<b>Water</b>	SAMPLE DATE	5/11/2001
	SAMPLE TIME	09:35
	LAB	TSC-SLC
	LAB NUMBER	L010691017
	SAMPLE NUMBER	EHC-0105-116
	TYPE	Groundwater
	GROUP	RI/SLW
	DESCRIPTION	
	REMARKS	

**Semi-VOA's (mg/L): ppm unless noted**

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Anthracene	<0.01
Chrysene	<0.01
Diethylphthalate	<0.01
Fluoranthene	<0.01
Naphthalene	<0.01
Phenol	<0.01

**VOA's (mg/L): ppm unless noted**

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1,2-Dichlorobenzene	<0.01
1,3-Dichlorobenzene	<0.01
1,4-Dichlorobenzene	<0.01
1,2-Dichloroethane	<0.001
2-Butanone	<0.02
Benzene	<0.001
Carbon Disulfide	<0.001
Chlorobenzene	<0.001
Chloroform	<0.001
Ethylbenzene	<0.001
m,p - Xylene	<0.001
o-Xylene	<0.001
Styrene	<0.001
Toluene	<0.001
Total Xylene	<0.001

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-21	DH-21	DH-27	DH-27	DH-27
Water	SAMPLE DATE	11/30/1987	5/11/2001	6/9/1987	8/17/1987	11/23/1987
	SAMPLE TIME	00:00	12:15	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-11008	L010691020	87-4199	87-6874	87-10787
	SAMPLE NUMBER	AEH-8711-236	EHC-0105-124	AEH-8706-22	AEH-8708-14	AEH-8711-242
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS					

Other: ppm unless noted

Oil & Grease	20	9	6.9	2.1
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Semi-VOA's (mg/L): ppm unless noted

1,2-Dibromoethane		<0.001		
1,2-Diphenylhydrazine	<0.02			<0.008 R
1,4 - Dioxane		<0.3		
1-Methylnaphthalene		0.002		
2,4,5-Trichlorophenol	<0.02			<0.008 R
2,4,6-Trichlorophenol	<0.02			<0.008 R
2,4-Dichlorophenol	<0.02			<0.008 R
2,4-Dimethylphenol	<0.008	<0.01		<0.004 R
2,4-Dinitrophenol	<0.08	<0.05		<0.04 R
2,4-Dinitrotoluene	<0.02			<0.008 R
2-Chloronaphthalene	<0.008			<0.004 R
2-Methylnaphthalene	<0.008	<0.01		<0.004 R
2-Methylphenol	<0.008	<0.01		<0.004 R
2-Nitrophenol	<0.02			<0.008 R
3,3-Dichlorobenzidine	<0.08			<0.04 R
3-Methylphenol				<0.008 R
3-Nitroaniline	<0.04			<0.02 R
4,6-Dinitro-2-methylphenol	<0.08			<0.04 R
4-Bromophenyl Phenyl Ether	<0.02			<0.008 R
4-Chloro-3-methylphenol	<0.02			
4-Chloroaniline	<0.008			<0.004 R
4-Chlorophenyl Phenyl Ether	<0.008			<0.004 R
4-Methylphenol	<0.008			<0.004 R
4-Methylphenol/3-Methylphenol		<0.01		
4-Nitroaniline	<0.02			<0.008 R
4-Nitrophenol	<0.08	<0.05		<0.04 R
6-Methylchrysene		<0.01		
7,12-Dimethylbenz(a)anthracene		<0.01		
Acenaphthene	<0.008			<0.004 R
Acenaphthylene	<0.008			<0.004 R
Benzidine	<0.2			<0.09 R
Benzo(a)anthracene	<0.008	<0.01		<0.004 R
Benzo(a)pyrene	<0.02	<0.01		<0.008 R
Benzo(b)fluoranthene	<0.02	<0.01		<0.008 R
Benzo(g,h,i)perylene	<0.02			<0.008 R
Benzo(j)Fluoranthene		<0.01		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-21	DH-21	DH-27
Water	SAMPLE DATE	11/30/1987	5/11/2001	11/23/1987
	SAMPLE TIME	00:00	12:15	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-11008	L010691020	87-10787
	SAMPLE NUMBER	AEH-8711-236	EHC-0105-124	AEH-8711-242
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION			
	REMARKS			

**Semi-VOA's (mg/L): ppm unless noted**

Benzo(k)fluoranthene	<0.02	<0.01	<0.008 R
Benzoic Acid	<0.2		<0.09 R
Benzyl Alcohol	<0.008		<0.004 R
bis(2-chloroethoxy)methane	<0.008		<0.004 R
bis(2-chloroethyl) Ether	<0.04		<0.004 R
bis(2-chloroisopropyl) Ether	<0.008		<0.004 R
bis(2-ethylhexyl)Phthalate	0.05	0.002	0.005 J
Butyl Benzyl Phthalate	<0.008	<0.01	<0.004 R
Dibenz(a,h)acridine		<0.01	
Dibenz(a,h)anthracene	<0.02	<0.01	<0.008 R
Dibenzofuran	<0.008		<0.004 R
Dibutylphthalate			<0.004 R
Dimethylphthalate	<0.008	<0.01	<0.004 R
Di-n-Butylphthalate	<0.008	<0.01	
Di-N-Octylphthalate	<0.008	<0.01	<0.004 R
Fluorene	0.009		<0.004 R
Hexachlorobenzene	<0.02		<0.008 R
Hexachloroethane	<0.02		<0.008 R
Indene		<0.01	
Indeno (1,2,3-cd) Pyrene	<0.02		<0.008 R
Isophorone	<0.008		<0.004 R
Nitrobenzene	<0.008		<0.004 R
N-Nitroso-Di-N-Propylamine	<0.008		<0.004 R
Phenanthrene	<0.008	0.001	<0.004 R
Pyrene	<0.008	<0.01	<0.004 R
Pyridine		<0.02	
Quinoline		<0.01	
Thiophenol		<0.02	
1,2,4-Trichlorobenzene	<0.008		<0.004 R
2,6-Dinitrotoluene	<0.02		<0.008 R
2-Chlorophenol	<0.008		<0.004 R
2-Nitroaniline	<0.02		<0.008 R
Aniline	<0.04		<0.02 R
Anthracene	<0.008	<0.01	<0.004 R
Chrysene	<0.008	<0.01	<0.004 R
Diethylphthalate	<0.008	<0.01	<0.004 R
Fluoranthene	<0.008	<0.01	<0.004 R

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-21	DH-21	DH-27
Water	SAMPLE DATE	11/30/1987	5/11/2001	11/23/1987
	SAMPLE TIME	00:00	12:15	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-11008	L010691020	87-10787
	SAMPLE NUMBER	AEH-8711-236	EHC-0105-124	AEH-8711-242
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION			
	REMARKS			

**Semi-VOA's (mg/L): ppm unless noted**

Hexachlorocyclopentadiene	<0.02		<0.008 R
N-Nitrosodiphenylamine	<0.008		<0.004 R
Naphthalene	<0.02	0.001	<0.008 R
Pentachlorophenol	<0.02		<0.04 R
Phenol	<0.008	<0.01	<0.004 R

**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene	<0.008	<0.01	<0.004 R
1,3-Dichlorobenzene	<0.008	<0.01	<0.004 R
1,4-Dichlorobenzene	<0.008	<0.01	<0.004 R
Hexachlorobutadiene	<0.008		<0.004 R
1,2-Dichloroethane		<0.001	
2-Butanone		<0.02	
Benzene		<0.001	
Carbon Disulfide		<0.001	
Chlorobenzene		<0.001	
Chloroform		<0.001	
Ethylbenzene		<0.001	
m,p - Xylene		<0.001	
o-Xylene		<0.001	
Styrene		<0.001	
Toluene		<0.001	
Total Xylene		<0.001	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-27	DH-27	DH-27	DH-27	DH-27	DH-27
Water	SAMPLE DATE	12/9/1996	5/8/1997	11/12/1997	5/11/1998	11/20/1998	5/11/1999
	SAMPLE TIME	14:15	12:35	00:00	13:00	12:45	16:40
	LAB	EL	EL	EL	EL	TSC-SLC	TSC-SLC
	LAB NUMBER	96-69325	97-030469	97-70128	98-31303	314-4468	347-4904
	SAMPLE NUMBER	EHC-9612-100CS	EHC-9705-114CS	EHC-9711-161CS	EHC-9805-116CS	EHC-9811-115	EHC-9905-115
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION						
	REMARKS						

**Hydrocarbon (%): ppm unless noted**

Carbon 1 - Carbon 5	0.0	0.0	0.0
Carbon 10 - Carbon 11	0.7	0.9	0.8
Carbon 11 - Carbon 12	2.6	3.2	2.4
Carbon 12 - Carbon 13	7.3	6.9	6.8
Carbon 13 - Carbon 14	8.9	8.9	8.6
Carbon 14 -Carbon 15	13.6	13.3	12.9
Carbon 15 - Carbon 16	11.5	12.1	12.7
Carbon 16 - Carbon 17	13.6	12.6	11.7
Carbon 17 - Carbon 18	9.9	10.7	10.4
Carbon 18 - Carbon 19	9.1	8.2	8.5
Carbon 19 - Carbon 20	7.1	7.1	7.9
Carbon 20 - Carbon 21	4.7	4.7	4.8
Carbon 21 - Carbon 22	3.8	3.8	3.4
Carbon 22 - Carbon 23	2.5	2.5	2.9
Carbon 23 - Carbon 24	1.4	1.8	2
Carbon 24 - Carbon 25	1	0.8	1
Carbon 25 - Carbon 26	0.8	0.7	1
Carbon 26 - Carbon 27	0.4	0.5	0.4
Carbon 27 - Carbon 28	0.3	0.3	0.4
Carbon 28 - Carbon 29	0.3	0.8	0.2
Carbon 29 - Carbon 30	0.3	0.0	0.4
Carbon 30+	0.0	0.0	0.6
Carbon 5 - Carbon 6	0.0	0.0	0.0
Carbon 6 - Carbon 7	0.0	0.0	0.0
Carbon 7 - Carbon 8	0.0	0.0	0.0
Carbon 8 - Carbon 9	0.0	0.0	0.0
Carbon 9 - Carbon 10	0.2	0.2	0.2

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics as Diesel	492	91	39	30		
Gasoline Range Organics	0.1	108	<20	0.02		
Total Petroleum Hydrocarbons					270 J	30

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-27	DH-27	DH-27	DH-27	DH-30
Water	SAMPLE DATE	5/11/2001	11/11/2001	11/18/2002	5/24/2007	5/2/2001
	SAMPLE TIME	10:25	15:20	08:30	09:20	14:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ELI	TSC-SLC
	LAB NUMBER	L010691023	L011564003	L020959002	H07050291-001	L010608012
	SAMPLE NUMBER	EHC-0105-129	EHC-0111-127	EHC-0211-130	AEH-0705-225	EHC-0105-133
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION					
	REMARKS					

**EPH: ppm unless noted**

Naphthalene (EPH)	<0.01
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**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics	17	31	0.04
Diesel Range Organics as Diesel	17	31	0.04
Gasoline Range Organics	<0.02	<0.02	0.2
Gasoline Range Organics as Gas	<0.02	<0.02	<0.2
Total Extractable Hydrocarbons	17	31	0.04
Total Petroleum Hydrocarbons	22		6.4
Total Purgeable Hydrocarbons	0.7	0.7	9.6

**Pesticides (mg/L): ppm unless noted**

Diallate	<0.01
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**Semi-VOA's (mg/L): ppm unless noted**

1,1-Dichloropropene		<0.001
1,2,3-Trichlorobenzene		<0.001
1,2,4-Trichlorobenzene (Semi)		<0.01
1,2,4-Trimethylbenzene		<0.001
1,2-Dibromoethane	<0.001	<0.001
1,3,5-Trimethylbenzene		<0.001
1,3-Dichloropropane		<0.001
1,4 - Dioxane	<0.3	<0.3
1-Methylnaphthalene	<0.01	<0.01
2,2-Dichloropropane		<0.001
2,4,5-Trichlorophenol		<0.01
2,4,6-Trichlorophenol		<0.01
2,4-Dichlorophenol		<0.01
2,4-Dimethylphenol	<0.01	<0.01
2,4-Dinitrophenol	<0.05	<0.05
2,4-Dinitrotoluene		<0.01
2-Chloronaphthalene		<0.01
2-Chlorotoluene		<0.001
2-Methylnaphthalene	<0.01	<0.01
2-Methylphenol	<0.01	<0.01
2-Nitrophenol		<0.01
3,3-Dichlorobenzidine		<0.02
4,6-Dinitro-2-methylphenol		<0.05
4-Bromophenyl Phenyl Ether		<0.01
4-Chloro-3-methylphenol		<0.01
4-Chlorophenol		<0.01
4-Chlorophenyl Phenyl Ether		<0.01
4-Chlorotoluene		<0.001

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-27	DH-27	DH-30
Water	SAMPLE DATE	5/11/2001	5/24/2007	5/2/2001
	SAMPLE TIME	10:25	09:20	14:30
	LAB	TSC-SLC	ELI	TSC-SLC
	LAB NUMBER	L010691023	H07050291-001	L010608012
	SAMPLE NUMBER	EHC-0105-129	AEH-0705-225	EHC-0105-133
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION			
	REMARKS			

**Semi-VOA's (mg/L): ppm unless noted**

4-Methylphenol/3-Methylphenol	<0.01	<0.01	<0.01 J
4-Nitrophenol	<0.05	<0.05	<0.06
6-Methylchrysene	<0.01		<0.01
7,12-Dimethylbenz(a)anthracene	<0.01		<0.01
Acenaphthene		<0.01	
Acenaphthylene		<0.01	
Acetonitrile		<0.01	
Benidine		<0.02	
Benzo(a)anthracene	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01
Benzo(g,h,i)perylene		<0.01	
Benzo(j)fluoranthene	<0.01		<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01
bis(2-chloroethoxy)methane		<0.01	
bis(2-chloroethyl) Ether		<0.01	
bis(2-chloroisopropyl) Ether		<0.01	
bis(2-ethylhexyl)Phthalate	0.008	<0.01	0.002
Bromobenzene		<0.001	
Bromochloromethane		<0.001	
Butyl Benzyl Phthalate	<0.01	<0.01	<0.01
Chlorodibromomethane		<0.001	
Dibenz(a,h)acridine	<0.01		<0.01
Dibenz(a,h)anthracene	<0.01	<0.01	<0.01
Dimethylphthalate	<0.01	<0.01	<0.01
Di-n-Butylphthalate	<0.01	<0.01	<0.01
Di-N-Octylphthalate	<0.01	<0.01	<0.01
Fluorene		<0.01	
Hexachlorobenzene		<0.01	
Hexachlorobutadiene (Semi)		<0.01	
Hexachloroethane		<0.01	
Indene	<0.01		<0.01
Indeno (1,2,3-cd) Pyrene		<0.01	
Isophorone		<0.01	
Isopropylbenzene		<0.001	
Methylethylketone		<0.02	
n-Butylbenzene		<0.001	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-27	DH-27	DH-30
Water	SAMPLE DATE	5/11/2001	5/24/2007	5/2/2001
	SAMPLE TIME	10:25	09:20	14:30
	LAB	TSC-SLC	ELI	TSC-SLC
	LAB NUMBER	L010691023	H07050291-001	L010608012
	SAMPLE NUMBER	EHC-0105-129	AEH-0705-225	EHC-0105-133
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION			
	REMARKS			

**Semi-VOA's (mg/L): ppm unless noted**

Nitrobenzene		<0.01	
N-Nitroso-Di-N-Propylamine		<0.01	
n-Propylbenzene		<0.001	
Phenanthrene	0.001	<0.01	<0.01
p-Isopropyltoluene		<0.001	
Pyrene	<0.01	<0.01	<0.01
Pyridine	<0.02	<0.02	<0.02
Quinoline	<0.01		<0.01
sec-Butylbenzene		<0.00033	
tert-Butylbenzene		<0.001	
Thiophenol	<0.02		<0.02
1,2-Dichlorobenzene (Semi)		<0.01	
1,3-Dichlorobenzene (Semi)		<0.01	
1,4-Dichlorobenzene (Semi)		<0.01	
2,6-Dinitrotoluene		<0.01	
2-Chlorophenol		<0.01	
Anthracene	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01
Diethylphthalate	<0.01	<0.01	<0.01
Fluoranthene	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene		<0.02	
N-Nitrosodimethylamine		<0.01	
N-Nitrosodiphenylamine		<0.01	
Naphthalene	<0.01		<0.01
Pentachlorophenol		<0.05	
Phenol	<0.01	<0.01	0.001 J

**VOA's (mg/L): ppm unless noted**

1,2,4-Trichlorobenzene (Vol)		<0.001	
1,2-Dichlorobenzene	<0.01		<0.01
1,3-Dichlorobenzene	<0.01		<0.01
1,4-Dichlorobenzene	<0.01		<0.01
Dibromomethane		<0.001	
Hexachlorobutadiene (Vol)		<0.001	
Iodomethane		<0.001	
m,p-Xylene		<0.001	
Methyl tert-butyl ether		<0.001	
1,1,1,2-Tetrachloroethane		<0.001	
1,1,1-Trichloroethane		<0.001	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-27	DH-27	DH-30
Water	SAMPLE DATE	5/11/2001	5/24/2007	5/2/2001
	SAMPLE TIME	10:25	09:20	14:30
	LAB	TSC-SLC	ELI	TSC-SLC
	LAB NUMBER	L010691023	H07050291-001	L010608012
	SAMPLE NUMBER	EHC-0105-129	AEH-0705-225	EHC-0105-133
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION			
	REMARKS			

**VOA's (mg/L): ppm unless noted**

1,1,2,2-Tetrachloroethane		<0.001	
1,1,2-Trichloroethane		<0.001	
1,1-Dichloroethane		<0.001	
1,1-Dichloroethene		<0.001	
1,2,3-Trichloropropane		<0.001	
1,2-Dibromo-3-chloropropane		<0.001	
1,2-Dichlorobenzene (Vol)		<0.001	
1,2-Dichloroethane	<0.001	<0.001	<0.001
1,2-Dichloropropane		<0.001	
1,3-Dichlorobenzene (Vol)		<0.001	
1,4-Dichlorobenzene (Vol)		<0.001	
2-Butanone	<0.02		<0.01
2-Chloroethyl Vinyl Ether		<0.001	
2-Hexanone		<0.02	
4-Methyl-2-Pentanone		<0.02	
Acetone		<0.02	
Acrolein		<0.02	
Acrylonitrile		<0.02	
Benzene	<0.001	<0.001	<0.001
Bromodichloromethane		<0.001	
Bromoform		<0.001	
Bromomethane		<0.001	
Carbon Disulfide	<0.001	<0.001	<0.001
Carbon Tetrachloride		<0.001	
Chlorobenzene	<0.001	<0.001	<0.001
Chloroethane		<0.001	
Chloroform	<0.001	<0.001	<0.001
Chloromethane		<0.001	
cis-1,2-Dichloroethene		<0.001	
cis-1,3-Dichloropropene		<0.001	
Dichlorodifluoromethane		<0.001	
Ethylbenzene	<0.001	<0.001	<0.001
m,p - Xylene	<0.001		<0.001
Methylene Chloride		<0.001	
o-Xylene	<0.001	<0.001	<0.001
Styrene	<0.001	<0.001	<0.001
Tetrachloroethene		<0.001	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-27	DH-27	DH-30
Water	SAMPLE DATE	5/11/2001	5/24/2007	5/2/2001
	SAMPLE TIME	10:25	09:20	14:30
	LAB	TSC-SLC	ELI	TSC-SLC
	LAB NUMBER	L010691023	H07050291-001	L010608012
	SAMPLE NUMBER	EHC-0105-129	AEH-0705-225	EHC-0105-133
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION			
	REMARKS			

**VOA's (mg/L): ppm unless noted**

Toluene	<0.001	<0.001	<0.001
Total Xylene	<0.001	<0.001	<0.001
trans-1,2-Dichloroethene		<0.001	
Trans-1,3-dichloropropene		<0.001	
Trichloroethene		<0.001	
Trichlorofluoromethane		<0.001	
Vinyl Acetate		<0.001	
Vinyl Chloride		<0.001	

**VPH: ppm unless noted**

Naphthalene (VPH)	<0.002
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-31	DH-31	DH-31	DH-33
Water	SAMPLE DATE	5/2/2001	11/11/2001	11/18/2002	5/2/2001
	SAMPLE TIME	12:00	14:40	09:45	10:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010608014	L011564005	L020959005	L010608015
	SAMPLE NUMBER	EHC-0105-134	EHC-0111-132	EHC-0211-135	EHC-0105-136
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION				
	REMARKS				

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics	1.8	1.6	<0.003
Diesel Range Organics as Diesel	1.8	1.6	<0.003
Gasoline Range Organics	<0.02	<0.02	<0.1
Gasoline Range Organics as Gas	<0.02	<0.02	<0.1
Total Extractable Hydrocarbons	2.3	1.6	<0.003
Total Petroleum Hydrocarbons	0.4 J		30
Total Purgeable Hydrocarbons	0.2	0.1	2.7

**Semi-VOA's (mg/L): ppm unless noted**

1,2-Dibromoethane	<0.001		<0.001
1,4 - Dioxane	<0.3		<0.3
1-Methylnaphthalene	<0.01		<0.01
2,4-Dimethylphenol	<0.01		<0.01
2,4-Dinitrophenol	<0.06		<0.06
2-Methylnaphthalene	<0.01		<0.01
2-Methylphenol	<0.01		<0.01
4-Methylphenol/3-Methylphenol	<0.01		<0.01
4-Nitrophenol	<0.06		<0.06
6-Methylchrysene	<0.01		<0.01
7,12-Dimethylbenz(a)anthracene	<0.01		<0.01
Benzo(a)anthracene	<0.01		<0.01
Benzo(a)pyrene	<0.01		<0.01
Benzo(b)fluoranthene	<0.01		<0.01
Benzo(j)Fluoranthene	<0.01		<0.01
Benzo(k)fluoranthene	<0.01		<0.01
bis(2-ethylhexyl)Phthalate	0.002		0.01
Butyl Benzyl Phthalate	<0.01		<0.01
Dibenz(a,h)acridine	<0.01		<0.01
Dibenz(a,h)anthracene	<0.01		<0.01
Dimethylphthalate	<0.01		<0.01
Di-n-Butylphthalate	<0.01		<0.01
Di-N-Octylphthalate	<0.01		<0.01
Indene	<0.01		<0.01
Phenanthrene	<0.01		0.002
Pyrene	<0.01		<0.01
Pyridine	<0.02		<0.02
Quinoline	<0.01		<0.01
Thiophenol	<0.02		<0.02
Anthracene	<0.01		<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>DH-31</b>	<b>DH-33</b>
<b>Water</b>	SAMPLE DATE	5/2/2001	5/2/2001
	SAMPLE TIME	12:00	10:15
	LAB	TSC-SLC	TSC-SLC
	LAB NUMBER	L010608014	L010608015
	SAMPLE NUMBER	EHC-0105-134	EHC-0105-136
	TYPE	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW
	DESCRIPTION		
	REMARKS		

**Semi-VOA's (mg/L): ppm unless noted**

Chrysene	<0.01	<0.01
Diethylphthalate	<0.01	<0.01
Fluoranthene	<0.01	<0.01
Naphthalene	<0.01	<0.01
Phenol	<0.01	0.002

**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene	<0.01	<0.01
1,3-Dichlorobenzene	<0.01	<0.01
1,4-Dichlorobenzene	<0.01	<0.01
1,2-Dichloroethane	<0.001	<0.001
2-Butanone	<0.01	<0.01
Benzene	<0.001	<0.001
Carbon Disulfide	<0.001	<0.001
Chlorobenzene	<0.001	<0.001
Chloroform	<0.001	<0.001
Ethylbenzene	<0.001	<0.001
m,p - Xylene	<0.001	<0.001
o-Xylene	<0.001	<0.001
Styrene	<0.001	<0.001
Toluene	<0.001	<0.001
Total Xylene	<0.001	<0.001

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-34	DH-34	DH-34	DH-35
Water	SAMPLE DATE	5/2/2001	11/9/2001	11/18/2002	5/2/2001
	SAMPLE TIME	10:45	14:10	09:20	11:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010608016	L011564006	L020959004	L010608013
	SAMPLE NUMBER	EHC-0105-137	EHC-0111-135	EHC-0211-138	EHC-0105-138
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION				
	REMARKS				

**Hydrocarbon (mg/L): ppm unless noted**

Diesel Range Organics	69	38	0.07
Diesel Range Organics as Diesel	69	38	0.07
Gasoline Range Organics	<0.02	<0.02	0.5
Gasoline Range Organics as Gas	<0.02	<0.02	<0.1
Total Extractable Hydrocarbons	69	38	0.07
Total Petroleum Hydrocarbons	18.5		68
Total Purgeable Hydrocarbons	0.6	0.6	15.5

**Semi-VOA's (mg/L): ppm unless noted**

1,2-Dibromoethane	<0.001		<0.001
1,4 - Dioxane	<0.3		<0.3
1-Methylnaphthalene	<0.01		<0.01
2,4-Dimethylphenol	<0.01		<0.01 J
2,4-Dinitrophenol	<0.06		<0.06
2-Methylnaphthalene	<0.01		<0.01
2-Methylphenol	<0.01		<0.01 J
4-Methylphenol/3-Methylphenol	<0.01		<0.01 J
4-Nitrophenol	<0.06		<0.06
6-Methylchrysene	<0.01		<0.01
7,12-Dimethylbenz(a)anthracene	<0.01		<0.01
Benzo(a)anthracene	<0.01		<0.01
Benzo(a)pyrene	<0.01		<0.01
Benzo(b)fluoranthene	<0.01		<0.01
Benzo(j)Fluoranthene	<0.01		<0.01
Benzo(k)fluoranthene	<0.01		<0.01
bis(2-ethylhexyl)Phthalate	0.02		<0.01
Butyl Benzyl Phthalate	<0.01		<0.01
Dibenz(a,h)acridine	<0.01		<0.01
Dibenz(a,h)anthracene	<0.01		<0.01
Dimethylphthalate	<0.01		<0.01
Di-n-Butylphthalate	<0.01		<0.01
Di-N-Octylphthalate	0.003		<0.01
Indene	<0.01		<0.01
Phenanthrene	0.005		<0.01
Pyrene	<0.01		<0.01
Pyridine	<0.02		<0.02
Quinoline	<0.01		<0.01
Thiophenol	<0.02		<0.02
Anthracene	<0.01		<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-34	DH-35
Water	SAMPLE DATE	5/2/2001	5/2/2001
	SAMPLE TIME	10:45	11:15
	LAB	TSC-SLC	TSC-SLC
	LAB NUMBER	L010608016	L010608013
	SAMPLE NUMBER	EHC-0105-137	EHC-0105-138
	TYPE	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW
	DESCRIPTION		
	REMARKS		

**Semi-VOA's (mg/L): ppm unless noted**

Chrysene	<0.01	<0.01
Diethylphthalate	<0.01	<0.01
Fluoranthene	<0.01	<0.01
Naphthalene	<0.01	<0.01
Phenol	<0.01	0.001 J

**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene	<0.01	<0.01
1,3-Dichlorobenzene	<0.01	<0.01
1,4-Dichlorobenzene	<0.01	<0.01
1,2-Dichloroethane	<0.001	<0.001
2-Butanone	<0.01	<0.01
Benzene	<0.001	<0.001
Carbon Disulfide	<0.001	<0.001
Chlorobenzene	<0.001	<0.001
Chloroform	<0.001	<0.001
Ethylbenzene	<0.001	<0.001
m,p - Xylene	<0.001	<0.001
o-Xylene	<0.001	<0.001
Styrene	<0.001	<0.001
Toluene	<0.001	<0.001
Total Xylene	<0.001	<0.001

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DH-38	DH-38	DH-38
Water	SAMPLE DATE	5/2/2001	11/11/2001	11/18/2002
	SAMPLE TIME	14:00	14:10	08:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010608027	L011564008	L020959003
	SAMPLE NUMBER	EHC-0105-141	EHC-0111-139	EHC-0211-142
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI/SLW	RI/SLW	RI/SLW
	DESCRIPTION			
	REMARKS			

### Hydrocarbon (mg/L): ppm unless noted

Diesel Range Organics	21	21	0.005
Diesel Range Organics as Diesel	21	21	0.005
Gasoline Range Organics	<0.02	0.03	0.02
Gasoline Range Organics as Gas	<0.02	<0.02	<0.02
Total Extractable Hydrocarbons	21	21	0.005
Total Petroleum Hydrocarbons	15.2		1
Total Purgeable Hydrocarbons	0.5	1.2	1

### Semi-VOA's (mg/L): ppm unless noted

1,2-Dibromoethane	<0.001
1,4 - Dioxane	<0.3
1-Methylnaphthalene	<0.01
2,4-Dimethylphenol	<0.01
2,4-Dinitrophenol	<0.06
2-Methylnaphthalene	<0.01
2-Methylphenol	<0.01
4-Methylphenol/3-Methylphenol	<0.01
4-Nitrophenol	<0.06
6-Methylchrysene	<0.01
7,12-Dimethylbenz(a)anthracene	<0.01
Benzo(a)anthracene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(j)Fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
bis(2-ethylhexyl)Phthalate	<0.01
Butyl Benzyl Phthalate	<0.01
Dibenz(a,h)acridine	<0.01
Dibenz(a,h)anthracene	<0.01
Dimethylphthalate	<0.01
Di-n-Butylphthalate	<0.01
Di-N-Octylphthalate	<0.01
Indene	<0.01
Phenanthrene	0.003
Pyrene	<0.01
Pyridine	<0.02
Quinoline	<0.01
Thiophenol	<0.02
Anthracene	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Organic Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>DH-38</b>
<b>Water</b>	SAMPLE DATE	5/2/2001
	SAMPLE TIME	14:00
	LAB	TSC-SLC
	LAB NUMBER	L010608027
	SAMPLE NUMBER	EHC-0105-141
	TYPE	Groundwater
	GROUP	RI/SLW
	DESCRIPTION	
	REMARKS	

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**Semi-VOA's (mg/L): ppm unless noted**

Chrysene	<0.01
Diethylphthalate	<0.01
Fluoranthene	<0.01
Naphthalene	<0.01
Phenol	<0.01

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**VOA's (mg/L): ppm unless noted**

1,2-Dichlorobenzene	<0.01
1,3-Dichlorobenzene	<0.01
1,4-Dichlorobenzene	<0.01
1,2-Dichloroethane	<0.001
2-Butanone	<0.01
Benzene	<0.001
Carbon Disulfide	<0.001
Chlorobenzene	<0.001
Chloroform	<0.001
Ethylbenzene	<0.001
m,p - Xylene	<0.001
o-Xylene	<0.001
Styrene	<0.001
Toluene	<0.001
Total Xylene	<0.001

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

**APPENDIX C-3**

**EAST HELENA WATER  
HISTORICAL PRIVATE WELL DATA**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

### Table of Contents by Station Type

<u>Page</u>	<u>Station Type</u>	<u>Station Name</u>
1	Domestic Wells	001Gail
4	Domestic Wells	003Gail
12	Domestic Wells	009Gail
17	Domestic Wells	105Gail
22	Domestic Wells	107Gros
30	Domestic Wells	109Gail
41	Domestic Wells	110Gail
48	Domestic Wells	126Clint
50	Domestic Wells	126ClintH
52	Domestic Wells	126ClintI
54	Domestic Wells	203Gail
71	Domestic Wells	210Gros
74	Domestic Wells	212EPac
96	Domestic Wells	301Gail
103	Domestic Wells	303Thurman
107	Domestic Wells	316Mont
110	Domestic Wells	317Gail
131	Domestic Wells	401Gail
151	Domestic Wells	401SSGail
153	Domestic Wells	407Porter
159	Domestic Wells	409Gail
159	Domestic Wells	607Lewi
164	Domestic Wells	701Mnlv
173	Domestic Wells	800MnLv
177	Domestic Wells	801Manlove
177	Domestic Wells	802Mnlv
184	Domestic Wells	802SMnlv
41	Domestic Wells	1122King
43	Domestic Wells	1145Gros
43	Domestic Wells	1165Lew
43	Domestic Wells	1189GrosH
45	Domestic Wells	1189GrosI
45	Domestic Wells	1190King
45	Domestic Wells	1193Clark
46	Domestic Wells	1195Clark
46	Domestic Wells	1226Gros
46	Domestic Wells	1266Dud
48	Domestic Wells	1266King
74	Domestic Wells	2489Wylie
76	Domestic Wells	2540 Wylie
78	Domestic Wells	2540Wyllr
80	Domestic Wells	2700 Winsl
82	Domestic Wells	2705 Winsl

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

Run Time: 9/16/2009 12:02:33 PM

C:\EnviroDataDB\Databases\V5\_B\_DB\EastHelena.mdb

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

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86	Domestic Wells	2740Winslo
86	Domestic Wells	2743Winslo
86	Domestic Wells	2746 Winsl
88	Domestic Wells	2765 1/2Wi
88	Domestic Wells	2765Winslo
88	Domestic Wells	2770WinslI
90	Domestic Wells	2775Winslo
90	Domestic Wells	2779Winslo
92	Domestic Wells	2780WinslH
92	Domestic Wells	2780WinslK
92	Domestic Wells	2795Winslo
94	Domestic Wells	2815Stev
94	Domestic Wells	2830Winslo
94	Domestic Wells	2850Weston
96	Domestic Wells	2858Winslo
96	Domestic Wells	2880Winslo
113	Domestic Wells	3350 Beck
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125	Domestic Wells	3485Beck
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184	Domestic Wells	Amchem1
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227	Public Water Systems	EastgateIr
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229	Public Water Systems	EH CITY WA
231	Public Water Systems	EHC1
233	Public Water Systems	EHC2
236	Public Water Systems	EHC3
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33	0	EHR-0505-NS2	5/25/2005	109Gail
236	0	EHR-0505-NS3	5/4/2005	EHC2
186	84-10841	AEH-8411-1	11/3/1984	Amchem2
192	84-10842	AEH-8411-2	11/3/1984	Amchem3
153	84-10843	AEH-8411-3	11/3/1984	407Porter
244	84-10844	AEH-8411-4	11/2/1984	McDon Tr
4	84-10845	AEH-8411-5	11/2/1984	003Gail
213	84-10846	AEH-8411-6	11/2/1984	MANION
211	84-10847	AEH-8411-7	11/3/1984	LAMPC
107	84-10848	AEH-8411-8	11/2/1984	316Mont
203	84-10849	AEH-8411-9	11/2/1984	BRNHM1
4	84-10850	AEH-8411-10	11/3/1984	003Gail
153	84-10851	AEH-8411-11	11/4/1984	407Porter
164	84-10855	AEH-8411-0	11/3/1984	701Mnlv
205	85-3613	AEH-8505-407	5/13/1985	BRNHM1
131	85-3614	AEH-8505-408	5/14/1985	401Gail
164	85-3615	AEH-8505-412	5/13/1985	701Mnlv
187	85-3616	AEH-8505-413	5/13/1985	Amchem2
192	85-3617	AEH-8505-414	5/13/1985	Amchem3
153	85-3618	AEH-8505-415	5/13/1985	407Porter
244	85-3619	AEH-8505-416	5/13/1985	McDon Tr
213	85-3620	AEH-8505-417	5/14/1985	MANION
4	85-3621	AEH-8505-418	5/14/1985	003Gail
107	85-3622	AEH-8505-419	5/14/1985	316Mont
211	85-3623	AEH-8505-420	5/13/1985	LAMPC
205	85-3624	AEH-8505-421	5/13/1985	BRNHM1
208	85-3625	AEH-8505-455	5/14/1985	HOFF/BROWN
131	85-3626	AEH-8505-456	5/14/1985	401Gail
206	85-3627	AEH-8505-457	5/14/1985	ERNST/FOX
110	85-3628	AEH-8505-458	5/14/1985	317Gail
216	85-3629	AEH-8505-459	5/14/1985	VETSCH
96	85-3630	AEH-8505-460	5/14/1985	301Gail
220	85-3631	AEH-8505-461	5/14/1985	WESTON/MAR
212	85-3632	AEH-8505-462	5/14/1985	LAMPR
30	85-3633	AEH-8505-463	5/14/1985	109Gail
17	85-3634	AEH-8505-464	5/14/1985	105Gail
12	85-3635	AEH-8505-465	5/14/1985	009Gail
187	86-6893	AEH-8610-105	10/10/1986	Amchem2
165	86-6894	AEH-8610-107	10/10/1986	701Mnlv
164	86-6895	AEH-8610-101	10/10/1986	701Mnlv
153	86-6897	AEH-8610-109	10/10/1986	407Porter
131	86-6923	AEH-8610-117	10/14/1986	401Gail

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206	86-6925	AEH-8610-115	10/14/1986	ERNST/FOX
112	86-6926	AEH-8610-114	10/14/1986	317Gail
98	86-6927	AEH-8610-113	10/14/1986	301Gail
220	86-6928	AEH-8610-112	10/14/1986	WESTON/MAR
19	86-6929	AEH-8610-111	10/14/1986	105Gail
193	86-6930	AEH-8610-106	10/14/1986	Amchem4
131	86-6932	AEH-8610-102	10/14/1986	401Gail
30	86-6935	AEH-8610-142	10/14/1986	109Gail
212	86-6936	AEH-8610-141	10/14/1986	LAMPR
208	86-6945	AEH-8610-119	10/14/1986	HOFF/BROWN
214	86-6946	AEH-8610-118	10/14/1986	MANION
4	86-6954	AEH-8610-110	10/14/1986	003Gail
231	86-8050	AEH-8612-04	12/2/1986	EHC1
231	86-8051	AEH-8612-05	12/2/1986	EHC1
235	86-8053	AEH-8612-07	12/2/1986	EHC2
202	87-657	AEH-8701-116	1/29/1987	ASRWELL
202	87-658	AEH-8701-130	1/29/1987	ASRWELL
165	87-660	AEH-8701-120	1/29/1987	701Mnlv
231	87-661	AEH-8701-122	1/29/1987	EHC1
173	87-778	AEH-8701-134	2/3/1987	800MnLv
177	87-780	AEH-8701-135	2/3/1987	802Mnlv
217	87-783	AEH-8701-137	2/3/1987	WALTER/CAR
215	87-792	AEH-8701-117	2/5/1987	SIMAC
215	87-793	AEH-8701-143	2/5/1987	SIMAC
210	87-794	AEH-8701-118	2/6/1987	KAMRMN
210	87-795	AEH-8701-144	2/6/1987	KAMRMN
202	87-1633	AEH-8703-01	3/16/1987	ASRWELL
165	87-1634	AEH-8703-02	3/16/1987	701Mnlv
202	87-1636	AEH-8703-04	3/16/1987	ASRWELL
209	87-2843	AEH-8704-51	4/28/1987	HOFF/BROWN
214	87-2844	AEH-8704-150	4/28/1987	MANION
209	87-2845	AEH-8704-60	4/28/1987	HOFF/BROWN
133	87-2846	AEH-8704-49	4/28/1987	401Gail
206	87-2847	AEH-8704-47	4/28/1987	ERNST/FOX
112	87-2848	AEH-8704-46	4/28/1987	317Gail
216	87-2849	AEH-8704-48	4/28/1987	VETSCH
98	87-2850	AEH-8704-45	4/28/1987	301Gail
220	87-2851	AEH-8704-44	4/28/1987	WESTON/MAR
212	87-2852	AEH-8704-40	4/28/1987	LAMPR
30	87-2853	AEH-8704-56	4/28/1987	109Gail
19	87-2854	AEH-8704-43	4/28/1987	105Gail
5	87-2855	AEH-8704-42	4/28/1987	003Gail

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24	87-2911	AEH-8704-61	4/29/1987	107Gros
235	87-2912	AEH-8704-58	4/29/1987	EHC2
231	87-2913	AEH-8704-57	4/29/1987	EHC1
154	87-3024	AEH-8704-41	5/5/1987	407Porter
154	87-3025	AEH-8704-64	5/5/1987	407Porter
215	87-3026	AEH-8704-52	5/5/1987	SIMAC
203	87-3027	AEH-8704-39	5/5/1987	ASRWELL
194	87-3028	AEH-8704-35	2/20/1987	Amchem4
187	87-3029	AEH-8704-34	5/5/1987	Amchem2
177	87-3030	AEH-8705-2	5/6/1987	802Mnlv
179	87-3031	AEH-8705-41	5/6/1987	802Mnlv
173	87-3034	AEH-8705-3	5/6/1987	800MnLv
165	87-3035	AEH-8705-1	5/6/1987	701Mnlv
232	87-6491	AEH-8708-28	8/3/1987	EHC1
235	87-6492	AEH-8708-29	8/3/1987	EHC2
232	87-6496	AEH-8708-39	8/3/1987	EHC1
188	87-10000	AEH-8710-72	10/27/1987	Amchem2
187	87-10001	AEH-8710-51	10/27/1987	Amchem2
184	87-10002	AEH-8710-52	10/27/1987	Amchem1
217	87-10003	AEH-8710-60	11/2/1987	VETSCH
98	87-10004	AEH-8710-59	11/2/1987	301Gail
19	87-10012	AEH-8710-73	11/3/1987	105Gail
218	87-10013	AEH-8710-74	11/3/1987	WALTER/CAR
19	87-10015	AEH-8710-64	11/3/1987	105Gail
218	87-10016	AEH-8710-65	11/3/1987	WALTER/CAR
5	87-10017	AEH-8710-66	11/3/1987	003Gail
154	87-10018	AEH-8710-67	11/3/1987	407Porter
216	87-10019	AEH-8710-75	11/3/1987	SIMAC
24	87-10020	AEH-8710-68	11/3/1987	107Gros
206	87-10021	AEH-8710-62	11/2/1987	ERNST/FOX
220	87-10022	AEH-8710-63	11/2/1987	WESTON/MAR
133	87-10023	AEH-8710-58	11/2/1987	401Gail
154	88-2609	AEH-8804-386	4/8/1988	407Porter
207	88-2610	AEH-8804-385	4/6/1988	ERNST/FOX
24	88-2614	AEH-8804-366	4/8/1988	107Gros
5	88-2615	AEH-8804-367	4/7/1988	003Gail
218	88-2616	AEH-8804-368	4/7/1988	WALTER/CAR
12	88-2617	AEH-8804-369	4/7/1988	009Gail
19	88-2618	AEH-8804-370	4/7/1988	105Gail
212	88-2619	AEH-8804-372	4/6/1988	LAMPR
220	88-2620	AEH-8804-373	4/6/1988	WESTON/MAR
207	88-2621	AEH-8804-374	4/6/1988	ERNST/FOX

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217	88-2623	AEH-8804-376	4/6/1988	VETSCH
98	88-2624	AEH-8804-377	4/6/1988	301Gail
133	88-2625	AEH-8804-378	4/7/1988	401Gail
103	88-2627	AEH-8804-379	4/8/1988	303Thurman
154	88-2627	AEH-8804-384	4/8/1988	407Porter
186	88-2724	AEH-8804-362	4/12/1988	Amchem1
193	88-2725	AEH-8804-363	4/12/1988	Amchem3
216	88-2726	AEH-8804-381	4/12/1988	SIMAC
232	88-2727	AEH-8804-382	4/12/1988	EHC1
235	88-2728	AEH-8804-383	4/12/1988	EHC2
232	88-2733	AEH-8804-387	4/12/1988	EHC1
179	88-5012	AEH-8807-10	7/27/1988	802Mnlv
165	88-5013	AEH-8807-12	7/27/1988	701Mnlv
166	88-5014	AEH-8807-13	7/27/1988	701Mnlv
175	88-5015	AEH-8807-14	7/27/1988	800MnLv
188	89-1	AEH-8812-181	12/6/1988	Amchem2
194	89-2	AEH-8812-209	12/6/1988	Amchem4
166	89-3	AEH-8812-210	12/6/1988	701Mnlv
179	89-4	AEH-8812-211	12/6/1988	802Mnlv
218	89-5	AEH-8812-184	12/6/1988	WALTER/CAR
219	89-551	AEH-8904-255	4/27/1989	WALTER/CAR
166	89-552	AEH-8904-287	4/27/1989	701Mnlv
179	89-553	AEH-8904-289	4/27/1989	802Mnlv
179	89-554	AEH-8904-293	4/27/1989	802Mnlv
188	89-555	AEH-8904-252	4/27/1989	Amchem2
5	89-565	AEH-8904-254	5/1/1989	003Gail
205	89-566	AEH-8904-296	5/1/1989	CASEY
194	89-701	AEH-8904-286	4/27/1989	Amchem4
25	89-800	AEH-8910-461	10/12/1989	107Gros
219	89-844	AEH-8910-454	10/25/1989	WALTER/CAR
5	89-847	AEH-8910-462	10/25/1989	003Gail
219	89-848	AEH-8910-463	10/25/1989	WALTER/CAR
188	89-849	AEH-8910-464	10/25/1989	Amchem2
194	89-850	AEH-8910-465	10/25/1989	Amchem4
166	89-851	AEH-8910-472	10/25/1989	701Mnlv
179	89-853	AEH-8910-488	10/25/1989	802Mnlv
6	90-1069	AEH-9005-462	5/3/1990	003Gail
219	90-1070	AEH-9005-463	5/3/1990	WALTER/CAR
166	90-1071	AEH-9005-472	5/2/1990	701Mnlv
188	90-1073	AEH-9005-512	5/3/1990	Amchem2
194	90-1074	AEH-9005-513	5/3/1990	Amchem4
180	90-1075	AEH-9005-514	5/3/1990	802Mnlv

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6	90-2270	AEH-9011-761	12/7/1990	003Gail
180	90-2271	AEH-9011-770	12/7/1990	802Mnlv
189	90-2272	AEH-9011-763	12/7/1990	Amchem2
189	90-2273	AEH-9011-772	12/7/1990	Amchem2
194	90-2274	AEH-9011-764	12/7/1990	Amchem4
166	90-2275	AEH-9011-766	12/7/1990	701Mnlv
189	91-2819	AEH-9105-108	5/14/1991	Amchem2
195	91-2820	AEH-9105-109	5/14/1991	Amchem4
167	91-2821	AEH-9105-110	5/14/1991	701Mnlv
6	91-2822	AEH-9105-111	5/14/1991	003Gail
180	91-2823	AEH-9105-112	5/14/1991	802Mnlv
180	91-2824	AEH-9105-115	5/14/1991	802Mnlv
25	91-2829	AEH-9105-168	5/14/1991	107Gros
195	91-3604	AEH-9111-313	11/7/1991	Amchem4
189	91-3605	AEH-9111-336	11/7/1991	Amchem2
6	91-3606	AEH-9111-331	11/7/1991	003Gail
167	91-3608	AEH-9111-352	11/7/1991	701Mnlv
180	91-3609	AEH-9111-330	11/7/1991	802Mnlv
167	92-4296	AEH-9204-103	4/23/1992	701Mnlv
195	92-4301	AEH-9204-115	4/22/1992	Amchem4
189	92-4304	AEH-9204-127	4/22/1992	Amchem2
189	92-4306	AEH-9204-145	4/22/1992	Amchem2
180	92-4309	AEH-9204-114	4/23/1992	802Mnlv
6	92-4310	AEH-9204-133	4/23/1992	003Gail
167	92-6800	EHC-9211-149	11/20/1992	701Mnlv
6	92-6805	EHC-9211-146	11/20/1992	003Gail
190	92-6810	EHC-9211-134	11/20/1992	Amchem2
195	92-6812	EHC-9211-145	11/20/1992	Amchem4
181	92-6816	EHC-9211-105	11/20/1992	802Mnlv
7	93-7721	EHC-9305-108	4/28/1993	003Gail
190	93-7725	EHC-9305-110	4/29/1993	Amchem2
195	93-7726	EHC-9305-111	4/29/1993	Amchem4
181	93-7727	EHC-9305-112	4/29/1993	802Mnlv
167	93-7728	EHC-9305-113	4/29/1993	701Mnlv
181	93-7729	EHC-9305-114	4/29/1993	802Mnlv
25	93-9145	EHC-9311-159	11/2/1993	107Gros
167	93-9197	EHC-9311-132	11/8/1993	701Mnlv
181	93-9201	EHC-9311-146	11/8/1993	802Mnlv
190	93-9215	EHC-9311-104	11/9/1993	Amchem2
195	93-9229	EHC-9311-105	11/9/1993	Amchem4
196	94-1335	EHC-9405-105	5/10/1994	Amchem4
25	94-1338	EHC-9405-159	5/10/1994	107Gros

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168	94-1342	EHC-9405-137	5/10/1994	701Mnlv
190	94-1343	EHC-9405-104	5/10/1994	Amchem2
7	94-1344	EHC-9405-174	5/10/1994	003Gail
181	94-1345	EHC-9405-150	5/10/1994	802Mnlv
181	94-3245	EHC-9411-152	11/8/1994	802Mnlv
168	94-3246	EHC-9411-137	11/8/1994	701Mnlv
7	94-3247	EHC-9411-138	11/8/1994	003Gail
25	94-3248	EHC-9411-159	11/8/1994	107Gros
190	94-3360	EHC-9411-104	11/15/1994	Amchem2
196	94-3361	EHC-9411-105	11/15/1994	Amchem4
190	95-4448	EHC-9505-100	5/4/1995	Amchem2
196	95-4449	EHC-9505-101	5/4/1995	Amchem4
168	95-4454	EHC-9505-137	5/4/1995	701Mnlv
7	95-4455	EHC-9505-138	5/4/1995	003Gail
182	95-4463	EHC-9505-151	5/4/1995	802Mnlv
25	95-4490	EHC-9505-158	5/10/1995	107Gros
191	95-6106	EHC-9511-100	11/9/1995	Amchem2
196	95-6107	EHC-9511-101	11/9/1995	Amchem4
168	95-6129	EHC-9511-139	11/9/1995	701Mnlv
7	95-6130	EHC-9511-140	11/9/1995	003Gail
182	95-6133	EHC-9511-153	11/9/1995	802Mnlv
191	95-6140	EHC-9511-189	11/9/1995	Amchem2
191	96-6768	EHC-9605-100	5/10/1996	Amchem2
196	96-6769	EHC-9605-101	5/10/1996	Amchem4
168	96-6786	EHC-9605-123	5/10/1996	701Mnlv
182	96-6790	EHC-9605-137	5/10/1996	802Mnlv
196	96-7730	EHC-9611-101	11/6/1996	Amchem4
169	96-7731	EHC-9611-123	11/6/1996	701Mnlv
7	96-7732	EHC-9611-124	11/6/1996	003Gail
182	96-7733	EHC-9611-137	11/6/1996	802Mnlv
191	96-7761	EHC-9611-100	11/6/1996	Amchem2
26	96-7770	EHC-9611-144	11/8/1996	107Gros
191	97-897	EHC-9705-100	5/6/1997	Amchem2
197	97-898	EHC-9705-101	5/6/1997	Amchem4
169	97-908	EHC-9705-122	5/5/1997	701Mnlv
182	97-919	EHC-9705-134	5/5/1997	802Mnlv
8	97-928	EHC-9705-158	5/6/1997	003Gail
26	97-929	EHC-9705-157	5/6/1997	107Gros
191	192-2738	EHC-9711-100	11/11/1997	Amchem2
197	192-2739	EHC-9711-101	11/11/1997	Amchem4
169	192-2753	EHC-9711-123	11/11/1997	701Mnlv
8	192-2754	EHC-9711-124	11/11/1997	003Gail

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182	192-2755	EHC-9711-137	11/11/1997	802Mnlv
26	192-2756	EHC-9711-144	11/11/1997	107Gros
26	193-2764	EHC-9711-159	11/11/1997	107Gros
192	262-3781	EHC-9805-100	5/14/1998	Amchem2
197	262-3782	EHC-9805-101	5/14/1998	Amchem4
169	262-3790	EHC-9805-124	5/14/1998	701Mnlv
8	262-3791	EHC-9805-125	5/14/1998	003Gail
183	262-3793	EHC-9805-138	5/14/1998	802Mnlv
192	323-4591	EHC-9811-100	12/2/1998	Amchem2
197	323-4592	EHC-9811-101	12/2/1998	Amchem4
169	323-4593	EHC-9811-123	12/2/1998	701Mnlv
8	323-4594	EHC-9811-124	12/2/1998	003Gail
8	323-4595	EHC-9811-157	12/2/1998	003Gail
192	348-4908	EHC-9905-100	5/13/1999	Amchem2
169	348-4909	EHC-9905-123	5/12/1999	701Mnlv
183	348-4910	EHC-9905-137	5/12/1999	802Mnlv
183	348-4914	EHC-9905-155	5/12/1999	802Mnlv
197	349-4939	EHC-9905-101	5/13/1999	Amchem4
8	349-4940	EHC-9905-124	5/13/1999	003Gail
131	8505-408	AEH-8505-408	5/14/1985	401Gail
213	8505-417	AEH-8505-417	5/14/1985	MANION
205	8505-457	AEH-8505-457	5/14/1985	ERNST/FOX
164	8610-101	AEH-8610-101	10/10/1986	701Mnlv
187	8610-105	AEH-8610-105	10/10/1986	Amchem2
193	8610-106	AEH-8610-106	10/14/1986	Amchem4
164	8610-107	AEH-8610-107	10/10/1986	701Mnlv
153	8610-109	AEH-8610-109	10/10/1986	407Porter
4	8610-110	AEH-8610-110	10/14/1986	003Gail
17	8610-111	AEH-8610-111	10/14/1986	105Gail
220	8610-112	AEH-8610-112	10/14/1986	WESTON/MAR
96	8610-113	AEH-8610-113	10/14/1986	301Gail
110	8610-114	AEH-8610-114	10/14/1986	317Gail
206	8610-115	AEH-8610-115	10/14/1986	ERNST/FOX
131	8610-117	AEH-8610-117	10/14/1986	401Gail
214	8610-118	AEH-8610-118	10/14/1986	MANION
208	8610-119	AEH-8610-119	10/14/1986	HOFF/BROWN
212	8610-141	AEH-8610-141	10/14/1986	LAMPR
30	8610-142	AEH-8610-142	10/14/1986	109Gail
231	8612-04	AEH-8612-04	12/2/1986	EHC1
233	8612-07	AEH-8612-07	12/2/1986	EHC2
235	8612-07 SD	AEH-8612-07 SD	12/2/1986	EHC2
202	8701-116	AEH-8701-116	1/29/1987	ASRWELL
210	8701-118	AEH-8701-118	2/6/1987	KAMRMN

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202	8704-39	AEH-8704-39	5/5/1987	ASRWELL
206	8704-47	AEH-8704-47	4/28/1987	ERNST/FOX
215	8704-52	AEH-8704-52	5/5/1987	SIMAC
22	8704-54	AEH-8704-54	4/29/1987	107Gros
231	8704-57	AEH-8704-57	4/29/1987	EHC1
235	8704-58	AEH-8704-58	4/29/1987	EHC2
24	8704-61	AEH-8704-61	4/29/1987	107Gros
214	8704-150	AEH-8704-150	4/28/1987	MANION
165	8705-1	AEH-8705-1	5/6/1987	701Mnlv
177	8705-2	AEH-8705-2	5/6/1987	802Mnlv
173	8705-3	AEH-8705-3	5/6/1987	800MnLv
177	8705-41	AEH-8705-41	5/6/1987	802Mnlv
187	8710-51	AEH-8710-51	10/27/1987	Amchem2
217	8710-60	AEH-8710-60	11/2/1987	VETSCH
218	8710-65	AEH-8710-65	11/3/1987	WALTER/CAR
154	8710-67	AEH-8710-67	11/3/1987	407Porter
24	8710-68	AEH-8710-68	11/3/1987	107Gros
188	8710-72	AEH-8710-72	10/27/1987	Amchem2
218	8710-74	AEH-8710-74	11/3/1987	WALTER/CAR
141	8705007-01	EHR-0507-327	5/24/2007	401Gail
246	8705007-02	EHR-0507-329	5/24/2007	PelePk1
61	8705007-03	EHR-0507-332	5/24/2007	203Gail
105	C05050186-001	EHR-0505-300	5/4/2005	303Thurman
105	C05050186-002	EHR-0505-301	5/4/2005	303Thurman
21	C05050186-004	EHR-0505-303	5/4/2005	105Gail
136	C05050186-005	EHR-0505-304	5/4/2005	401Gail
232	C05050186-006	EHR-0505-305	5/4/2005	EHC1
236	C05050186-007	EHR-0505-306	5/4/2005	EHC3
57	C05050186-008	EHR-0505-307	5/4/2005	203Gail
11	C05050186-009	EHR-0505-308	5/4/2005	003Gail
175	C05050186-010	EHR-0505-309	5/4/2005	800MnLv
2	C05050186-011	EHR-0505-310	5/4/2005	001Gail
15	C05050186-012	EHR-0505-311	5/4/2005	009Gail
162	C05050186-013	EHR-0505-312	5/4/2005	607Lewi
109	C05050186-014	EHR-0505-313	5/4/2005	316Mont
71	C05050186-015	EHR-0505-314	5/4/2005	210Gros
199	C05050186-016	EHR-0505-315	5/4/2005	Amchem4
156	C05050997-001	EHR-0505-316	5/25/2005	407Porter
156	C05050997-002	EHR-0505-317	5/25/2005	407Porter
246	C05050997-004	EHR-0505-319	5/25/2005	PelePk1
248	C05050997-005	EHR-0505-320	5/25/2005	PelePk2
199	C05050997-006	EHR-0505-321	5/25/2005	Amchem4
100	C05050997-007	EHR-0505-322	5/25/2005	301Gail

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51	C05050997-008	EHR-0505-323	5/25/2005	126ClintH
52	C05050997-009	EHR-0505-324	5/25/2005	126ClintI
21	C06050292-001	EHR-0506-300	5/4/2006	105Gail
11	C06050292-002	EHR-0506-301	5/4/2006	003Gail
2	C06050292-003	EHR-0506-302	5/4/2006	001Gail
232	C06050292-004	EHR-0506-303	5/4/2006	EHC1
236	C06050292-005	EHR-0506-304	5/4/2006	EHC2
59	C06050292-006	EHR-0506-305	5/4/2006	203Gail
51	C06050292-007	EHR-0506-306	5/4/2006	126ClintH
52	C06050292-008	EHR-0506-307	5/4/2006	126ClintI
109	C06050292-009	EHR-0506-308	5/4/2006	316Mont
156	C06050292-010	EHR-0506-309	5/4/2006	407Porter
72	C06050292-011	EHR-0506-310	5/4/2006	210Gros
246	C06050292-012	EHR-0506-311	5/4/2006	PelePk1
248	C06050292-013	EHR-0506-312	5/4/2006	PelePk2
100	C06050292-014	EHR-0506-313	5/4/2006	301Gail
101	C06050292-015	EHR-0506-314	5/4/2006	301Gail
162	C06050292-017	EHR-0506-316	5/4/2006	607Lewi
105	C06050292-018	EHR-0506-317	5/4/2006	303Thurman
171	C06050292-019	EHR-0506-318	5/4/2006	701Mnlv
138	C06050292-020	EHR-0506-319	5/4/2006	401Gail
22	C06051139-001	EHR-0506-320	5/24/2006	105Gail
28	C06051139-002	EHR-0506-321	5/24/2006	107Gros
15	C06051139-003	EHR-0506-322	5/24/2006	009Gail
34	C06051139-004	EHR-0506-323	5/24/2006	109Gail
157	C06051139-005	EHR-0506-324	5/24/2006	407Porter
199	C06051139-006	EHR-0506-325	5/24/2006	Amchem4
34	C06051139-007	EHR-0506-326	5/24/2006	109Gail
26	EHC-9511-162	EHC-9511-162	11/14/1995	107Gros
102	EHR-0607-Gail301	EHR-0607-Gail301	6/21/2007	301Gail
252	EHR-0609-PMV	EHR-0609-PMV	6/16/2009	Praire Vil
250	EHR-0609-PTC	EHR-0609-PTC	6/16/2009	PhxTrCt
21	H04050036-001	EHR-0504-300	5/5/2004	105Gail
21	H04050036-002	EHR-0504-301	5/5/2004	105Gail
11	H04050036-004	EHR-0504-303	5/5/2004	003Gail
15	H04050036-005	EHR-0504-304	5/5/2004	009Gail
99	H04050036-006	EHR-0504-305	5/5/2004	301Gail
56	H04050036-007	EHR-0504-306	5/5/2004	203Gail
109	H04050036-008	EHR-0504-307	5/5/2004	316Mont
156	H04050036-009	EHR-0504-308	5/5/2004	407Porter
162	H04050036-010	EHR-0504-309	5/5/2004	607Lewi
105	H04050036-011	EHR-0504-310	5/5/2004	303Thurman
71	H04050036-012	EHR-0504-311	5/5/2004	210Gros

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199	H04050036-013	EHR-0504-312	5/5/2004	Amchem4
184	H04050192-001	EHR-0504-313	5/26/2004	802Mnlv
28	H04050192-002	EHR-0504-314	5/26/2004	107Gros
28	H04050192-003	EHR-0504-315	5/26/2004	107Gros
32	H04050192-005	EHR-0504-317	5/26/2004	109Gail
51	H04050192-006	EHR-0504-318	5/26/2004	126ClintH
2	H04050192-007	EHR-0504-319	5/26/2004	001Gail
135	H04050192-008	EHR-0504-320	5/26/2004	401Gail
99	H04070156-001	EHR-0704-300	7/22/2004	301Gail
100	H04070156-002	EHR-0704-301	7/22/2004	301Gail
56	H04070156-004	EHR-0704-303	7/22/2004	203Gail
33	H04070156-005	EHR-0704-304	7/22/2004	109Gail
135	H04070156-006	EHR-0704-305	7/22/2004	401Gail
33	H04090066-001	EHR-0904-300	9/9/2004	109Gail
33	H04090066-002	EHR-0904-301	9/9/2004	109Gail
56	H04090066-004	EHR-0904-303	9/9/2004	203Gail
100	H04090066-005	EHR-0904-304	9/9/2004	301Gail
135	H04090066-006	EHR-0904-305	9/9/2004	401Gail
135	H04110051-001	EHR-1104-300	11/5/2004	401Gail
56	H04110051-002	EHR-1104-301	11/5/2004	203Gail
57	H04110051-003	EHR-1104-302	11/5/2004	203Gail
57	H05010131-001	EHR-0105-301	1/23/2005	203Gail
135	H05010131-003	EHR-0105-302	1/23/2005	401Gail
136	H05010131-004	EHR-0105-303	1/23/2005	401Gail
57	H05030118-001	EHR-0305-300	3/16/2005	203Gail
57	H05030118-002	EHR-0305-301	3/16/2005	203Gail
136	H05030118-004	EHR-0305-303	3/16/2005	401Gail
151	H05040005-001	EHR-0305-304	3/31/2005	401SSGail
136	H05040005-002	EHR-0305-305	3/31/2005	401Gail
136	H05040005-003	EHR-0305-306	3/31/2005	401Gail
136	H05070155-001	EHR-0705-300	7/20/2005	401Gail
137	H05070155-002	EHR-0705-301	7/20/2005	401Gail
33	H05070155-004	EHR-0705-303	7/20/2005	109Gail
57	H05070155-005	EHR-0705-304	7/20/2005	203Gail
100	H05070155-006	EHR-0705-305	7/20/2005	301Gail
137	H05090071-001	EHR-0905-300	9/8/2005	401Gail
58	H05090071-002	EHR-0905-301	9/8/2005	203Gail
100	H05090071-003	EHR-0905-302	9/8/2005	301Gail
33	H05090071-004	EHR-0905-303	9/8/2005	109Gail
34	H05090071-005	EHR-0905-304	9/8/2005	109Gail
137	H05110021-001	EHR-1105-300	11/2/2005	401Gail
58	H05110021-002	EHR-1105-301	11/2/2005	203Gail
58	H05110021-003	EHR-1105-302	11/2/2005	203Gail

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151	H05110148-002	EHR-1105-305	11/17/2005	401SSGail
151	H05110148-003	EHR-1105-306	11/17/2005	401SSGail
58	H06010094-001	EHR-0106-300	1/12/2006	203Gail
137	H06010094-002	EHR-0106-301	1/12/2006	401Gail
137	H06010094-003	EHR-0106-302	1/12/2006	401Gail
58	H06030070-001	EHR-0306-300	3/9/2006	203Gail
138	H06030070-002	EHR-0306-301	3/9/2006	401Gail
58	H06030070-003	EHR-0306-302	3/9/2006	203Gail
34	H06070114-001	EHR-0706-300	7/12/2006	109Gail
101	H06070114-002	EHR-0706-301	7/12/2006	301Gail
59	H06070114-003	EHR-0706-302	7/12/2006	203Gail
157	H06070114-004	EHR-0706-303	7/12/2006	407Porter
157	H06070114-005	EHR-0706-304	7/12/2006	407Porter
138	H06070114-007	EHR-0706-306	7/12/2006	401Gail
101	H06070224-001	EHR-0706-307	7/21/2006	301Gail
101	H06070224-003	EHR-0706-308	7/21/2006	301Gail
59	H06090133-001	EHR-0906-300	9/18/2006	203Gail
34	H06090133-002	EHR-0906-301	9/18/2006	109Gail
101	H06090133-003	EHR-0906-302	9/18/2006	301Gail
101	H06090133-004	EHR-0906-303	9/18/2006	301Gail
138	H06090133-006	EHR-0906-305	9/18/2006	401Gail
138	H06100221-001	EHR-1006-300	10/23/2006	401Gail
139	H06100221-002	EHR-1006-301	10/23/2006	401Gail
59	H06100221-003	EHR-1006-302	10/23/2006	203Gail
59	H06100221-004	EHR-1006-303	10/23/2006	203Gail
60	H06100221-006	EHR-1006-305	10/23/2006	203Gail
139	H06110205-001	EHR-1106-300	11/24/2006	401Gail
139	H06110205-002	EHR-1106-301	11/24/2006	401Gail
60	H06110205-003	EHR-1106-302	11/24/2006	203Gail
139	H06120180-002	EHR-1206-301	12/21/2006	401Gail
139	H06120180-003	EHR-1206-302	12/21/2006	401Gail
60	H06120180-004	EHR-1206-303	12/22/2006	203Gail
60	H06120180-005	EHR-1206-304	12/22/2006	203Gail
60	H07010030-001	EHR-0107-300	1/5/2007	203Gail
139	H07010030-002	EHR-0107-301	1/5/2007	401Gail
140	H07010030-003	EHR-0107-302	1/5/2007	401Gail
140	H07020039-001	EHR-0207-300	2/5/2007	401Gail
140	H07020039-002	EHR-0207-301	2/5/2007	401Gail
60	H07020039-004	EHR-0207-303	2/5/2007	203Gail
61	H07030014-001	EHR-0307-300	3/4/2007	203Gail
140	H07030014-002	EHR-0307-301	3/4/2007	401Gail
140	H07030014-003	EHR-0307-302	3/4/2007	401Gail

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141	H07040029-002	EHR-0407-301	4/1/2007	401Gail
61	H07040029-003	EHR-0407-302	4/1/2007	203Gail
22	H07050211-001	EHR-0507-300	5/17/2007	105Gail
12	H07050211-002	EHR-0507-301	5/17/2007	003Gail
2	H07050211-003	EHR-0507-302	5/17/2007	001Gail
34	H07050211-004	EHR-0507-303	5/17/2007	109Gail
41	H07050211-005	EHR-0507-304	5/17/2007	110Gail
15	H07050211-006	EHR-0507-305	5/17/2007	009Gail
110	H07050211-007	EHR-0507-306	5/17/2007	316Mont
110	H07050211-008	EHR-0507-307	5/17/2007	316Mont
233	H07050211-009	EHR-0507-308	5/17/2007	EHC1
238	H07050211-010	EHR-0507-309	5/17/2007	EHC3
157	H07050211-011	EHR-0507-310	5/17/2007	407Porter
105	H07050211-012	EHR-0507-311	5/17/2007	303Thurman
250	H07050263-001	EHR-0507-313	5/22/2007	PhxTrCt
162	H07050263-002	EHR-0507-314	5/22/2007	607Lewi
242	H07050263-003	EHR-0507-315	5/22/2007	LCGMain
240	H07050263-004	EHR-0507-316	5/22/2007	LCG#4
41	H07050263-005	EHR-0507-317	5/22/2007	1122King
48	H07050263-006	EHR-0507-318	5/22/2007	1266King
46	H07050263-007	EHR-0507-319	5/22/2007	1266Dud
94	H07050263-008	EHR-0507-320	5/22/2007	2815Stev
244	H07050263-009	EHR-0507-321	5/22/2007	McDon Tr
244	H07050263-010	EHR-0507-322	5/22/2007	McDon Tr
72	H07050263-011	EHR-0507-323	5/22/2007	210Gros
200	H07050263-012	EHR-0507-324	5/22/2007	Amchem4
48	H07050287-001	EHR-0507-326	5/24/2007	126Clint
141	H07050287-002	EHR-0507-327	5/24/2007	401Gail
246	H07050287-003	EHR-0507-329	5/24/2007	PelePk1
248	H07050287-004	EHR-0507-331	5/24/2007	PelePk2
61	H07050287-005	EHR-0507-332	5/24/2007	203Gail
61	H07050287-006	EHR-0507-334	5/24/2007	203Gail
43	H07050287-007	EHR-0507-335	5/24/2007	1165Lew
28	H07050287-009	EHR-0507-337	5/24/2007	107Gros
184	H07050287-010	EHR-0507-338	5/24/2007	802Mnlv
141	H07060248-001	EHR-0607-300	6/21/2007	401Gail
61	H07060248-002	EHR-0607-301	6/21/2007	203Gail
72	H07060248-003	EHR-0607-302	6/21/2007	210Gros
36	H07060248-004	EHR-0607-303	6/21/2007	109Gail
157	H07060248-006	EHR-0607-305	6/21/2007	407Porter
157	H07060248-007	EHR-0607-306	6/21/2007	407Porter
200	H07060248-008	EHR-0607-307	6/21/2007	Amchem4

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48	H07060248-009	EHR-0607-308	6/21/2007	126Clint
141	H07070129-001	EHR-0707-300	7/13/2007	401Gail
63	H07070129-002	EHR-0707-301	7/13/2007	203Gail
102	H07070129-003	EHR-0707-302	7/13/2007	301Gail
102	H07070129-004	EHR-0707-303	7/13/2007	301Gail
36	H07070129-006	EHR-0707-305	7/13/2007	109Gail
141	H07080262-001	EHR-0807-300	8/27/2007	401Gail
63	H07080262-002	EHR-0807-301	8/27/2007	203Gail
102	H07080262-003	EHR-0807-302	8/27/2007	301Gail
36	H07080262-004	EHR-0807-303	8/27/2007	109Gail
36	H07080262-005	EHR-0807-304	8/27/2007	109Gail
143	H07090318-001	EHR-0907-300	9/27/2007	401Gail
143	H07090318-002	EHR-0907-301	9/27/2007	401Gail
102	H07090318-003	EHR-0907-302	9/27/2007	301Gail
63	H07090318-004	EHR-0907-303	9/27/2007	203Gail
36	H07090318-005	EHR-0907-304	9/27/2007	109Gail
143	H07100105-001	EHR-1007-300	10/8/2007	401Gail
63	H07100105-002	EHR-1007-301	10/8/2007	203Gail
63	H07100105-003	EHR-1007-302	10/8/2007	203Gail
36	H07100105-004	EHR-1007-303	10/8/2007	109Gail
103	H07100105-005	EHR-1007-304	10/8/2007	301Gail
46	H07110067-001	EHR-1107-300	11/7/2007	1226Gros
43	H07110067-002	EHR-1107-301	11/7/2007	1145Gros
43	H07110067-003	EHR-1107-302	11/7/2007	1189GrosH
45	H07110067-004	EHR-1107-303	11/7/2007	1189GrosI
63	H07110067-005	EHR-1107-304	11/7/2007	203Gail
64	H07110067-006	EHR-1107-305	11/7/2007	203Gail
143	H07110071-001	EHR-1107-308	11/8/2007	401Gail
143	H07110071-002	EHR-1107-309	11/8/2007	401Gail
207	H07110159-001	EHR-1107-400	11/20/2007	FLEISNER
207	H07110159-002	EHR-1107-401	11/20/2007	FLEISNER
143	H07120163-001	EHR-1207-300	12/13/2007	401Gail
64	H07120163-002	EHR-1207-301	12/13/2007	203Gail
250	H07120163-003	EHR-1207-302	12/13/2007	PhxTrCt
229	H07120163-004	EHR-1207-303	12/13/2007	EastgateS
223	H07120163-005	EHR-1207-304	12/13/2007	BuzzInnE
225	H07120163-006	EHR-1207-305	12/13/2007	BuzzInnW
242	H07120163-007	EHR-1207-306	12/13/2007	LCGMain
240	H07120163-008	EHR-1207-307	12/13/2007	LCG#4
227	H07120163-009	EHR-1207-308	12/13/2007	CF Mini-B
227	H07120163-010	EHR-1207-309	12/13/2007	CF Mini-B
144	H08010067-001	EHR-0108-300	1/8/2008	401Gail
64	H08010067-002	EHR-0108-301	1/8/2008	203Gail

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64	H08010067-003	EHR-0108-302	1/8/2008	203Gail
144	H08020045-001	EHR-0208-300	2/6/2008	401Gail
144	H08020045-002	EHR-0208-301	2/6/2008	401Gail
64	H08020045-003	EHR-0208-302	2/6/2008	203Gail
64	H08030167-001	EHR-0308-300	3/11/2008	203Gail
65	H08030167-002	EHR-0308-301	3/11/2008	203Gail
144	H08030167-003	EHR-0308-302	3/11/2008	401Gail
144	H08040188-001	EHR-0408-300	4/10/2008	401Gail
65	H08040188-002	EHR-0408-301	4/10/2008	203Gail
45	H08040188-003	EHR-0408-302	4/10/2008	1190King
74	H08040188-004	EHR-0408-303	4/10/2008	2489Wylie
74	H08040188-005	EHR-0408-304	4/10/2008	2489Wylie
22	H08050220-001	EHR-0508-300	5/13/2008	105Gail
2	H08050220-002	EHR-0508-301	5/13/2008	001Gail
12	H08050220-003	EHR-0508-302	5/13/2008	003Gail
65	H08050220-004	EHR-0508-303	5/13/2008	203Gail
17	H08050220-005	EHR-0508-304	5/13/2008	009Gail
17	H08050220-006	EHR-0508-305	5/13/2008	009Gail
233	H08050220-007	EHR-0508-306	5/13/2008	EHC1
238	H08050220-008	EHR-0508-307	5/13/2008	EHC3
110	H08050220-009	EHR-0508-308	5/13/2008	316Mont
72	H08050220-010	EHR-0508-309	5/13/2008	210Gros
159	H08050220-011	EHR-0508-310	5/13/2008	407Porter
105	H08050220-012	EHR-0508-311	5/13/2008	303Thurman
162	H08050220-013	EHR-0508-312	5/13/2008	607Lewi
52	H08050343-001	EHR-0508-314	5/20/2008	126ClintH
54	H08050343-002	EHR-0508-315	5/20/2008	126ClintI
28	H08050343-003	EHR-0508-316	5/20/2008	107Gros
246	H08050343-004	EHR-0508-317	5/20/2008	PelePk1
248	H08050343-005	EHR-0508-318	5/20/2008	PelePk2
200	H08050343-006	EHR-0508-319	5/20/2008	Amchem4
37	H08050343-007	EHR-0508-320	5/20/2008	109Gail
37	H08050343-008	EHR-0508-321	5/20/2008	109Gail
175	H08050343-009	EHR-0508-322	5/20/2008	800MnLv
144	H08050424-001	EHR-0508-324	5/24/2008	401Gail
146	H08050424-002	EHR-0508-325	5/24/2008	401Gail
146	H08060234-001	EHR-0608-300	6/11/2008	401Gail
65	H08060234-002	EHR-0608-301	6/11/2008	203Gail
65	H08060234-003	EHR-0608-302	6/11/2008	203Gail
37	H08060234-004	EHR-0608-303	6/11/2008	109Gail
37	H08070151-001	EHR-0708-300	7/8/2008	109Gail
37	H08070151-002	EHR-0708-301	7/8/2008	109Gail
146	H08070151-003	EHR-0708-302	7/8/2008	401Gail

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65	H08070151-004	EHR-0708-303	7/8/2008	203Gail
146	H08080096-001	EHR-0808-300	8/6/2008	401Gail
67	H08080096-002	EHR-0808-301	8/6/2008	203Gail
67	H08080096-003	EHR-0808-302	8/6/2008	203Gail
39	H08080096-004	EHR-0808-303	8/6/2008	109Gail
146	H08090485-001	EHR-0908-300	9/28/2008	401Gail
146	H08090485-002	EHR-0908-301	9/28/2008	401Gail
67	H08090485-003	EHR-0908-302	9/28/2008	203Gail
39	H08090485-004	EHR-0908-303	9/28/2008	109Gail
45	H08100167-001	EHR-1008-300	10/13/2008	1193Clark
46	H08100167-002	EHR-1008-301	10/13/2008	1195Clark
148	H08100167-003	EHR-1008-302	10/13/2008	401Gail
67	H08100167-004	EHR-1008-303	10/13/2008	203Gail
67	H08100167-005	EHR-1008-304	10/13/2008	203Gail
148	H08110125-001	EHR-1108-300	11/11/2008	401Gail
148	H08110125-002	EHR-1108-301	11/11/2008	401Gail
67	H08110125-003	EHR-1108-302	11/11/2008	203Gail
68	H08120092-001	EHR-1208-300	12/9/2008	203Gail
68	H08120092-002	EHR-1208-301	12/9/2008	203Gail
148	H08120092-003	EHR-1208-302	12/9/2008	401Gail
68	H09010129-001	EHR-0109-300	1/19/2009	203Gail
148	H09010129-002	EHR-0109-301	1/19/2009	401Gail
148	H09010129-003	EHR-0109-302	1/19/2009	401Gail
149	H09020112-001	EHR-0209-300	2/11/2009	401Gail
68	H09020112-002	EHR-0209-301	2/11/2009	203Gail
68	H09020112-003	EHR-0209-302	2/11/2009	203Gail
76	H09020112-004	EHR-0209-303	2/11/2009	2540 Wylie
149	H09030172-001	EHR-0309-300	3/21/2009	401Gail
76	H09030172-002	EHR-0309-301	3/21/2009	2540 Wylie
68	H09030172-003	EHR-0309-302	3/21/2009	203Gail
69	H09030172-004	EHR-0309-303	3/21/2009	203Gail
149	H09040136-001	EHR-0409-300	4/14/2009	401Gail
69	H09040136-002	EHR-0409-301	4/14/2009	203Gail
76	H09040136-003	EHR-0409-302	4/14/2009	2540 Wylie
76	H09040136-004	EHR-0409-303	4/14/2009	2540 Wylie
2	H09050213-001	EHR-0509-300	5/13/2009	001Gail
12	H09050213-002	EHR-0509-301	5/13/2009	003Gail
69	H09050213-003	EHR-0509-302	5/13/2009	203Gail
22	H09050213-004	EHR-0509-303	5/13/2009	105Gail
17	H09050213-005	EHR-0509-304	5/13/2009	009Gail
159	H09050213-006	EHR-0509-305	5/13/2009	407Porter
107	H09050213-007	EHR-0509-306	5/13/2009	303Thurman
250	H09050213-008	EHR-0509-307	5/13/2009	PelePk2

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246	H09050213-009	EHR-0509-308	5/13/2009	PelePk1
76	H09050213-010	EHR-0509-309	5/13/2009	2540 Wylie
236	H09050213-011	EHR-0509-310	5/13/2009	EHC2
233	H09050213-012	EHR-0509-311	5/13/2009	EHC1
238	H09050213-013	EHR-0509-312	5/13/2009	EHC3
238	H09050213-014	EHR-0509-313	5/13/2009	EHC3
149	H09050267-001	EHR-0509-315	5/19/2009	401Gail
30	H09050267-002	EHR-0509-316	5/19/2009	107Gros
72	H09050267-003	EHR-0509-317	5/19/2009	210Gros
171	H09050267-004	EHR-0509-318	5/19/2009	701Mnlv
173	H09050267-005	EHR-0509-319	5/19/2009	701Mnlv
200	H09050267-006	EHR-0509-320	5/19/2009	Amchem4
76	H09050340-001	EHR-0509-322	5/27/2009	2540 Wylie
78	H09050340-002	EHR-0509-323	5/27/2009	2540 Wylie
48	H09050340-003	EHR-0509-324	5/27/2009	126Clint
39	H09050340-004	EHR-0509-325	5/27/2009	109Gail
149	H09060109-001	EHR-0609-300	6/5/2009	401Gail
39	H09060109-002	EHR-0609-301	6/5/2009	109Gail
69	H09060109-003	EHR-0609-302	6/5/2009	203Gail
74	H09060109-004	EHR-0609-303	6/5/2009	2489Wylie
78	H09060109-005	EHR-0609-304	6/5/2009	2540 Wylie
78	H09060109-006	EHR-0609-305	6/5/2009	2540WylIr
80	H09060109-007	EHR-0609-306	6/5/2009	2540WylIr
242	H09060178-001	EHR-0609-310	6/10/2009	LCGMain
242	H09060178-002	EHR-0609-311	6/10/2009	LCG#4
240	H09060178-003	EHR-0609-312	6/10/2009	Homestead2
240	H09060178-004	EHR-0609-313	6/10/2009	Homestead1
252	H09060178-005	EHR-0609-314	6/10/2009	Rugler
229	H09060178-006	EHR-0609-315	6/10/2009	EastgateS
227	H09060178-007	EHR-0609-316	6/10/2009	EastgateIr
225	H09060178-008	EHR-0609-317	6/10/2009	CF Baptist
244	H09060178-009	EHR-0609-318	6/10/2009	McDon Tr
227	H09060178-010	EHR-0609-319	6/10/2009	CF Mini-B
227	H09060178-011	EHR-0609-320	6/10/2009	CF Mini-B
233	H09060261-001	EHR-0609-322	6/16/2009	EHC1
236	H09060261-002	EHR-0609-323	6/16/2009	EHC2
238	H09060261-003	EHR-0609-324	6/16/2009	EHC3
248	H09060261-004	EHR-0609-325	6/16/2009	PelePk1
250	H09060261-005	EHR-0609-326	6/16/2009	PelePk2
225	H09060261-006	EHR-0609-327	6/16/2009	BuzzInnW
225	H09060261-007	EHR-0609-328	6/16/2009	BuzzInnE
221	H09060261-008	EHR-0609-329	6/16/2009	3235DustMa
223	H09060261-009	EHR-0609-330	6/16/2009	3240 Shano

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223	H09060261-011	EHR-0609-332	6/16/2009	Bahny Brae
223	H09060261-012	EHR-0609-333	6/16/2009	Bahny Brae
149	H09070071-001	EHR-0709-300	7/3/2009	401Gail
69	H09070071-002	EHR-0709-301	7/3/2009	203Gail
39	H09070071-003	EHR-0709-302	7/3/2009	109Gail
78	H09070071-004	EHR-0709-303	7/3/2009	2540 Wylie
80	H09070071-005	EHR-0709-304	7/3/2009	2540WylIr
80	H09070071-006	EHR-0709-305	7/3/2009	2540WylIr
121	H09070211-001	EHR-0709-310	7/17/2009	3465Allied
123	H09070211-002	EHR-0709-311	7/17/2009	3475Allied
129	H09070211-003	EHR-0709-312	7/17/2009	3495Allied
123	H09070211-004	EHR-0709-313	7/17/2009	3480Allied
113	H09070211-005	EHR-0709-314	7/17/2009	3425Allied
96	H09070211-006	EHR-0709-315	7/17/2009	2880Winslo
94	H09070211-007	EHR-0709-316	7/17/2009	2830Winslo
88	H09070211-008	EHR-0709-317	7/17/2009	2770WinsII
90	H09070211-009	EHR-0709-318	7/17/2009	2770WinsII
151	H09080098-001	EHR-0809-300	8/7/2009	401Gail
69	H09080098-002	EHR-0809-301	8/7/2009	203Gail
78	H09080098-003	EHR-0809-302	8/7/2009	2540 Wylie
80	H09080098-004	EHR-0809-303	8/7/2009	2540WylIr
39	H09080098-005	EHR-0809-304	8/7/2009	109Gail
41	H09080098-006	EHR-0809-305	8/7/2009	109Gail
80	H09080156-001	EHR-0809-310	8/12/2009	2700 Winsl
82	H09080156-002	EHR-0809-311	8/12/2009	2720 Winsl
84	H09080156-003	EHR-0809-312	8/12/2009	2730 Winsl
86	H09080156-004	EHR-0809-313	8/12/2009	2746 Winsl
84	H09080156-005	EHR-0809-314	8/12/2009	2735 Winsl
82	H09080156-006	EHR-0809-315	8/12/2009	2705 Winsl
117	H09080156-007	EHR-0809-316	8/12/2009	3434Beck1
117	H09080156-008	EHR-0809-317	8/12/2009	3434Beck2
125	H09080156-009	EHR-0809-318	8/12/2009	3485Beck
119	H09080156-010	EHR-0809-319	8/12/2009	3463 Beck
115	H09080156-011	EHR-0809-320	8/12/2009	3433Beck
90	H09080156-012	EHR-0809-321	8/12/2009	2779Winslo
90	H09080156-013	EHR-0809-322	8/12/2009	2775Winslo
82	H09080156-014	EHR-0809-323	8/12/2009	2715Winslo
84	H09080156-015	EHR-0809-324	8/12/2009	2725Winslo
86	H09080156-016	EHR-0809-325	8/12/2009	2743Winslo
86	H09080156-017	EHR-0809-326	8/12/2009	2740Winslo
88	H09080156-018	EHR-0809-327	8/12/2009	2765 1/2Wi
88	H09080156-019	EHR-0809-328	8/12/2009	2765Winslo

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88	H09080156-020	EHR-0809-329	8/12/2009	2765Winslo
90	H09080233-001	EHR-0809-331	8/19/2009	2770WinslI
92	H09080233-002	EHR-0809-332	8/19/2009	2780WinslH
92	H09080233-003	EHR-0809-333	8/19/2009	2780WinslK
113	H09080233-004	EHR-0809-334	8/19/2009	3420Weston
119	H09080233-005	EHR-0809-335	8/19/2009	3460Weston
117	H09080233-006	EHR-0809-336	8/19/2009	3445Weston
121	H09080233-007	EHR-0809-337	8/19/2009	3470Weston
94	H09080233-008	EHR-0809-338	8/19/2009	2830Winslo
92	H09080233-009	EHR-0809-339	8/19/2009	2795Winslo
94	H09080233-010	EHR-0809-340	8/19/2009	2850Weston
96	H09080233-011	EHR-0809-341	8/19/2009	2858Winslo
119	H09080233-012	EHR-0809-342	8/19/2009	3459Winslo
121	H09080233-013	EHR-0809-343	8/19/2009	3465Weston
127	H09080233-014	EHR-0809-344	8/19/2009	3489Weston
127	H09080233-015	EHR-0809-345	8/19/2009	3491Weston
127	H09080233-016	EHR-0809-346	8/19/2009	3490Weston
113	H09080233-017	EHR-0809-347	8/19/2009	3425Allied
115	H09080233-018	EHR-0809-348	8/19/2009	3425Allied
113	H09080292-001	EHR-0809-350	8/25/2009	3350 Beck
173	H09080292-002	EHR-0809-351	8/25/2009	701Mnlv
175	H09080292-003	EHR-0809-352	8/25/2009	800MnLv
177	H09080292-004	EHR-0809-353	8/25/2009	801Manlove
125	H09080292-005	EHR-0809-354	8/25/2009	3485Weston
123	H09080292-006	EHR-0809-355	8/25/2009	3480WestoH
125	H09080292-007	EHR-0809-356	8/25/2009	3480WestoK
115	H09080292-008	EHR-0809-357	8/25/2009	3430Weston
115	H09080292-009	EHR-0809-358	8/25/2009	3430Weston
129	H09080292-010	EHR-0809-359	8/25/2009	3655 Hwy12
129	H09080292-011	EHR-0809-360	8/25/2009	3885 Hwy12
186	HYD-8923	AEH-8310-01	10/17/1983	Amchem2
186	HYD-8924	AEH-8310-02	10/17/1983	Amchem2
203	HYD-8960	AEH-8310-03	10/17/1983	BRNHM1
203	HYD-8961	AEH-8310-04	10/17/1983	BRNHM1
164	HYD-9019	AEH-8301-01	1/27/1983	701Mnlv
4	HYD-9023	AEH-8301-02	1/24/1983	003Gail
153	HYD-9086	AEH-8301-03	1/26/1983	407Porter
208	HYD-9089	AEH-8303-01	3/7/1983	HOFF/BROWN
208	HYD-9090	AEH-8310-05	10/17/1983	HOFF/BROWN
208	HYD-9091	AEH-8310-06	10/17/1983	HOFF/BROWN
209	HYD-9093	AEH-8310-07	10/17/1983	JENSA1
209	HYD-9094	AEH-8310-09	10/17/1983	JENSA1
210	HYD-9150	AEH-8306-01	6/17/1983	LAMPC

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210	HYD-9151	AEH-8310-08	10/17/1983	LAMPC
211	HYD-9152	AEH-8310-11	10/17/1983	LAMPC
211	HYD-9153	AEH-8301-04	1/24/1983	LAMPR
213	HYD-9166	AEH-8301-05	1/24/1983	MANION
213	HYD-9167	AEH-8303-02	3/7/1983	MANION
213	HYD-9168	AEH-8310-10	10/17/1983	MANION
244	HYD-9171	AEH-8306-02	6/20/1983	McDon Tr
198	L000705001	EHC-0005-100	5/9/2000	Amchem4
170	L000705024	EHC-0005-138	5/9/2000	701Mnlv
9	L000705025	EHC-0005-139	5/9/2000	003Gail
26	L000705032	EHC-0005-160	5/9/2000	107Gros
183	L000705033	EHC-0005-161	5/9/2000	802Mnlv
19	L001325001	EHR-0008-100	8/17/2000	105Gail
27	L001833001	EHC-0011-162	10/30/2000	107Gros
9	L001833002	EHC-0011-140	10/30/2000	003Gail
198	L001833003	EHC-0011-100	10/30/2000	Amchem4
170	L001833004	EHC-0011-139	10/30/2000	701Mnlv
170	L001833005	EHC-0011-163	10/30/2000	701Mnlv
229	L010183001	EHST-0102-100	2/7/2001	EH CITY WA
170	L010691006	EHC-0105-230	5/11/2001	701Mnlv
183	L010691012	EHC-0105-179	5/11/2001	802Mnlv
198	L010691015	EHC-0105-100	5/11/2001	Amchem4
27	L010691016	EHC-0105-112	5/11/2001	107Gros
170	L010691029	EHC-0105-165	5/11/2001	701Mnlv
9	L010691030	EHC-0105-166	5/11/2001	003Gail
186	L010825001	EHC-0106-100	6/5/2001	Amchem1
107	L010825002	EHC-0106-121	6/5/2001	316Mont
14	L010825003	EHC-0106-113	6/5/2001	009Gail
20	L010825004	EHC-0106-126	6/5/2001	105Gail
32	L010825005	EHC-0106-127	6/5/2001	109Gail
221	L010825006	EHC-0106-134	6/5/2001	WESTON/MAR
98	L010825007	EHC-0106-128	6/5/2001	301Gail
103	L010825008	EHC-0106-107	6/7/2001	303Thurman
103	L010825009	EHC-0106-135	6/7/2001	303Thurman
214	L010825010	EHC-0106-136	6/7/2001	OXY-PLT
50	L010825013	EHC-0106-139	6/12/2001	126ClintH
52	L010825014	EHC-0106-140	6/12/2001	126ClintI
159	L010825015	EHC-0106-141	6/13/2001	607Lewi
155	L010825016	EHC-0106-114	6/13/2001	407Porter
193	L010989001	EHC-0106-142	7/6/2001	Amchem3
9	L010989002	EHC-0106-109	7/6/2001	003Gail
1	L010989003	EHC-0106-143	7/6/2001	001Gail
219	L010989004	EHC-0106-144	7/6/2001	WALTER/CAR

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27	L010989005	EHC-0106-145	7/6/2001	107Gros
71	L011005020	EHC-0106-146	7/13/2001	210Gros
200	L011133001	EHC-0106-102	8/3/2001	ASARCO-2
217	L011133002	EHC-0106-130	8/3/2001	VETSCH
207	L011133003	EHC-0106-112	8/3/2001	ERNST/FOX
112	L011133004	EHC-0106-103	8/3/2001	317Gail
50	L011668001	EHC-0111-242	12/19/2001	126ClintH
171	L011668002	EHC-0111-243	12/19/2001	701Mnlv
10	L011668003	EHC-0111-245	12/19/2001	003Gail
10	L011668004	EHC-0111-246	12/19/2001	003Gail
20	L011668005	EHC-0111-247	12/19/2001	105Gail
221	L011668006	EHC-0111-252	12/19/2001	WESTON/MAR
215	L011668007	EHC-0111-253	12/19/2001	OXY-PLT
193	L011668010	EHC-0111-256	12/20/2001	Amchem3
198	L011668011	EHC-0111-257	12/20/2001	Amchem4
198	L011668012	EHC-0111-258	12/20/2001	Amchem4
14	L011668013	EHC-0111-259	12/20/2001	009Gail
112	L011668014	EHC-0111-260	12/20/2001	317Gail
104	L011668015	EHC-0111-262	12/20/2001	303Thurman
161	L011668016	EHC-0111-263	12/20/2001	607Lewi
155	L020030001	EHC-0111-268	1/15/2002	407Porter
107	L020030002	EHC-0111-269	1/15/2002	316Mont
133	L020496001	EHC-0205-239	6/24/2002	401Gail
133	L020496002	EHC-0205-240	6/24/2002	401Gail
98	L020496003	EHC-0205-241	6/24/2002	301Gail
54	L020496004	EHC-0205-242	6/24/2002	203Gail
32	L020496005	EHC-0205-243	6/24/2002	109Gail
14	L020496006	EHC-0205-245	6/24/2002	009Gail
50	L020496007	EHC-0205-246	6/24/2002	126ClintH
50	L020496008	EHC-0205-247	6/24/2002	126ClintH
1	L020496009	EHC-0205-249	6/24/2002	001Gail
71	L020496010	EHC-0205-250	6/24/2002	210Gros
109	L020496011	EHC-0205-252	6/24/2002	316Mont
104	L020496012	EHC-0205-253	6/24/2002	303Thurman
161	L020496013	EHC-0205-254	6/24/2002	607Lewi
155	L020496014	EHC-0205-255	6/24/2002	407Porter
27	L020498001	EHC-0205-251	6/24/2002	107Gros
171	L020498002	EHC-0205-257	6/25/2002	701Mnlv
183	L020498003	EHC-0205-258	6/25/2002	802Mnlv
184	L020498004	EHC-0205-259	6/25/2002	802SMnlv
198	L020498005	EHC-0205-261	6/26/2002	Amchem4
20	L020498006	EHC-0205-244	6/24/2002	105Gail
10	L020498007	EHC-0205-248	6/24/2002	003Gail

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175	L020499001	EHC-0205-260	6/25/2002	800MnLv
99	L020658001	EHR-0208-100	8/13/2002	301Gail
54	L020658002	EHR-0208-101	8/13/2002	203Gail
32	L020658003	EHR-0208-102	8/13/2002	109Gail
20	L020658004	EHR-0208-103	8/13/2002	105Gail
14	L020658005	EHR-0208-104	8/13/2002	009Gail
10	L020658006	EHR-0208-105	8/13/2002	003Gail
10	L020658007	EHR-0208-106	8/13/2002	003Gail
27	L020658008	EHR-0208-107	8/13/2002	107Gros
104	L020658009	EHR-0208-108	8/13/2002	303Thurman
109	L020658010	EHR-0208-109	8/13/2002	316Mont
50	L020658011	EHR-0208-110	8/13/2002	126ClintH
52	L020658012	EHR-0208-111	8/13/2002	126ClintI
161	L020658013	EHR-0208-112	8/13/2002	607Lewi
1	L020658014	EHR-0208-113	8/13/2002	001Gail
155	L020658015	EHR-0208-114	8/13/2002	407Porter
71	L020658016	EHR-0208-115	8/13/2002	210Gros
133	L020658017	EHR-0208-116	8/14/2002	401Gail
20	L020899001	EHR-0210-100	10/29/2002	105Gail
54	L020899002	EHR-0210-101	10/29/2002	203Gail
14	L020899003	EHR-0210-102	10/29/2002	009Gail
14	L020899004	EHR-0210-103	10/29/2002	009Gail
10	L020899005	EHR-0210-104	10/29/2002	003Gail
161	L020899006	EHR-0210-105	10/30/2002	607Lewi
50	L020899007	EHR-0210-106	10/30/2002	126ClintH
104	L020899008	EHR-0210-107	10/30/2002	303Thurman
199	L020899009	EHR-0210-108	10/30/2002	Amchem4
171	L020899010	EHR-0210-109	10/30/2002	701Mnlv
175	L020899011	EHR-0210-110	10/30/2002	800MnLv
134	L020916001	EHR-0210-111	10/31/2002	401Gail
1	L020937001	EHR-0210-112	11/8/2002	001Gail
155	L020937002	EHR-0210-113	11/8/2002	407Porter
155	L021013001	EHR-0212-100	12/11/2002	407Porter
156	L021013002	EHR-0212-101	12/11/2002	407Porter
54	L021013003	EHR-0212-102	12/11/2002	203Gail
20	L021013004	EHR-0212-103	12/11/2002	105Gail
15	L021013005	EHR-0212-104	12/11/2002	009Gail
11	L021013006	EHR-0212-105	12/11/2002	003Gail
104	L021013007	EHR-0212-106	12/11/2002	303Thurman
51	L021013008	EHR-0212-107	12/11/2002	126ClintH
161	L021013009	EHR-0212-108	12/11/2002	607Lewi
1	L021013010	EHR-0212-109	12/11/2002	001Gail
134	L021035001	EHR-0212-110	12/12/2002	401Gail

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134	L030190001	EHR-0305-100	5/1/2003	401Gail
1	L030190002	EHR-0305-101	5/1/2003	001Gail
15	L030190003	EHR-0305-102	5/1/2003	009Gail
21	L030190004	EHR-0305-103	5/1/2003	105Gail
21	L030190005	EHR-0305-104	5/1/2003	105Gail
56	L030190006	EHR-0305-105	5/1/2003	203Gail
104	L030190007	EHR-0305-106	5/1/2003	303Thurman
156	L030190008	EHR-0305-107	5/1/2003	407Porter
51	L030190009	EHR-0305-108	5/1/2003	126ClintH
199	L030190010	EHR-0305-109	5/1/2003	Amchem4
171	L030190011	EHR-0305-110	5/1/2003	701Mnlv
11	L030190012	EHR-0305-111	5/1/2003	003Gail
109	L030190013	EHR-0305-112	5/1/2003	316Mont
161	L030190014	EHR-0305-113	5/1/2003	607Lewi
27	L030196001	EHR-0305-114	5/6/2003	107Gros
99	L030359001	EHR-0307-200	7/23/2003	301Gail
99	L030359002	EHR-0307-201	7/23/2003	301Gail
71	L030359003	EHR-0307-203	7/23/2003	210Gros
51	L030359005	EHR-0307-205	7/23/2003	126ClintH
134	L030359006	EHR-0307-206	7/23/2003	401Gail
32	L030446001	EHR-0803-100	8/13/2003	109Gail
134	L030504002	EHR-0903-101	9/10/2003	401Gail
134	L030504003	EHR-0903-102	9/10/2003	401Gail
99	L030504004	EHR-0903-103	9/10/2003	301Gail
32	L030504005	EHR-0903-104	9/10/2003	109Gail
135	L030590001	EHC-0310-310	10/22/2003	401Gail
56	L030598005	AEH-0310-312	10/24/2003	203Gail
197	L992007001	EHC-9911-101	11/5/1999	Amchem4
170	L992008004	EHC-9911-139	11/5/1999	701Mnlv
9	L992008005	EHC-9911-140	11/5/1999	003Gail
9	L992009002	EHC-9911-166	11/5/1999	003Gail
203	S5388	AEH-8411-9-S	11/2/1984	BRNHM1
211	S5397	AEH-8411-7-S	11/3/1984	LAMPC
37	z	EHR-1107-109	11/7/2007	109Gail
74	z	EHR-0507-Pac212E	5/24/2007	212EPac
102	z	EHR-0507-Gail301	5/22/2007	301Gail
103	z	EHR-1107-301Gail	11/7/2007	301Gail
159	z	EHR-0507-Gail409	5/22/2007	409Gail
221	z	EHR-1107-1120Clark	11/7/2007	1120Clark

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56	AEH-0310-312	L030598005	10/24/2003	203Gail
164	AEH-8301-01	HYD-9019	1/27/1983	701Mnlv
4	AEH-8301-02	HYD-9023	1/24/1983	003Gail
153	AEH-8301-03	HYD-9086	1/26/1983	407Porter
211	AEH-8301-04	HYD-9153	1/24/1983	LAMPR
213	AEH-8301-05	HYD-9166	1/24/1983	MANION
208	AEH-8303-01	HYD-9089	3/7/1983	HOFF/BROWN
213	AEH-8303-02	HYD-9167	3/7/1983	MANION
210	AEH-8306-01	HYD-9150	6/17/1983	LAMPC
244	AEH-8306-02	HYD-9171	6/20/1983	McDon Tr
186	AEH-8310-01	HYD-8923	10/17/1983	Amchem2
186	AEH-8310-02	HYD-8924	10/17/1983	Amchem2
203	AEH-8310-03	HYD-8960	10/17/1983	BRNHM1
203	AEH-8310-04	HYD-8961	10/17/1983	BRNHM1
208	AEH-8310-05	HYD-9090	10/17/1983	HOFF/BROWN
208	AEH-8310-06	HYD-9091	10/17/1983	HOFF/BROWN
209	AEH-8310-07	HYD-9093	10/17/1983	JENSA1
210	AEH-8310-08	HYD-9151	10/17/1983	LAMPC
209	AEH-8310-09	HYD-9094	10/17/1983	JENSA1
213	AEH-8310-10	HYD-9168	10/17/1983	MANION
211	AEH-8310-11	HYD-9152	10/17/1983	LAMPC
164	AEH-8411-0	84-10855	11/3/1984	701Mnlv
186	AEH-8411-1	84-10841	11/3/1984	Amchem2
192	AEH-8411-2	84-10842	11/3/1984	Amchem3
153	AEH-8411-3	84-10843	11/3/1984	407Porter
244	AEH-8411-4	84-10844	11/2/1984	McDon Tr
4	AEH-8411-5	84-10845	11/2/1984	003Gail
213	AEH-8411-6	84-10846	11/2/1984	MANION
211	AEH-8411-7	84-10847	11/3/1984	LAMPC
211	AEH-8411-7-S	S5397	11/3/1984	LAMPC
107	AEH-8411-8	84-10848	11/2/1984	316Mont
203	AEH-8411-9	84-10849	11/2/1984	BRNHM1
203	AEH-8411-9-S	S5388	11/2/1984	BRNHM1
4	AEH-8411-10	84-10850	11/3/1984	003Gail
153	AEH-8411-11	84-10851	11/4/1984	407Porter
205	AEH-8505-407	85-3613	5/13/1985	BRNHM1
131	AEH-8505-408	85-3614	5/14/1985	401Gail
131	AEH-8505-408	8505-408	5/14/1985	401Gail
164	AEH-8505-412	85-3615	5/13/1985	701Mnlv
187	AEH-8505-413	85-3616	5/13/1985	Amchem2
192	AEH-8505-414	85-3617	5/13/1985	Amchem3
153	AEH-8505-415	85-3618	5/13/1985	407Porter
244	AEH-8505-416	85-3619	5/13/1985	McDon Tr

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213	AEH-8505-417	85-3620	5/14/1985	MANION
4	AEH-8505-418	85-3621	5/14/1985	003Gail
107	AEH-8505-419	85-3622	5/14/1985	316Mont
211	AEH-8505-420	85-3623	5/13/1985	LAMPC
205	AEH-8505-421	85-3624	5/13/1985	BRNHM1
208	AEH-8505-455	85-3625	5/14/1985	HOFF/BROWN
131	AEH-8505-456	85-3626	5/14/1985	401Gail
205	AEH-8505-457	8505-457	5/14/1985	ERNST/FOX
206	AEH-8505-457	85-3627	5/14/1985	ERNST/FOX
110	AEH-8505-458	85-3628	5/14/1985	317Gail
216	AEH-8505-459	85-3629	5/14/1985	VETSCH
96	AEH-8505-460	85-3630	5/14/1985	301Gail
220	AEH-8505-461	85-3631	5/14/1985	WESTON/MAR
212	AEH-8505-462	85-3632	5/14/1985	LAMPR
30	AEH-8505-463	85-3633	5/14/1985	109Gail
17	AEH-8505-464	85-3634	5/14/1985	105Gail
12	AEH-8505-465	85-3635	5/14/1985	009Gail
164	AEH-8610-101	8610-101	10/10/1986	701Mnlv
164	AEH-8610-101	86-6895	10/10/1986	701Mnlv
131	AEH-8610-102	86-6932	10/14/1986	401Gail
187	AEH-8610-105	8610-105	10/10/1986	Amchem2
187	AEH-8610-105	86-6893	10/10/1986	Amchem2
193	AEH-8610-106	86-6930	10/14/1986	Amchem4
193	AEH-8610-106	8610-106	10/14/1986	Amchem4
164	AEH-8610-107	8610-107	10/10/1986	701Mnlv
165	AEH-8610-107	86-6894	10/10/1986	701Mnlv
153	AEH-8610-109	8610-109	10/10/1986	407Porter
153	AEH-8610-109	86-6897	10/10/1986	407Porter
4	AEH-8610-110	86-6954	10/14/1986	003Gail
4	AEH-8610-110	8610-110	10/14/1986	003Gail
17	AEH-8610-111	8610-111	10/14/1986	105Gail
19	AEH-8610-111	86-6929	10/14/1986	105Gail
220	AEH-8610-112	8610-112	10/14/1986	WESTON/MAR
220	AEH-8610-112	86-6928	10/14/1986	WESTON/MAR
96	AEH-8610-113	8610-113	10/14/1986	301Gail
98	AEH-8610-113	86-6927	10/14/1986	301Gail
110	AEH-8610-114	8610-114	10/14/1986	317Gail
112	AEH-8610-114	86-6926	10/14/1986	317Gail
206	AEH-8610-115	8610-115	10/14/1986	ERNST/FOX
206	AEH-8610-115	86-6925	10/14/1986	ERNST/FOX
216	AEH-8610-116	86-6924	10/14/1986	VETSCH
131	AEH-8610-117	8610-117	10/14/1986	401Gail

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131	AEH-8610-117	86-6923	10/14/1986	401Gail
214	AEH-8610-118	8610-118	10/14/1986	MANION
214	AEH-8610-118	86-6946	10/14/1986	MANION
208	AEH-8610-119	86-6945	10/14/1986	HOFF/BROWN
208	AEH-8610-119	8610-119	10/14/1986	HOFF/BROWN
212	AEH-8610-141	86-6936	10/14/1986	LAMPR
212	AEH-8610-141	8610-141	10/14/1986	LAMPR
30	AEH-8610-142	86-6935	10/14/1986	109Gail
30	AEH-8610-142	8610-142	10/14/1986	109Gail
231	AEH-8612-04	8612-04	12/2/1986	EHC1
231	AEH-8612-04	86-8050	12/2/1986	EHC1
231	AEH-8612-05	86-8051	12/2/1986	EHC1
233	AEH-8612-07	8612-07	12/2/1986	EHC2
235	AEH-8612-07	86-8053	12/2/1986	EHC2
235	AEH-8612-07 SD	8612-07 SD	12/2/1986	EHC2
202	AEH-8701-116	87-657	1/29/1987	ASRWELL
202	AEH-8701-116	8701-116	1/29/1987	ASRWELL
215	AEH-8701-117	87-792	2/5/1987	SIMAC
210	AEH-8701-118	87-794	2/6/1987	KAMRMN
210	AEH-8701-118	8701-118	2/6/1987	KAMRMN
165	AEH-8701-120	87-660	1/29/1987	701Mnlv
231	AEH-8701-122	87-661	1/29/1987	EHC1
202	AEH-8701-130	87-658	1/29/1987	ASRWELL
173	AEH-8701-134	87-778	2/3/1987	800MnLv
177	AEH-8701-135	87-780	2/3/1987	802Mnlv
217	AEH-8701-137	87-783	2/3/1987	WALTER/CAR
215	AEH-8701-143	87-793	2/5/1987	SIMAC
210	AEH-8701-144	87-795	2/6/1987	KAMRMN
202	AEH-8703-01	87-1633	3/16/1987	ASRWELL
165	AEH-8703-02	87-1634	3/16/1987	701Mnlv
202	AEH-8703-04	87-1636	3/16/1987	ASRWELL
187	AEH-8704-34	87-3029	5/5/1987	Amchem2
194	AEH-8704-35	87-3028	2/20/1987	Amchem4
202	AEH-8704-39	8704-39	5/5/1987	ASRWELL
203	AEH-8704-39	87-3027	5/5/1987	ASRWELL
212	AEH-8704-40	87-2852	4/28/1987	LAMPR
154	AEH-8704-41	87-3024	5/5/1987	407Porter
5	AEH-8704-42	87-2855	4/28/1987	003Gail
19	AEH-8704-43	87-2854	4/28/1987	105Gail
220	AEH-8704-44	87-2851	4/28/1987	WESTON/MAR
98	AEH-8704-45	87-2850	4/28/1987	301Gail
112	AEH-8704-46	87-2848	4/28/1987	317Gail
206	AEH-8704-47	8704-47	4/28/1987	ERNST/FOX

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216	AEH-8704-48	87-2849	4/28/1987	VETSCH
133	AEH-8704-49	87-2846	4/28/1987	401Gail
209	AEH-8704-51	87-2843	4/28/1987	HOFF/BROWN
215	AEH-8704-52	87-3026	5/5/1987	SIMAC
215	AEH-8704-52	8704-52	5/5/1987	SIMAC
22	AEH-8704-54	8704-54	4/29/1987	107Gros
24	AEH-8704-54	87-2910	4/29/1987	107Gros
30	AEH-8704-56	87-2853	4/28/1987	109Gail
231	AEH-8704-57	87-2913	4/29/1987	EHC1
231	AEH-8704-57	8704-57	4/29/1987	EHC1
235	AEH-8704-58	87-2912	4/29/1987	EHC2
235	AEH-8704-58	8704-58	4/29/1987	EHC2
209	AEH-8704-60	87-2845	4/28/1987	HOFF/BROWN
24	AEH-8704-61	8704-61	4/29/1987	107Gros
24	AEH-8704-61	87-2911	4/29/1987	107Gros
154	AEH-8704-64	87-3025	5/5/1987	407Porter
214	AEH-8704-150	87-2844	4/28/1987	MANION
214	AEH-8704-150	8704-150	4/28/1987	MANION
165	AEH-8705-1	87-3035	5/6/1987	701Mnlv
165	AEH-8705-1	8705-1	5/6/1987	701Mnlv
177	AEH-8705-2	8705-2	5/6/1987	802Mnlv
177	AEH-8705-2	87-3030	5/6/1987	802Mnlv
173	AEH-8705-3	87-3034	5/6/1987	800MnLv
173	AEH-8705-3	8705-3	5/6/1987	800MnLv
177	AEH-8705-41	8705-41	5/6/1987	802Mnlv
179	AEH-8705-41	87-3031	5/6/1987	802Mnlv
232	AEH-8708-28	87-6491	8/3/1987	EHC1
235	AEH-8708-29	87-6492	8/3/1987	EHC2
232	AEH-8708-39	87-6496	8/3/1987	EHC1
187	AEH-8710-51	87-10001	10/27/1987	Amchem2
187	AEH-8710-51	8710-51	10/27/1987	Amchem2
184	AEH-8710-52	87-10002	10/27/1987	Amchem1
133	AEH-8710-58	87-10023	11/2/1987	401Gail
98	AEH-8710-59	87-10004	11/2/1987	301Gail
217	AEH-8710-60	87-10003	11/2/1987	VETSCH
217	AEH-8710-60	8710-60	11/2/1987	VETSCH
206	AEH-8710-62	87-10021	11/2/1987	ERNST/FOX
220	AEH-8710-63	87-10022	11/2/1987	WESTON/MAR
19	AEH-8710-64	87-10015	11/3/1987	105Gail
218	AEH-8710-65	87-10016	11/3/1987	WALTER/CAR
218	AEH-8710-65	8710-65	11/3/1987	WALTER/CAR
5	AEH-8710-66	87-10017	11/3/1987	003Gail

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154	AEH-8710-67	87-10018	11/3/1987	407Porter
24	AEH-8710-68	8710-68	11/3/1987	107Gros
24	AEH-8710-68	87-10020	11/3/1987	107Gros
188	AEH-8710-72	87-10000	10/27/1987	Amchem2
188	AEH-8710-72	8710-72	10/27/1987	Amchem2
19	AEH-8710-73	87-10012	11/3/1987	105Gail
218	AEH-8710-74	87-10013	11/3/1987	WALTER/CAR
218	AEH-8710-74	8710-74	11/3/1987	WALTER/CAR
216	AEH-8710-75	87-10019	11/3/1987	SIMAC
186	AEH-8804-362	88-2724	4/12/1988	Amchem1
193	AEH-8804-363	88-2725	4/12/1988	Amchem3
24	AEH-8804-366	88-2614	4/8/1988	107Gros
5	AEH-8804-367	88-2615	4/7/1988	003Gail
218	AEH-8804-368	88-2616	4/7/1988	WALTER/CAR
12	AEH-8804-369	88-2617	4/7/1988	009Gail
19	AEH-8804-370	88-2618	4/7/1988	105Gail
212	AEH-8804-372	88-2619	4/6/1988	LAMPR
220	AEH-8804-373	88-2620	4/6/1988	WESTON/MAR
207	AEH-8804-374	88-2621	4/6/1988	ERNST/FOX
112	AEH-8804-375	88-2622	4/6/1988	317Gail
217	AEH-8804-376	88-2623	4/6/1988	VETSCH
98	AEH-8804-377	88-2624	4/6/1988	301Gail
133	AEH-8804-378	88-2625	4/7/1988	401Gail
103	AEH-8804-379	88-2627	4/8/1988	303Thurman
216	AEH-8804-381	88-2726	4/12/1988	SIMAC
232	AEH-8804-382	88-2727	4/12/1988	EHC1
235	AEH-8804-383	88-2728	4/12/1988	EHC2
154	AEH-8804-384	88-2627	4/8/1988	407Porter
207	AEH-8804-385	88-2610	4/6/1988	ERNST/FOX
154	AEH-8804-386	88-2609	4/8/1988	407Porter
232	AEH-8804-387	88-2733	4/12/1988	EHC1
179	AEH-8807-10	88-5012	7/27/1988	802Mnlv
165	AEH-8807-12	88-5013	7/27/1988	701Mnlv
166	AEH-8807-13	88-5014	7/27/1988	701Mnlv
175	AEH-8807-14	88-5015	7/27/1988	800MnLv
188	AEH-8812-181	89-1	12/6/1988	Amchem2
218	AEH-8812-184	89-5	12/6/1988	WALTER/CAR
194	AEH-8812-209	89-2	12/6/1988	Amchem4
166	AEH-8812-210	89-3	12/6/1988	701Mnlv
179	AEH-8812-211	89-4	12/6/1988	802Mnlv
188	AEH-8904-252	89-555	4/27/1989	Amchem2
5	AEH-8904-254	89-565	5/1/1989	003Gail

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194	AEH-8904-286	89-701	4/27/1989	Amchem4
166	AEH-8904-287	89-552	4/27/1989	701Mnlv
179	AEH-8904-289	89-553	4/27/1989	802Mnlv
179	AEH-8904-293	89-554	4/27/1989	802Mnlv
205	AEH-8904-296	89-566	5/1/1989	CASEY
219	AEH-8910-454	89-844	10/25/1989	WALTER/CAR
25	AEH-8910-461	89-800	10/12/1989	107Gros
5	AEH-8910-462	89-847	10/25/1989	003Gail
219	AEH-8910-463	89-848	10/25/1989	WALTER/CAR
188	AEH-8910-464	89-849	10/25/1989	Amchem2
194	AEH-8910-465	89-850	10/25/1989	Amchem4
166	AEH-8910-472	89-851	10/25/1989	701Mnlv
179	AEH-8910-488	89-853	10/25/1989	802Mnlv
5	AEH-9005-432	90-1079	5/3/1990	003Gail
6	AEH-9005-462	90-1069	5/3/1990	003Gail
219	AEH-9005-463	90-1070	5/3/1990	WALTER/CAR
166	AEH-9005-472	90-1071	5/2/1990	701Mnlv
188	AEH-9005-512	90-1073	5/3/1990	Amchem2
194	AEH-9005-513	90-1074	5/3/1990	Amchem4
180	AEH-9005-514	90-1075	5/3/1990	802Mnlv
6	AEH-9011-761	90-2270	12/7/1990	003Gail
189	AEH-9011-763	90-2272	12/7/1990	Amchem2
194	AEH-9011-764	90-2274	12/7/1990	Amchem4
166	AEH-9011-766	90-2275	12/7/1990	701Mnlv
180	AEH-9011-770	90-2271	12/7/1990	802Mnlv
189	AEH-9011-772	90-2273	12/7/1990	Amchem2
189	AEH-9105-108	91-2819	5/14/1991	Amchem2
195	AEH-9105-109	91-2820	5/14/1991	Amchem4
167	AEH-9105-110	91-2821	5/14/1991	701Mnlv
6	AEH-9105-111	91-2822	5/14/1991	003Gail
180	AEH-9105-112	91-2823	5/14/1991	802Mnlv
180	AEH-9105-115	91-2824	5/14/1991	802Mnlv
25	AEH-9105-168	91-2829	5/14/1991	107Gros
195	AEH-9111-313	91-3604	11/7/1991	Amchem4
180	AEH-9111-330	91-3609	11/7/1991	802Mnlv
6	AEH-9111-331	91-3606	11/7/1991	003Gail
189	AEH-9111-336	91-3605	11/7/1991	Amchem2
167	AEH-9111-352	91-3608	11/7/1991	701Mnlv
167	AEH-9204-103	92-4296	4/23/1992	701Mnlv
180	AEH-9204-114	92-4309	4/23/1992	802Mnlv
195	AEH-9204-115	92-4301	4/22/1992	Amchem4
189	AEH-9204-127	92-4304	4/22/1992	Amchem2

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189	AEH-9204-145	92-4306	4/22/1992	Amchem2
198	EHC-0005-100	L000705001	5/9/2000	Amchem4
170	EHC-0005-138	L000705024	5/9/2000	701Mnlv
9	EHC-0005-139	L000705025	5/9/2000	003Gail
26	EHC-0005-160	L000705032	5/9/2000	107Gros
183	EHC-0005-161	L000705033	5/9/2000	802Mnlv
198	EHC-0011-100	L001833003	10/30/2000	Amchem4
170	EHC-0011-139	L001833004	10/30/2000	701Mnlv
9	EHC-0011-140	L001833002	10/30/2000	003Gail
27	EHC-0011-162	L001833001	10/30/2000	107Gros
170	EHC-0011-163	L001833005	10/30/2000	701Mnlv
198	EHC-0105-100	L010691015	5/11/2001	Amchem4
27	EHC-0105-112	L010691016	5/11/2001	107Gros
170	EHC-0105-165	L010691029	5/11/2001	701Mnlv
9	EHC-0105-166	L010691030	5/11/2001	003Gail
183	EHC-0105-179	L010691012	5/11/2001	802Mnlv
170	EHC-0105-230	L010691006	5/11/2001	701Mnlv
186	EHC-0106-100	L010825001	6/5/2001	Amchem1
200	EHC-0106-102	L011133001	8/3/2001	ASARCO-2
112	EHC-0106-103	L011133004	8/3/2001	317Gail
103	EHC-0106-107	L010825008	6/7/2001	303Thurman
9	EHC-0106-109	L010989002	7/6/2001	003Gail
207	EHC-0106-112	L011133003	8/3/2001	ERNST/FOX
14	EHC-0106-113	L010825003	6/5/2001	009Gail
155	EHC-0106-114	L010825016	6/13/2001	407Porter
107	EHC-0106-121	L010825002	6/5/2001	316Mont
20	EHC-0106-126	L010825004	6/5/2001	105Gail
32	EHC-0106-127	L010825005	6/5/2001	109Gail
98	EHC-0106-128	L010825007	6/5/2001	301Gail
217	EHC-0106-130	L011133002	8/3/2001	VETSCH
221	EHC-0106-134	L010825006	6/5/2001	WESTON/MAR
103	EHC-0106-135	L010825009	6/7/2001	303Thurman
214	EHC-0106-136	L010825010	6/7/2001	OXY-PLT
50	EHC-0106-139	L010825013	6/12/2001	126ClintH
52	EHC-0106-140	L010825014	6/12/2001	126ClintI
159	EHC-0106-141	L010825015	6/13/2001	607Lewi
193	EHC-0106-142	L010989001	7/6/2001	Amchem3
1	EHC-0106-143	L010989003	7/6/2001	001Gail
219	EHC-0106-144	L010989004	7/6/2001	WALTER/CAR
27	EHC-0106-145	L010989005	7/6/2001	107Gros
71	EHC-0106-146	L011005020	7/13/2001	210Gros
50	EHC-0111-242	L011668001	12/19/2001	126ClintH

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10	EHC-0111-245	L011668003	12/19/2001	003Gail
10	EHC-0111-246	L011668004	12/19/2001	003Gail
20	EHC-0111-247	L011668005	12/19/2001	105Gail
221	EHC-0111-252	L011668006	12/19/2001	WESTON/MAR
215	EHC-0111-253	L011668007	12/19/2001	OXY-PLT
193	EHC-0111-256	L011668010	12/20/2001	Amchem3
198	EHC-0111-257	L011668011	12/20/2001	Amchem4
198	EHC-0111-258	L011668012	12/20/2001	Amchem4
14	EHC-0111-259	L011668013	12/20/2001	009Gail
112	EHC-0111-260	L011668014	12/20/2001	317Gail
104	EHC-0111-262	L011668015	12/20/2001	303Thurman
161	EHC-0111-263	L011668016	12/20/2001	607Lewi
155	EHC-0111-268	L020030001	1/15/2002	407Porter
107	EHC-0111-269	L020030002	1/15/2002	316Mont
133	EHC-0205-239	L020496001	6/24/2002	401Gail
133	EHC-0205-240	L020496002	6/24/2002	401Gail
98	EHC-0205-241	L020496003	6/24/2002	301Gail
54	EHC-0205-242	L020496004	6/24/2002	203Gail
32	EHC-0205-243	L020496005	6/24/2002	109Gail
20	EHC-0205-244	L020498006	6/24/2002	105Gail
14	EHC-0205-245	L020496006	6/24/2002	009Gail
50	EHC-0205-246	L020496007	6/24/2002	126ClintH
50	EHC-0205-247	L020496008	6/24/2002	126ClintH
10	EHC-0205-248	L020498007	6/24/2002	003Gail
1	EHC-0205-249	L020496009	6/24/2002	001Gail
71	EHC-0205-250	L020496010	6/24/2002	210Gros
27	EHC-0205-251	L020498001	6/24/2002	107Gros
109	EHC-0205-252	L020496011	6/24/2002	316Mont
104	EHC-0205-253	L020496012	6/24/2002	303Thurman
161	EHC-0205-254	L020496013	6/24/2002	607Lewi
155	EHC-0205-255	L020496014	6/24/2002	407Porter
171	EHC-0205-257	L020498002	6/25/2002	701Mnlv
183	EHC-0205-258	L020498003	6/25/2002	802Mnlv
184	EHC-0205-259	L020498004	6/25/2002	802SMnlv
175	EHC-0205-260	L020499001	6/25/2002	800MnLv
198	EHC-0205-261	L020498005	6/26/2002	Amchem4
135	EHC-0310-310	L030590001	10/22/2003	401Gail
181	EHC-9211-105	92-6816	11/20/1992	802Mnlv
190	EHC-9211-134	92-6810	11/20/1992	Amchem2
195	EHC-9211-145	92-6812	11/20/1992	Amchem4
6	EHC-9211-146	92-6805	11/20/1992	003Gail
167	EHC-9211-149	92-6800	11/20/1992	701Mnlv

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7	EHC-9305-108	93-7721	4/28/1993	003Gail
190	EHC-9305-110	93-7725	4/29/1993	Amchem2
195	EHC-9305-111	93-7726	4/29/1993	Amchem4
181	EHC-9305-112	93-7727	4/29/1993	802Mnlv
167	EHC-9305-113	93-7728	4/29/1993	701Mnlv
181	EHC-9305-114	93-7729	4/29/1993	802Mnlv
190	EHC-9311-104	93-9215	11/9/1993	Amchem2
195	EHC-9311-105	93-9229	11/9/1993	Amchem4
167	EHC-9311-132	93-9197	11/8/1993	701Mnlv
181	EHC-9311-146	93-9201	11/8/1993	802Mnlv
25	EHC-9311-159	93-9145	11/2/1993	107Gros
190	EHC-9405-104	94-1343	5/10/1994	Amchem2
196	EHC-9405-105	94-1335	5/10/1994	Amchem4
168	EHC-9405-137	94-1342	5/10/1994	701Mnlv
181	EHC-9405-150	94-1345	5/10/1994	802Mnlv
25	EHC-9405-159	94-1338	5/10/1994	107Gros
168	EHC-9405-173	94-1341	5/10/1994	701Mnlv
7	EHC-9405-174	94-1344	5/10/1994	003Gail
190	EHC-9411-104	94-3360	11/15/1994	Amchem2
196	EHC-9411-105	94-3361	11/15/1994	Amchem4
168	EHC-9411-137	94-3246	11/8/1994	701Mnlv
7	EHC-9411-138	94-3247	11/8/1994	003Gail
181	EHC-9411-152	94-3245	11/8/1994	802Mnlv
25	EHC-9411-159	94-3248	11/8/1994	107Gros
190	EHC-9505-100	95-4448	5/4/1995	Amchem2
196	EHC-9505-101	95-4449	5/4/1995	Amchem4
168	EHC-9505-137	95-4454	5/4/1995	701Mnlv
7	EHC-9505-138	95-4455	5/4/1995	003Gail
182	EHC-9505-151	95-4463	5/4/1995	802Mnlv
25	EHC-9505-158	95-4490	5/10/1995	107Gros
191	EHC-9511-100	95-6106	11/9/1995	Amchem2
196	EHC-9511-101	95-6107	11/9/1995	Amchem4
168	EHC-9511-139	95-6129	11/9/1995	701Mnlv
7	EHC-9511-140	95-6130	11/9/1995	003Gail
182	EHC-9511-153	95-6133	11/9/1995	802Mnlv
26	EHC-9511-162	EHC-9511-162	11/14/1995	107Gros
191	EHC-9511-189	95-6140	11/9/1995	Amchem2
191	EHC-9605-100	96-6768	5/10/1996	Amchem2
196	EHC-9605-101	96-6769	5/10/1996	Amchem4
168	EHC-9605-123	96-6786	5/10/1996	701Mnlv
182	EHC-9605-137	96-6790	5/10/1996	802Mnlv
191	EHC-9611-100	96-7761	11/6/1996	Amchem2
196	EHC-9611-101	96-7730	11/6/1996	Amchem4

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7	EHC-9611-124	96-7732	11/6/1996	003Gail
182	EHC-9611-137	96-7733	11/6/1996	802Mnlv
26	EHC-9611-144	96-7770	11/8/1996	107Gros
191	EHC-9705-100	97-897	5/6/1997	Amchem2
197	EHC-9705-101	97-898	5/6/1997	Amchem4
169	EHC-9705-122	97-908	5/5/1997	701Mnlv
182	EHC-9705-134	97-919	5/5/1997	802Mnlv
26	EHC-9705-157	97-929	5/6/1997	107Gros
8	EHC-9705-158	97-928	5/6/1997	003Gail
191	EHC-9711-100	192-2738	11/11/1997	Amchem2
197	EHC-9711-101	192-2739	11/11/1997	Amchem4
169	EHC-9711-123	192-2753	11/11/1997	701Mnlv
8	EHC-9711-124	192-2754	11/11/1997	003Gail
182	EHC-9711-137	192-2755	11/11/1997	802Mnlv
26	EHC-9711-144	192-2756	11/11/1997	107Gros
26	EHC-9711-159	193-2764	11/11/1997	107Gros
192	EHC-9805-100	262-3781	5/14/1998	Amchem2
197	EHC-9805-101	262-3782	5/14/1998	Amchem4
169	EHC-9805-124	262-3790	5/14/1998	701Mnlv
8	EHC-9805-125	262-3791	5/14/1998	003Gail
183	EHC-9805-138	262-3793	5/14/1998	802Mnlv
192	EHC-9811-100	323-4591	12/2/1998	Amchem2
197	EHC-9811-101	323-4592	12/2/1998	Amchem4
169	EHC-9811-123	323-4593	12/2/1998	701Mnlv
8	EHC-9811-124	323-4594	12/2/1998	003Gail
8	EHC-9811-157	323-4595	12/2/1998	003Gail
192	EHC-9905-100	348-4908	5/13/1999	Amchem2
197	EHC-9905-101	349-4939	5/13/1999	Amchem4
169	EHC-9905-123	348-4909	5/12/1999	701Mnlv
8	EHC-9905-124	349-4940	5/13/1999	003Gail
183	EHC-9905-137	348-4910	5/12/1999	802Mnlv
183	EHC-9905-155	348-4914	5/12/1999	802Mnlv
197	EHC-9911-101	L992007001	11/5/1999	Amchem4
170	EHC-9911-139	L992008004	11/5/1999	701Mnlv
9	EHC-9911-140	L992008005	11/5/1999	003Gail
9	EHC-9911-166	L992009002	11/5/1999	003Gail
19	EHR-0008-100	L001325001	8/17/2000	105Gail
57	EHR-0105-301	H05010131-001	1/23/2005	203Gail
135	EHR-0105-302	H05010131-003	1/23/2005	401Gail
136	EHR-0105-303	H05010131-004	1/23/2005	401Gail
58	EHR-0106-300	H06010094-001	1/12/2006	203Gail
137	EHR-0106-301	H06010094-002	1/12/2006	401Gail

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137	EHR-0106-302	H06010094-003	1/12/2006	401Gail
60	EHR-0107-300	H07010030-001	1/5/2007	203Gail
139	EHR-0107-301	H07010030-002	1/5/2007	401Gail
140	EHR-0107-302	H07010030-003	1/5/2007	401Gail
144	EHR-0108-300	H08010067-001	1/8/2008	401Gail
64	EHR-0108-301	H08010067-002	1/8/2008	203Gail
64	EHR-0108-302	H08010067-003	1/8/2008	203Gail
68	EHR-0109-300	H09010129-001	1/19/2009	203Gail
148	EHR-0109-301	H09010129-002	1/19/2009	401Gail
148	EHR-0109-302	H09010129-003	1/19/2009	401Gail
140	EHR-0207-300	H07020039-001	2/5/2007	401Gail
140	EHR-0207-301	H07020039-002	2/5/2007	401Gail
60	EHR-0207-303	H07020039-004	2/5/2007	203Gail
99	EHR-0208-100	L020658001	8/13/2002	301Gail
54	EHR-0208-101	L020658002	8/13/2002	203Gail
32	EHR-0208-102	L020658003	8/13/2002	109Gail
20	EHR-0208-103	L020658004	8/13/2002	105Gail
14	EHR-0208-104	L020658005	8/13/2002	009Gail
10	EHR-0208-105	L020658006	8/13/2002	003Gail
10	EHR-0208-106	L020658007	8/13/2002	003Gail
27	EHR-0208-107	L020658008	8/13/2002	107Gros
104	EHR-0208-108	L020658009	8/13/2002	303Thurman
109	EHR-0208-109	L020658010	8/13/2002	316Mont
50	EHR-0208-110	L020658011	8/13/2002	126ClintH
52	EHR-0208-111	L020658012	8/13/2002	126ClintI
161	EHR-0208-112	L020658013	8/13/2002	607Lewi
1	EHR-0208-113	L020658014	8/13/2002	001Gail
155	EHR-0208-114	L020658015	8/13/2002	407Porter
71	EHR-0208-115	L020658016	8/13/2002	210Gros
133	EHR-0208-116	L020658017	8/14/2002	401Gail
144	EHR-0208-300	H08020045-001	2/6/2008	401Gail
144	EHR-0208-301	H08020045-002	2/6/2008	401Gail
64	EHR-0208-302	H08020045-003	2/6/2008	203Gail
149	EHR-0209-300	H09020112-001	2/11/2009	401Gail
68	EHR-0209-301	H09020112-002	2/11/2009	203Gail
68	EHR-0209-302	H09020112-003	2/11/2009	203Gail
76	EHR-0209-303	H09020112-004	2/11/2009	2540 Wylie
20	EHR-0210-100	L020899001	10/29/2002	105Gail
54	EHR-0210-101	L020899002	10/29/2002	203Gail
14	EHR-0210-102	L020899003	10/29/2002	009Gail
14	EHR-0210-103	L020899004	10/29/2002	009Gail
10	EHR-0210-104	L020899005	10/29/2002	003Gail
161	EHR-0210-105	L020899006	10/30/2002	607Lewi

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104	EHR-0210-107	L020899008	10/30/2002	303Thurman
199	EHR-0210-108	L020899009	10/30/2002	Amchem4
171	EHR-0210-109	L020899010	10/30/2002	701Mnlv
175	EHR-0210-110	L020899011	10/30/2002	800MnLv
134	EHR-0210-111	L020916001	10/31/2002	401Gail
1	EHR-0210-112	L020937001	11/8/2002	001Gail
155	EHR-0210-113	L020937002	11/8/2002	407Porter
155	EHR-0212-100	L021013001	12/11/2002	407Porter
156	EHR-0212-101	L021013002	12/11/2002	407Porter
54	EHR-0212-102	L021013003	12/11/2002	203Gail
20	EHR-0212-103	L021013004	12/11/2002	105Gail
15	EHR-0212-104	L021013005	12/11/2002	009Gail
11	EHR-0212-105	L021013006	12/11/2002	003Gail
104	EHR-0212-106	L021013007	12/11/2002	303Thurman
51	EHR-0212-107	L021013008	12/11/2002	126ClintH
161	EHR-0212-108	L021013009	12/11/2002	607Lewi
1	EHR-0212-109	L021013010	12/11/2002	001Gail
134	EHR-0212-110	L021035001	12/12/2002	401Gail
134	EHR-0305-100	L030190001	5/1/2003	401Gail
1	EHR-0305-101	L030190002	5/1/2003	001Gail
15	EHR-0305-102	L030190003	5/1/2003	009Gail
21	EHR-0305-103	L030190004	5/1/2003	105Gail
21	EHR-0305-104	L030190005	5/1/2003	105Gail
56	EHR-0305-105	L030190006	5/1/2003	203Gail
104	EHR-0305-106	L030190007	5/1/2003	303Thurman
156	EHR-0305-107	L030190008	5/1/2003	407Porter
51	EHR-0305-108	L030190009	5/1/2003	126ClintH
199	EHR-0305-109	L030190010	5/1/2003	Amchem4
171	EHR-0305-110	L030190011	5/1/2003	701Mnlv
11	EHR-0305-111	L030190012	5/1/2003	003Gail
109	EHR-0305-112	L030190013	5/1/2003	316Mont
161	EHR-0305-113	L030190014	5/1/2003	607Lewi
27	EHR-0305-114	L030196001	5/6/2003	107Gros
57	EHR-0305-300	H05030118-001	3/16/2005	203Gail
57	EHR-0305-301	H05030118-002	3/16/2005	203Gail
136	EHR-0305-303	H05030118-004	3/16/2005	401Gail
151	EHR-0305-304	H05040005-001	3/31/2005	401SSGail
136	EHR-0305-305	H05040005-002	3/31/2005	401Gail
136	EHR-0305-306	H05040005-003	3/31/2005	401Gail
58	EHR-0306-300	H06030070-001	3/9/2006	203Gail
138	EHR-0306-301	H06030070-002	3/9/2006	401Gail
58	EHR-0306-302	H06030070-003	3/9/2006	203Gail

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99	EHR-0307-201	L030359002	7/23/2003	301Gail
71	EHR-0307-203	L030359003	7/23/2003	210Gros
51	EHR-0307-205	L030359005	7/23/2003	126ClintH
134	EHR-0307-206	L030359006	7/23/2003	401Gail
61	EHR-0307-300	H07030014-001	3/4/2007	203Gail
140	EHR-0307-301	H07030014-002	3/4/2007	401Gail
140	EHR-0307-302	H07030014-003	3/4/2007	401Gail
64	EHR-0308-300	H08030167-001	3/11/2008	203Gail
65	EHR-0308-301	H08030167-002	3/11/2008	203Gail
144	EHR-0308-302	H08030167-003	3/11/2008	401Gail
149	EHR-0309-300	H09030172-001	3/21/2009	401Gail
76	EHR-0309-301	H09030172-002	3/21/2009	2540 Wylie
68	EHR-0309-302	H09030172-003	3/21/2009	203Gail
69	EHR-0309-303	H09030172-004	3/21/2009	203Gail
140	EHR-0407-300	H07040029-001	4/1/2007	401Gail
141	EHR-0407-301	H07040029-002	4/1/2007	401Gail
61	EHR-0407-302	H07040029-003	4/1/2007	203Gail
144	EHR-0408-300	H08040188-001	4/10/2008	401Gail
65	EHR-0408-301	H08040188-002	4/10/2008	203Gail
45	EHR-0408-302	H08040188-003	4/10/2008	1190King
74	EHR-0408-303	H08040188-004	4/10/2008	2489Wylie
74	EHR-0408-304	H08040188-005	4/10/2008	2489Wylie
149	EHR-0409-300	H09040136-001	4/14/2009	401Gail
69	EHR-0409-301	H09040136-002	4/14/2009	203Gail
76	EHR-0409-302	H09040136-003	4/14/2009	2540 Wylie
76	EHR-0409-303	H09040136-004	4/14/2009	2540 Wylie
21	EHR-0504-300	H04050036-001	5/5/2004	105Gail
21	EHR-0504-301	H04050036-002	5/5/2004	105Gail
11	EHR-0504-303	H04050036-004	5/5/2004	003Gail
15	EHR-0504-304	H04050036-005	5/5/2004	009Gail
99	EHR-0504-305	H04050036-006	5/5/2004	301Gail
56	EHR-0504-306	H04050036-007	5/5/2004	203Gail
109	EHR-0504-307	H04050036-008	5/5/2004	316Mont
156	EHR-0504-308	H04050036-009	5/5/2004	407Porter
162	EHR-0504-309	H04050036-010	5/5/2004	607Lewi
105	EHR-0504-310	H04050036-011	5/5/2004	303Thurman
71	EHR-0504-311	H04050036-012	5/5/2004	210Gros
199	EHR-0504-312	H04050036-013	5/5/2004	Amchem4
184	EHR-0504-313	H04050192-001	5/26/2004	802Mnlv
28	EHR-0504-314	H04050192-002	5/26/2004	107Gros
28	EHR-0504-315	H04050192-003	5/26/2004	107Gros
32	EHR-0504-317	H04050192-005	5/26/2004	109Gail

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2	EHR-0504-319	H04050192-007	5/26/2004	001Gail
135	EHR-0504-320	H04050192-008	5/26/2004	401Gail
105	EHR-0505-300	C05050186-001	5/4/2005	303Thurman
105	EHR-0505-301	C05050186-002	5/4/2005	303Thurman
21	EHR-0505-303	C05050186-004	5/4/2005	105Gail
136	EHR-0505-304	C05050186-005	5/4/2005	401Gail
232	EHR-0505-305	C05050186-006	5/4/2005	EHC1
236	EHR-0505-306	C05050186-007	5/4/2005	EHC3
57	EHR-0505-307	C05050186-008	5/4/2005	203Gail
11	EHR-0505-308	C05050186-009	5/4/2005	003Gail
175	EHR-0505-309	C05050186-010	5/4/2005	800MnLv
2	EHR-0505-310	C05050186-011	5/4/2005	001Gail
15	EHR-0505-311	C05050186-012	5/4/2005	009Gail
162	EHR-0505-312	C05050186-013	5/4/2005	607Lewi
109	EHR-0505-313	C05050186-014	5/4/2005	316Mont
71	EHR-0505-314	C05050186-015	5/4/2005	210Gros
199	EHR-0505-315	C05050186-016	5/4/2005	Amchem4
156	EHR-0505-316	C05050997-001	5/25/2005	407Porter
156	EHR-0505-317	C05050997-002	5/25/2005	407Porter
246	EHR-0505-319	C05050997-004	5/25/2005	PelePk1
248	EHR-0505-320	C05050997-005	5/25/2005	PelePk2
199	EHR-0505-321	C05050997-006	5/25/2005	Amchem4
100	EHR-0505-322	C05050997-007	5/25/2005	301Gail
51	EHR-0505-323	C05050997-008	5/25/2005	126ClintH
52	EHR-0505-324	C05050997-009	5/25/2005	126ClintI
28	EHR-0505-NS1	0	5/25/2005	107Gros
33	EHR-0505-NS2	0	5/25/2005	109Gail
236	EHR-0505-NS3	0	5/4/2005	EHC2
21	EHR-0506-300	C06050292-001	5/4/2006	105Gail
11	EHR-0506-301	C06050292-002	5/4/2006	003Gail
2	EHR-0506-302	C06050292-003	5/4/2006	001Gail
232	EHR-0506-303	C06050292-004	5/4/2006	EHC1
236	EHR-0506-304	C06050292-005	5/4/2006	EHC2
59	EHR-0506-305	C06050292-006	5/4/2006	203Gail
51	EHR-0506-306	C06050292-007	5/4/2006	126ClintH
52	EHR-0506-307	C06050292-008	5/4/2006	126ClintI
109	EHR-0506-308	C06050292-009	5/4/2006	316Mont
156	EHR-0506-309	C06050292-010	5/4/2006	407Porter
72	EHR-0506-310	C06050292-011	5/4/2006	210Gros
246	EHR-0506-311	C06050292-012	5/4/2006	PelePk1
248	EHR-0506-312	C06050292-013	5/4/2006	PelePk2
100	EHR-0506-313	C06050292-014	5/4/2006	301Gail

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101	EHR-0506-314	C06050292-015	5/4/2006	301Gail
162	EHR-0506-316	C06050292-017	5/4/2006	607Lewi
105	EHR-0506-317	C06050292-018	5/4/2006	303Thurman
171	EHR-0506-318	C06050292-019	5/4/2006	701Mnlv
138	EHR-0506-319	C06050292-020	5/4/2006	401Gail
22	EHR-0506-320	C06051139-001	5/24/2006	105Gail
28	EHR-0506-321	C06051139-002	5/24/2006	107Gros
15	EHR-0506-322	C06051139-003	5/24/2006	009Gail
34	EHR-0506-323	C06051139-004	5/24/2006	109Gail
157	EHR-0506-324	C06051139-005	5/24/2006	407Porter
199	EHR-0506-325	C06051139-006	5/24/2006	Amchem4
34	EHR-0506-326	C06051139-007	5/24/2006	109Gail
22	EHR-0507-300	H07050211-001	5/17/2007	105Gail
12	EHR-0507-301	H07050211-002	5/17/2007	003Gail
2	EHR-0507-302	H07050211-003	5/17/2007	001Gail
34	EHR-0507-303	H07050211-004	5/17/2007	109Gail
41	EHR-0507-304	H07050211-005	5/17/2007	110Gail
15	EHR-0507-305	H07050211-006	5/17/2007	009Gail
110	EHR-0507-306	H07050211-007	5/17/2007	316Mont
110	EHR-0507-307	H07050211-008	5/17/2007	316Mont
233	EHR-0507-308	H07050211-009	5/17/2007	EHC1
238	EHR-0507-309	H07050211-010	5/17/2007	EHC3
157	EHR-0507-310	H07050211-011	5/17/2007	407Porter
105	EHR-0507-311	H07050211-012	5/17/2007	303Thurman
250	EHR-0507-313	H07050263-001	5/22/2007	PhxTrCt
162	EHR-0507-314	H07050263-002	5/22/2007	607Lewi
242	EHR-0507-315	H07050263-003	5/22/2007	LCGMain
240	EHR-0507-316	H07050263-004	5/22/2007	LCG#4
41	EHR-0507-317	H07050263-005	5/22/2007	1122King
48	EHR-0507-318	H07050263-006	5/22/2007	1266King
46	EHR-0507-319	H07050263-007	5/22/2007	1266Dud
94	EHR-0507-320	H07050263-008	5/22/2007	2815Stev
244	EHR-0507-321	H07050263-009	5/22/2007	McDon Tr
244	EHR-0507-322	H07050263-010	5/22/2007	McDon Tr
72	EHR-0507-323	H07050263-011	5/22/2007	210Gros
200	EHR-0507-324	H07050263-012	5/22/2007	Amchem4
48	EHR-0507-326	H07050287-001	5/24/2007	126Clint
141	EHR-0507-327	H07050287-002	5/24/2007	401Gail
141	EHR-0507-327	8705007-01	5/24/2007	401Gail
246	EHR-0507-329	H07050287-003	5/24/2007	PelePk1
246	EHR-0507-329	8705007-02	5/24/2007	PelePk1
248	EHR-0507-331	H07050287-004	5/24/2007	PelePk2
61	EHR-0507-332	H07050287-005	5/24/2007	203Gail

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61	EHR-0507-332	8705007-03	5/24/2007	203Gail
61	EHR-0507-334	H07050287-006	5/24/2007	203Gail
43	EHR-0507-335	H07050287-007	5/24/2007	1165Lew
28	EHR-0507-337	H07050287-009	5/24/2007	107Gros
184	EHR-0507-338	H07050287-010	5/24/2007	802Mnlv
102	EHR-0507-Gail301	z	5/22/2007	301Gail
159	EHR-0507-Gail409	z	5/22/2007	409Gail
74	EHR-0507-Pac212E	z	5/24/2007	212EPac
22	EHR-0508-300	H08050220-001	5/13/2008	105Gail
2	EHR-0508-301	H08050220-002	5/13/2008	001Gail
12	EHR-0508-302	H08050220-003	5/13/2008	003Gail
65	EHR-0508-303	H08050220-004	5/13/2008	203Gail
17	EHR-0508-304	H08050220-005	5/13/2008	009Gail
17	EHR-0508-305	H08050220-006	5/13/2008	009Gail
233	EHR-0508-306	H08050220-007	5/13/2008	EHC1
238	EHR-0508-307	H08050220-008	5/13/2008	EHC3
110	EHR-0508-308	H08050220-009	5/13/2008	316Mont
72	EHR-0508-309	H08050220-010	5/13/2008	210Gros
159	EHR-0508-310	H08050220-011	5/13/2008	407Porter
105	EHR-0508-311	H08050220-012	5/13/2008	303Thurman
162	EHR-0508-312	H08050220-013	5/13/2008	607Lewi
52	EHR-0508-314	H08050343-001	5/20/2008	126ClintH
54	EHR-0508-315	H08050343-002	5/20/2008	126ClintI
28	EHR-0508-316	H08050343-003	5/20/2008	107Gros
246	EHR-0508-317	H08050343-004	5/20/2008	PelePk1
248	EHR-0508-318	H08050343-005	5/20/2008	PelePk2
200	EHR-0508-319	H08050343-006	5/20/2008	Amchem4
37	EHR-0508-320	H08050343-007	5/20/2008	109Gail
37	EHR-0508-321	H08050343-008	5/20/2008	109Gail
175	EHR-0508-322	H08050343-009	5/20/2008	800MnLv
144	EHR-0508-324	H08050424-001	5/24/2008	401Gail
146	EHR-0508-325	H08050424-002	5/24/2008	401Gail
2	EHR-0509-300	H09050213-001	5/13/2009	001Gail
12	EHR-0509-301	H09050213-002	5/13/2009	003Gail
69	EHR-0509-302	H09050213-003	5/13/2009	203Gail
22	EHR-0509-303	H09050213-004	5/13/2009	105Gail
17	EHR-0509-304	H09050213-005	5/13/2009	009Gail
159	EHR-0509-305	H09050213-006	5/13/2009	407Porter
107	EHR-0509-306	H09050213-007	5/13/2009	303Thurman
250	EHR-0509-307	H09050213-008	5/13/2009	PelePk2
246	EHR-0509-308	H09050213-009	5/13/2009	PelePk1
76	EHR-0509-309	H09050213-010	5/13/2009	2540 Wylie
236	EHR-0509-310	H09050213-011	5/13/2009	EHC2

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233	EHR-0509-311	H09050213-012	5/13/2009	EHC1
238	EHR-0509-312	H09050213-013	5/13/2009	EHC3
238	EHR-0509-313	H09050213-014	5/13/2009	EHC3
149	EHR-0509-315	H09050267-001	5/19/2009	401Gail
30	EHR-0509-316	H09050267-002	5/19/2009	107Gros
72	EHR-0509-317	H09050267-003	5/19/2009	210Gros
171	EHR-0509-318	H09050267-004	5/19/2009	701Mnlv
173	EHR-0509-319	H09050267-005	5/19/2009	701Mnlv
200	EHR-0509-320	H09050267-006	5/19/2009	Amchem4
76	EHR-0509-322	H09050340-001	5/27/2009	2540 Wylie
78	EHR-0509-323	H09050340-002	5/27/2009	2540 Wylie
48	EHR-0509-324	H09050340-003	5/27/2009	126Clint
39	EHR-0509-325	H09050340-004	5/27/2009	109Gail
141	EHR-0607-300	H07060248-001	6/21/2007	401Gail
61	EHR-0607-301	H07060248-002	6/21/2007	203Gail
72	EHR-0607-302	H07060248-003	6/21/2007	210Gros
36	EHR-0607-303	H07060248-004	6/21/2007	109Gail
157	EHR-0607-305	H07060248-006	6/21/2007	407Porter
157	EHR-0607-306	H07060248-007	6/21/2007	407Porter
200	EHR-0607-307	H07060248-008	6/21/2007	Amchem4
48	EHR-0607-308	H07060248-009	6/21/2007	126Clint
102	EHR-0607-Gail301	EHR-0607-Gail301	6/21/2007	301Gail
146	EHR-0608-300	H08060234-001	6/11/2008	401Gail
65	EHR-0608-301	H08060234-002	6/11/2008	203Gail
65	EHR-0608-302	H08060234-003	6/11/2008	203Gail
37	EHR-0608-303	H08060234-004	6/11/2008	109Gail
149	EHR-0609-300	H09060109-001	6/5/2009	401Gail
39	EHR-0609-301	H09060109-002	6/5/2009	109Gail
69	EHR-0609-302	H09060109-003	6/5/2009	203Gail
74	EHR-0609-303	H09060109-004	6/5/2009	2489Wylie
78	EHR-0609-304	H09060109-005	6/5/2009	2540 Wylie
78	EHR-0609-305	H09060109-006	6/5/2009	2540Wyllr
80	EHR-0609-306	H09060109-007	6/5/2009	2540Wyllr
242	EHR-0609-310	H09060178-001	6/10/2009	LCGMain
242	EHR-0609-311	H09060178-002	6/10/2009	LCG#4
240	EHR-0609-312	H09060178-003	6/10/2009	Homestead2
240	EHR-0609-313	H09060178-004	6/10/2009	Homestead1
252	EHR-0609-314	H09060178-005	6/10/2009	Rugler
229	EHR-0609-315	H09060178-006	6/10/2009	EastgateS
227	EHR-0609-316	H09060178-007	6/10/2009	EastgateI
225	EHR-0609-317	H09060178-008	6/10/2009	CF Baptist
244	EHR-0609-318	H09060178-009	6/10/2009	McDon Tr
227	EHR-0609-319	H09060178-010	6/10/2009	CF Mini-B

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227	EHR-0609-320	H09060178-011	6/10/2009	CF Mini-B
233	EHR-0609-322	H09060261-001	6/16/2009	EHC1
236	EHR-0609-323	H09060261-002	6/16/2009	EHC2
238	EHR-0609-324	H09060261-003	6/16/2009	EHC3
248	EHR-0609-325	H09060261-004	6/16/2009	PelePk1
250	EHR-0609-326	H09060261-005	6/16/2009	PelePk2
225	EHR-0609-327	H09060261-006	6/16/2009	BuzzInnW
225	EHR-0609-328	H09060261-007	6/16/2009	BuzzInnE
221	EHR-0609-329	H09060261-008	6/16/2009	3235DustMa
223	EHR-0609-330	H09060261-009	6/16/2009	3240 Shano
229	EHR-0609-331	H09060261-010	6/16/2009	EastgateV
223	EHR-0609-332	H09060261-011	6/16/2009	Bahny Brae
223	EHR-0609-333	H09060261-012	6/16/2009	Bahny Brae
252	EHR-0609-PMV	EHR-0609-PMV	6/16/2009	Praire Vil
250	EHR-0609-PTC	EHR-0609-PTC	6/16/2009	PhxTrCt
99	EHR-0704-300	H04070156-001	7/22/2004	301Gail
100	EHR-0704-301	H04070156-002	7/22/2004	301Gail
56	EHR-0704-303	H04070156-004	7/22/2004	203Gail
33	EHR-0704-304	H04070156-005	7/22/2004	109Gail
135	EHR-0704-305	H04070156-006	7/22/2004	401Gail
136	EHR-0705-300	H05070155-001	7/20/2005	401Gail
137	EHR-0705-301	H05070155-002	7/20/2005	401Gail
33	EHR-0705-303	H05070155-004	7/20/2005	109Gail
57	EHR-0705-304	H05070155-005	7/20/2005	203Gail
100	EHR-0705-305	H05070155-006	7/20/2005	301Gail
34	EHR-0706-300	H06070114-001	7/12/2006	109Gail
101	EHR-0706-301	H06070114-002	7/12/2006	301Gail
59	EHR-0706-302	H06070114-003	7/12/2006	203Gail
157	EHR-0706-303	H06070114-004	7/12/2006	407Porter
157	EHR-0706-304	H06070114-005	7/12/2006	407Porter
138	EHR-0706-306	H06070114-007	7/12/2006	401Gail
101	EHR-0706-307	H06070224-001	7/21/2006	301Gail
101	EHR-0706-308	H06070224-003	7/21/2006	301Gail
141	EHR-0707-300	H07070129-001	7/13/2007	401Gail
63	EHR-0707-301	H07070129-002	7/13/2007	203Gail
102	EHR-0707-302	H07070129-003	7/13/2007	301Gail
102	EHR-0707-303	H07070129-004	7/13/2007	301Gail
36	EHR-0707-305	H07070129-006	7/13/2007	109Gail
37	EHR-0708-300	H08070151-001	7/8/2008	109Gail
37	EHR-0708-301	H08070151-002	7/8/2008	109Gail
146	EHR-0708-302	H08070151-003	7/8/2008	401Gail
65	EHR-0708-303	H08070151-004	7/8/2008	203Gail
149	EHR-0709-300	H09070071-001	7/3/2009	401Gail

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69	EHR-0709-301	H09070071-002	7/3/2009	203Gail
39	EHR-0709-302	H09070071-003	7/3/2009	109Gail
78	EHR-0709-303	H09070071-004	7/3/2009	2540 Wylie
80	EHR-0709-304	H09070071-005	7/3/2009	2540WylIr
80	EHR-0709-305	H09070071-006	7/3/2009	2540WylIr
121	EHR-0709-310	H09070211-001	7/17/2009	3465Allied
123	EHR-0709-311	H09070211-002	7/17/2009	3475Allied
129	EHR-0709-312	H09070211-003	7/17/2009	3495Allied
123	EHR-0709-313	H09070211-004	7/17/2009	3480Allied
113	EHR-0709-314	H09070211-005	7/17/2009	3425Allied
96	EHR-0709-315	H09070211-006	7/17/2009	2880Winslo
94	EHR-0709-316	H09070211-007	7/17/2009	2830Winslo
88	EHR-0709-317	H09070211-008	7/17/2009	2770WinsII
90	EHR-0709-318	H09070211-009	7/17/2009	2770WinsII
32	EHR-0803-100	L030446001	8/13/2003	109Gail
141	EHR-0807-300	H07080262-001	8/27/2007	401Gail
63	EHR-0807-301	H07080262-002	8/27/2007	203Gail
102	EHR-0807-302	H07080262-003	8/27/2007	301Gail
36	EHR-0807-303	H07080262-004	8/27/2007	109Gail
36	EHR-0807-304	H07080262-005	8/27/2007	109Gail
146	EHR-0808-300	H08080096-001	8/6/2008	401Gail
67	EHR-0808-301	H08080096-002	8/6/2008	203Gail
67	EHR-0808-302	H08080096-003	8/6/2008	203Gail
39	EHR-0808-303	H08080096-004	8/6/2008	109Gail
151	EHR-0809-300	H09080098-001	8/7/2009	401Gail
69	EHR-0809-301	H09080098-002	8/7/2009	203Gail
78	EHR-0809-302	H09080098-003	8/7/2009	2540 Wylie
80	EHR-0809-303	H09080098-004	8/7/2009	2540WylIr
39	EHR-0809-304	H09080098-005	8/7/2009	109Gail
41	EHR-0809-305	H09080098-006	8/7/2009	109Gail
80	EHR-0809-310	H09080156-001	8/12/2009	2700 Winsl
82	EHR-0809-311	H09080156-002	8/12/2009	2720 Winsl
84	EHR-0809-312	H09080156-003	8/12/2009	2730 Winsl
86	EHR-0809-313	H09080156-004	8/12/2009	2746 Winsl
84	EHR-0809-314	H09080156-005	8/12/2009	2735 Winsl
82	EHR-0809-315	H09080156-006	8/12/2009	2705 Winsl
117	EHR-0809-316	H09080156-007	8/12/2009	3434Beck1
117	EHR-0809-317	H09080156-008	8/12/2009	3434Beck2
125	EHR-0809-318	H09080156-009	8/12/2009	3485Beck
119	EHR-0809-319	H09080156-010	8/12/2009	3463 Beck
115	EHR-0809-320	H09080156-011	8/12/2009	3433Beck
90	EHR-0809-321	H09080156-012	8/12/2009	2779Winslo
90	EHR-0809-322	H09080156-013	8/12/2009	2775Winslo

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84	EHR-0809-324	H09080156-015	8/12/2009	2725Winslo
86	EHR-0809-325	H09080156-016	8/12/2009	2743Winslo
86	EHR-0809-326	H09080156-017	8/12/2009	2740Winslo
88	EHR-0809-327	H09080156-018	8/12/2009	2765 1/2Wi
88	EHR-0809-328	H09080156-019	8/12/2009	2765Winslo
88	EHR-0809-329	H09080156-020	8/12/2009	2765Winslo
90	EHR-0809-331	H09080233-001	8/19/2009	2770WinslI
92	EHR-0809-332	H09080233-002	8/19/2009	2780WinslH
92	EHR-0809-333	H09080233-003	8/19/2009	2780WinslK
113	EHR-0809-334	H09080233-004	8/19/2009	3420Weston
119	EHR-0809-335	H09080233-005	8/19/2009	3460Weston
117	EHR-0809-336	H09080233-006	8/19/2009	3445Weston
121	EHR-0809-337	H09080233-007	8/19/2009	3470Weston
94	EHR-0809-338	H09080233-008	8/19/2009	2830Winslo
92	EHR-0809-339	H09080233-009	8/19/2009	2795Winslo
94	EHR-0809-340	H09080233-010	8/19/2009	2850Weston
96	EHR-0809-341	H09080233-011	8/19/2009	2858Winslo
119	EHR-0809-342	H09080233-012	8/19/2009	3459Winslo
121	EHR-0809-343	H09080233-013	8/19/2009	3465Weston
127	EHR-0809-344	H09080233-014	8/19/2009	3489Weston
127	EHR-0809-345	H09080233-015	8/19/2009	3491Weston
127	EHR-0809-346	H09080233-016	8/19/2009	3490Weston
113	EHR-0809-347	H09080233-017	8/19/2009	3425Allied
115	EHR-0809-348	H09080233-018	8/19/2009	3425Allied
113	EHR-0809-350	H09080292-001	8/25/2009	3350 Beck
173	EHR-0809-351	H09080292-002	8/25/2009	701Mnlv
175	EHR-0809-352	H09080292-003	8/25/2009	800MnLv
177	EHR-0809-353	H09080292-004	8/25/2009	801Manlove
125	EHR-0809-354	H09080292-005	8/25/2009	3485Weston
123	EHR-0809-355	H09080292-006	8/25/2009	3480WestoH
125	EHR-0809-356	H09080292-007	8/25/2009	3480WestoK
115	EHR-0809-357	H09080292-008	8/25/2009	3430Weston
115	EHR-0809-358	H09080292-009	8/25/2009	3430Weston
129	EHR-0809-359	H09080292-010	8/25/2009	3655 Hwy12
129	EHR-0809-360	H09080292-011	8/25/2009	3885 Hwy12
134	EHR-0903-101	L030504002	9/10/2003	401Gail
134	EHR-0903-102	L030504003	9/10/2003	401Gail
99	EHR-0903-103	L030504004	9/10/2003	301Gail
32	EHR-0903-104	L030504005	9/10/2003	109Gail
33	EHR-0904-300	H04090066-001	9/9/2004	109Gail
33	EHR-0904-301	H04090066-002	9/9/2004	109Gail
56	EHR-0904-303	H04090066-004	9/9/2004	203Gail

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

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135	EHR-0904-305	H04090066-006	9/9/2004	401Gail
137	EHR-0905-300	H05090071-001	9/8/2005	401Gail
58	EHR-0905-301	H05090071-002	9/8/2005	203Gail
100	EHR-0905-302	H05090071-003	9/8/2005	301Gail
33	EHR-0905-303	H05090071-004	9/8/2005	109Gail
34	EHR-0905-304	H05090071-005	9/8/2005	109Gail
59	EHR-0906-300	H06090133-001	9/18/2006	203Gail
34	EHR-0906-301	H06090133-002	9/18/2006	109Gail
101	EHR-0906-302	H06090133-003	9/18/2006	301Gail
101	EHR-0906-303	H06090133-004	9/18/2006	301Gail
138	EHR-0906-305	H06090133-006	9/18/2006	401Gail
143	EHR-0907-300	H07090318-001	9/27/2007	401Gail
143	EHR-0907-301	H07090318-002	9/27/2007	401Gail
102	EHR-0907-302	H07090318-003	9/27/2007	301Gail
63	EHR-0907-303	H07090318-004	9/27/2007	203Gail
36	EHR-0907-304	H07090318-005	9/27/2007	109Gail
146	EHR-0908-300	H08090485-001	9/28/2008	401Gail
146	EHR-0908-301	H08090485-002	9/28/2008	401Gail
67	EHR-0908-302	H08090485-003	9/28/2008	203Gail
39	EHR-0908-303	H08090485-004	9/28/2008	109Gail
138	EHR-1006-300	H06100221-001	10/23/2006	401Gail
139	EHR-1006-301	H06100221-002	10/23/2006	401Gail
59	EHR-1006-302	H06100221-003	10/23/2006	203Gail
59	EHR-1006-303	H06100221-004	10/23/2006	203Gail
60	EHR-1006-305	H06100221-006	10/23/2006	203Gail
143	EHR-1007-300	H07100105-001	10/8/2007	401Gail
63	EHR-1007-301	H07100105-002	10/8/2007	203Gail
63	EHR-1007-302	H07100105-003	10/8/2007	203Gail
36	EHR-1007-303	H07100105-004	10/8/2007	109Gail
103	EHR-1007-304	H07100105-005	10/8/2007	301Gail
45	EHR-1008-300	H08100167-001	10/13/2008	1193Clark
46	EHR-1008-301	H08100167-002	10/13/2008	1195Clark
148	EHR-1008-302	H08100167-003	10/13/2008	401Gail
67	EHR-1008-303	H08100167-004	10/13/2008	203Gail
67	EHR-1008-304	H08100167-005	10/13/2008	203Gail
135	EHR-1104-300	H04110051-001	11/5/2004	401Gail
56	EHR-1104-301	H04110051-002	11/5/2004	203Gail
57	EHR-1104-302	H04110051-003	11/5/2004	203Gail
137	EHR-1105-300	H05110021-001	11/2/2005	401Gail
58	EHR-1105-301	H05110021-002	11/2/2005	203Gail
58	EHR-1105-302	H05110021-003	11/2/2005	203Gail
137	EHR-1105-304	H05110148-001	11/17/2005	401Gail

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

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151	EHR-1105-305	H05110148-002	11/17/2005	401SSGail
151	EHR-1105-306	H05110148-003	11/17/2005	401SSGail
139	EHR-1106-300	H06110205-001	11/24/2006	401Gail
139	EHR-1106-301	H06110205-002	11/24/2006	401Gail
60	EHR-1106-302	H06110205-003	11/24/2006	203Gail
37	EHR-1107-109	z	11/7/2007	109Gail
46	EHR-1107-300	H07110067-001	11/7/2007	1226Gros
43	EHR-1107-301	H07110067-002	11/7/2007	1145Gros
103	EHR-1107-301Gail	z	11/7/2007	301Gail
43	EHR-1107-302	H07110067-003	11/7/2007	1189GrosH
45	EHR-1107-303	H07110067-004	11/7/2007	1189GrosI
63	EHR-1107-304	H07110067-005	11/7/2007	203Gail
64	EHR-1107-305	H07110067-006	11/7/2007	203Gail
143	EHR-1107-308	H07110071-001	11/8/2007	401Gail
143	EHR-1107-309	H07110071-002	11/8/2007	401Gail
207	EHR-1107-400	H07110159-001	11/20/2007	FLEISNER
207	EHR-1107-401	H07110159-002	11/20/2007	FLEISNER
221	EHR-1107-1120Clark	z	11/7/2007	1120Clark
148	EHR-1108-300	H08110125-001	11/11/2008	401Gail
148	EHR-1108-301	H08110125-002	11/11/2008	401Gail
67	EHR-1108-302	H08110125-003	11/11/2008	203Gail
139	EHR-1206-301	H06120180-002	12/21/2006	401Gail
139	EHR-1206-302	H06120180-003	12/21/2006	401Gail
60	EHR-1206-303	H06120180-004	12/22/2006	203Gail
60	EHR-1206-304	H06120180-005	12/22/2006	203Gail
143	EHR-1207-300	H07120163-001	12/13/2007	401Gail
64	EHR-1207-301	H07120163-002	12/13/2007	203Gail
250	EHR-1207-302	H07120163-003	12/13/2007	PhxTrCt
229	EHR-1207-303	H07120163-004	12/13/2007	EastgateS
223	EHR-1207-304	H07120163-005	12/13/2007	BuzzInnE
225	EHR-1207-305	H07120163-006	12/13/2007	BuzzInnW
242	EHR-1207-306	H07120163-007	12/13/2007	LCGMain
240	EHR-1207-307	H07120163-008	12/13/2007	LCG#4
227	EHR-1207-308	H07120163-009	12/13/2007	CF Mini-B
227	EHR-1207-309	H07120163-010	12/13/2007	CF Mini-B
68	EHR-1208-300	H08120092-001	12/9/2008	203Gail
68	EHR-1208-301	H08120092-002	12/9/2008	203Gail
148	EHR-1208-302	H08120092-003	12/9/2008	401Gail
229	EHST-0102-100	L010183001	2/7/2001	EH CITY WA

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	001Gail	001Gail	001Gail	001Gail	001Gail	001Gail
Water	SAMPLE DATE	7/6/2001	6/24/2002	8/13/2002	11/8/2002	12/11/2002	5/1/2003
	SAMPLE TIME	16:45	15:15	16:40	10:00	16:45	10:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010989003	L020496009	L020658014	L020937001	L021013010	L030190002
	SAMPLE NUMBER	EHC-0106-143	EHC-0205-249	EHR-0208-113	EHR-0210-112	EHR-0212-109	EHR-0305-101
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	111			111		100
Calcium (Ca) (DIS)	31			28		32
Carbonate As CO3	<1			<1		<2
Chloride (Cl)	4.1			3.3		4.9
Magnesium (Mg) (DIS)	7.2			6.2		7.1
Potassium (K) (DIS)	<5			<5		<5
Sodium (Na) (DIS)	13			15		16
Sulfate (SO4)	54	43		44	44	62
Total Alkalinity As CaCO3	91			91		82

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)				<0.05		
Arsenic (As) (DIS)	<0.005	<0.002	<0.005	<0.005	<0.002	<0.005
Arsenic III (dis)	<0.005					<0.005
Arsenic V (dis)	<0.005					<0.005
Cadmium (Cd) (DIS)	<0.001			<0.001		<0.001
Copper (Cu) (DIS)	<0.004			0.4		0.4
Iron (Fe) (DIS)	0.07			<0.02		0.03
Lead (Pb) (DIS)	<0.005			<0.005		<0.005
Manganese (Mn) (DIS)	<0.02			<0.02		<0.02
Zinc (Zn) (DIS)	<0.02			<0.02		0.03

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	145					
Oxygen (O) (DIS) (Fld)		2.8		0.9		8.9
pH	7.2			7.6		6.8
Silicon+Silica (Si+SiO2)				17		
Eh (millivolts)	389					
pH (Fld)	7.7	7.2	7.5	5.6		5.9
SC (umhos/cm at 25 C) (Fld)	274	252	350	258	578	259
SC (umhos/cm at 25 C)	293			274		309
Total Suspended Solids				<1		1.3
TDS (Measured at 180 C)	204	209 J	208	180	188	188
Water Temperature (C) (Fld)	12	10		16.1		7.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	001Gail	001Gail	001Gail	001Gail	001Gail	001Gail
Water	SAMPLE DATE	5/26/2004	5/4/2005	5/4/2006	5/17/2007	5/13/2008	5/13/2009
	SAMPLE TIME	16:00	11:40	07:45	08:25	07:35	07:20
	LAB	ELI	ELI-Casper	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	H04050192-007	C05050186-011	C06050292-003	H07050211-003	H08050220-002	H09050213-001
	SAMPLE NUMBER	EHR-0504-319	EHR-0505-310	EHR-0506-302	EHR-0507-302	EHR-0508-301	EHR-0509-300
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						No fld pH-Instr. Err
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	110	101	104	100	110	94
Calcium (Ca) (DIS)	35	31	35	35	34	30
Chloride (Cl)	6	5	4	5	6	5
Magnesium (Mg) (DIS)	7	7	8	8	7	7
Potassium (K) (DIS)	3 UJ	<5	<5	3	3	3
Sodium (Na) (DIS)	16 UJ	13	16	16	15	13
Sulfate (SO4)	61	54	58	65	55	51
Total Alkalinity As CaCO3	90	83	85	83	88	77

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)				<0.005		
Selenium-VI (DIS)				<0.005		
Aluminum (Al) (DIS)				<0.1	<0.1	<0.1
Antimony (Sb) (DIS)				<0.005	<0.005	<0.003
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Arsenic III (dis)	<0.001	<0.005	<0.005	<0.005		
Arsenic V (dis)	0.0023	<0.005	<0.005	<0.005		
Barium (Ba) (DIS)				<0.1	<0.1	<0.1
Beryllium (Be) (DIS)				<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)				<0.001	<0.001	0.001
Cobalt (Co) (DIS)				<0.01	<0.01	<0.01
Copper (Cu) (DIS)	<0.004	0.061	0.053	0.039	0.065	0.055
Gold (Au) (DIS)						<0.01
Iron (Fe) (DIS)	0.04	0.06 J	0.07	0.06	0.06	0.05
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)				<0.006	<0.006	<0.001
Nickel (Ni) (DIS)				<0.01	<0.01	<0.01
Selenium (Se) (DIS)				<0.005	<0.005	<0.001
Silver (Ag) (DIS)				<0.005 J-	<0.005	<0.005
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)				<0.002	<0.002	<0.001
Tin (Sn) (DIS)				<0.1	<0.1	
Vanadium (V) (DIS)				<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01

**Nutrients: ppm unless noted**

Total Organic Carbon				<0.5		
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**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.6	7.81	8.63	9.87	8.87	9.3
pH	7.6	7.36	7.37	7.3	7	7.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	001Gail	001Gail	001Gail	001Gail	001Gail	001Gail
Water	SAMPLE DATE	5/26/2004	5/4/2005	5/4/2006	5/17/2007	5/13/2008	5/13/2009
	SAMPLE TIME	16:00	11:40	07:45	08:25	07:35	07:20
	LAB		ELI-Casper	ASARCO	Asarco	Hydrometrics	Hydrometrics
	LAB NUMBER	H04050192-007	C05050186-011	C06050292-003	H07050211-003	H08050220-002	H09050213-001
	SAMPLE NUMBER	EHR-0504-319	EHR-0505-310	EHR-0506-302	EHR-0507-302	EHR-0508-301	EHR-0509-300
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						no fld pH-Instr. Err
	REMARKS						
<b>Physical/Fld-Lab: ppm unless noted</b>							
	pH (Fld)	6.2	7.35	6.86	7.04	6.63	
	SC (umhos/cm at 25 C) (Fld)	487	287	267	249	245	200
	SC (umhos/cm at 25 C)	298	298	285	307	311	291
	Total Suspended Solids	<10	<10	<10	<10	<10	<10
	TDS (Measured at 180 C)	203	183	180	211	197	172
	TDS - Calculated			195			
	Water Temperature (C) (Fld)	8.3	7.9	8.2	8.6	7.4	7.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	003Gail	003Gail	003Gail	003Gail	003Gail	003Gail
Water	SAMPLE DATE	1/24/1983	11/2/1984	11/3/1984	5/14/1985	10/14/1986	10/14/1986
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	RMAL	TSC-SLC
	LAB NUMBER	HYD-9023	84-10845	84-10850	85-3621	8610-110	86-6954
	SAMPLE NUMBER	AEH-8301-02	AEH-8411-5	AEH-8411-10	AEH-8505-418	AEH-8610-110	AEH-8610-110
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS			Field Duplicate		Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		100	101		80	96
Calcium (Ca) (DIS)		30	30		34.6	
Carbonate As CO3					<5	
Chloride (Cl)		2	2.8		<3	
Magnesium (Mg) (DIS)		6.9	6.9		8.1 M	
Potassium (K) (DIS)		2.8	2.7		2.9	
Sodium (Na) (DIS)		11	11		13.4	
Sulfate (SO4)		44	50		51	56
Total Alkalinity As CACO3		82	83			

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.004	<0.004	<0.004	0.008	<0.01 M	<0.006
Arsenic III (dis)						<0.008
Arsenic V (dis)						<0.008
Cadmium (Cd) (DIS)	<0.002	<0.001	0.001	<0.001	<0.005 M	<0.001
Copper (Cu) (DIS)	0.02	0.8	0.02		0.03	
Iron (Fe +2) (TOT)						0.05
Iron (Fe) (DIS)		0.1	0.04		<0.03	0.03
Lead (Pb) (DIS)	0.02	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		0.006	<0.005		<0.004	
Zinc (Zn) (DIS)	0.02	0.01	0.02	0.01	0.005	<0.008

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)						8.8
pH		7.5	7.6	7.5	7 M	7.4
pH (Fld)						6.8
SC (umhos/cm at 25 C) (Fld)		289.9	278.9	290.5		277
SC (umhos/cm at 25 C)		273	284	314	282	282
TDS (Measured at 180 C)		178	177	187	150 M	194
Water Temperature (C) (Fld)						2.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	003Gail	003Gail	003Gail	003Gail	003Gail	003Gail
Water	SAMPLE DATE	4/28/1987	11/3/1987	4/7/1988	5/1/1989	10/25/1989	5/3/1990
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-2855	87-10017	88-2615	89-565	89-847	90-1079
	SAMPLE NUMBER	AEH-8704-42	AEH-8710-66	AEH-8804-367	AEH-8904-254	AEH-8910-462	AEH-9005-432
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						Field Duplicate
	<b>Common Ions (mg/L): ppm unless noted</b>						
Bicarbonate (HCO3)	104	104	80 J				
Calcium (Ca) (DIS)			34				
Carbonate As CO3			<1 J				
Chloride (Cl)			3.7	3.8	2.5		
Magnesium (Mg) (DIS)			7.5				
Potassium (K) (DIS)			2.8				
Sodium (Na) (DIS)			13				
Sulfate (SO4)	53	42	47	54	40		
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)	<0.006	0.006	<0.006	<0.004 R	<0.008	<0.008	
Arsenic III (dis)	<0.008	0.008	<0.008	<0.008	<0.008	0.06 U	
Arsenic V (dis)	0.02	0.06 M	0.02	0.03	0.009 J	0.009 U	
Cadmium (Cd) (DIS)	0.001	0.001	<0.001	<0.002 UJ	<0.001	0.001 U	
Copper (Cu) (DIS)		0.02		0.06	0.02	0.02	
Iron (Fe +2) (TOT)	<0.01	<0.01	0.02	<0.01			
Iron (Fe) (DIS)	0.02	0.04	0.03 J				
Lead (Pb) (DIS)	<0.005 M	<0.005	<0.005 J	<0.02	<0.005 UJ	<0.005	
Manganese (Mn) (DIS)		0.004					
Zinc (Zn) (DIS)	<0.008	0.009	0.009	<0.008	0.01 J	0.009 U	
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fid)	6.1	2.6	5.7		3.4	7	
pH	7.3	7.9	7.6	6.9 J	7.8		
Depth To Water Level (ft)		11.5	12.07				
pH (Fid)	7.05	6.4	7.09		7.4	6.3	
SC (umhos/cm at 25 C) (Fid)	279.6	265	276.8	293.8	282.8	268.8	
SC (umhos/cm at 25 C)	280	278	259	290	285		
TDS (Measured at 180 C)	185	182	208 J	204 J	168 J		
Water Temperature (C) (Fid)	7.8	9.7	7		8.3	8	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	003Gail	003Gail	003Gail	003Gail	003Gail	003Gail
Water	SAMPLE DATE	5/3/1990	12/7/1990	5/14/1991	11/7/1991	4/23/1992	11/20/1992
	SAMPLE TIME	00:00	00:00	00:00	11:00	11:00	11:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	90-1069	90-2270	91-2822	91-3606	92-4310	92-6805
	SAMPLE NUMBER	AEH-9005-462	AEH-9011-761	AEH-9105-111	AEH-9111-331	AEH-9204-133	EHC-9211-146
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)						35 J
Chloride (Cl)	3.2	2.3 J	3.4	2.5	<2 UJ	<1
Magnesium (Mg) (Dis)						7.8
Potassium (K) (Dis)						<5
Sodium (Na) (Dis)						14
Sulfate (SO4)	47.8	34 J	54	44	48	41

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.008 UJ	0.01 U	0.009	0.008	<0.004	<0.004
Arsenic III (dis)	0.2 UJ	0.06 U	0.01 UJ	0.02 U	<0.004	0.1 J
Arsenic V (dis)	0.08 UJ	<0.004	0.01 M	0.03 U	<0.004	0.009 UJ
Cadmium (Cd) (DIS)	0.001 U	<0.001	<0.001	<0.001	<0.001	0.001
Copper (Cu) (DIS)	0.02	0.01	0.008	0.03	0.03	0.03
Lead (Pb) (DIS)	<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.005 UJ
Zinc (Zn) (DIS)	0.02 UJ		0.008 U	0.01	0.01	0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7	2.5	6.7	5.1	8	3.9
pH	8.02	8.2	8.04	7.1	7.6	7.7
Depth To Water Level (ft)			13.1	9.9		
pH (Fld)	6.3	7.7	7.4	7.2	6.9	7.2
SC (umhos/cm at 25 C) (Fld)	269.8	2651 A	306	257	275	266
SC (umhos/cm at 25 C)	269	265	295	232	273	290
TDS (Measured at 180 C)	183	163 J	195	168 J	176	175
Water Temperature (C) (Fld)	8	9.1	8.8	9	8.4	10.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	003Gail	003Gail	003Gail	003Gail	003Gail	003Gail
Water	SAMPLE DATE	4/28/1993	5/10/1994	11/8/1994	5/4/1995	11/9/1995	11/6/1996
	SAMPLE TIME	17:30	12:40	15:30	16:50	11:50	13:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-7721	94-1344	94-3247	95-4455	95-6130	96-7732
	SAMPLE NUMBER	EHC-9305-108	EHC-9405-174	EHC-9411-138	EHC-9505-138	EHC-9511-140	EHC-9611-124
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)	35 J					
Chloride (Cl)	3.5	3.9	3	3.4	1.5 J	3.6
Magnesium (Mg) (Dis)	7.7 J					
Potassium (K) (Dis)	<5					
Sodium (Na) (Dis)	14 J					
Sulfate (SO4)	47	43 J	42	46	37 J	50 J
Total Hardness As CaCO3	119					

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic III (dis)	0.005 J	<0.004	0.005 U	<0.004	<0.004	<0.004
Arsenic V (dis)	0.1 J	<0.004 J	0.008 U	<0.004	<0.004	<0.004
Cadmium (Cd) (DIS)	0.001	0.001	0.001	0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.02	0.03	0.008	0.03	0.005	0.02
Lead (Pb) (DIS)	<0.005	<0.005 UJ	<0.005	<0.005	<0.005 UJ	<0.005
Zinc (Zn) (DIS)	0.006	0.008	0.007 U	0.01 U	<0.006	0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	8.8	8.3	2.7	7.8	3.1	2.8
pH				7.1	7.3	7.7
pH (Fld)	6.8	7.2	7.6	7.7	6.9	7.9
SC (umhos/cm at 25 C) (Fld)	289	283	274	278	245	297
SC (umhos/cm at 25 C)	235	265 J	278	273	256 J	301
TDS (Measured at 180 C)	196	173 J	180	158	170	223
Water Temperature (C) (Fld)	8.3	8.5	8.6	8.9	8.6	9.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	003Gail	003Gail	003Gail	003Gail	003Gail	003Gail
Water	SAMPLE DATE	5/6/1997	11/11/1997	5/14/1998	12/2/1998	12/2/1998	5/13/1999
	SAMPLE TIME	11:10	11:15	10:00	09:50	10:00	09:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	97-928	192-2754	262-3791	323-4594	323-4595	349-4940
	SAMPLE NUMBER	EHC-9705-158	EHC-9711-124	EHC-9805-125	EHC-9811-124	EHC-9811-157	EHC-9905-124
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS					Field Duplicate	
	<b>Common Ions (mg/L): ppm unless noted</b>						
Bicarbonate (HCO3)				99	110	110	94
Calcium (Ca) (DIS)				30	29	30	31
Carbonate As CO3							<1
Chloride (Cl)	3	3	4	2.8	3.1	4.3	
Magnesium (Mg) (DIS)			7	6.7	6.6	7.1	
Potassium (K) (DIS)			<5	<5	<5	<5	
Sodium (Na) (DIS)			11	12	12	12	
Sulfate (SO4)	55	47	52	39	37	58	
Total Alkalinity As CACO3			81	90	90	77	
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.005	<0.005 J	<0.005	<0.005	<0.005	<0.005	0.01
Arsenic V (dis)	<0.005	<0.005 J	<0.005	<0.005	<0.005	<0.005	0.008
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.04	0.04	0.04	0.03	0.03	0.07	
Iron (Fe) (DIS)			0.05 UJ	0.06 J	0.05 J	0.2 U	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)			<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	0.03 U	0.02	<0.02	0.03	
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	6.8	2.9	8.5	1.7	1.7	6.2	
pH	7.2	7.4	7.2	7.3	7.3	8	
Eh (millivolts)				405	405	338	
pH (Fld)	6	7.6	7.4	7.04	7.05	7.1	
SC (umhos/cm at 25 C) (Fld)	288	297	298	287	289	269	
SC (umhos/cm at 25 C)	304	278	271	275	274	277	
Total Suspended Solids		<1					
TDS (Measured at 180 C)	200	192	170	219	218	194	
Water Temperature (C) (Fld)	8.5	8.2	11.4	12.6	12.6	15	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	003Gail	003Gail	003Gail	003Gail	003Gail	003Gail
Water	SAMPLE DATE	11/5/1999	11/5/1999	5/9/2000	10/30/2000	5/11/2001	7/6/2001
	SAMPLE TIME	15:45	16:00	14:30	14:00	14:50	15:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L992008005	L992009002	L000705025	L001833002	L010691030	L010989002
	SAMPLE NUMBER	EHC-9911-140	EHC-9911-166	EHC-0005-139	EHC-0011-140	EHC-0105-166	EHC-0106-109
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	105	107	94	13	110	105
Calcium (Ca) (DIS)	31	31	33	39	39	33
Carbonate As CO3	<1	<1	<1	<1		<1
Chloride (Cl)	5.7 J	7.1 J	4	5 J	4.7	3.8
Magnesium (Mg) (DIS)	6.9	6.9	7.9	8.8	9	7.3
Potassium (K) (DIS)	<5	<5	<5	<5	<5	<5
Sodium (Na) (DIS)	12	12	12	18	15	13
Sulfate (SO4)	38 J	21 J	57	52	67	51
Total Alkalinity As CaCO3	86	88	77	111	90	86

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)					<0.05	
Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.005	<0.005	0.01 UJ	<0.02	<0.005	<0.005
Arsenic V (dis)	<0.005	0.005	0.01 U	<0.02	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.02	0.02	0.02	0.03	0.01 U	0.03
Iron (Fe) (DIS)	0.2	0.2 J	0.08 UJ	0.07	0.1	<0.02
Lead (Pb) (DIS)	<0.005	0.005 U	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	0.03	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02 J	<0.02 UJ	0.02	0.03	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential						144.7
Oxygen (O) (DIS) (Fld)	2.3	2.3	13.2	2	5.2	
pH	7.6	7.7	7.2	7.4	8.1	6.9
Silicon+Silica (Si+SiO2)					17	
Eh (millivolts)	299	296	331	430	172	388
pH (Fld)	7.7	7.7	7.4	7.5	7.9	7.7
SC (umhos/cm at 25 C) (Fld)	262	264	280	356	343	328
SC (umhos/cm at 25 C)	267	268	290	348	332	293
Total Suspended Solids	<1 UJ	1.6 J		<1	<1	
TDS (Measured at 180 C)	211 J	186 J	192	246	216	193
Water Temperature (C) (Fld)	9.9	9.9	7.9	10	9.6	12.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	003Gail	003Gail	003Gail	003Gail	003Gail	003Gail
Water	SAMPLE DATE	12/19/2001	12/19/2001	6/24/2002	8/13/2002	8/13/2002	10/29/2002
	SAMPLE TIME	10:50	11:00	15:00	11:05	11:10	12:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011668003	L011668004	L020498007	L020658006	L020658007	L020899005
	SAMPLE NUMBER	EHC-0111-245	EHC-0111-246	EHC-0205-248	EHR-0208-105	EHR-0208-106	EHR-0210-104
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	117	117	104			110
Calcium (Ca) (DIS)	33	33	33			32
Carbonate As CO3	<1	<1	<1			<1
Chloride (Cl)	4	3.9	4			3.1
Magnesium (Mg) (DIS)	7.7	7.5	7.4			7
Potassium (K) (DIS)	<5	<5	<5			<5
Sodium (Na) (DIS)	17	18	16			15
Sulfate (SO4)	41	36	58	53	50	41
Total Alkalinity As CACO3	96	96	85			90

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05				<0.05
Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)	<0.005	<0.005				
Arsenic V (dis)	<0.005	<0.005				
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001			<0.001
Copper (Cu) (DIS)	0.03	0.03	0.03			0.04 J
Iron (Fe) (DIS)	0.02	0.02	<0.02			0.04
Lead (Pb) (DIS)	<0.005	<0.005	<0.005			<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02			<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02			<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	31.3	31.1				
Oxygen (O) (DIS) (Fld)	2.2	2.6	3.1			
pH	6.3	6.3	6.3			7.4
Silicon+Silica (Si+SiO2)	20	20				17
Eh (millivolts)	223	223				
pH (Fld)	7.5	7.5	7.3	7.5	7.5	6.7
SC (umhos/cm at 25 C) (Fld)	259	260	269	244	244	279
SC (umhos/cm at 25 C)	303	303	303			284
Total Suspended Solids	<1	<1				<1
TDS (Measured at 180 C)	197	196	212 J	222	224	225
Water Temperature (C) (Fld)	11.8	11.8	12.7			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	003Gail	003Gail	003Gail	003Gail	003Gail	003Gail
Water	SAMPLE DATE	12/11/2002	5/1/2003	5/5/2004	5/4/2005	5/4/2006	5/4/2006
	SAMPLE TIME	15:45	15:10	09:15	09:30	07:25	07:25
	LAB	TSC-SLC	TSC-SLC	ELI	ELI-Casper	ELI-Hel	ELI-Hel
	LAB NUMBER	L021013006	L030190012	H04050036-004	C05050186-009	C06050292-002	C06050292-002
	SAMPLE NUMBER	EHR-0212-105	EHR-0305-111	EHR-0504-303	EHR-0505-308	EHR-0506-301	EHR-0506-301
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)		104	110	101	104	104
	Calcium (Ca) (DIS)		34	35	32	36	36
	Carbonate As CO3		<2				
	Chloride (Cl)		5.2	5	5	4	4
	Magnesium (Mg) (DIS)		7.6	7	7	9	9
	Potassium (K) (DIS)		<5	4 UJ	<5	<5	<5
	Sodium (Na) (DIS)		16	17 UJ	14	16	16
	Sulfate (SO4)	47	64	57	56	64	64
	Total Alkalinity As CACO3		85	92	82	85	85
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.002	<0.005	<0.002	<0.002	<0.002	<0.002
	Arsenic III (dis)		<0.005		<0.005	<0.005	<0.005
	Arsenic V (dis)		<0.005		<0.005	<0.005	<0.005
	Cadmium (Cd) (DIS)		<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)		0.03	0.037	0.024	0.031	0.031
	Iron (Fe) (DIS)		0.08	0.06 UJ	0.03 J	0.03	0.03
	Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)		<0.02	<0.01	<0.02	<0.02	<0.02
	Zinc (Zn) (DIS)		<0.02	<0.01	<0.02	<0.02	<0.02
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)		8.6	7.2	6.8	7.36	7.36
	pH		7.1	7.4	7.24	7.43	7.43
	pH (Fld)		6.4	6.4	7.07	6.77	6.77
	SC (umhos/cm at 25 C) (Fld)	313	266	398	274	268	268
	SC (umhos/cm at 25 C)		322	268	305	300	300
	Total Suspended Solids		1.3	<10	<10	<10	<10
	TDS (Measured at 180 C)	200	204	226	148	184	184
	TDS - Calculated					203	203
	Salinity (G/KG) (Fld)			0.1			
	Water Temperature (C) (Fld)		8.3	8.5	8	8.4	8.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	003Gail	003Gail	003Gail	009Gail	009Gail
Water	SAMPLE DATE	5/17/2007	5/13/2008	5/13/2009	5/14/1985	4/7/1988
	SAMPLE TIME	08:00	07:50	07:40	00:00	00:00
	LAB	ELI	ELI	ELI	TSC-SLC	TSC-SLC
	LAB NUMBER	H07050211-002	H08050220-003	H09050213-002	85-3635	88-2617
	SAMPLE NUMBER	EHR-0507-301	EHR-0508-302	EHR-0509-301	AEH-8505-465	AEH-8804-369
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION			to Fld pH-Instr. Err		
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	97	110	95	100	82 J
Calcium (Ca) (DIS)	35	35	30	34	32.5
Carbonate As CO3					<1 J
Chloride (Cl)	6	7	5	<2	3.1
Magnesium (Mg) (DIS)	8	7	7	7.7	7.5
Potassium (K) (DIS)	3	3	3	2.6	2.7
Sodium (Na) (DIS)	16	15	13	16.2	12.5
Sulfate (SO4)	67	56	53	49.1	42
Total Alkalinity As CaCO3	79	86	78	81.8	

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005				
Selenium-VI (DIS)	<0.005				
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1		
Antimony (Sb) (DIS)	<0.005	<0.005	<0.003		
Arsenic (As) (DIS)	<0.002	<0.002	0.003	<0.004	<0.006
Arsenic III (DIS)	<0.005				<0.008
Arsenic V (DIS)	<0.005				0.01
Barium (Ba) (DIS)	<0.1	<0.1	<0.1		
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001		
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01		
Copper (Cu) (DIS)	0.027	0.024	0.023	0.04	
Gold (Au) (DIS)			<0.01		
Iron (Fe +2) (TOT)					<0.01
Iron (Fe) (DIS)	0.04	0.02	0.03	<0.02	0.02 J
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	0.003	
Mercury (Hg) (DIS)	<0.006	<0.006	<0.001		
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01		
Selenium (Se) (DIS)	<0.005	<0.005	0.002		
Silver (Ag) (DIS)	<0.005 J-	<0.005	<0.005		
Tellurium (Te) (DIS)			<0.1		
Thallium (Tl) (DIS)	<0.002	<0.002	<0.001		
Tin (Sn) (DIS)	<0.1	<0.1			
Vanadium (V) (DIS)	<0.01	<0.01	<0.01		
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	0.01	<0.008

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	8.84	6.64	5.67		5.4
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	003Gail	003Gail	003Gail	009Gail	009Gail
Water	SAMPLE DATE	5/17/2007	5/13/2008	5/13/2009	5/14/1985	4/7/1988
	SAMPLE TIME	08:00	07:50	07:40	00:00	00:00
	LAB	ELI	ELI	ELI	TSC-SLC	TSC-SLC
	LAB NUMBER	H07050211-002	H08050220-003	H09050213-002	85-3635	88-2617
	SAMPLE NUMBER	EHR-0507-301	EHR-0508-302	EHR-0509-301	AEH-8505-465	AEH-8804-369
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION			to Fld pH-Instr. Err		
	REMARKS					

**Physical/Fld-Lab: ppm unless noted**

pH	7.3	6.9	7.4	7.9	7.7
pH (Fld)	6.99	6.75			6.7
SC (umhos/cm at 25 C) (Fld)	241	249	200	287.9	278.1
SC (umhos/cm at 25 C)	300	313	298	313	252
Total Suspended Solids	<10	<10	<10		
TDS (Measured at 180 C)	206	198	175	198	203 J
Water Temperature (C) (Fld)	8.5	7.5	7.1		8.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	009Gail	009Gail	009Gail	009Gail	009Gail	009Gail
Water	SAMPLE DATE	6/5/2001	12/20/2001	6/24/2002	8/13/2002	10/29/2002	10/29/2002
	SAMPLE TIME	14:00	11:25	12:30	11:00	12:05	12:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010825003	L011668013	L020496006	L020658005	L020899003	L020899004
	SAMPLE NUMBER	EHC-0106-113	EHC-0111-259	EHC-0205-245	EHR-0208-104	EHR-0210-102	EHR-0210-103
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						Field Duplicate
	<b>Common Ions (mg/L): ppm unless noted</b>						
Bicarbonate (HCO3)		110	104			105	105
Calcium (Ca) (DIS)		39	33			35	35
Carbonate As CO3		<1	<1			<1	<1
Chloride (Cl)		4.5	3.3			4.5	5.2
Magnesium (Mg) (DIS)		9.1	7.3			7.8	7.8
Potassium (K) (DIS)		<5	<5			<5	<5
Sodium (Na) (DIS)		12	14			13	14
Sulfate (SO4)		66	51	40	57	52	52
Total Alkalinity As CaCO3		90	85			86	86
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (DIS)		<0.05	<0.05			<0.05	<0.05
Arsenic (As) (DIS)		<0.005	<0.005	<0.002	<0.005	<0.005	<0.005
Arsenic III (dis)		<0.005	<0.005				
Arsenic V (dis)		<0.005	<0.005				
Cadmium (Cd) (DIS)		<0.001	<0.001			<0.001	<0.001
Copper (Cu) (DIS)		0.06	0.06			0.04 J	0.05 J
Iron (Fe) (DIS)		<0.05	<0.02			<0.02	<0.02
Lead (Pb) (DIS)		<0.005	<0.005			<0.005	<0.005
Manganese (Mn) (DIS)		<0.02	<0.02			<0.02	<0.02
Zinc (Zn) (DIS)		<0.02	<0.02			<0.02	<0.02
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxidation Reduction Potential		145.7	73.3				
Oxygen (O) (DIS) (Fld)		5.2	3.3	5.3			
pH		7.7	6.3			7.3	7.6
Silicon+Silica (Si+SiO2)		20	21			19	19
Eh (millivolts)			278				
pH (Fld)		7.4	7.9	7.07	7.3	6.5	
SC (umhos/cm at 25 C) (Fld)		287	372	273	264	303	
SC (umhos/cm at 25 C)		319	296			306	305
Total Suspended Solids		<1	<1			<1	<1
TDS (Measured at 180 C)		222	195	202 J	220	235	231
Water Temperature (C) (Fld)		13	9.3	13.6			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	009Gail	009Gail	009Gail	009Gail	009Gail	009Gail
Water	SAMPLE DATE	12/11/2002	5/1/2003	5/5/2004	5/4/2005	5/24/2006	5/17/2007
	SAMPLE TIME	15:30	10:45	09:30	12:10	08:30	09:50
	LAB	TSC-SLC	TSC-SLC	ELI	ELI-Casper	ELI-Hel	ELI
	LAB NUMBER	L021013005	L030190003	H04050036-005	C05050186-012	C06051139-003	H07050211-006
	SAMPLE NUMBER	EHR-0212-104	EHR-0305-102	EHR-0504-304	EHR-0505-311	EHR-0506-322	EHR-0507-305
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		106	120	106	104	100
Calcium (Ca) (DIS)		34	37	32	37	37
Carbonate As CO3		<2				
Chloride (Cl)		5.3	5	5	5	6
Magnesium (Mg) (DIS)		7.5	8	7	9	8
Potassium (K) (DIS)		<5	4 UJ	<5	<5	3
Sodium (Na) (DIS)		14	16 UJ	12	14	15
Sulfate (SO4)	48	60	60	49	66	68
Total Alkalinity As CaCO3		87	100	87	85	83

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)						<0.005
Selenium-VI (DIS)						<0.005
Aluminum (Al) (DIS)						<0.1
Antimony (Sb) (DIS)						<0.005
Arsenic (As) (DIS)	<0.002	<0.005	<0.002	<0.002	<0.002	<0.002
Arsenic III (dis)		<0.005		<0.005	<0.005	<0.005
Arsenic V (dis)		<0.005		<0.005	<0.005	<0.005
Barium (Ba) (DIS)						<0.1
Beryllium (Be) (DIS)						<0.001
Cadmium (Cd) (DIS)		<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)						<0.001
Cobalt (Co) (DIS)						<0.01
Copper (Cu) (DIS)		0.07	0.093	0.065	0.057	0.034
Iron (Fe) (DIS)		0.07	0.03 UJ	0.03 J	<0.02	<0.02
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		<0.02	<0.01	0.02	<0.02	<0.01
Mercury (Hg) (DIS)						<0.006
Nickel (Ni) (DIS)						<0.01
Selenium (Se) (DIS)						<0.005
Silver (Ag) (DIS)						<0.005 J-
Thallium (Tl) (DIS)						<0.002
Tin (Sn) (DIS)						<0.1
Vanadium (V) (DIS)						<0.01
Zinc (Zn) (DIS)		0.03	<0.01	0.04	<0.02	<0.01

**Nutrients: ppm unless noted**

Total Organic Carbon						<0.5
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		7.3	7.7	6.51	10.26	11
pH		6.9	7.4	7.21	8.24	7.3
pH (Fld)		5.8	6.4	7.02	7.18	7.24

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	009Gail	009Gail	009Gail	009Gail	009Gail	009Gail
Water	SAMPLE DATE	12/11/2002	5/1/2003	5/5/2004	5/4/2005	5/24/2006	5/17/2007
	SAMPLE TIME	15:30	10:45	09:30	12:10	08:30	09:50
	LAB	TSC-SLC	TSC-SLC		ELI-Casper	ASARCO	Asarco
	LAB NUMBER	L021013005	L030190003	H04050036-005	C05050186-012	C06051139-003	H07050211-006
	SAMPLE NUMBER	EHR-0212-104	EHR-0305-102	EHR-0504-304	EHR-0505-311	EHR-0506-322	EHR-0507-305
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)	303	256	423	285	274	251
SC (umhos/cm at 25 C)		306	281	298	310	310
Total Suspended Solids		<1	<10	<10	3880	<10
TDS (Measured at 180 C)	200	189	237	190	198	217
TDS - Calculated					207	
Salinity (G/KG) (Fld)			0.1			
Water Temperature (C) (Fld)		10	10.1	10	10.1	10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	009Gail	009Gail	009Gail	105Gail	105Gail
Water	SAMPLE DATE	5/13/2008	5/13/2008	5/13/2009	5/14/1985	10/14/1986
	SAMPLE TIME	09:30	09:50	08:40	00:00	00:00
	LAB	ELI	ELI	ELI	TSC-SLC	RMAL
	LAB NUMBER	H08050220-005	H08050220-006	H09050213-005	85-3634	8610-111
	SAMPLE NUMBER	EHR-0508-304	EHR-0508-305	EHR-0509-304	AEH-8505-464	AEH-8610-111
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION			to fld pH-Instr. Err		
	REMARKS		Field Duplicate			Split
<b>Common Ions (mg/L): ppm unless noted</b>						
	Bicarbonate (HCO3)	110	110	99	101	88
	Calcium (Ca) (DIS)	35	35	32	34	37.6
	Carbonate As CO3					<5
	Chloride (Cl)	6	6	5	<2	3.9
	Magnesium (Mg) (DIS)	8	8	7	7.8	8.8 M
	Potassium (K) (DIS)	3	3	3	2.6	3 M
	Sodium (Na) (DIS)	15	15	13	17	14.3
	Sulfate (SO4)	55	54	50	52.7	58
	Total Alkalinity As CACO3	90	93	81	82.5	
<b>Metals (mg/L): ppm unless noted</b>						
	Aluminum (Al) (DIS)	<0.1	<0.1	<0.1		
	Antimony (Sb) (DIS)	<0.005	<0.005	<0.003		
	Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.004	<0.01 M
	Barium (Ba) (DIS)	<0.1	<0.1	<0.1		
	Beryllium (Be) (DIS)	<0.001	<0.001	<0.001		
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.005
	Chromium (Cr) (DIS)	<0.001	<0.001	<0.001		
	Cobalt (Co) (DIS)	<0.01	<0.01	<0.01		
	Copper (Cu) (DIS)	0.034	0.034	0.087	0.04	0.02
	Gold (Au) (DIS)			<0.01		
	Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.03
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	0.003	<0.004 M
	Mercury (Hg) (DIS)	<0.006	<0.006	<0.001		
	Nickel (Ni) (DIS)	<0.01	<0.01	<0.01		
	Selenium (Se) (DIS)	<0.005	<0.005	<0.001		
	Silver (Ag) (DIS)	<0.005	<0.005	<0.005		
	Tellurium (Te) (DIS)			<0.1		
	Thallium (Tl) (DIS)	<0.002	<0.002	<0.001		
	Tin (Sn) (DIS)	<0.1	<0.1			
	Vanadium (V) (DIS)	<0.01	<0.01	<0.01		
	Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	0.02	0.006
<b>Physical/Fld-Lab: ppm unless noted</b>						
	Oxygen (O) (DIS) (Fld)	8.55		7.05		
	pH	7.2	7.1	7.4	7.2	7.6
	pH (Fld)	7.03				
	SC (umhos/cm at 25 C) (Fld)	229		198	292.6	
	SC (umhos/cm at 25 C)	313	315	294	316	310

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	009Gail	009Gail	009Gail	105Gail	105Gail
Water	SAMPLE DATE	5/13/2008	5/13/2008	5/13/2009	5/14/1985	10/14/1986
	SAMPLE TIME	09:30	09:50	08:40	00:00	00:00
	LAB	ELI	ELI	ELI	TSC-SLC	RMAL
	LAB NUMBER	H08050220-005	H08050220-006	H09050213-005	85-3634	8610-111
	SAMPLE NUMBER	EHR-0508-304	EHR-0508-305	EHR-0509-304	AEH-8505-464	AEH-8610-111
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION			to Fld pH-Instr. Err		
	REMARKS		Field Duplicate			Split
<b>Physical/Fld-Lab: ppm unless noted</b>						
	Total Suspended Solids	<10	<10	<10		
	TDS (Measured at 180 C)	205	202	178	205	205
	Water Temperature (C) (Fld)	9.8		9.7		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	105Gail	105Gail	105Gail	105Gail	105Gail	105Gail
Water	SAMPLE DATE	10/14/1986	4/28/1987	11/3/1987	11/3/1987	4/7/1988	8/17/2000
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	16:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	86-6929	87-2854	87-10015	87-10012	88-2618	L001325001
	SAMPLE NUMBER	AEH-8610-111	AEH-8704-43	AEH-8710-64	AEH-8710-73	AEH-8804-370	EHR-0008-100
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	98	100	99		76 J	90
Calcium (Ca) (DIS)					34	30
Carbonate As CO3					<1 J	<1
Chloride (Cl)					2.2	3.7
Magnesium (Mg) (DIS)					7.5	7.1
Potassium (K) (DIS)					2.7	<5
Sodium (Na) (DIS)					12.6	11
Sulfate (SO4)	60	57	56		47 J	46
Total Alkalinity As CaCO3						74

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.006	<0.006	<0.006	<0.006	<0.006	<0.005
Arsenic III (dis)	<0.008	0.01 M	<0.008	<0.008	<0.008	
Arsenic V (dis)	0.03 M	0.01 M	0.03 M	0.03	0.01	
Cadmium (Cd) (DIS)	0.001	0.001	0.001	0.001	<0.001	<0.001
Copper (Cu) (DIS)			0.01	0.02		0.02
Iron (Fe +2) (TOT)	0.03	<0.01	<0.01	<0.01	0.02	
Iron (Fe) (DIS)	0.05 M	0.02	0.04	0.03	<0.02 J	<0.03
Lead (Pb) (DIS)	<0.005	<0.005 M	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)			<0.003	<0.003		<0.02
Zinc (Zn) (DIS)	0.01	0.008 M	<0.008	0.01	0.008	0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3	4.6	4.9	4.9	4.1	
pH	7.6	7.2	7.9 M		7.3	7.4
Depth To Water Level (ft)			16.06	16.06	17.9	
pH (Fld)	6.7	6.7	6.4	6.4	6.6	6.2
SC (umhos/cm at 25 C) (Fld)	300	285.9	278.5	281.7	263.1	290
SC (umhos/cm at 25 C)	310	285	298		249 J	272
TDS (Measured at 180 C)	210	193 M	206		203 J	204
Water Temperature (C) (Fld)	9.9	10.5	9.6	9.6		19.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	105Gail	105Gail	105Gail	105Gail	105Gail	105Gail
Water	SAMPLE DATE	6/5/2001	12/19/2001	6/24/2002	8/13/2002	10/29/2002	12/11/2002
	SAMPLE TIME	14:20	11:20	12:15	10:45	10:50	15:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010825004	L011668005	L020498006	L020658004	L020899001	L021013004
	SAMPLE NUMBER	EHC-0106-126	EHC-0111-247	EHC-0205-244	EHR-0208-103	EHR-0210-100	EHR-0212-103
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	111	107	112		111	
Calcium (Ca) (DIS)	37	36	35		35	
Carbonate As CO3	<1	<1	<1		<1	
Chloride (Cl)	5.3	4.2	3.7		4.7	
Magnesium (Mg) (DIS)	8.6	8.2	7.9		7.8	
Potassium (K) (DIS)	<5	<5	<5		<5	
Sodium (Na) (DIS)	13	14	14		13	
Sulfate (SO4)	59	47	51	49	47	51
Total Alkalinity As CaCO3	91	88	92		91	

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05			<0.05	
Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
Arsenic III (dis)	<0.005	<0.005				
Arsenic V (dis)	<0.005	<0.005				
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001		<0.001	
Copper (Cu) (DIS)	0.02	0.06	0.02		0.02 J	
Iron (Fe) (DIS)	<0.05	<0.02	<0.02		<0.02	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005		<0.005	
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02		<0.02	
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02		<0.02	

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	168.9	40.9				
Oxygen (O) (DIS) (Fld)	3.3	3.4	3.8			
pH	7.7	6.4	6.1		7.9	
Silicon+Silica (Si+SiO2)	19	19			19	
Eh (millivolts)		233				
pH (Fld)	7.3	7.5	7.1	7.2	5.8	
SC (umhos/cm at 25 C) (Fld)	274	279	276	252	328	300
SC (umhos/cm at 25 C)	308	323	307		304	
Total Suspended Solids	<1	<1			<1	
TDS (Measured at 180 C)	213	207	264 J	225	226	204
Water Temperature (C) (Fld)	14	10.5	15.4			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	105Gail	105Gail	105Gail	105Gail	105Gail	105Gail
Water	SAMPLE DATE	5/1/2003	5/1/2003	5/5/2004	5/5/2004	5/4/2005	5/4/2006
	SAMPLE TIME	11:00	11:05	08:30	08:45	07:20	07:00
	LAB	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Casper	ELI-Hel
	LAB NUMBER	L030190004	L030190005	H04050036-001	H04050036-002	C05050186-004	C06050292-001
	SAMPLE NUMBER	EHR-0305-103	EHR-0305-104	EHR-0504-300	EHR-0504-301	EHR-0505-303	EHR-0506-300
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	105	105	110		103	110
Calcium (Ca) (DIS)	30	33	34	34	30	34
Carbonate As CO3	<2	<2				
Chloride (Cl)	3.8	3.9	5		4	3
Magnesium (Mg) (DIS)	7	7.3	7	7	7	8
Potassium (K) (DIS)	<5	<5	3 UJ	4 UJ	<5	<5
Sodium (Na) (DIS)	13	14	15 UJ	15 UJ	12	13
Sulfate (SO4)	54	59	55		51	53
Total Alkalinity As CACO3	86	86	90		84	90

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	<0.005	<0.002	<0.002	<0.002	0.004
Arsenic III (dis)	<0.005	<0.005			<0.005	<0.005
Arsenic V (dis)	<0.005	<0.005			<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Copper (Cu) (DIS)	0.02	0.02	0.024	0.021	0.019	0.016
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02 J	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.01	<0.01	<0.02	<0.02
Zinc (Zn) (DIS)	<0.02	<0.02	<0.01	<0.01	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	6.2		6.9		3.25	7.23
pH	6.8	6.7	7.7		7.19	7.52
pH (Fld)	6		6.3		6.94	6.91
SC (umhos/cm at 25 C) (Fld)	249		386		263	244
SC (umhos/cm at 25 C)	298	298	252		292	281
Total Suspended Solids	<1	<1	<10		<10	<10
TDS (Measured at 180 C)	187	193	221		187	172
Salinity (G/KG) (Fld)			0.1			
Water Temperature (C) (Fld)	10.6		10.8		10.5	11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	105Gail	105Gail	105Gail	105Gail	107Gros
Water	SAMPLE DATE	5/24/2006	5/17/2007	5/13/2008	5/13/2009	4/29/1987
	SAMPLE TIME	07:30	07:30	07:15	08:20	00:00
	LAB	ELI-Hel	ELI	ELI	ELI	CHMTC
	LAB NUMBER	C06051139-001	H07050211-001	H08050220-001	H09050213-004	8704-54
	SAMPLE NUMBER	EHR-0506-320	EHR-0507-300	EHR-0508-300	EHR-0509-303	AEH-8704-54
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION				to Fld pH-Instr. Err	
	REMARKS					Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	102	100	110	110	
Calcium (Ca) (DIS)	34	34	34	32	56.8
Chloride (Cl)	4	5	5	4	20 M
Magnesium (Mg) (DIS)	8	8	7	7	12.4
Potassium (K) (DIS)	<5	3	3	3	10.1
Sodium (Na) (DIS)	13	14	14	13	30.6
Sulfate (SO4)	61	54	55	52	130
Total Alkalinity As CaCO3	86	83	86	87	

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005			
Selenium-VI (DIS)		<0.005			
Aluminum (Al) (DIS)		<0.1	<0.1	<0.1	
Antimony (Sb) (DIS)		<0.005	<0.005	<0.003	
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	0.03
Arsenic III (dis)	<0.005	<0.005			
Arsenic V (dis)	<0.005	<0.005			
Barium (Ba) (DIS)		<0.1	<0.1	<0.1	
Beryllium (Be) (DIS)		<0.001	<0.001	<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.004
Chromium (Cr) (DIS)		<0.001	<0.001	<0.001	
Cobalt (Co) (DIS)		<0.01	<0.01	<0.01	
Copper (Cu) (DIS)	0.018	0.015	0.013	0.019	0.04 M
Gold (Au) (DIS)				<0.01	
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.1
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.003
Manganese (Mn) (DIS)	<0.02	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)		<0.006	<0.006	<0.001	
Nickel (Ni) (DIS)		<0.01	<0.01	<0.01	
Selenium (Se) (DIS)		<0.005	<0.005	<0.001	
Silver (Ag) (DIS)		<0.005 J-	<0.005	<0.005	
Tellurium (Te) (DIS)				<0.1	
Thallium (Tl) (DIS)		<0.002	<0.002	<0.001	
Tin (Sn) (DIS)		<0.1	<0.1		
Vanadium (V) (DIS)		<0.01	<0.01	<0.01	
Zinc (Zn) (DIS)	<0.02	<0.01	<0.01	<0.01	0.05

**Nutrients: ppm unless noted**

Total Organic Carbon		<0.5			
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**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	10.06	8.33	9.89	6.46	
pH	8.48	7.3	7	7.5	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	105Gail	105Gail	105Gail	105Gail	107Gros
Water	SAMPLE DATE	5/24/2006	5/17/2007	5/13/2008	5/13/2009	4/29/1987
	SAMPLE TIME	07:30	07:30	07:15	08:20	00:00
	LAB	ASARCO	Asarco	Hydrometrics	Hydrometrics	CHMTC
	LAB NUMBER	C06051139-001	H07050211-001	H08050220-001	H09050213-004	8704-54
	SAMPLE NUMBER	EHR-0506-320	EHR-0507-300	EHR-0508-300	EHR-0509-303	AEH-8704-54
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION				to Fld pH-Instr. Err	
	REMARKS					Split

**Physical/Fld-Lab: ppm unless noted**

pH (Fld)	7.21	7.09	6.83		
SC (umhos/cm at 25 C) (Fld)	251	227	238	202	
SC (umhos/cm at 25 C)	286	288	306	306	
Total Suspended Solids	<10	<10	<10	<10	
TDS (Measured at 180 C)	198	195	194	185	405 M
TDS - Calculated	195				
Water Temperature (C) (Fld)	10.7	10.7	10.6	10.3	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	107Gros	107Gros	107Gros	107Gros	107Gros	107Gros
Water	SAMPLE DATE	4/29/1987	4/29/1987	4/29/1987	11/3/1987	11/3/1987	4/8/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	CHMTC	TSC-SLC	TSC-SLC	WYRHR	TSC-SLC
	LAB NUMBER	87-2910	8704-61	87-2911	87-10020	8710-68	88-2614
	SAMPLE NUMBER	AEH-8704-54	AEH-8704-61	AEH-8704-61	AEH-8710-68	AEH-8710-68	AEH-8804-366
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS		Field Duplicate	Field Duplicate		Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	135			133 M	110	105 J
Calcium (Ca) (DIS)		57			50.9	53.5
Carbonate As CO3					<5	<1 J
Chloride (Cl)					7.2	9.6
Magnesium (Mg) (DIS)		12.4			10.7	11
Potassium (K) (DIS)			10		11.9 M	10.2
Sodium (Na) (DIS)			30.2		27	26.5
Sulfate (SO4)	136			114	110	115

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.04	0.04	0.04	0.06	0.06	0.06 J
Arsenic III (dis)	<0.008		<0.008	0.06 M		<0.008
Arsenic V (dis)	0.04 M		0.03	0.01		0.06
Cadmium (Cd) (DIS)	<0.001	<0.004	<0.001	<0.001	<0.0001	<0.001
Copper (Cu) (DIS)		0.03		0.01	0.02	
Iron (Fe +2) (TOT)	<0.01		<0.01	<0.01		<0.01
Iron (Fe) (DIS)	0.03	<0.1	0.05	0.07	0.04	0.05 J
Lead (Pb) (DIS)	<0.005 M	<0.003	<0.005 M	<0.005 M	0.003	<0.005 J
Manganese (Mn) (DIS)		0.01		0.003	0.002	
Zinc (Zn) (DIS)	0.04	0.05	0.04	0.05	0.06	0.08

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	2.6		2.6	2.4		4
pH	7.2			7.9 M		7.5
pH (Fld)	6.08		6.08	6.2		6.9
SC (umhos/cm at 25 C) (Fld)	511.6			483		467.2
SC (umhos/cm at 25 C)	520			520		432
TDS (Measured at 180 C)	330			349	310	339 J
Water Temperature (C) (Fld)	11.7		11.7	12		9.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	107Gros	107Gros	107Gros	107Gros	107Gros	107Gros
Water	SAMPLE DATE	10/12/1989	5/14/1991	11/2/1993	5/10/1994	11/8/1994	5/10/1995
	SAMPLE TIME	00:00	00:00	13:15	11:10	14:50	10:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-800	91-2829	93-9145	94-1338	94-3248	95-4490
	SAMPLE NUMBER	AEH-8910-461	AEH-9105-168	EHC-9311-159	EHC-9405-159	EHC-9411-159	EHC-9505-158
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	7.4	6.4	7.2 J	7.2	6.5	6.8
	Sulfate (SO4)	106	101	96 J	150 J	141	127
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.008	0.1	0.06	0.05	0.09	0.09
	Arsenic III (dis)	<0.008	<0.004	<0.004 J	<0.004	0.005 U	0.006
	Arsenic V (dis)	0.07	0.2 J	0.05 J	0.06 J	0.1	0.1
	Cadmium (Cd) (DIS)	<0.001	<0.001	0.001 U	<0.001	0.001	0.001
	Copper (Cu) (DIS)	<0.008	0.01	0.009	0.01	0.02	0.02
	Lead (Pb) (DIS)	<0.005 UJ	<0.005	<0.005	<0.005 UJ	<0.005	<0.005 J
	Zinc (Zn) (DIS)	<0.008 J	0.07 U	0.05	0.07	0.06	0.1
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	3.4	5.9	4.4	5.3	3.3	5.6
	pH	7.7	7.7				7.2
	pH (Fld)	6.9	7.6	7.2	6.8	7.2	7.2
	SC (umhos/cm at 25 C) (Fld)	478.8	437.4	551	552 J	484	469
	SC (umhos/cm at 25 C)	452	442	574 J	530 J	504	500 J
	TDS (Measured at 180 C)	296 J	312	385	355	370	343 J
	Water Temperature (C) (Fld)	12.2	11	10.1	10.4	10.8	9.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	107Gros	107Gros	107Gros	107Gros	107Gros	107Gros
Water	SAMPLE DATE	11/14/1995	11/8/1996	5/6/1997	11/11/1997	11/11/1997	5/9/2000
	SAMPLE TIME	00:00	14:15	11:40	15:15	15:30	14:50
	LAB	HYDRO	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	EHC-9511-162	96-7770	97-929	192-2756	193-2764	L000705032
	SAMPLE NUMBER	EHC-9511-162	EHC-9611-144	EHC-9705-157	EHC-9711-144	EHC-9711-159	EHC-0005-160
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)						129
Calcium (Ca) (DIS)						40
Carbonate As CO3						<1
Chloride (Cl)		7.2	7	9	9	12
Magnesium (Mg) (DIS)						8.3
Potassium (K) (DIS)						20
Sodium (Na) (DIS)						49
Sulfate (SO4)		200	154	172	168	140
Total Alkalinity As CaCO3						106

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)		0.1	0.09	0.08	0.08	0.1
Arsenic III (dis)		<0.004	<0.005	<0.005 J	0.01 J	0.01 UJ
Arsenic V (dis)		0.1 J	0.07	0.08 J	0.2 JA	0.1
Cadmium (Cd) (DIS)		<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)		0.01	0.03	0.01	0.01	0.03
Iron (Fe) (DIS)						0.1 UJ
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)						<0.02
Zinc (Zn) (DIS)		0.2	0.1	0.2	0.1	0.09

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		3.2	5.3	2.9	2.8	14.2
pH		7.7	7.3	7.2	7	7.4
Depth To Water Level (ft)	0.0					
Eh (millivolts)						348
pH (Fld)		7.03	6.3	7.06	7.06	7.3
SC (umhos/cm at 25 C) (Fld)		613	549	607	609	552
SC (umhos/cm at 25 C)		633	555	593	596	566
Total Suspended Solids				<1	<1	
TDS (Measured at 180 C)		412	390	427	416	386
Water Temperature (C) (Fld)		11.1	9.3	10.1	10.1	10.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	107Gros	107Gros	107Gros	107Gros	107Gros	107Gros
Water	SAMPLE DATE	10/30/2000	5/11/2001	7/6/2001	6/24/2002	8/13/2002	5/6/2003
	SAMPLE TIME	13:30	14:40	11:45	00:00	11:15	15:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001833001	L010691016	L010989005	L020498001	L020658008	L030196001
	SAMPLE NUMBER	EHC-0011-162	EHC-0105-112	EHC-0106-145	EHC-0205-251	EHR-0208-107	EHR-0305-114
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	129	126	116	121		120
Calcium (Ca) (DIS)	65	53	66	46		47
Carbonate As CO3	<1		<1	<1		<2
Chloride (Cl)	20 J	18	17	12		16
Magnesium (Mg) (DIS)	14	11	15	9.4		9.4
Potassium (K) (DIS)	13	20	8.7 U	19		22
Sodium (Na) (DIS)	44	43	36	39		42
Sulfate (SO4)	208	188	170	152	184	164
Total Alkalinity As CACO3	106	103	95	99		98

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		<0.05				
Arsenic (As) (DIS)	0.06	0.08 U	0.04	0.08	0.05	0.09
Arsenic III (dis)	<0.02	0.07 U	0.01			0.03
Arsenic V (dis)	0.07	0.01	0.02			0.06
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001		<0.001
Copper (Cu) (DIS)	0.2	0.05	0.007	0.02		0.03
Iron (Fe) (DIS)	0.06	0.3	<0.02	0.04		0.04
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005		<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02		<0.02
Zinc (Zn) (DIS)	0.2	0.5	<0.02	0.03		0.08

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			231.2			
Oxygen (O) (DIS) (Fld)	6.08	5.9		4.2		3.4
pH	7.3	7.6	7.1	6		6.8
Silicon+Silica (Si+SiO2)		18				
Eh (millivolts)	424	189	475			
pH (Fld)	7.6	7.8	7	7	7.2	5.8
SC (umhos/cm at 25 C) (Fld)	625	602	636	518	504	550
SC (umhos/cm at 25 C)	663	609	639	562		568
Total Suspended Solids	<1	<1				<1
TDS (Measured at 180 C)	463	410	438	390 J	441	368
Water Temperature (C) (Fld)	13.4	14.4	13.2	13.6		10.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	107Gros	107Gros	107Gros	107Gros	107Gros	107Gros
Water	SAMPLE DATE	5/26/2004	5/26/2004	5/25/2005	5/24/2006	5/24/2007	5/20/2008
	SAMPLE TIME	09:15	09:30	00:00	08:00	12:45	10:10
	LAB	ELI	ELI	ASARCO	ELI-Hel	ELI	ELI
	LAB NUMBER	H04050192-002	H04050192-003	0	C06051139-002	H07050287-009	H08050343-003
	SAMPLE NUMBER	EHR-0504-314	EHR-0504-315	EHR-0505-NS1	EHR-0506-321	EHR-0507-337	EHR-0508-316
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION			Irrig Well Off			
	REMARKS		Field Duplicate	No Sample			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	130		149	130	120
Calcium (Ca) (DIS)	47	47	38	54	53
Chloride (Cl)	20		12	12	14
Magnesium (Mg) (DIS)	9	9	8	11	11
Potassium (K) (DIS)	20	18	17	10	13
Sodium (Na) (DIS)	49	48	38	40	33
Sulfate (SO4)	170		106	148	150
Total Alkalinity As CaCO3	110		125	100	98

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)				<0.005	
Selenium-VI (DIS)				0.0163	
Aluminum (Al) (DIS)				<0.1	<0.1
Antimony (Sb) (DIS)				<0.005	<0.005
Arsenic (As) (DIS)	0.094	0.081	0.093	0.042	0.052
Arsenic III (dis)	<0.001	<0.001	<0.005	<0.005	
Arsenic V (dis)	0.11	0.093	0.1	0.0407	
Barium (Ba) (DIS)				<0.1	<0.1
Beryllium (Be) (DIS)				<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)				<0.001	<0.001
Cobalt (Co) (DIS)				<0.01	<0.01
Copper (Cu) (DIS)	0.012	0.01	0.01	0.011	0.013
Iron (Fe) (DIS)	0.03	<0.02	<0.02	0.02	0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.02	<0.01	<0.01
Mercury (Hg) (DIS)				<0.006	<0.006
Nickel (Ni) (DIS)				<0.01	<0.01
Selenium (Se) (DIS)				0.019	0.016
Silver (Ag) (DIS)				<0.005 J-	<0.005
Thallium (Tl) (DIS)				<0.002	<0.002
Tin (Sn) (DIS)				<0.1	<0.1
Vanadium (V) (DIS)				<0.01	<0.01
Zinc (Zn) (DIS)	0.02	<0.01	<0.02	0.02	0.01

**Nutrients: ppm unless noted**

Total Organic Carbon				<0.5	
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**Other: ppm unless noted**

Analyses			0.0		
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.7		10.39	5.73	10.63
pH	7.5		8.44	7.1	7.3
pH (Fld)	6.3		7.24	6.91	7.06

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	107Gros	107Gros	107Gros	107Gros
Water	SAMPLE DATE	5/26/2004	5/24/2006	5/24/2007	5/20/2008
	SAMPLE TIME	09:15	08:00	12:45	10:10
	LAB		ASARCO	Asarco	Hydrometrics
	LAB NUMBER	H04050192-002	C06051139-002	H07050287-009	H08050343-003
	SAMPLE NUMBER	EHR-0504-314	EHR-0506-321	EHR-0507-337	EHR-0508-316
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION				
	REMARKS				

**Physical/Fld-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)	936	404	515	534
SC (umhos/cm at 25 C)	575	466	542	548
Total Suspended Solids	<10	<10	<10	<10
TDS (Measured at 180 C)	447	304	374	358
TDS - Calculated		314		
Water Temperature (C) (Fld)	10.5	10.9	10.4	10.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	107Gros	109Gail	109Gail	109Gail	109Gail
Water	SAMPLE DATE	5/19/2009	5/14/1985	10/14/1986	10/14/1986	4/28/1987
	SAMPLE TIME	08:50	00:00	00:00	00:00	00:00
	LAB	ELI	TSC-SLC	RMAL	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050267-002	85-3633	8610-142	86-6935	87-2853
	SAMPLE NUMBER	EHR-0509-316	AEH-8505-463	AEH-8610-142	AEH-8610-142	AEH-8704-56
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS			Split		
<b>Common Ions (mg/L): ppm unless noted</b>						
	Bicarbonate (HCO3)	130	107	99 M	115	115
	Calcium (Ca) (DIS)	40	45	49.4		
	Carbonate As CO3			<5		
	Chloride (Cl)	8	<2	5.7		
	Magnesium (Mg) (DIS)	9	9.8	11.5		
	Potassium (K) (DIS)	8	3.2	3.6		
	Sodium (Na) (DIS)	32	22	22.2		
	Sulfate (SO4)	110	94	89	103 M	83
	Total Alkalinity As CACO3	100	87.7			
<b>Metals (mg/L): ppm unless noted</b>						
	Aluminum (Al) (DIS)	<0.1				
	Antimony (Sb) (DIS)	<0.003				
	Arsenic (As) (DIS)	0.031	<0.004	<0.01 M	<0.006	<0.006
	Arsenic III (dis)				<0.008	0.02
	Arsenic V (dis)				0.01	<0.008
	Barium (Ba) (DIS)	<0.1				
	Beryllium (Be) (DIS)	<0.001				
	Cadmium (Cd) (DIS)	0.001	<0.001	<0.005 M	<0.001	0.001
	Chromium (Cr) (DIS)	<0.001				
	Cobalt (Co) (DIS)	<0.01				
	Copper (Cu) (DIS)	0.013	0.01	0.01		
	Gold (Au) (DIS)	<0.01				
	Iron (Fe +2) (TOT)				0.05	0.01
	Iron (Fe) (DIS)	<0.02	<0.02	<0.03	0.05	0.05
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005 M
	Manganese (Mn) (DIS)	<0.01	0.008	<0.004		
	Mercury (Hg) (DIS)	<0.001				
	Nickel (Ni) (DIS)	<0.01				
	Selenium (Se) (DIS)	0.011				
	Silver (Ag) (DIS)	<0.005				
	Tellurium (Te) (DIS)	<0.1				
	Thallium (Tl) (DIS)	<0.001				
	Vanadium (V) (DIS)	<0.01				
	Zinc (Zn) (DIS)	0.01	0.02	0.02	0.02	0.1 M
<b>Physical/Fld-Lab: ppm unless noted</b>						
	Oxygen (O) (DIS) (Fld)	6.3			2.8	4.2
	pH	7.4	7.5	7.6	7.6	7.2 M
	pH (Fld)	6.93			6.7	6.7
	SC (umhos/cm at 25 C) (Fld)	311	393.5		428 M	376.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	107Gros	109Gail	109Gail	109Gail	109Gail
Water	SAMPLE DATE	5/19/2009	5/14/1985	10/14/1986	10/14/1986	4/28/1987
	SAMPLE TIME	08:50	00:00	00:00	00:00	00:00
	LAB	ELI	TSC-SLC	RMAL	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050267-002	85-3633	8610-142	86-6935	87-2853
	SAMPLE NUMBER	EHR-0509-316	AEH-8505-463	AEH-8610-142	AEH-8610-142	AEH-8704-56
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS			Split		
<b>Physical/Fid-Lab: ppm unless noted</b>						
	SC (umhos/cm at 25 C)	457	423	448	448	361 M
	Total Suspended Solids	<10				
	TDS (Measured at 180 C)	296	279	265	296	247
	Water Temperature (C) (Fid)	10.4			10.3	11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	109Gail	109Gail	109Gail	109Gail	109Gail	109Gail
Water	SAMPLE DATE	6/5/2001	6/24/2002	8/13/2002	8/13/2003	9/10/2003	5/26/2004
	SAMPLE TIME	14:45	11:45	10:30	14:30	14:50	11:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI
	LAB NUMBER	L010825005	L020496005	L020658003	L030446001	L030504005	H04050192-005
	SAMPLE NUMBER	EHC-0106-127	EHC-0205-243	EHR-0208-102	EHR-0803-100	EHR-0903-104	EHR-0504-317
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	107			102		100
Calcium (Ca) (DIS)	36			34		34
Carbonate As CO3	<1			<2		
Chloride (Cl)	4.4			4.4		6
Magnesium (Mg) (DIS)	8.5			7.5		7
Potassium (K) (DIS)	<5			<5		3 UJ
Sodium (Na) (DIS)	13			14		14 UJ
Sulfate (SO4)	60	51		26	65	56
Total Alkalinity As CaCO3	88			84		86

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05					
Arsenic (As) (DIS)	<0.005	<0.002		<0.005	<0.002	<0.002
Arsenic III (dis)	<0.005			<0.002		<0.001
Arsenic V (dis)	<0.005			<0.002		<0.001
Cadmium (Cd) (DIS)	<0.001			<0.003		<0.001
Copper (Cu) (DIS)	<0.004			0.002		<0.004
Iron (Fe) (DIS)	<0.05			<0.02		<0.02
Lead (Pb) (DIS)	<0.005			<0.005		<0.005
Manganese (Mn) (DIS)	<0.02			<0.02		<0.01
Zinc (Zn) (DIS)	<0.02			<0.02		<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	167.6					
Oxygen (O) (DIS) (Fld)	2.9	3.4		3.2	2.9	3.9
pH	7.7			8		7.5
Silicon+Silica (Si+SiO2)	19					
pH (Fld)	7.4	7.01		7.2	6.4	6.3
SC (umhos/cm at 25 C) (Fld)	267	281		277	314	256
SC (umhos/cm at 25 C)	303				300	287
Total Suspended Solids	1.6				<1	<10
TDS (Measured at 180 C)	202	212 J		230	191	195
Water Temperature (C) (Fld)	13.2	15.2			15	10.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	109Gail	109Gail	109Gail	109Gail	109Gail	109Gail
Water	SAMPLE DATE	7/22/2004	9/9/2004	9/9/2004	5/25/2005	7/20/2005	9/8/2005
	SAMPLE TIME	11:00	10:45	11:00	00:00	10:30	10:30
	LAB	ELI	ELI	ELI	ASARCO	ELI-Hel	ELI-Hel
	LAB NUMBER	H04070156-005	H04090066-001	H04090066-002	0	H05070155-004	H05090071-004
	SAMPLE NUMBER	EHR-0704-304	EHR-0904-300	EHR-0904-301	EHR-0505-NS2	EHR-0705-303	EHR-0905-303
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION				Irrig Well Off		
	REMARKS			Field Duplicate	No Sample		
<b>Common Ions (mg/L): ppm unless noted</b>							
	Sulfate (SO4)	54	54			52	57
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.002	<0.002	<0.002		<0.002	<0.002
<b>Other: ppm unless noted</b>							
	Analyses				0.0		
<b>Physical/Fid-Lab: ppm unless noted</b>							
	pH (Fld)	6.02	6.05			7.01	7.26
	SC (umhos/cm at 25 C) (Fld)	403	414			267	238
	TDS (Measured at 180 C)	198	196			197	184

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	109Gail	109Gail	109Gail	109Gail	109Gail	109Gail
Water	SAMPLE DATE	9/8/2005	5/24/2006	5/24/2006	7/12/2006	9/18/2006	5/17/2007
	SAMPLE TIME	10:45	09:00	09:15	14:00	10:40	09:00
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel	ELI
	LAB NUMBER	H05090071-005	C06051139-004	C06051139-007	H06070114-001	H06090133-002	H07050211-004
	SAMPLE NUMBER	EHR-0905-304	EHR-0506-323	EHR-0506-326	EHR-0706-300	EHR-0906-301	EHR-0507-303
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		98					99
Calcium (Ca) (DIS)		33					32
Chloride (Cl)		4					5
Magnesium (Mg) (DIS)		8					7
Potassium (K) (DIS)		<5					3
Sodium (Na) (DIS)		13					14
Sulfate (SO4)		61			49	54	52
Total Alkalinity As CaCO3		82					81

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)							<0.005
Selenium-VI (DIS)							<0.005
Aluminum (Al) (DIS)							<0.1
Antimony (Sb) (DIS)							<0.005
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Arsenic III (dis)		<0.005	<0.005				<0.005
Arsenic V (dis)		<0.005	<0.005				<0.005
Barium (Ba) (DIS)							<0.1
Beryllium (Be) (DIS)							<0.001
Cadmium (Cd) (DIS)		<0.001	<0.001				<0.001
Chromium (Cr) (DIS)							<0.001
Cobalt (Co) (DIS)							<0.01
Copper (Cu) (DIS)		<0.004	<0.004				<0.004
Iron (Fe) (DIS)		<0.02	<0.02				<0.02
Lead (Pb) (DIS)		<0.005	<0.005				<0.005
Manganese (Mn) (DIS)		<0.02	<0.02				<0.01
Mercury (Hg) (DIS)							<0.006
Nickel (Ni) (DIS)							<0.01
Selenium (Se) (DIS)							<0.005
Silver (Ag) (DIS)							<0.005 J-
Thallium (Tl) (DIS)							<0.002
Tin (Sn) (DIS)							<0.1
Vanadium (V) (DIS)							<0.01
Zinc (Zn) (DIS)		<0.02	<0.02				<0.01

**Nutrients: ppm unless noted**

Total Organic Carbon							<0.5
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**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		8.96					10.23
pH		8.44					7.6
pH (Fld)		7.35			7.15	7.29	7.39
SC (umhos/cm at 25 C) (Fld)		257			230	218	225

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	109Gail	109Gail	109Gail	109Gail
Water	SAMPLE DATE	5/24/2006	7/12/2006	9/18/2006	5/17/2007
	SAMPLE TIME	09:00	14:00	10:40	09:00
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI
	LAB NUMBER	C06051139-004	H06070114-001	H06090133-002	H07050211-004
	SAMPLE NUMBER	EHR-0506-323	EHR-0706-300	EHR-0906-301	EHR-0507-303
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION				
	REMARKS				

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C)	283			277
Total Suspended Solids	1800			<10
TDS (Measured at 180 C)	184	179	187	183
TDS - Calculated	191			
Water Temperature (C) (Fid)	10.6			10.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	109Gail	109Gail	109Gail	109Gail	109Gail	109Gail
Water	SAMPLE DATE	6/21/2007	7/13/2007	8/27/2007	8/27/2007	9/27/2007	10/8/2007
	SAMPLE TIME	10:50	11:50	10:00	10:10	09:30	12:45
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07060248-004	H07070129-006	H07080262-004	H07080262-005	H07090318-005	H07100105-004
	SAMPLE NUMBER	EHR-0607-303	EHR-0707-305	EHR-0807-303	EHR-0807-304	EHR-0907-304	EHR-1007-303
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION		No Fld - Inop Instr				
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	100	100 UJ	100	100	100	96
Calcium (Ca) (DIS)	33 UJ	32 UJ	32	32	31	31
Chloride (Cl)	6 UJ	6 UJ	6	5	6	5
Magnesium (Mg) (DIS)	7 UJ	7 UJ	7	7	6	6
Potassium (K) (DIS)	3	3 UJ	3	3	3	2
Sodium (Na) (DIS)	13 UJ	13 UJ	14	13	12	13
Sulfate (SO4)	49 UJ	53 UJ	52	51	53	49
Total Alkalinity As CaCO3	82 UJ	85 UJ	83	82	82	79

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	0.02 UJ	0.03 UJ	0.03 UJ	0.04 UJ
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	<0.02	<0.01	<0.01	<0.01	<0.01	0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.4		6.2		5.9	7.03
pH	7.6	7.5	7.7	7.6	7.2	7.2
pH (Fld)	7.33		7.53		7.45	7.18
SC (umhos/cm at 25 C) (Fld)	208		256		236	237
SC (umhos/cm at 25 C)	284 UJ	302	295	294	294	287
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	205 UJ	191 UJ	193	188	187	192
Water Temperature (C) (Fld)	11.1		10.7		9.6	10.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	109Gail	109Gail	109Gail	109Gail	109Gail	109Gail
Water	SAMPLE DATE	11/7/2007	5/20/2008	5/20/2008	6/11/2008	7/8/2008	7/8/2008
	SAMPLE TIME	00:00	13:00	13:15	11:00	13:55	14:10
	LAB	Hydrometrics	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	z	H08050343-007	H08050343-008	H08060234-004	H08070151-001	H08070151-002
	SAMPLE NUMBER	EHR-1107-109	EHR-0508-320	EHR-0508-321	EHR-0608-303	EHR-0708-300	EHR-0708-301
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	o Samp-Winterized					
	REMARKS	No Sample		Field Duplicate			Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	98	99	100	100	100
Calcium (Ca) (DIS)	39	37	32	31	31
Chloride (Cl)	5	5	5	6	6
Magnesium (Mg) (DIS)	8	8	7	7	7
Potassium (K) (DIS)	3	3	3	3	3
Sodium (Na) (DIS)	13	13	13	13	13
Sulfate (SO4)	54	55	57	56	56
Total Alkalinity As CaCO3	80	81	83	82	82

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.1			
Antimony (Sb) (DIS)	<0.005	<0.005			
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002
Barium (Ba) (DIS)	<0.1	<0.1			
Beryllium (Be) (DIS)	<0.001	<0.001			
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001			
Cobalt (Co) (DIS)	<0.01	<0.01			
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02	0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.006	<0.006			
Nickel (Ni) (DIS)	<0.01	<0.01			
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Silver (Ag) (DIS)	<0.005	<0.005			
Thallium (Tl) (DIS)	<0.002	<0.002			
Tin (Sn) (DIS)	<0.1	<0.1			
Vanadium (V) (DIS)	<0.01	<0.01			
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01

**Other: ppm unless noted**

No Analysis	0.0				
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.37		9.73	10.03	
pH	7.4	7.4	7.4	7.3	7.3
pH (Fld)	7.02		7.19	7.06	
SC (umhos/cm at 25 C) (Fld)	251		256	251	
SC (umhos/cm at 25 C)	296	297	302	302	302

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	109Gail	109Gail	109Gail	109Gail	109Gail
Water	SAMPLE DATE	5/20/2008	5/20/2008	6/11/2008	7/8/2008	7/8/2008
	SAMPLE TIME	13:00	13:15	11:00	13:55	14:10
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08050343-007	H08050343-008	H08060234-004	H08070151-001	H08070151-002
	SAMPLE NUMBER	EHR-0508-320	EHR-0508-321	EHR-0608-303	EHR-0708-300	EHR-0708-301
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS		Field Duplicate			Field Duplicate
<b>Physical/Fld-Lab: ppm unless noted</b>						
	Total Suspended Solids	<10	<10	<10	13	21
	TDS (Measured at 180 C)	191	192	199	192	195
	Water Temperature (C) (Fld)	11.8		10.1	12.1	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	109Gail	109Gail	109Gail	109Gail	109Gail	109Gail
Water	SAMPLE DATE	8/6/2008	9/28/2008	5/27/2009	6/5/2009	7/3/2009	8/7/2009
	SAMPLE TIME	13:15	09:40	11:30	08:10	09:15	10:00
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08080096-004	H08090485-004	H09050340-004	H09060109-002	H09070071-003	H09080098-005
	SAMPLE NUMBER	EHR-0808-303	EHR-0908-303	EHR-0509-325	EHR-0609-301	EHR-0709-302	EHR-0809-304
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	99	100	100	100	99	100
	Calcium (Ca) (DIS)	39	35	29	34	31	33
	Chloride (Cl)	6	6	4	5	4	4
	Magnesium (Mg) (DIS)	8	7	7	8	7	7
	Potassium (K) (DIS)	3	3	2	3	3	3
	Sodium (Na) (DIS)	13	14	11	13	12	13
	Sulfate (SO4)	61	55	54	57	56	56
	Total Alkalinity As CaCO3	81	84	84	84	81	84
<b>Metals (mg/L): ppm unless noted</b>							
	Aluminum (Al) (DIS)			<0.1	<0.1	<0.1	<0.1
	Antimony (Sb) (DIS)			<0.003	<0.003	<0.003	<0.003
	Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	Barium (Ba) (DIS)			<0.1	<0.1	<0.1	<0.1
	Beryllium (Be) (DIS)			<0.001	<0.001	<0.001	<0.001
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	0.002	<0.001	<0.001
	Chromium (Cr) (DIS)			<0.001	<0.001	<0.001	0.001
	Cobalt (Co) (DIS)			<0.01	<0.01	<0.01	<0.01
	Copper (Cu) (DIS)	<0.004	<0.004	<0.001	0.002	0.002	0.004
	Gold (Au) (DIS)			<0.01	<0.01 UJ	<0.01 UJ	<0.01
	Iron (Fe) (DIS)	<0.02	<0.02	0.04	<0.02	<0.02	<0.02
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)	<0.01	<0.015	<0.01	<0.01	<0.01	<0.01
	Mercury (Hg) (DIS)			<0.001	<0.001	<0.001	<0.001
	Nickel (Ni) (DIS)			<0.01	<0.01	<0.01	<0.01
	Selenium (Se) (DIS)	<0.005	<0.005	<0.001	0.002	0.002 J	0.002
	Silver (Ag) (DIS)			<0.005	<0.005 UJ	<0.005	<0.005
	Tellurium (Te) (DIS)			<0.1	<0.1 UJ	<0.1	<0.1
	Thallium (Tl) (DIS)			<0.001	<0.001	<0.001	<0.001
	Vanadium (V) (DIS)			<0.01	<0.01	<0.01	<0.01
	Zinc (Zn) (DIS)	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	8.29	9.53	8.4	7.74	8.13	6.45
	pH	7.4	7.4	7.4	7.8	7.3	7.2
	pH (Fld)	7.29	7.41	7.33	7.24	7.14	7.2
	SC (umhos/cm at 25 C) (Fld)	249	230	200	208	200	192
	SC (umhos/cm at 25 C)	310	319	295	304	300	304

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	109Gail	109Gail	109Gail	109Gail	109Gail	109Gail
Water	SAMPLE DATE	8/6/2008	9/28/2008	5/27/2009	6/5/2009	7/3/2009	8/7/2009
	SAMPLE TIME	13:15	09:40	11:30	08:10	09:15	10:00
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08080096-004	H08090485-004	H09050340-004	H09060109-002	H09070071-003	H09080098-005
	SAMPLE NUMBER	EHR-0808-303	EHR-0908-303	EHR-0509-325	EHR-0609-301	EHR-0709-302	EHR-0809-304
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Total Suspended Solids	<10	<10	<10	<10	<10	<10
	TDS (Measured at 180 C)	194	206	197	214	193	196
	Water Temperature (C) (Fld)	11.4	9.9	10.3	10.3	10.3	11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	109Gail	110Gail	1122King
Water	SAMPLE DATE	8/7/2009	5/17/2007	5/22/2007
	SAMPLE TIME	10:15	09:25	10:50
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09080098-006	H07050211-005	H07050263-005
	SAMPLE NUMBER	EHR-0809-305	EHR-0507-304	EHR-0507-317
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION			
	REMARKS	Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	100	120	170
Calcium (Ca) (DIS)	33	38	60
Chloride (Cl)	4	6	13
Magnesium (Mg) (DIS)	7	8	14
Potassium (K) (DIS)	3	3	3
Sodium (Na) (DIS)	14	15	30
Sulfate (SO4)	57	58	93
Total Alkalinity As CaCO3	84	95	140

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005	<0.005
Selenium-VI (DIS)		<0.005	<0.005
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.005	<0.005
Arsenic (As) (DIS)	<0.002	<0.002	<0.002
Arsenic III (DIS)		<0.005	<0.005
Arsenic V (DIS)		<0.005	<0.005
Barium (Ba) (DIS)	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	0.002	<0.001	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	0.004	0.015	<0.004
Gold (Au) (DIS)	<0.01		
Iron (Fe) (DIS)	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001	<0.006	<0.006
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.002	<0.005	<0.005
Silver (Ag) (DIS)	<0.005	<0.005 J-	<0.005
Tellurium (Te) (DIS)	<0.1		
Thallium (Tl) (DIS)	<0.001	<0.002	<0.002
Tin (Sn) (DIS)		<0.1	<0.1
Vanadium (V) (DIS)	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.02	<0.01	<0.01

**Nutrients: ppm unless noted**

Total Organic Carbon		<0.5	<0.5
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		884	10.04
pH	7.2	7.4	8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	109Gail	110Gail	1122King
Water	SAMPLE DATE	8/7/2009	5/17/2007	5/22/2007
	SAMPLE TIME	10:15	09:25	10:50
	LAB	ELI	Asarco	Asarco
	LAB NUMBER	H09080098-006	H07050211-005	H07050263-005
	SAMPLE NUMBER	EHR-0809-305	EHR-0507-304	EHR-0507-317
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION			
	REMARKS	Field Duplicate		

**Physical/Fid-Lab: ppm unless noted**

pH (Fld)		7.14	7.54
SC (umhos/cm at 25 C) (Fld)		255	399
SC (umhos/cm at 25 C)	302	316	527
Total Suspended Solids	<10	<10	<10
TDS (Measured at 180 C)	193	215	
Water Temperature (C) (Fld)		10.2	10.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	1145Gros	1165Lew	1189GrosH
Water	SAMPLE DATE	11/7/2007	5/24/2007	11/7/2007
	SAMPLE TIME	09:45	11:10	10:15
	LAB	ELI	ELI	ELI
	LAB NUMBER	H07110067-002	H07050287-007	H07110067-003
	SAMPLE NUMBER	EHR-1107-301	EHR-0507-335	EHR-1107-302
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	Spec Req		Spec Req
	REMARKS			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	180	180	250
Calcium (Ca) (DIS)	58	70	95
Chloride (Cl)	16	32	50
Magnesium (Mg) (DIS)	13	16	22
Potassium (K) (DIS)	3	3	4
Sodium (Na) (DIS)	29	29	38
Sulfate (SO4)	74	75	113
Total Alkalinity As CaCO3	150	150	210

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005	
Selenium-VI (DIS)		<0.005	
Aluminum (Al) (DIS)		<0.1	
Antimony (Sb) (DIS)		<0.005	
Arsenic (As) (DIS)	<0.002	<0.002	<0.002
Arsenic III (DIS)		<0.005	
Arsenic V (DIS)		<0.005	
Barium (Ba) (DIS)		<0.1	
Beryllium (Be) (DIS)		<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.001	
Cobalt (Co) (DIS)		<0.01	
Copper (Cu) (DIS)	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.03 UJ	<0.02	0.05 UJ
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)		<0.006	
Nickel (Ni) (DIS)		<0.01	
Selenium (Se) (DIS)	<0.005	<0.005	<0.005
Silver (Ag) (DIS)		<0.005 J-	
Thallium (Tl) (DIS)		<0.002	
Tin (Sn) (DIS)		<0.1	
Vanadium (V) (DIS)		<0.01	
Zinc (Zn) (DIS)	<0.01	0.02	0.01

**Nutrients: ppm unless noted**

Total Organic Carbon		<0.5	
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**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	14.05	19.46	15.69
pH	7.6	7.3	7.6
pH (Fld)	7.36	7.46	7.39
SC (umhos/cm at 25 C) (Fld)	409	451	628

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	1145Gros	1165Lew	1189GrosH
Water	SAMPLE DATE	11/7/2007	5/24/2007	11/7/2007
	SAMPLE TIME	09:45	11:10	10:15
	LAB	ELI	ELI	ELI
	LAB NUMBER	H07110067-002	H07050287-007	H07110067-003
	SAMPLE NUMBER	EHR-1107-301	EHR-0507-335	EHR-1107-302
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	Spec Req		Spec Req
	REMARKS			

**Physical/Fid-Lab: ppm unless noted**

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SC (umhos/cm at 25 C)	530	588	791
Total Suspended Solids	<10	<10	<10
TDS (Measured at 180 C)	337	395	525
Water Temperature (C) (Fid)	10.6	11.5	11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	1189GrosI	1190King	1193Clark
Water	SAMPLE DATE	11/7/2007	4/10/2008	10/13/2008
	SAMPLE TIME	10:25	10:10	09:15
	LAB	ELI	ELI	ELI
	LAB NUMBER	H07110067-004	H08040188-003	H08100167-001
	SAMPLE NUMBER	EHR-1107-303	EHR-0408-302	EHR-1008-300
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	Spec Req	New Site	Spec EPA Req
	REMARKS			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	310	170	160
Calcium (Ca) (DIS)	117	59	62
Chloride (Cl)	49	26	29
Magnesium (Mg) (DIS)	26	13	15
Potassium (K) (DIS)	4	3	3
Sodium (Na) (DIS)	43	26	26
Sulfate (SO4)	137	83	120
Total Alkalinity As CaCO3	250	140	130

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.002	<0.002	<0.002
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.02 UJ	0.07	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.015
Selenium (Se) (DIS)	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	<0.01	0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	16.22	9.08	14.78
pH	7.8	7.7	7.7
pH (Fld)	7.74	7.21	7.05
SC (umhos/cm at 25 C) (Fld)	754	463	438
SC (umhos/cm at 25 C)	926	575	589
Total Suspended Solids	20	<10	<10
TDS (Measured at 180 C)	616	387	382
Water Temperature (C) (Fld)	10	10.8	11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	1195Clark	1226Gros	1266Dud
Water	SAMPLE DATE	10/13/2008	11/7/2007	5/22/2007
	SAMPLE TIME	09:40	09:15	11:40
	LAB	ELI	ELI	ELI
	LAB NUMBER	H08100167-002	H07110067-001	H07050263-007
	SAMPLE NUMBER	EHR-1008-301	EHR-1107-300	EHR-0507-319
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	Spec EPA Req	Spec Req	
	REMARKS			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	150	250	220
Calcium (Ca) (DIS)	63	99	77
Chloride (Cl)	29	65	21
Magnesium (Mg) (DIS)	15	23	17
Potassium (K) (DIS)	3	4	4
Sodium (Na) (DIS)	26	42	37
Sulfate (SO4)	120	119	114
Total Alkalinity As CaCO3	120	210	180

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)			<0.005
Selenium-VI (DIS)			<0.005
Aluminum (Al) (DIS)			<0.1
Antimony (Sb) (DIS)			<0.005
Arsenic (As) (DIS)	<0.002	<0.002	<0.002
Arsenic III (DIS)			<0.005
Arsenic V (DIS)			<0.005
Barium (Ba) (DIS)			<0.1
Beryllium (Be) (DIS)			<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)			<0.001
Cobalt (Co) (DIS)			<0.01
Copper (Cu) (DIS)	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	0.05 UJ	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.015	<0.01	<0.01
Mercury (Hg) (DIS)			<0.006
Nickel (Ni) (DIS)			<0.01
Selenium (Se) (DIS)	<0.005	<0.005	<0.005
Silver (Ag) (DIS)			<0.005
Thallium (Tl) (DIS)			<0.002
Tin (Sn) (DIS)			<0.1
Vanadium (V) (DIS)			<0.01
Zinc (Zn) (DIS)	<0.02	0.02	0.01

**Nutrients: ppm unless noted**

Total Organic Carbon			<0.5
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**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	14.97	15.93	8.52
pH	7.6	7.7	8.2
pH (Fld)	7.05	7.27	7.44
SC (umhos/cm at 25 C) (Fld)	437	678	491

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	1195Clark	1226Gros	1266Dud
Water	SAMPLE DATE	10/13/2008	11/7/2007	5/22/2007
	SAMPLE TIME	09:40	09:15	11:40
	LAB	ELI	ELI	ELI
	LAB NUMBER	H08100167-002	H07110067-001	H07050263-007
	SAMPLE NUMBER	EHR-1008-301	EHR-1107-300	EHR-0507-319
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	Spec EPA Req	Spec Req	
	REMARKS			

**Physical/Fid-Lab: ppm unless noted**

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SC (umhos/cm at 25 C)	591	854	648
Total Suspended Solids	<10	<10	<10
TDS (Measured at 180 C)	387	555	
Water Temperature (C) (Fld)	11.3	10.7	9.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	1266King	126Clint	126Clint	126Clint
Water	SAMPLE DATE	5/22/2007	5/24/2007	6/21/2007	5/27/2009
	SAMPLE TIME	11:15	07:00	14:00	10:40
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H07050263-006	H07050287-001	H07060248-009	H09050340-003
	SAMPLE NUMBER	EHR-0507-318	EHR-0507-326	EHR-0607-308	EHR-0509-324
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION				
	REMARKS				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	230	120	120	110
Calcium (Ca) (DIS)	84	37	36 UJ	30
Chloride (Cl)	28	22	12 UJ	8
Magnesium (Mg) (DIS)	21	7	7 UJ	6
Potassium (K) (DIS)	4	14	15	12
Sodium (Na) (DIS)	52	31	28 UJ	20
Sulfate (SO4)	142	68	70 UJ	83
Total Alkalinity As CaCO3	180	95	94 UJ	90

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005	<0.005		
Selenium-VI (DIS)	<0.005	<0.005		
Aluminum (Al) (DIS)	<0.1	<0.1		<0.1
Antimony (Sb) (DIS)	<0.005	<0.005		<0.003
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002
Arsenic III (DIS)	<0.005	<0.005		
Arsenic V (DIS)	<0.005	<0.005		
Barium (Ba) (DIS)	<0.1	<0.1		<0.1
Beryllium (Be) (DIS)	<0.001	<0.001		<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001		<0.001
Cobalt (Co) (DIS)	<0.01	<0.01		<0.01
Copper (Cu) (DIS)	<0.004	0.012	0.011	0.015
Gold (Au) (DIS)				<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.006	<0.006		<0.001
Nickel (Ni) (DIS)	<0.01	<0.01		<0.01
Selenium (Se) (DIS)	<0.005	0.009	0.007	0.007
Silver (Ag) (DIS)	<0.005	<0.005 J-		<0.005
Tellurium (Te) (DIS)				<0.1
Thallium (Tl) (DIS)	<0.002	<0.002		<0.001
Tin (Sn) (DIS)	<0.1	<0.1		
Vanadium (V) (DIS)	<0.01	<0.01		<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.02	0.01

**Nutrients: ppm unless noted**

Total Organic Carbon	<0.5	<0.5		
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.38	7.99	8.15	9.37
pH	8.1	7.1	7.4	7.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	1266King	126Clint	126Clint	126Clint
Water	SAMPLE DATE	5/22/2007	5/24/2007	6/21/2007	5/27/2009
	SAMPLE TIME	11:15	07:00	14:00	10:40
	LAB	Asarco	Asarco	ASARCO	Hydrometrics
	LAB NUMBER	H07050263-006	H07050287-001	H07060248-009	H09050340-003
	SAMPLE NUMBER	EHR-0507-318	EHR-0507-326	EHR-0607-308	EHR-0509-324
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION				
	REMARKS				

**Physical/Fid-Lab: ppm unless noted**

pH (Fld)	7.61	7.07	7.17	7.12
SC (umhos/cm at 25 C) (Fld)	583	326	302	266
SC (umhos/cm at 25 C)	748	431	406 UJ	386
Total Suspended Solids	<10	<10	<10	<10
TDS (Measured at 180 C)		274	275 UJ	253
Water Temperature (C) (Fld)	10.6	11	12.3	10.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	126ClntH	126ClntH	126ClntH	126ClntH	126ClntH	126ClntH
Water	SAMPLE DATE	6/12/2001	12/19/2001	6/24/2002	6/24/2002	8/13/2002	10/30/2002
	SAMPLE TIME	10:30	08:45	13:30	13:45	11:50	10:25
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010825013	L011668001	L020496007	L020496008	L020658011	L020899007
	SAMPLE NUMBER	EHC-0106-139	EHC-0111-242	EHC-0205-246	EHC-0205-247	EHR-0208-110	EHR-0210-106
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	127	124				135
Calcium (Ca) (DIS)	65	46				44
Carbonate As CO3	<1	<1				<1
Chloride (Cl)	19	14				9.9
Magnesium (Mg) (DIS)	13	9.3				8.7
Potassium (K) (DIS)	16	16				16
Sodium (Na) (DIS)	36	46				40
Sulfate (SO4)	178	118	120	118	147	109
Total Alkalinity As CACO3	104	102				111

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05				<0.05
Arsenic (As) (DIS)	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005
Arsenic III (dis)	<0.005	<0.005				
Arsenic V (dis)	<0.005	<0.005				
Cadmium (Cd) (DIS)	<0.001	<0.001				<0.001
Copper (Cu) (DIS)	0.04	0.02				0.07
Iron (Fe) (DIS)	<0.05	<0.02				<0.02
Lead (Pb) (DIS)	<0.005	<0.005				<0.005
Manganese (Mn) (DIS)	<0.02	<0.02				<0.02
Zinc (Zn) (DIS)	<0.02	<0.02				<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	153.3	258.9				
Oxygen (O) (DIS) (Fld)		5.6	5.1	5.1		
pH	7.6	6.6				7.8
Silicon+Silica (Si+SiO2)	17	19				19
Eh (millivolts)		451				
pH (Fld)	7.07	7.8	7.06	7.07	7.3	6.3
SC (umhos/cm at 25 C) (Fld)	403	458	518	519	520	501
SC (umhos/cm at 25 C)	630	546				511
Total Suspended Solids	1.5	<1				<1
TDS (Measured at 180 C)	452	358	278 J	389 J	427	369
Water Temperature (C) (Fld)	12.1	11.5	16.2	16.7		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	126ClintH	126ClintH	126ClintH	126ClintH	126ClintH	126ClintH
Water	SAMPLE DATE	12/11/2002	5/1/2003	7/23/2003	5/26/2004	5/25/2005	5/4/2006
	SAMPLE TIME	16:15	12:15	12:15	11:30	12:20	09:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI-Casper	ELI-Hel
	LAB NUMBER	L021013008	L030190009	L030359005	H04050192-006	C05050997-008	C06050292-007
	SAMPLE NUMBER	EHR-0212-107	EHR-0305-108	EHR-0307-205	EHR-0504-318	EHR-0505-323	EHR-0506-306
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		122	120	120	114	114
Calcium (Ca) (DIS)		48	60	45	42	36
Carbonate As CO3		<2	<2			
Chloride (Cl)		24	14	24	18	8
Magnesium (Mg) (DIS)		9.7	14	8	8	8
Potassium (K) (DIS)		14	<5	15	15	14
Sodium (Na) (DIS)		35	35	36 UJ	33	34
Sulfate (SO4)	149	136	156 J	130	108	31
Total Alkalinity As CACO3		100	98	100	94	94

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.002	<0.005	<0.002	<0.002	<0.002	<0.002
Arsenic III (dis)		<0.005	<0.002	<0.001	<0.005	<0.005
Arsenic V (dis)		<0.005	<0.002	<0.001	<0.005	<0.005
Cadmium (Cd) (DIS)		<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)		0.05	0.005 J	0.014	0.026	0.032
Iron (Fe) (DIS)		<0.02	<0.02 UJ	<0.02	<0.02	<0.02
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		<0.02	<0.02	<0.01	<0.02	<0.02
Zinc (Zn) (DIS)		<0.02	<0.02	<0.01	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		6.5	3.7	8.5	7.51	7.63
pH		7.1	8.1	7.7	7.21	7.31
pH (Fld)		6.2	6.5	6.5	7.04	7.16
SC (umhos/cm at 25 C) (Fld)	529	451	572	810	422	368
SC (umhos/cm at 25 C)		542	584	498	498	418
Total Suspended Solids		<1	<1	<10	<10	<10
TDS (Measured at 180 C)	374	342	413	348	317	248
TDS - Calculated						274
Water Temperature (C) (Fld)		11.2	14.6	11.3	11.1	10.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	126ClintH	126ClintI	126ClintI	126ClintI	126ClintI
Water	SAMPLE DATE	5/20/2008	6/12/2001	8/13/2002	5/25/2005	5/4/2006
	SAMPLE TIME	09:20	10:15	11:55	13:10	09:25
	LAB	ELI	TSC-SLC	TSC-SLC	ELI-Casper	ELI-Hel
	LAB NUMBER	H08050343-001	L010825014	L020658012	C05050997-009	C06050292-008
	SAMPLE NUMBER	EHR-0508-314	EHC-0106-140	EHR-0208-111	EHR-0505-324	EHR-0506-307
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	110	112	119	120
Calcium (Ca) (DIS)	32	69	58	57
Carbonate As CO3		<1		
Chloride (Cl)	9	19	13	10
Magnesium (Mg) (DIS)	6	16	13	14
Potassium (K) (DIS)	11	<5	<5	<5
Sodium (Na) (DIS)	23	32	32	36
Sulfate (SO4)	67	196	166	157
Total Alkalinity As CaCO3	93	92	97	99

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.05		
Antimony (Sb) (DIS)	<0.005			
Arsenic (As) (DIS)	<0.002	<0.005	<0.005	<0.002
Arsenic III (dis)		<0.005		<0.005
Arsenic V (dis)		<0.005		0.03
Barium (Ba) (DIS)	<0.1			
Beryllium (Be) (DIS)	<0.001			
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001			
Cobalt (Co) (DIS)	<0.01			
Copper (Cu) (DIS)	0.018	<0.004	<0.004	0.006
Iron (Fe) (DIS)	<0.02	0.1	0.12	0.08
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.02	<0.02	<0.02
Mercury (Hg) (DIS)	<0.006			
Nickel (Ni) (DIS)	<0.01			
Selenium (Se) (DIS)	0.008			
Silver (Ag) (DIS)	<0.005			
Thallium (Tl) (DIS)	<0.002			
Tin (Sn) (DIS)	<0.1			
Vanadium (V) (DIS)	<0.01			
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential		167.3		
Oxygen (O) (DIS) (Fld)	10.24		6.72	3.87
pH	7.3	7.9	7.22	7.21
Silicon+Silica (Si+SiO2)		20		
pH (Fld)	6.92	6.9	7.4	6.95
SC (umhos/cm at 25 C) (Fld)	347	427	466	484
			484	465

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	126ClntH	126ClntI	126ClntI	126ClntI	126ClntI
Water	SAMPLE DATE	5/20/2008	6/12/2001	8/13/2002	5/25/2005	5/4/2006
	SAMPLE TIME	09:20	10:15	11:55	13:10	09:25
	LAB	ELI	TSC-SLC	TSC-SLC	ELI-Casper	ELI-Hel
	LAB NUMBER	H08050343-001	L010825014	L020658012	C05050997-009	C06050292-008
	SAMPLE NUMBER	EHR-0508-314	EHC-0106-140	EHR-0208-111	EHR-0505-324	EHR-0506-307
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS					
<b>Physical/Fid-Lab: ppm unless noted</b>						
	SC (umhos/cm at 25 C)	366	610		580	532
	Total Suspended Solids	<10	1.8		<10	12
	TDS (Measured at 180 C)	362	436	429	391	324
	TDS - Calculated					364
	Water Temperature (C) (Fid)	10.1	10.7		10.1	10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	126ClintI	203Gail	203Gail	203Gail	203Gail
Water	SAMPLE DATE	5/20/2008	6/24/2002	8/13/2002	10/29/2002	12/11/2002
	SAMPLE TIME	09:40	11:30	10:15	11:50	15:00
	LAB	ELI	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H08050343-002	L020496004	L020658002	L020899002	L021013003
	SAMPLE NUMBER	EHR-0508-315	EHC-0205-242	EHR-0208-101	EHR-0210-101	EHR-0212-102
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	120			104	
Calcium (Ca) (DIS)	50			33	
Carbonate As CO3				<1	
Chloride (Cl)	9			4	
Magnesium (Mg) (DIS)	11			7.4	
Potassium (K) (DIS)	4			<5	
Sodium (Na) (DIS)	29			14	
Sulfate (SO4)	120	53	58	49	51
Total Alkalinity As CaCO3	100			85	

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1			<0.05	
Antimony (Sb) (DIS)	<0.005				
Arsenic (As) (DIS)	<0.002	<0.002	<0.005	<0.005	<0.002
Barium (Ba) (DIS)	<0.1				
Beryllium (Be) (DIS)	<0.001				
Cadmium (Cd) (DIS)	<0.001			<0.001	
Chromium (Cr) (DIS)	<0.001				
Cobalt (Co) (DIS)	<0.01				
Copper (Cu) (DIS)	0.004			0.02 J	
Iron (Fe) (DIS)	0.08			0.3	
Lead (Pb) (DIS)	<0.005			<0.005	
Manganese (Mn) (DIS)	<0.01			0.2	
Mercury (Hg) (DIS)	<0.006				
Nickel (Ni) (DIS)	<0.01				
Selenium (Se) (DIS)	0.013				
Silver (Ag) (DIS)	<0.005				
Thallium (Tl) (DIS)	<0.002				
Tin (Sn) (DIS)	<0.1				
Vanadium (V) (DIS)	<0.01				
Zinc (Zn) (DIS)	<0.01			<0.02	

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	8.02	2.9			
pH	7.2			7.5	
Silicon+Silica (Si+SiO2)				16	
pH (Fld)	6.89	6.9	7	6	
SC (umhos/cm at 25 C) (Fld)	466	276	269	284	260
SC (umhos/cm at 25 C)	481			287	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	126ClintI	203Gail	203Gail	203Gail	203Gail
Water	SAMPLE DATE	5/20/2008	6/24/2002	8/13/2002	10/29/2002	12/11/2002
	SAMPLE TIME	09:40	11:30	10:15	11:50	15:00
	LAB	ELI	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H08050343-002	L020496004	L020658002	L020899002	L021013003
	SAMPLE NUMBER	EHR-0508-315	EHC-0205-242	EHR-0208-101	EHR-0210-101	EHR-0212-102
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS					

**Physical/Fld-Lab: ppm unless noted**

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Total Suspended Solids	<10			3	
TDS (Measured at 180 C)	318	204 J	217	215	190
Water Temperature (C) (Fld)	10.8	15.8			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	203Gail	203Gail	203Gail	203Gail	203Gail	203Gail
Water	SAMPLE DATE	5/1/2003	10/24/2003	5/5/2004	7/22/2004	9/9/2004	11/5/2004
	SAMPLE TIME	11:15	11:00	10:30	10:00	11:30	09:00
	LAB	TSC-SLC	TSC-SLC	ELI	ELI	ELI	ELI
	LAB NUMBER	L030190006	L030598005	H04050036-007	H04070156-004	H04090066-004	H04110051-002
	SAMPLE NUMBER	EHR-0305-105	AEH-0310-312	EHR-0504-306	EHR-0704-303	EHR-0904-303	EHR-1104-301
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	100		100			
Calcium (Ca) (DIS)	30		32			
Carbonate As CO3	<2					
Chloride (Cl)	4.2		4			
Magnesium (Mg) (DIS)	7		7			
Potassium (K) (DIS)	<5		3 UJ			
Sodium (Na) (DIS)	14		15 UJ			
Sulfate (SO4)	54	48	51	49	51	49
Total Alkalinity As CACO3	82		84			

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002
Arsenic III (dis)	<0.005					
Arsenic V (dis)	<0.005					
Cadmium (Cd) (DIS)	<0.001		<0.001			
Copper (Cu) (DIS)	0.02		0.016			
Iron (Fe) (DIS)	0.05		<0.02			
Lead (Pb) (DIS)	<0.005		<0.005			
Manganese (Mn) (DIS)	<0.02		<0.01			
Zinc (Zn) (DIS)	0.02		<0.01			

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.3	7.2	7.04			
pH	6.6		7.4			
pH (Fld)	6	7	6.5	6.26	6.21	6.54
SC (umhos/cm at 25 C) (Fld)	242	263	367	379	388	386
SC (umhos/cm at 25 C)	279		246			
Total Suspended Solids	1.4	<1	<10			
TDS (Measured at 180 C)	185	178	203	191	184	227
Salinity (G/KG) (Fld)			0.1			
Water Temperature (C) (Fld)	10.4	10.5	12.2			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	203Gail	203Gail	203Gail	203Gail	203Gail	203Gail
Water	SAMPLE DATE	11/5/2004	1/23/2005	3/16/2005	3/16/2005	5/4/2005	7/20/2005
	SAMPLE TIME	09:15	12:30	14:30	15:00	09:10	11:00
	LAB	ELI	ELI	ELI	ELI	ELI-Casper	ELI-Hel
	LAB NUMBER	H04110051-003	H05010131-001	H05030118-001	H05030118-002	C05050186-008	H05070155-005
	SAMPLE NUMBER	EHR-1104-302	EHR-0105-301	EHR-0305-300	EHR-0305-301	EHR-0505-307	EHR-0705-304
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)						95	
Calcium (Ca) (DIS)						29	
Chloride (Cl)						4	
Magnesium (Mg) (DIS)						7	
Potassium (K) (DIS)						<5	
Sodium (Na) (DIS)						12	
Sulfate (SO4)			49	50		52	51
Total Alkalinity As CaCO3						78	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Arsenic III (dis)						<0.005	
Arsenic V (dis)						<0.005	
Cadmium (Cd) (DIS)						<0.001	
Copper (Cu) (DIS)						0.015	
Iron (Fe) (DIS)						0.03 J	
Lead (Pb) (DIS)						<0.005	
Manganese (Mn) (DIS)						<0.02	
Zinc (Zn) (DIS)						<0.02	

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)						4.46	
pH						7.33	
pH (Fld)		6.36	6.03			7.11	6.77
SC (umhos/cm at 25 C) (Fld)		357	364			260	255
SC (umhos/cm at 25 C)						283	
Total Suspended Solids						<10	
TDS (Measured at 180 C)		176	183			144	190
Water Temperature (C) (Fld)						10.5	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	203Gail	203Gail	203Gail	203Gail	203Gail	203Gail
Water	SAMPLE DATE	9/8/2005	11/2/2005	11/2/2005	1/12/2006	3/9/2006	3/9/2006
	SAMPLE TIME	08:30	08:45	09:15	03:00	16:00	16:00
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel
	LAB NUMBER	H05090071-002	H05110021-002	H05110021-003	H06010094-001	H06030070-001	H06030070-003
	SAMPLE NUMBER	EHR-0905-301	EHR-1105-301	EHR-1105-302	EHR-0106-300	EHR-0306-300	EHR-0306-302
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS			Field Duplicate			Field Duplicate
	<b>Common Ions (mg/L): ppm unless noted</b>						
	Sulfate (SO4)	56	55		52	51	
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
<b>Physical/Fld-Lab: ppm unless noted</b>							
	pH (Fld)	7.15	7.07		6.84	7.07	
	SC (umhos/cm at 25 C) (Fld)	226	222		240	255	
	TDS (Measured at 180 C)	168	178		172	166	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	203Gail	203Gail	203Gail	203Gail	203Gail	203Gail
Water	SAMPLE DATE	5/4/2006	7/12/2006	9/18/2006	10/23/2006	10/23/2006	10/23/2006
	SAMPLE TIME	08:45	16:30	07:50	16:55	16:55	17:15
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel
	LAB NUMBER	C06050292-006	H06070114-003	H06090133-001	H06100221-003	H06100221-003	H06100221-004
	SAMPLE NUMBER	EHR-0506-305	EHR-0706-302	EHR-0906-300	EHR-1006-302	EHR-1006-302	EHR-1006-303
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	99			95	95		94
Calcium (Ca) (DIS)	32			29	29		29
Chloride (Cl)	4			4	4		4
Magnesium (Mg) (DIS)	8			6	6		7
Potassium (K) (DIS)	<5			3	3		3
Sodium (Na) (DIS)	13			13	13		15
Sulfate (SO4)	53	49	48	52	52		50
Total Alkalinity As CaCO3	81			78	78		77
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Arsenic III (dis)	<0.005						
Arsenic V (dis)	<0.005						
Cadmium (Cd) (DIS)	<0.001			0.001	0.001		<0.001
Copper (Cu) (DIS)	0.015			0.014	0.014		0.012
Iron (Fe) (DIS)	<0.02			<0.02	<0.02		<0.02
Lead (Pb) (DIS)	<0.005			<0.005	<0.005		<0.005
Manganese (Mn) (DIS)	<0.02			<0.01	<0.01		<0.01
Zinc (Zn) (DIS)	<0.02			<0.01	<0.01		<0.01
<b>Nutrients: ppm unless noted</b>							
Total Organic Carbon				<0.5	<0.5		<0.5
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	7.3			12.28	12.28		12.25
pH	7.43			7.3	7.3		7.3
pH (Fld)	7.05	7.08	6.71	7.32	7.32		7.27
SC (umhos/cm at 25 C) (Fld)	237	224	201	191	191		189
SC (umhos/cm at 25 C)	262			271	271		272
Total Suspended Solids	<10			<10	<10		<10
TDS (Measured at 180 C)	154	174	176	165	165		168
TDS - Calculated	178						
Water Temperature (C) (Fld)	10.3			10.5	10.5		11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	203Gail	203Gail	203Gail	203Gail	203Gail	203Gail
Water	SAMPLE DATE	10/23/2006	11/24/2006	12/22/2006	12/22/2006	1/5/2007	2/5/2007
	SAMPLE TIME	17:50	15:00	09:10	09:20	16:40	18:15
	LAB	ELI-Hel	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06100221-006	H06110205-003	H06120180-004	H06120180-005	H07010030-001	H07020039-004
	SAMPLE NUMBER	EHR-1006-305	EHR-1106-302	EHR-1206-303	EHR-1206-304	EHR-0107-300	EHR-0207-303
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						New Owner
	REMARKS	Field Duplicate			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	96	94	95	93	94	94
Calcium (Ca) (DIS)	30	28	30	30	30	29
Chloride (Cl)	4	5	5	5	5	5
Magnesium (Mg) (DIS)	6	6	7	7	6	6
Potassium (K) (DIS)	3	3	3	3	3	3
Sodium (Na) (DIS)	14	13	14	14	14	14
Sulfate (SO4)	47	46	46	46	46	47
Total Alkalinity As CaCO3	79	77	78	76	77	77

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.015	0.016	0.017	0.016	0.013	0.016
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

**Nutrients: ppm unless noted**

Total Organic Carbon	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		13.34	7.36		9.2	13.49
pH	7.2	7.6	7.4	7.4	7.5	7.2
pH (Fld)		7.6	6.96		6.91	7.34
SC (umhos/cm at 25 C) (Fld)		226	221		251	214
SC (umhos/cm at 25 C)	271	273	275	276	277	280
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	161	168	181	183	180	178
Water Temperature (C) (Fld)		10.8	10.7		10.9	10.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	203Gail	203Gail	203Gail	203Gail	203Gail	203Gail
Water	SAMPLE DATE	3/4/2007	4/1/2007	5/24/2007	5/24/2007	5/24/2007	6/21/2007
	SAMPLE TIME	12:45	17:00	10:20	10:20	10:20	10:15
	LAB	ELI	ELI	EPA-R8	ELI	ELI	ELI
	LAB NUMBER	H07030014-001	H07040029-003	8705007-03	H07050287-005	H07050287-006	H07060248-002
	SAMPLE NUMBER	EHR-0307-300	EHR-0407-302	EHR-0507-332	EHR-0507-332	EHR-0507-334	EHR-0607-301
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION			EHR-0507-333			
	REMARKS			Split		Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	95	94		94	92	94
Calcium (Ca) (DIS)	31	29		30	30	30 UJ
Chloride (Cl)	5	5		5	5	6 UJ
Magnesium (Mg) (DIS)	7	6		7	7	6 UJ
Potassium (K) (DIS)	3	3		2	2	2
Sodium (Na) (DIS)	13	14		13	14	13 UJ
Sulfate (SO4)	50	45		44	48	46 UJ
Total Alkalinity As CaCO3	78	77		77	75	77 UJ

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)				<0.005	<0.005	
Selenium-VI (DIS)				<0.005	<0.005	
Aluminum (Al) (DIS)			<0.1	<0.1	<0.1	
Antimony (Sb) (DIS)			<0.001	<0.005	<0.005	
Arsenic (As) (DIS)	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002
Arsenic III (DIS)				<0.005	<0.005	
Arsenic V (DIS)				<0.005	<0.005	
Barium (Ba) (DIS)			0.029	<0.1	<0.1	
Beryllium (Be) (DIS)			<0.001	<0.001	<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.0002	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)			<0.002	<0.001	<0.001	
Cobalt (Co) (DIS)			<0.002	<0.01	<0.01	
Copper (Cu) (DIS)	0.018	0.015	0.013	0.012	0.013	0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.002	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)			<0.0001	<0.006	<0.006	
Nickel (Ni) (DIS)			0.0011	<0.01	<0.01	
Selenium (Se) (DIS)	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005
Silver (Ag) (DIS)			<0.0005	<0.005 J-	<0.005 J-	
Thallium (Tl) (DIS)			<0.0003	<0.002	<0.002	
Tin (Sn) (DIS)			<0.2	<0.1	<0.1	
Vanadium (V) (DIS)			<0.01	<0.01	<0.01	
Zinc (Zn) (DIS)	<0.01	<0.01	<0.04	<0.01	<0.01	<0.02

**Nutrients: ppm unless noted**

Total Organic Carbon	<0.5	<0.5		<0.5	<0.5	
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**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	6.24	9.11		9.11		8.25
pH	7.6	7.7		7.2	7.1	7.5
pH (Fld)	6.78	6.96		6.98		7.04
SC (umhos/cm at 25 C) (Fld)	233	226		233		224

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	203Gail	203Gail	203Gail	203Gail	203Gail
Water	SAMPLE DATE	3/4/2007	4/1/2007	5/24/2007	5/24/2007	6/21/2007
	SAMPLE TIME	12:45	17:00	10:20	10:20	10:15
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07030014-001	H07040029-003	H07050287-005	H07050287-006	H07060248-002
	SAMPLE NUMBER	EHR-0307-300	EHR-0407-302	EHR-0507-332	EHR-0507-334	EHR-0607-301
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS				Field Duplicate	

**Physical/Fld-Lab: ppm unless noted**

SC (umhos/cm at 25 C)	246	277	275	278	276 UJ
Total Suspended Solids	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	180	188	183	184	218 UJ
Water Temperature (C) (Fld)	11.1	11.5	10.8		11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	203Gail	203Gail	203Gail	203Gail	203Gail	203Gail
Water	SAMPLE DATE	7/13/2007	8/27/2007	9/27/2007	10/8/2007	10/8/2007	11/7/2007
	SAMPLE TIME	10:30	08:40	09:05	12:25	12:25	11:00
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07070129-002	H07080262-002	H07090318-004	H07100105-002	H07100105-003	H07110067-005
	SAMPLE NUMBER	EHR-0707-301	EHR-0807-301	EHR-0907-303	EHR-1007-301	EHR-1007-302	EHR-1107-304
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	98 UJ	100	93	95	96	100
	Calcium (Ca) (DIS)	32 UJ	31	29	29	28	31
	Chloride (Cl)	6 UJ	5	5	5	5	5
	Magnesium (Mg) (DIS)	6 UJ	7	6	6	6	7
	Potassium (K) (DIS)	3 UJ	2	2	2	2	2
	Sodium (Na) (DIS)	14 UJ	14	12	13	13	14
	Sulfate (SO4)	53 UJ	49	53	55	52	49
	Total Alkalinity As CaCO3	80 UJ	82	76	78	79	82
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)	0.009	0.006	0.01	0.015	0.015	0.014
	Iron (Fe) (DIS)	0.02	0.02 UJ	0.03 UJ	0.04 UJ	0.05 UJ	0.04 UJ
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fid)	6.22	3.72	6.01	6.5		10.39
	pH	7.2	7.5	7.1	7.1	7.1	7.4
	pH (Fid)	7.16	7.22	7.28	7.08		7.75
	SC (umhos/cm at 25 C) (Fid)	196 UJ	229	218	212		213
	SC (umhos/cm at 25 C)	304	278	277	272	273	283
	Total Suspended Solids	<10	<10	<10	<10	<10	<10
	TDS (Measured at 180 C)	190 UJ	183	177	181	182	185
	Water Temperature (C) (Fid)	11.1	10.7	10.5	10.9		10.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	203Gail	203Gail	203Gail	203Gail	203Gail	203Gail
Water	SAMPLE DATE	11/7/2007	12/13/2007	1/8/2008	1/8/2008	2/6/2008	3/11/2008
	SAMPLE TIME	11:10	08:10	08:40	09:00	08:30	07:55
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07110067-006	H07120163-002	H08010067-002	H08010067-003	H08020045-003	H08030167-001
	SAMPLE NUMBER	EHR-1107-305	EHR-1207-301	EHR-0108-301	EHR-0108-302	EHR-0208-302	EHR-0308-300
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate	Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	96		91	93	96	94
Bicarbonate (HCO3) (Dis)		96				
Calcium (Ca) (DIS)	31	30	29	29	30	32
Chloride (Cl)	5	6	5	5	4	5
Magnesium (Mg) (DIS)	7	7	6	6	6	7
Potassium (K) (DIS)	3	2	2	2	2	2
Sodium (Na) (DIS)	14	12	12	12	13	13
Sulfate (SO4)	48	51	50	52	52	52
Total Alkalinity As CaCO3	79	79	75	76	78	77

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.013	0.015	0.018	0.018	0.017	0.017
Iron (Fe) (DIS)	0.04 UJ	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	<0.01	0.01	<0.01	<0.01	<0.01	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		8.31	6.88		8.05	7.09
pH	7.5	7.6	7.5	7.4	7.6	7.2
pH (Fld)		7.25	6.81		6.85	6.86
SC (umhos/cm at 25 C) (Fld)		238	228		226	213
SC (umhos/cm at 25 C)	284	257	289	290	291	293
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	184	179	169	165	183	177
Water Temperature (C) (Fld)		10.7	10.5		11	11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	203Gail	203Gail	203Gail	203Gail	203Gail	203Gail
Water	SAMPLE DATE	3/11/2008	4/10/2008	5/13/2008	6/11/2008	6/11/2008	7/8/2008
	SAMPLE TIME	07:55	09:00	08:15	08:45	09:00	14:40
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08030167-002	H08040188-002	H08050220-004	H08060234-002	H08060234-003	H08070151-004
	SAMPLE NUMBER	EHR-0308-301	EHR-0408-301	EHR-0508-303	EHR-0608-301	EHR-0608-302	EHR-0708-303
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS	Field Duplicate				Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	94	88	93	96	96	96
Calcium (Ca) (DIS)	33	29	31	29	29	30
Chloride (Cl)	5	5	5	5	5	5
Magnesium (Mg) (DIS)	7	6	7	6	6	6
Potassium (K) (DIS)	3	3	2	2	2	3
Sodium (Na) (DIS)	13	13	13	13	13	13
Sulfate (SO4)	51	52	52	55	56	55
Total Alkalinity As CaCO3	77	72	76	78	78	78

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.1			
Antimony (Sb) (DIS)			<0.005			
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Barium (Ba) (DIS)			<0.1			
Beryllium (Be) (DIS)			<0.001			
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)			<0.001			
Cobalt (Co) (DIS)			<0.01			
Copper (Cu) (DIS)	0.017	0.019	0.017	0.016	0.016	0.012
Iron (Fe) (DIS)	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)			<0.006			
Nickel (Ni) (DIS)			<0.01			
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Silver (Ag) (DIS)			<0.005			
Thallium (Tl) (DIS)			<0.002			
Tin (Sn) (DIS)			<0.1			
Vanadium (V) (DIS)			<0.01			
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		6.18	6.52	6.61		9.33
pH	7.2	7.6	7.3	7.4	7.4	7.2
pH (Fld)		6.98	7.01	6.77		6.66
SC (umhos/cm at 25 C) (Fld)		219	223	230		236
SC (umhos/cm at 25 C)	295	295	284	285	286	286
Total Suspended Solids	<10	<10	<10	<10	<10	<10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	203Gail	203Gail	203Gail	203Gail	203Gail	203Gail
Water	SAMPLE DATE	3/11/2008	4/10/2008	5/13/2008	6/11/2008	6/11/2008	7/8/2008
	SAMPLE TIME	07:55	09:00	08:15	08:45	09:00	14:40
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08030167-002	H08040188-002	H08050220-004	H08060234-002	H08060234-003	H08070151-004
	SAMPLE NUMBER	EHR-0308-301	EHR-0408-301	EHR-0508-303	EHR-0608-301	EHR-0608-302	EHR-0708-303
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS	Field Duplicate				Field Duplicate	
<b>Physical/Fld-Lab: ppm unless noted</b>							
	TDS (Measured at 180 C)	176	196	180	188	190	188
	Water Temperature (C) (Fld)		10.8	10.3	10.7		11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	203Gail	203Gail	203Gail	203Gail	203Gail	203Gail
Water	SAMPLE DATE	8/6/2008	8/6/2008	9/28/2008	10/13/2008	10/13/2008	11/11/2008
	SAMPLE TIME	12:30	12:45	09:10	11:20	11:40	11:45
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08080096-002	H08080096-003	H08090485-003	H08100167-004	H08100167-005	H08110125-003
	SAMPLE NUMBER	EHR-0808-301	EHR-0808-302	EHR-0908-302	EHR-1008-303	EHR-1008-304	EHR-1108-302
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	91	100	95	95	93	97	
Calcium (Ca) (DIS)	36	36	32	30	29	31	
Chloride (Cl)	6	6	5	5	5	5	
Magnesium (Mg) (DIS)	8	8	6	6	6	6	
Potassium (K) (DIS)	3	3	3	2	3	2	
Sodium (Na) (DIS)	13	13	14	13	13	13	
Sulfate (SO4)	59	59	53	55	57	55	
Total Alkalinity As CaCO3	74	83	78	78	77	80	
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper (Cu) (DIS)	0.01	0.01	0.015	0.0163	0.0162	0.02	
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	8.89		10.07	6.32		11.43	
pH	7.3	7.6	7.4	7.5	7.4	7.3	
pH (Fld)	7.1		7.27	7.31		6.46	
SC (umhos/cm at 25 C) (Fld)	234		220	212		223	
SC (umhos/cm at 25 C)	292	292	301	287	288	295	
Total Suspended Solids	<10	<10	<10	<10	<10	<10	
TDS (Measured at 180 C)	186	182	191	182	185	183	
Water Temperature (C) (Fld)	11.2		10.6	11.8		10.8	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	203Gail	203Gail	203Gail	203Gail	203Gail	203Gail
Water	SAMPLE DATE	12/9/2008	12/9/2008	1/19/2009	2/11/2009	2/11/2009	3/21/2009
	SAMPLE TIME	16:30	16:45	11:00	08:30	09:00	14:00
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08120092-001	H08120092-002	H09010129-001	H09020112-002	H09020112-003	H09030172-003
	SAMPLE NUMBER	EHR-1208-300	EHR-1208-301	EHR-0109-300	EHR-0209-301	EHR-0209-302	EHR-0309-302
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	95	95	95	94	97	97
Calcium (Ca) (DIS)	29	30	30	31	31	32
Chloride (Cl)	5	5	5	5	5	5
Magnesium (Mg) (DIS)	6	7	6	6	6	7
Potassium (K) (DIS)	3	3	3	3	3	3
Sodium (Na) (DIS)	12	12	13	13	13	14
Sulfate (SO4)	55	55	52	53	53	53
Total Alkalinity As CaCO3	78	78	78	77	79	80

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.016	0.015	0.018	0.023	0.022	0.017
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	10.25		19.37			
pH	7	7.3	7.1	7.3	7.3	7.3
pH (Fld)	6.44		6.43	7.26		6.55
SC (umhos/cm at 25 C) (Fld)	208		205	198		201
SC (umhos/cm at 25 C)	268	266	300	264	262	290
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	180	180	199	191	190	174
Water Temperature (C) (Fld)	10.6		11.7	10.6		9.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	203Gail	203Gail	203Gail	203Gail	203Gail	203Gail
Water	SAMPLE DATE	3/21/2009	4/14/2009	5/13/2009	6/5/2009	7/3/2009	8/7/2009
	SAMPLE TIME	14:15	09:30	08:00	09:00	08:40	08:40
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H09030172-004	H09040136-002	H09050213-003	H09060109-003	H09070071-002	H09080098-002
	SAMPLE NUMBER	EHR-0309-303	EHR-0409-301	EHR-0509-302	EHR-0609-302	EHR-0709-301	EHR-0809-301
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION			to Fld pH-Instr. Err			
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	97	97	95	95	97	97
Calcium (Ca) (DIS)	32	32	30	33	29	31
Chloride (Cl)	5	5	4	4	4	4
Magnesium (Mg) (DIS)	7	7	7	8	7	7
Potassium (K) (DIS)	3	3	3	3	3	3
Sodium (Na) (DIS)	14	14	12	13	12	14
Sulfate (SO4)	54	54	52	58	55	56
Total Alkalinity As CaCO3	80	80	78	78	80	80

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.1	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)			<0.003	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Barium (Ba) (DIS)			<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)			<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)			<0.001	<0.001	<0.001	<0.001
Cobalt (Co) (DIS)			<0.01	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	0.017	0.018	0.016	0.01	0.013	0.011
Gold (Au) (DIS)			<0.01	<0.01 UJ	<0.01 UJ	<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)			<0.001	<0.001	<0.001	<0.001
Nickel (Ni) (DIS)			<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	<0.001	<0.001	<0.001	0.001	0.001 J	<0.001
Silver (Ag) (DIS)			<0.005	<0.005 UJ	<0.005	<0.005
Tellurium (Te) (DIS)			<0.1	<0.1 UJ	<0.1	<0.1
Thallium (Tl) (DIS)			<0.001	<0.001	<0.001	<0.001
Vanadium (V) (DIS)			<0.01	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		7.48	7.17	6.55	5.84	6.52
pH	7.2	7.2	7.5	7.8	7.3	7.3
pH (Fld)		6.75		6.82	7.14	7.14
SC (umhos/cm at 25 C) (Fld)		288	195	195	192	184
SC (umhos/cm at 25 C)	288	292	292	295	291	292

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	203Gail	203Gail	203Gail	203Gail	203Gail	203Gail
Water	SAMPLE DATE	3/21/2009	4/14/2009	5/13/2009	6/5/2009	7/3/2009	8/7/2009
	SAMPLE TIME	14:15	09:30	08:00	09:00	08:40	08:40
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H09030172-004	H09040136-002	H09050213-003	H09060109-003	H09070071-002	H09080098-002
	SAMPLE NUMBER	EHR-0309-303	EHR-0409-301	EHR-0509-302	EHR-0609-302	EHR-0709-301	EHR-0809-301
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION			to Fld pH-Instr. Err			
	REMARKS	Field Duplicate					

**Physical/Fld-Lab: ppm unless noted**

Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	170	194	175	200	185	190
Water Temperature (C) (Fld)		10.4	10.2	11.6	10.8	11.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	210Gros	210Gros	210Gros	210Gros	210Gros	210Gros
Water	SAMPLE DATE	7/13/2001	6/24/2002	8/13/2002	7/23/2003	5/5/2004	5/4/2005
	SAMPLE TIME	12:15	15:30	17:30	12:00	14:00	14:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI-Casper
	LAB NUMBER	L011005020	L020496010	L020658016	L030359003	H04050036-012	C05050186-015
	SAMPLE NUMBER	EHC-0106-146	EHC-0205-250	EHR-0208-115	EHR-0307-203	EHR-0504-311	EHR-0505-314
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	144			121	130	119
Calcium (Ca) (DIS)	69			59	72	67
Carbonate As CO3	<1			<2		
Chloride (Cl)	16			18	15	16
Magnesium (Mg) (DIS)	16			14	16	15
Potassium (K) (DIS)	<5			<5	5 UJ	<5
Sodium (Na) (DIS)	30			28	32 UJ	28
Sulfate (SO4)	169	163	188	147 J	180	183
Total Alkalinity As CaCO3	118			99	110	98

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05					
Arsenic (As) (DIS)	<0.005	<0.002	<0.005	<0.002	<0.002	<0.002
Arsenic III (dis)	<0.005			<0.002		<0.005
Arsenic V (dis)	<0.005			<0.002		<0.005
Cadmium (Cd) (DIS)	<0.001			<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004			<0.004 UJ	<0.004	<0.004
Iron (Fe) (DIS)	0.09			0.1 J	0.1 UJ	0.09 J
Lead (Pb) (DIS)	<0.005			<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02			<0.02	<0.01	<0.02
Zinc (Zn) (DIS)	<0.02			<0.02	<0.01	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	165.7					
Oxygen (O) (DIS) (Fld)		4.3		2.8	4.6	4.49
pH	8.3			7.8	7	7.09
Silicon+Silica (Si+SiO2)	23					
Depth To Water Level (ft)	14.9					
Eh (millivolts)	0.0					
pH (Fld)	6.6	6.9	7.4	6.6	6.4	6.79
SC (umhos/cm at 25 C) (Fld)	575	523	413	450	794	589
SC (umhos/cm at 25 C)	590			568	518	620
Total Suspended Solids	6.5			<1	<10	<10
TDS (Measured at 180 C)	389	397 J	457	386	416	412
Salinity (G/KG) (Fld)					0.3	
Water Temperature (C) (Fld)	12.1	13.7		16.4	10.8	10.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	210Gros	210Gros	210Gros	210Gros	210Gros
Water	SAMPLE DATE	5/4/2006	5/22/2007	6/21/2007	5/13/2008	5/19/2009
	SAMPLE TIME	11:05	14:20	10:30	11:35	09:15
	LAB	ELI-Hel	ELI	ELI	ELI	ELI
	LAB NUMBER	C06050292-011	H07050263-011	H07060248-003	H08050220-010	H09050267-003
	SAMPLE NUMBER	EHR-0506-310	EHR-0507-323	EHR-0607-302	EHR-0508-309	EHR-0509-317
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	122	130	120	130	120
Calcium (Ca) (DIS)	68	60	60 UJ	59	41
Chloride (Cl)	13	12	17 UJ	11	7
Magnesium (Mg) (DIS)	16	13	13 UJ	13	9
Potassium (K) (DIS)	<5	4	4	4	4
Sodium (Na) (DIS)	33	34	33 UJ	33	27
Sulfate (SO4)	214	151	135 UJ	150	96
Total Alkalinity As CaCO3	100	100	95 UJ	100	99

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005			
Selenium-VI (DIS)		0.01			
Aluminum (Al) (DIS)		<0.1		<0.1	<0.1
Antimony (Sb) (DIS)		<0.005		<0.005	<0.003
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002
Arsenic III (dis)	<0.005	<0.005			
Arsenic V (dis)	<0.005	<0.005			
Barium (Ba) (DIS)		<0.1		<0.1	<0.1
Beryllium (Be) (DIS)		<0.001		<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	0.001
Chromium (Cr) (DIS)		<0.001		<0.001	<0.001
Cobalt (Co) (DIS)		<0.01		<0.01	<0.01
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	0.002
Gold (Au) (DIS)					<0.01
Iron (Fe) (DIS)	0.11	0.05	0.05	0.04	0.04
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)		<0.006		<0.006	<0.001
Nickel (Ni) (DIS)		<0.01		<0.01	<0.01
Selenium (Se) (DIS)		0.013	0.012	0.011	0.006
Silver (Ag) (DIS)		<0.005		<0.005	<0.005
Tellurium (Te) (DIS)					<0.1
Thallium (Tl) (DIS)		<0.002		<0.002	<0.001
Tin (Sn) (DIS)		<0.1		<0.1	
Vanadium (V) (DIS)		<0.01		<0.01	<0.01
Zinc (Zn) (DIS)	<0.02	<0.01	<0.02	<0.01	0.01

**Nutrients: ppm unless noted**

Total Organic Carbon		<0.5			
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	5.15	6.47	6.64	4.09	6.18
pH	7.39	7.8	7.2	7.1	7.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	210Gros	210Gros	210Gros	210Gros	210Gros
Water	SAMPLE DATE	5/4/2006	5/22/2007	6/21/2007	5/13/2008	5/19/2009
	SAMPLE TIME	11:05	14:20	10:30	11:35	09:15
	LAB	ASARCO	Asarco	ASARCO	Hydrometrics	Hydrometrics
	LAB NUMBER	C06050292-011	H07050263-011	H07060248-003	H08050220-010	H09050267-003
	SAMPLE NUMBER	EHR-0506-310	EHR-0507-323	EHR-0607-302	EHR-0508-309	EHR-0509-317
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS					

**Physical/Fld-Lab: ppm unless noted**

pH (Fld)	7.18	7.11	7.14	7.19	6.82
SC (umhos/cm at 25 C) (Fld)	508	430	404	402	269
SC (umhos/cm at 25 C)	579	537	542 UJ	535	471
Total Suspended Solids	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	382		414 UJ	363	267
TDS - Calculated	430				
Water Temperature (C) (Fld)	10.5	10.3	11.8	10.9	10.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	212EPac	2489Wylie	2489Wylie	2489Wylie
Water	SAMPLE DATE	5/24/2007	4/10/2008	4/10/2008	6/5/2009
	SAMPLE TIME	00:00	11:10	11:20	09:30
	LAB	Asarco	ELI	ELI	ELI
	LAB NUMBER	z	H08040188-004	H08040188-005	H09060109-004
	SAMPLE NUMBER	3HR-0507-Pac212E	EHR-0408-303	EHR-0408-304	EHR-0609-303
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	No Samp-Not Used	New Site		
	REMARKS	No Sample		Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	100	100	99
Calcium (Ca) (DIS)	32	33	33
Chloride (Cl)	6	5	4
Magnesium (Mg) (DIS)	7	7	8
Potassium (K) (DIS)	3	3	3
Sodium (Na) (DIS)	14	14	13
Sulfate (SO4)	55	55	55
Total Alkalinity As CaCO3	82	83	81

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.1
Antimony (Sb) (DIS)			<0.003
Arsenic (As) (DIS)	<0.002	<0.002	<0.002
Barium (Ba) (DIS)			<0.1
Beryllium (Be) (DIS)			<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)			<0.001
Cobalt (Co) (DIS)			<0.01
Copper (Cu) (DIS)	<0.004	<0.004	0.004
Gold (Au) (DIS)			<0.01 UJ
Iron (Fe) (DIS)	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)			<0.001
Nickel (Ni) (DIS)			<0.01
Selenium (Se) (DIS)	<0.005	<0.005	<0.001
Silver (Ag) (DIS)			<0.005 UJ
Tellurium (Te) (DIS)			<0.1 UJ
Thallium (Tl) (DIS)			<0.001
Vanadium (V) (DIS)			<0.01
Zinc (Zn) (DIS)	0.01	0.02	0.01

**Other: ppm unless noted**

No Analysis	0.0		
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**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.49		4.2
pH	7.7	7.6	7.6
pH (Fld)	7.23		6.91
SC (umhos/cm at 25 C) (Fld)	238		196
SC (umhos/cm at 25 C)	317	312	295

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2489Wylie	2489Wylie	2489Wylie
Water	SAMPLE DATE	4/10/2008	4/10/2008	6/5/2009
	SAMPLE TIME	11:10	11:20	09:30
	LAB	ELI	ELI	ELI
	LAB NUMBER	H08040188-004	H08040188-005	H09060109-004
	SAMPLE NUMBER	EHR-0408-303	EHR-0408-304	EHR-0609-303
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site		
	REMARKS		Field Duplicate	

**Physical/Fld-Lab: ppm unless noted**

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Total Suspended Solids	<10	<10	<10
TDS (Measured at 180 C)	209	209	192
Water Temperature (C) (Fld)	9.3		9.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2540 Wylie	2540 Wylie	2540 Wylie	2540 Wylie	2540 Wylie	2540 Wylie
Water	SAMPLE DATE	2/11/2009	3/21/2009	4/14/2009	4/14/2009	5/13/2009	5/27/2009
	SAMPLE TIME	11:00	13:30	09:50	10:20	11:00	10:00
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H09020112-004	H09030172-002	H09040136-003	H09040136-004	H09050213-010	H09050340-001
	SAMPLE NUMBER	EHR-0209-303	EHR-0309-301	EHR-0409-302	EHR-0409-303	EHR-0509-309	EHR-0509-322
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	Special Sample				to Fld pH-Instr. Err	
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	150	150	140	140	140	120
Calcium (Ca) (DIS)	57	59	59	60	57	60
Chloride (Cl)	7	7	7	7	6	13
Magnesium (Mg) (DIS)	12	12	13	13	12	14
Potassium (K) (DIS)	5	5	5	5	5	3
Sodium (Na) (DIS)	17	19	19	19	17	23
Sulfate (SO4)	110	110	110	110	110	160
Total Alkalinity As CaCO3	120	120	120	120	120	97

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)					<0.1	<0.1
Antimony (Sb) (DIS)					<0.003	<0.003
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Barium (Ba) (DIS)					<0.1	<0.1
Beryllium (Be) (DIS)					<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Chromium (Cr) (DIS)					<0.001	<0.001
Cobalt (Co) (DIS)					<0.01	<0.01
Copper (Cu) (DIS)	<0.004	0.001	0.002	0.002	0.002	<0.001
Gold (Au) (DIS)					<0.01	<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)					<0.001	<0.001
Nickel (Ni) (DIS)					<0.01	<0.01
Selenium (Se) (DIS)	<0.005	0.004	0.003	0.004	0.005	0.037
Silver (Ag) (DIS)					<0.005	<0.005
Tellurium (Te) (DIS)					<0.1	<0.1
Thallium (Tl) (DIS)					<0.001	<0.001
Vanadium (V) (DIS)					<0.01	<0.01
Zinc (Zn) (DIS)	0.02	0.02	0.02	0.02	0.02	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)			7.37		7.67	4.67
pH	7.2	7.2	7.2	7.2	7.6	7.1
pH (Fld)	6.61	6.72	6.8			6.58
SC (umhos/cm at 25 C) (Fld)	331	333	482		326	395
SC (umhos/cm at 25 C)	435	482	484	483	479	563

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2540 Wylie	2540 Wylie	2540 Wylie	2540 Wylie	2540 Wylie	2540 Wylie
Water	SAMPLE DATE	2/11/2009	3/21/2009	4/14/2009	4/14/2009	5/13/2009	5/27/2009
	SAMPLE TIME	11:00	13:30	09:50	10:20	11:00	10:00
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H09020112-004	H09030172-002	H09040136-003	H09040136-004	H09050213-010	H09050340-001
	SAMPLE NUMBER	EHR-0209-303	EHR-0309-301	EHR-0409-302	EHR-0409-303	EHR-0509-309	EHR-0509-322
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	Special Sample				to Fld pH-Instr. Err	
	REMARKS				Field Duplicate		
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Total Suspended Solids	<10	<10	<10	<10	<10	<10
	TDS (Measured at 180 C)	340	322	343	337	325	382
	Water Temperature (C) (Fld)	8.3	9	9.3		9	11.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2540 Wylie	2540 Wylie	2540 Wylie	2540 Wylie	2540Wyllr
Water	SAMPLE DATE	5/27/2009	6/5/2009	7/3/2009	8/7/2009	6/5/2009
	SAMPLE TIME	10:20	11:00	10:10	09:10	11:30
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H09050340-002	H09060109-005	H09070071-004	H09080098-003	H09060109-006
	SAMPLE NUMBER	EHR-0509-323	EHR-0609-304	EHR-0709-303	EHR-0809-302	EHR-0609-305
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS	Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	120	140	140	140	120
Calcium (Ca) (DIS)	56	58	52	57	62
Chloride (Cl)	13	7	6	6	14
Magnesium (Mg) (DIS)	14	13	12	12	15
Potassium (K) (DIS)	3	5	5	5	4
Sodium (Na) (DIS)	23	17	16	18	26
Sulfate (SO4)	160	120	110	110	170
Total Alkalinity As CaCO3	98	120	120	120	97

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.003	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	0.002	<0.001	<0.001	<0.001	0.002
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001	0.001	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	<0.001	0.001	<0.001	0.001	0.004
Gold (Au) (DIS)	<0.01	<0.01 UJ	<0.01 UJ	<0.01	<0.01 UJ
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.039	0.003	0.004 J	0.003	0.04
Silver (Ag) (DIS)	<0.005	<0.005 UJ	<0.005	<0.005	<0.005 UJ
Tellurium (Te) (DIS)	<0.1	<0.1 UJ	<0.1	<0.1	<0.1 UJ
Thallium (Tl) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium (V) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	0.02	0.02	0.03	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		6.55	5.71	7.2	5.58
pH	7.1	7.8	7.3	7.2	7.6
pH (Fld)		6.8	7.2	7.1	6.81
SC (umhos/cm at 25 C) (Fld)		323	314	304	375
SC (umhos/cm at 25 C)	561	475	473	480	553

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2540 Wylie	2540 Wylie	2540 Wylie	2540 Wylie	2540Wyllr
Water	SAMPLE DATE	5/27/2009	6/5/2009	7/3/2009	8/7/2009	6/5/2009
	SAMPLE TIME	10:20	11:00	10:10	09:10	11:30
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H09050340-002	H09060109-005	H09070071-004	H09080098-003	H09060109-006
	SAMPLE NUMBER	EHR-0509-323	EHR-0609-304	EHR-0709-303	EHR-0809-302	EHR-0609-305
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS	Field Duplicate				

**Physical/Fld-Lab: ppm unless noted**

Total Suspended Solids	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	386	344	335	336	384
Water Temperature (C) (Fld)		10	10.3	10.2	10.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2540Wylr	2540Wylr	2540Wylr	2540Wylr	2700 Winsl
Water	SAMPLE DATE	6/5/2009	7/3/2009	7/3/2009	8/7/2009	8/12/2009
	SAMPLE TIME	11:45	10:40	11:00	09:40	11:30
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H09060109-007	H09070071-005	H09070071-006	H09080098-004	H09080156-001
	SAMPLE NUMBER	EHR-0609-306	EHR-0709-304	EHR-0709-305	EHR-0809-303	EHR-0809-310
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					New Site
	REMARKS	Field Duplicate		Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	120	110	110	100	290
Calcium (Ca) (DIS)	62	41	42	35	68
Chloride (Cl)	14	7	7	6	39
Magnesium (Mg) (DIS)	15	10	10	8	46
Potassium (K) (DIS)	4	3	3	3	15
Sodium (Na) (DIS)	27	23	23	20	62
Sulfate (SO4)	170	90	89	76	210
Total Alkalinity As CaCO3	97	88	88	84	240

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.003	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	0.003	<0.002	<0.002	<0.002	0.009
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001	<0.001	0.002 UJ
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	0.004	0.002	0.002	<0.001	0.001 UJ
Gold (Au) (DIS)	<0.01 UJ	<0.01	<0.01	<0.01	<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.039	0.013 J	0.016 J	0.007	0.003
Silver (Ag) (DIS)	<0.005 UJ	<0.005	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)	<0.1 UJ	<0.1	<0.1	<0.1	<0.1
Thallium (Tl) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium (V) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.02	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		5.15		6.16	10.81
pH	7.7	7.3	7.2	7.2	7.9
pH (Fld)		7.19		7.07	7.65
SC (umhos/cm at 25 C) (Fld)		258		223	616
SC (umhos/cm at 25 C)	557	388	388	352	924

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2540Wylr	2540Wylr	2540Wylr	2540Wylr	2700 Winsl
Water	SAMPLE DATE	6/5/2009	7/3/2009	7/3/2009	8/7/2009	8/12/2009
	SAMPLE TIME	11:45	10:40	11:00	09:40	11:30
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H09060109-007	H09070071-005	H09070071-006	H09080098-004	H09080156-001
	SAMPLE NUMBER	EHR-0609-306	EHR-0709-304	EHR-0709-305	EHR-0809-303	EHR-0809-310
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					New Site
	REMARKS	Field Duplicate		Field Duplicate		
<b>Physical/Fld-Lab: ppm unless noted</b>						
	Total Suspended Solids	<10	<10	<10	<10	<10
	TDS (Measured at 180 C)	374	252	251	227	659
	Water Temperature (C) (Fld)		10.6		10.6	11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2705 Winsl	2715Winslo	2720 Winsl
Water	SAMPLE DATE	8/12/2009	8/12/2009	8/12/2009
	SAMPLE TIME	13:20	17:40	12:00
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09080156-006	H09080156-014	H09080156-002
	SAMPLE NUMBER	EHR-0809-315	EHR-0809-323	EHR-0809-311
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site
	REMARKS			

**Common Ions (mg/L): ppm unless noted**

Parameter	2705 Winsl	2715Winslo	2720 Winsl
Bicarbonate (HCO3)	290	280	350
Calcium (Ca) (DIS)	47	67	94
Chloride (Cl)	24	53	120
Magnesium (Mg) (DIS)	39	49	64
Potassium (K) (DIS)	8	12	14
Sodium (Na) (DIS)	35	50	62
Sulfate (SO4)	94	170	160
Total Alkalinity As CaCO3	240	230	280

**Metals (mg/L): ppm unless noted**

Parameter	2705 Winsl	2715Winslo	2720 Winsl
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	0.01	0.008	0.007
Barium (Ba) (DIS)	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	0.003 UJ	0.003 UJ	0.003 UJ
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	0.001 UJ	0.002 UJ	0.004 UJ
Gold (Au) (DIS)	<0.01	<0.01	<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001	<0.001	<0.001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.004	0.003	0.004
Silver (Ag) (DIS)	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)	<0.1	<0.1	<0.1
Thallium (Tl) (DIS)	<0.001	<0.001	<0.001
Vanadium (V) (DIS)	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	0.02 UJ	<0.01	0.02 UJ

**Physical/Fid-Lab: ppm unless noted**

Parameter	2705 Winsl	2715Winslo	2720 Winsl
Oxygen (O) (DIS) (Fld)	9.84	10.49	11.09
pH	7.8	7.9	7.9
pH (Fld)	7.68	7.71	7.7
SC (umhos/cm at 25 C) (Fld)	436	577	804
SC (umhos/cm at 25 C)	673	880	1200

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2705 Winsl	2715Winslo	2720 Winsl
Water	SAMPLE DATE	8/12/2009	8/12/2009	8/12/2009
	SAMPLE TIME	13:20	17:40	12:00
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09080156-006	H09080156-014	H09080156-002
	SAMPLE NUMBER	EHR-0809-315	EHR-0809-323	EHR-0809-311
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site
	REMARKS			

**Physical/Fid-Lab: ppm unless noted**

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Total Suspended Solids	<10	<10	<10
TDS (Measured at 180 C)	447 UJ	601	822
Water Temperature (C) (Fld)	12.2	10.9	11.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2725 Winslo	2730 Winsl	2735 Winsl
Water	SAMPLE DATE	8/12/2009	8/12/2009	8/12/2009
	SAMPLE TIME	18:00	12:20	12:55
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09080156-015	H09080156-003	H09080156-005
	SAMPLE NUMBER	EHR-0809-324	EHR-0809-312	EHR-0809-314
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site
	REMARKS			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	270	280	270
Calcium (Ca) (DIS)	53	64	53
Chloride (Cl)	27	50	25
Magnesium (Mg) (DIS)	38	44	36
Potassium (K) (DIS)	11	12	9
Sodium (Na) (DIS)	37	44	35
Sulfate (SO4)	110	140	110
Total Alkalinity As CaCO3	220	230	220

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	0.005	0.007	0.009
Barium (Ba) (DIS)	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	0.001	<0.001	<0.001
Chromium (Cr) (DIS)	0.003 UJ	0.003 UJ	0.003 UJ
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	0.001 UJ	<0.001	0.001 UJ
Gold (Au) (DIS)	<0.01	<0.01	<0.01
Iron (Fe) (DIS)	0.06	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001	<0.001	<0.001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.004	0.003	0.002
Silver (Ag) (DIS)	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)	<0.1	<0.1	<0.1
Thallium (Tl) (DIS)	<0.001	<0.001	<0.001
Vanadium (V) (DIS)	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	0.02 UJ	<0.01	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	8.12	10.75	10.35
pH	7.9	7.8	7.9
pH (Fld)	7.52	7.75	7.68
SC (umhos/cm at 25 C) (Fld)	440	563	400
SC (umhos/cm at 25 C)	692	839	669

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2725 Winslo	2730 Winsl	2735 Winsl
Water	SAMPLE DATE	8/12/2009	8/12/2009	8/12/2009
	SAMPLE TIME	18:00	12:20	12:55
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09080156-015	H09080156-003	H09080156-005
	SAMPLE NUMBER	EHR-0809-324	EHR-0809-312	EHR-0809-314
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site
	REMARKS			

**Physical/Fid-Lab: ppm unless noted**

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Total Suspended Solids	<10	<10	<10
TDS (Measured at 180 C)	462 UJ	575	464 UJ
Water Temperature (C) (Fld)	11.6	11.5	12.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2740 Winslo	2743 Winslo	2746 Winslo
Water	SAMPLE DATE	8/12/2009	8/12/2009	8/12/2009
	SAMPLE TIME	18:35	18:15	12:40
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09080156-017	H09080156-016	H09080156-004
	SAMPLE NUMBER	EHR-0809-326	EHR-0809-325	EHR-0809-313
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site
	REMARKS			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	250	230	200
Calcium (Ca) (DIS)	63	62	46
Chloride (Cl)	45	36	26
Magnesium (Mg) (DIS)	40	39	22
Potassium (K) (DIS)	13	12	11
Sodium (Na) (DIS)	49	47	35
Sulfate (SO4)	170	190	90
Total Alkalinity As CaCO3	200	190	170

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	0.008	0.008	0.013
Barium (Ba) (DIS)	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	0.001	<0.001	<0.001
Chromium (Cr) (DIS)	0.003 UJ	0.003 UJ	0.002 UJ
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	0.002 UJ	0.001 UJ	<0.001
Gold (Au) (DIS)	<0.01	<0.01	<0.01
Iron (Fe) (DIS)	0.03	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001	<0.001	<0.001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.004	0.003	0.002
Silver (Ag) (DIS)	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)	<0.1	<0.1	<0.1
Thallium (Tl) (DIS)	<0.001	<0.001	<0.001
Vanadium (V) (DIS)	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	0.03 UJ	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.27	9.5	10.59
pH	7.8	7.8	7.9
pH (Fld)	7.74	7.67	7.76
SC (umhos/cm at 25 C) (Fld)	548	537	340
SC (umhos/cm at 25 C)	810	794	567

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2740 Winslo	2743 Winslo	2746 Winsl
Water	SAMPLE DATE	8/12/2009	8/12/2009	8/12/2009
	SAMPLE TIME	18:35	18:15	12:40
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09080156-017	H09080156-016	H09080156-004
	SAMPLE NUMBER	EHR-0809-326	EHR-0809-325	EHR-0809-313
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site
	REMARKS			

**Physical/Fid-Lab: ppm unless noted**

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Total Suspended Solids	<10	<10	<10
TDS (Measured at 180 C)	538 UJ	558	402 UJ
Water Temperature (C) (Fld)	13.8	11.9	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2765 1/2Wi	2765Winslo	2765Winslo	2770WinsII
Water	SAMPLE DATE	8/12/2009	8/12/2009	8/12/2009	7/17/2009
	SAMPLE TIME	18:55	19:15	19:30	11:00
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H09080156-018	H09080156-019	H09080156-020	H09070211-008
	SAMPLE NUMBER	EHR-0809-327	EHR-0809-328	EHR-0809-329	EHR-0709-317
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site		New Site
	REMARKS			Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	210	190	190	220
Calcium (Ca) (DIS)	57	60	59	77
Chloride (Cl)	35	38	37	55
Magnesium (Mg) (DIS)	35	35	34	44
Potassium (K) (DIS)	13	13	12	14
Sodium (Na) (DIS)	42	44	44	57
Sulfate (SO4)	190	190	190	270
Total Alkalinity As CaCO3	170	160	160	180

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	0.01	0.013	0.012	0.011
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	0.003 UJ	0.002 UJ	0.003 UJ	0.002
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	0.005 UJ	0.001 UJ	0.001 UJ	<0.001
Gold (Au) (DIS)	<0.01	<0.01	<0.01	<0.01
Iron (Fe) (DIS)	0.06	<0.02	<0.02	0.03
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001	<0.001	<0.001	<0.001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.004	0.004	0.004	0.003
Silver (Ag) (DIS)	<0.005	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)	<0.1	<0.1	<0.1	<0.1
Thallium (Tl) (DIS)	<0.001	<0.001	<0.001	<0.001
Vanadium (V) (DIS)	<0.01	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	0.01 UJ	0.01 UJ	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.88	8.75		10.19
pH	7.9	7.8	7.9	7.8
pH (Fld)	7.69	7.7		7.59
SC (umhos/cm at 25 C) (Fld)	485	543		685
SC (umhos/cm at 25 C)	754	765	760	1010

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2765 1/2Wi	2765Winslo	2765Winslo	2770WinsII
Water	SAMPLE DATE	8/12/2009	8/12/2009	8/12/2009	7/17/2009
	SAMPLE TIME	18:55	19:15	19:30	11:00
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H09080156-018	H09080156-019	H09080156-020	H09070211-008
	SAMPLE NUMBER	EHR-0809-327	EHR-0809-328	EHR-0809-329	EHR-0709-317
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site		New Site
	REMARKS			Field Duplicate	

**Physical/Fid-Lab: ppm unless noted**

Total Suspended Solids	<10	<10	<10	12
TDS (Measured at 180 C)	543	554	543	733
Water Temperature (C) (Fld)	11.8	12.5		11.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2770WinsII	2770WinsII	2775Winslo	2779Winslo
Water	SAMPLE DATE	7/17/2009	8/19/2009	8/12/2009	8/12/2009
	SAMPLE TIME	11:10	10:45	17:20	17:00
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H09070211-009	H09080233-001	H09080156-013	H09080156-012
	SAMPLE NUMBER	EHR-0709-318	EHR-0809-331	EHR-0809-322	EHR-0809-321
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION		New Site	New Site	New Site
	REMARKS	Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	230	210	220	230
Calcium (Ca) (DIS)	77	58	85	82
Chloride (Cl)	55	32	60	55
Magnesium (Mg) (DIS)	44	31	54	53
Potassium (K) (DIS)	14	13	17	18
Sodium (Na) (DIS)	57	49	64	67
Sulfate (SO4)	270	170	300	300
Total Alkalinity As CaCO3	180	170	180	190

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	0.011	0.012	0.005	0.009
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	0.003 UJ	0.003 UJ
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	0.001	<0.001	0.002 UJ	0.001 UJ
Gold (Au) (DIS)	<0.01	<0.01	<0.01	<0.01
Iron (Fe) (DIS)	0.03	<0.02	0.14	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	0.02	<0.01
Mercury (Hg) (DIS)	<0.001	<0.001	<0.001	<0.001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.003	0.002	0.005	0.006
Silver (Ag) (DIS)	<0.005	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)	<0.1	<0.1	<0.1	<0.1
Thallium (Tl) (DIS)	<0.001	<0.001	<0.001	<0.001
Vanadium (V) (DIS)	<0.01	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	0.02 UJ	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		9.03	8.79	9.83
pH	7.9	7.8	7.7	7.9
pH (Fld)		7.58	7.45	7.59
SC (umhos/cm at 25 C) (Fld)		477	696	696
SC (umhos/cm at 25 C)	1010	748	1050	1030

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2770WinsII	2770WinsII	2775Winslo	2779Winslo
Water	SAMPLE DATE	7/17/2009	8/19/2009	8/12/2009	8/12/2009
	SAMPLE TIME	11:10	10:45	17:20	17:00
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H09070211-009	H09080233-001	H09080156-013	H09080156-012
	SAMPLE NUMBER	EHR-0709-318	EHR-0809-331	EHR-0809-322	EHR-0809-321
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION		New Site	New Site	New Site
	REMARKS	Field Duplicate			

**Physical/Fld-Lab: ppm unless noted**

Total Suspended Solids	15	<10	<10	<10
TDS (Measured at 180 C)	736	528 UJ	786	769
Water Temperature (C) (Fld)		11.9	12.8	12.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2780WinsIH	2780WinsIK	2795Winslo
Water	SAMPLE DATE	8/19/2009	8/19/2009	8/19/2009
	SAMPLE TIME	11:10	11:25	13:45
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09080233-002	H09080233-003	H09080233-009
	SAMPLE NUMBER	EHR-0809-332	EHR-0809-333	EHR-0809-339
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site
	REMARKS			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	260	31	210
Calcium (Ca) (DIS)	97	<1	48
Chloride (Cl)	98	20	20
Magnesium (Mg) (DIS)	56	<1	29
Potassium (K) (DIS)	19	<1	13
Sodium (Na) (DIS)	101	18	42
Sulfate (SO4)	330	2	130
Total Alkalinity As CaCO3	210	26	180

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	0.01	<0.002	0.011
Barium (Ba) (DIS)	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	0.001
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	<0.001	<0.001	<0.001
Gold (Au) (DIS)	<0.01	<0.01	<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001	<0.001	<0.001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.005	<0.001	0.003
Silver (Ag) (DIS)	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)	<0.1	<0.1	<0.1
Thallium (Tl) (DIS)	<0.001	<0.001	<0.001
Vanadium (V) (DIS)	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	0.01 UJ	<0.01	0.01 UJ

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	10.46	6.5	9.91
pH	7.9	7.3	7.8
pH (Fld)	7.63	6.9	7.73
SC (umhos/cm at 25 C) (Fld)	819	90	412
SC (umhos/cm at 25 C)	1290	157	648

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2780WinsIH	2780WinsIK	2795Winslo
Water	SAMPLE DATE	8/19/2009	8/19/2009	8/19/2009
	SAMPLE TIME	11:10	11:25	13:45
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09080233-002	H09080233-003	H09080233-009
	SAMPLE NUMBER	EHR-0809-332	EHR-0809-333	EHR-0809-339
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site
	REMARKS			

**Physical/Fid-Lab: ppm unless noted**

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Total Suspended Solids	<10	<10	<10
TDS (Measured at 180 C)	907	103 UJ	457 UJ
Water Temperature (C) (Fld)	11.4	17.4	12

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2815Stev	2830Winslo	2830Winslo	2850Weston
Water	SAMPLE DATE	5/22/2007	7/17/2009	8/19/2009	8/19/2009
	SAMPLE TIME	12:20	10:40	13:20	14:45
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H07050263-008	H09070211-007	H09080233-008	H09080233-010
	SAMPLE NUMBER	EHR-0507-320	EHR-0709-316	EHR-0809-338	EHR-0809-340
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION		New Site	New Site	New Site
	REMARKS				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	120	170	170	240
Calcium (Ca) (DIS)	40	51	45	118
Chloride (Cl)	6	31	20	73
Magnesium (Mg) (DIS)	9	17	14	30
Potassium (K) (DIS)	3	12	12	14
Sodium (Na) (DIS)	14	36	37	64
Sulfate (SO4)	59	110	85	260
Total Alkalinity As CaCO3	95	140	140	200

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005			
Selenium-VI (DIS)	<0.005			
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.005	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	<0.002	0.017	0.019	0.008
Arsenic III (DIS)	<0.005			
Arsenic V (DIS)	<0.005			
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001	0.002
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	<0.004	<0.001	<0.001	0.001 UJ
Gold (Au) (DIS)		<0.01	<0.01	<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.006	<0.001	<0.001	<0.001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	<0.005	0.003	0.002	0.006
Silver (Ag) (DIS)	<0.005	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)		<0.1	<0.1	<0.1
Thallium (Tl) (DIS)	<0.002	<0.001	<0.001	<0.001
Tin (Sn) (DIS)	<0.1			
Vanadium (V) (DIS)	<0.01	0.01	0.01	<0.01
Zinc (Zn) (DIS)	0.01	<0.01	0.02 UJ	0.01 UJ

**Nutrients: ppm unless noted**

Total Organic Carbon	<0.5			
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.82	10.88	9.92	10.09
pH	8	7.9	7.7	7.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2815Stev	2830Winslo	2830Winslo	2850Weston
Water	SAMPLE DATE	5/22/2007	7/17/2009	8/19/2009	8/19/2009
	SAMPLE TIME	12:20	10:40	13:20	14:45
	LAB	Asarco	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H07050263-008	H09070211-007	H09080233-008	H09080233-010
	SAMPLE NUMBER	EHR-0507-320	EHR-0709-316	EHR-0809-338	EHR-0809-340
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION		New Site	New Site	New Site
	REMARKS				

**Physical/Fid-Lab: ppm unless noted**

pH (Fld)	7.29	7.7	7.76	7.35
SC (umhos/cm at 25 C) (Fld)	254	370	330	950
SC (umhos/cm at 25 C)	339	603	523	1080
Total Suspended Solids	<10	<10	<10	<10
TDS (Measured at 180 C)		428	369 UJ	772
Water Temperature (C) (Fld)	9.7	11.7	11.9	11.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2858Winslo	2880Winslo	301Gail	301Gail
Water	SAMPLE DATE	8/19/2009	7/17/2009	5/14/1985	10/14/1986
	SAMPLE TIME	15:10	10:10	00:00	00:00
	LAB	ELI	ELI	TSC-SLC	RMAL
	LAB NUMBER	H09080233-011	H09070211-006	85-3630	8610-113
	SAMPLE NUMBER	EHR-0809-341	EHR-0709-315	AEH-8505-460	AEH-8610-113
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site		
	REMARKS				Split
<b>Common Ions (mg/L): ppm unless noted</b>					
	Bicarbonate (HCO3)	180	300	189	137
	Calcium (Ca) (DIS)	45	160	165	154
	Carbonate As CO3				<5
	Chloride (Cl)	20	91	30	32
	Magnesium (Mg) (DIS)	12	38	37	34.3
	Potassium (K) (DIS)	13	16	7.2	6.5 M
	Sodium (Na) (DIS)	44	91	57	58
	Sulfate (SO4)	84	410	446	309 M
	Total Alkalinity As CaCO3	150	250	155	
<b>Metals (mg/L): ppm unless noted</b>					
	Aluminum (Al) (DIS)	<0.1	<0.1		
	Antimony (Sb) (DIS)	<0.003	<0.003		
	Arsenic (As) (DIS)	0.024	0.009	<0.004	<0.01 M
	Barium (Ba) (DIS)	<0.1	<0.1		
	Beryllium (Be) (DIS)	<0.001	<0.001		
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.005
	Chromium (Cr) (DIS)	<0.001	0.001		
	Cobalt (Co) (DIS)	<0.01	<0.01		
	Copper (Cu) (DIS)	<0.001	0.003	0.03	0.02
	Gold (Au) (DIS)	<0.01	<0.01		
	Iron (Fe) (DIS)	<0.02	0.03	0.05	0.1
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.05 M
	Manganese (Mn) (DIS)	<0.01	<0.01	0.005	0.007
	Mercury (Hg) (DIS)	<0.001	<0.001		
	Nickel (Ni) (DIS)	<0.01	<0.01		
	Selenium (Se) (DIS)	0.003	0.007		
	Silver (Ag) (DIS)	<0.005	<0.005		
	Tellurium (Te) (DIS)	<0.1	<0.1		
	Thallium (Tl) (DIS)	<0.001	<0.001		
	Vanadium (V) (DIS)	0.02	<0.01		
	Zinc (Zn) (DIS)	<0.01	<0.01	0.02	0.005
<b>Physical/Fid-Lab: ppm unless noted</b>					
	Oxygen (O) (DIS) (Fld)	10.18	8.66		
	pH	7.9	7.7	7.2	7.2
	pH (Fld)	7.72	7.37		
	SC (umhos/cm at 25 C) (Fld)	471	965	1202	
	SC (umhos/cm at 25 C)	542	1450	1319	1130

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2858Winslo	2880Winslo	301Gail	301Gail
Water	SAMPLE DATE	8/19/2009	7/17/2009	5/14/1985	10/14/1986
	SAMPLE TIME	15:10	10:10	00:00	00:00
	LAB	ELI	ELI	TSC-SLC	RMAL
	LAB NUMBER	H09080233-011	H09070211-006	85-3630	8610-113
	SAMPLE NUMBER	EHR-0809-341	EHR-0709-315	AEH-8505-460	AEH-8610-113
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site		
	REMARKS				Split

**Physical/Fld-Lab: ppm unless noted**

Total Suspended Solids	<10	<10		
TDS (Measured at 180 C)	378 UJ	1090	992	645 M
Water Temperature (C) (Fld)	11.5	11.4		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	301Gail	301Gail	301Gail	301Gail	301Gail	301Gail
Water	SAMPLE DATE	10/14/1986	4/28/1987	11/2/1987	4/6/1988	6/5/2001	6/24/2002
	SAMPLE TIME	00:00	00:00	00:00	00:00	15:45	11:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	86-6927	87-2850	87-10004	88-2624	L010825007	L020496003
	SAMPLE NUMBER	AEH-8610-113	AEH-8704-45	AEH-8710-59	AEH-8804-377	EHC-0106-128	EHC-0205-241
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	183	206	196	149 J	154	
Calcium (Ca) (DIS)				145	111	
Carbonate As CO3				<1 J	<1	
Chloride (Cl)				26	32	
Magnesium (Mg) (DIS)				31	24	
Potassium (K) (DIS)				7.1	6.1	
Sodium (Na) (DIS)				59.5	96	
Sulfate (SO4)	384	430	418	419	459	348
Total Alkalinity As CaCO3					126	

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)					<0.05	
Arsenic (As) (DIS)	<0.006	<0.006	<0.006	0.007 J	<0.005	<0.002
Arsenic III (dis)	<0.008	0.01 M	<0.008	<0.008	<0.005	
Arsenic V (dis)	<0.008	0.01	0.03 M	0.02	<0.005	
Cadmium (Cd) (DIS)	<0.001	0.001	<0.001	<0.001	<0.001	
Copper (Cu) (DIS)			0.02		0.05	
Iron (Fe +2) (TOT)	0.2	0.07	0.5	0.07		
Iron (Fe) (DIS)	0.1	0.08	0.3 M	0.07 J	<0.05	
Lead (Pb) (DIS)	<0.005	<0.005 M	<0.005 M	0.008 J	<0.005	
Manganese (Mn) (DIS)			0.02 M		<0.02	
Zinc (Zn) (DIS)	0.008	0.008 M	<0.008	0.01	<0.02	

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential					213	
Oxygen (O) (DIS) (Fld)	0.4	2	2.6	1.9	3.2	3.4
pH	7.2	7.6	7.9 M	7.07	7.8	
Silicon+Silica (Si+SiO2)					23	
Depth To Water Level (ft)			26.7	30.02		
pH (Fld)	6.7	6.8	6.6	6.4	7.1	6.7
SC (umhos/cm at 25 C) (Fld)	1086 M	1189	1144	1137	970	941
SC (umhos/cm at 25 C)	1130	1110	1190	1020	1128	
Total Suspended Solids					<1	
TDS (Measured at 180 C)	796	861	819	819 J	828	725
Water Temperature (C) (Fld)	13.5	13.8	12	13	13.1	15.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	301Gail	301Gail	301Gail	301Gail	301Gail	301Gail
Water	SAMPLE DATE	8/13/2002	7/23/2003	7/23/2003	9/10/2003	5/5/2004	7/22/2004
	SAMPLE TIME	10:00	10:00	10:15	14:50	10:00	09:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	L020658001	L030359001	L030359002	L030504004	H04050036-006	H04070156-001
	SAMPLE NUMBER	EHR-0208-100	EHR-0307-200	EHR-0307-201	EHR-0903-103	EHR-0504-305	EHR-0704-300
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS			Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		149	151		150	
Calcium (Ca) (DIS)		71	72		74	
Carbonate As CO3		<2	<2			
Chloride (Cl)		31	29		30	
Magnesium (Mg) (DIS)		16	16		15	
Potassium (K) (DIS)		5.2	5.6		7	
Sodium (Na) (DIS)		88	87		86	
Sulfate (SO4)	365	256 J	274 J	256	320	280
Total Alkalinity As CACO3		122	124		120	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.005	<0.002	<0.002	<0.002	0.022	0.002
Arsenic III (dis)		<0.002	<0.002			
Arsenic V (dis)		<0.002	<0.002			
Cadmium (Cd) (DIS)		<0.001	<0.001		<0.001	
Copper (Cu) (DIS)		0.05 J	0.04 J		0.057	
Iron (Fe) (DIS)		0.2 J	0.2 J		<0.02	
Lead (Pb) (DIS)		<0.005	<0.005		<0.005	
Manganese (Mn) (DIS)		<0.02	<0.02		<0.01	
Zinc (Zn) (DIS)		<0.02	<0.02		<0.01	

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		1.6		2.06	5.9	
pH		7.8	8		7.1	
pH (Fld)	6.2	6.6		6.2	6.4	6.31
SC (umhos/cm at 25 C) (Fld)	868	812		753	838	950
SC (umhos/cm at 25 C)		911	912		751	
Total Suspended Solids		<1	<1		<10	
TDS (Measured at 180 C)	753	625	642	572	614	612
Salinity (G/KG) (Fld)					0.3	
Water Temperature (C) (Fld)		14.6		12.6	12	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	301Gail	301Gail	301Gail	301Gail	301Gail	301Gail
Water	SAMPLE DATE	7/22/2004	9/9/2004	5/25/2005	7/20/2005	9/8/2005	5/4/2006
	SAMPLE TIME	09:30	12:00	11:50	11:30	10:00	12:15
	LAB	ELI	ELI	ELI-Casper	ELI-Hel	ELI-Hel	ELI-Hel
	LAB NUMBER	H04070156-002	H04090066-005	C05050997-007	H05070155-006	H05090071-003	C06050292-014
	SAMPLE NUMBER	EHR-0704-301	EHR-0904-304	EHR-0505-322	EHR-0705-305	EHR-0905-302	EHR-0506-313
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)				138			154
Calcium (Ca) (DIS)				110			140
Chloride (Cl)				43			43
Magnesium (Mg) (DIS)				23			31
Potassium (K) (DIS)				7			7
Sodium (Na) (DIS)				105			127
Sulfate (SO4)			274	417	464	511	534
Total Alkalinity As CaCO3				113			126

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Arsenic III (dis)				<0.005			<0.005
Arsenic V (dis)				<0.005			<0.005
Cadmium (Cd) (DIS)				<0.001			<0.001
Copper (Cu) (DIS)				0.014			0.031
Iron (Fe) (DIS)				0.04			0.03
Lead (Pb) (DIS)				<0.005			<0.005
Manganese (Mn) (DIS)				<0.02			<0.02
Zinc (Zn) (DIS)				<0.02			<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)				6.47			5.55
pH				7.45			7.48
pH (Fld)		6.18		6.79	6.92	7.02	7.19
SC (umhos/cm at 25 C) (Fld)		990		1180	1320	983	138
SC (umhos/cm at 25 C)				1220			1360
Total Suspended Solids				<10			<10
TDS (Measured at 180 C)		613		845	912	887	966
TDS - Calculated							984
Water Temperature (C) (Fld)				11.9			12.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	301Gail	301Gail	301Gail	301Gail	301Gail	301Gail
Water	SAMPLE DATE	5/4/2006	7/12/2006	7/21/2006	7/21/2006	9/18/2006	9/18/2006
	SAMPLE TIME	12:30	14:30	13:00	13:30	11:45	12:00
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel
	LAB NUMBER	C06050292-015	H06070114-002	H06070224-001	H06070224-003	H06090133-003	H06090133-004
	SAMPLE NUMBER	EHR-0506-314	EHR-0706-301	EHR-0706-307	EHR-0706-308	EHR-0906-302	EHR-0906-303
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION			ReSampled			
	REMARKS	Field Duplicate		No Sample	Field Duplicate		Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Sulfate (SO4)	499	512	593
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**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.002	0.006	0.005	0.006	0.007	0.006
Arsenic III (dis)	<0.005					
Arsenic V (dis)	<0.005					
Cadmium (Cd) (DIS)	<0.001					
Copper (Cu) (DIS)	0.031					
Iron (Fe) (DIS)	0.03					
Lead (Pb) (DIS)	<0.005					
Manganese (Mn) (DIS)	<0.02					
Zinc (Zn) (DIS)	<0.02					

**Physical/Fid-Lab: ppm unless noted**

pH (Fld)	7.42	7.04	7.03
SC (umhos/cm at 25 C) (Fld)	1260	1401	1190
TDS (Measured at 180 C)	1010	1080	1020

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	301Gail	301Gail	301Gail	301Gail	301Gail	301Gail
Water	SAMPLE DATE	5/22/2007	6/21/2007	7/13/2007	7/13/2007	8/27/2007	9/27/2007
	SAMPLE TIME	00:00	00:00	10:50	11:10	09:40	08:45
	LAB	Asarco	ASARCO	ELI	ELI	ELI	ELI
	LAB NUMBER	z	EHR-0607-Gail301	H07070129-003	H07070129-004	H07080262-003	H07090318-003
	SAMPLE NUMBER	EHR-0507-Gail301	EHR-0607-Gail301	EHR-0707-302	EHR-0707-303	EHR-0807-302	EHR-0907-302
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	No Samp-Inop	No Samp-Inop				
	REMARKS	No Sample	No Sample		Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	180 UJ	170 UJ	170	170
Calcium (Ca) (DIS)	177 UJ	175 UJ	174	160
Chloride (Cl)	57 UJ	52 UJ	50	52
Magnesium (Mg) (DIS)	35 UJ	35 UJ	36	33
Potassium (K) (DIS)	8 UJ	8 UJ	8	8
Sodium (Na) (DIS)	142	141	148	129
Sulfate (SO4)	642	630	652	657
Total Alkalinity As CaCO3	140 UJ	140 UJ	140	140

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.009	0.008	0.005	0.006
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.004	0.005	0.006	0.006
Iron (Fe) (DIS)	0.04	0.04	0.03 UJ	0.09 UJ
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.34	0.339	0.329	0.318
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.01

**Other: ppm unless noted**

No Analysis	0.0	0.0		
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.93		8.55	7.36
pH	7.4	7.4	7.3	7.2
pH (Fld)	6.99		7.26	7.35
SC (umhos/cm at 25 C) (Fld)	1340 UJ		1610	1450
SC (umhos/cm at 25 C)	1610	1600	1520	1470
Total Suspended Solids	<10	<10	<10	<10
TDS (Measured at 180 C)	1260	1260	1250	1200
Water Temperature (C) (Fld)	12		11.6	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	301Gail	301Gail	303Thurman	303Thurman	303Thurman
Water	SAMPLE DATE	10/8/2007	11/7/2007	4/8/1988	6/7/2001	6/7/2001
	SAMPLE TIME	13:00	00:00	00:00	13:00	13:10
	LAB	ELI	Hydrometrics	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H07100105-005	z	88-2627	L010825008	L010825009
	SAMPLE NUMBER	EHR-1007-304	EHR-1107-301Gail	AEH-8804-379	EHC-0106-107	EHC-0106-135
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION		o Samp-Winterized			
	REMARKS		No Sample			Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	180	80 J	117	115
Calcium (Ca) (DIS)	154	37	59	60
Carbonate As CO3		<1 J	<1	<1
Chloride (Cl)	52	5.7	14	16
Magnesium (Mg) (DIS)	32	8	13	13
Potassium (K) (DIS)	7	4.7	5.8	5.6
Sodium (Na) (DIS)	132	24	30	30
Sulfate (SO4)	689	85	157	154
Total Alkalinity As CACO3	140		96	94

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.05	<0.05
Arsenic (As) (DIS)	0.005	<0.006	<0.005	<0.005
Arsenic III (dis)		0.02	<0.005	<0.005
Arsenic V (dis)		0.01	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.006		0.007	0.008
Iron (Fe +2) (TOT)		0.04		
Iron (Fe) (DIS)	0.06 UJ	0.02 J	<0.05	<0.05
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01		<0.02	<0.02
Selenium (Se) (DIS)	0.293			
Zinc (Zn) (DIS)	<0.01	0.02	<0.02	<0.02

**Other: ppm unless noted**

No Analysis		0.0		
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**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential			160.7	158.5
Oxygen (O) (DIS) (Fld)	8.3	5.8		
pH	7.2	7.1	7.6	7.2
Silicon+Silica (Si+SiO2)			21	21
pH (Fld)	7.22	6.9	6.06	6.1
SC (umhos/cm at 25 C) (Fld)	1460		483	483
SC (umhos/cm at 25 C)	1440	334	542	543
Total Suspended Solids	<10		<1	<1
TDS (Measured at 180 C)	1190	237 J	374	382
Water Temperature (C) (Fld)	11.6	10	12.9	12.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	303Thurman	303Thurman	303Thurman	303Thurman	303Thurman	303Thurman
Water	SAMPLE DATE	12/20/2001	6/24/2002	8/13/2002	10/30/2002	12/11/2002	5/1/2003
	SAMPLE TIME	13:55	16:30	11:30	10:50	16:00	11:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011668015	L020496012	L020658009	L020899008	L021013007	L030190007
	SAMPLE NUMBER	EHC-0111-262	EHC-0205-253	EHR-0208-108	EHR-0210-107	EHR-0212-106	EHR-0305-106
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)		137			134		122
Calcium (Ca) (DIS)		55			55		56
Carbonate As CO3		<1			<1		<2
Chloride (Cl)		16			14		17
Magnesium (Mg) (DIS)		12			11		12
Potassium (K) (DIS)		6.2			7.8		6.8
Sodium (Na) (DIS)		36			33		38
Sulfate (SO4)		116	136	133	117	124	141
Total Alkalinity As CaCO3		112			110		100
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (DIS)		<0.05			<0.05		<0.05
Arsenic (As) (DIS)		<0.005	<0.002	<0.005	<0.005	<0.002	<0.005
Arsenic III (dis)		<0.005					<0.005
Arsenic V (dis)		<0.005					<0.005
Cadmium (Cd) (DIS)		<0.001			<0.001		<0.001
Copper (Cu) (DIS)		0.03			0.03		0.04
Iron (Fe) (DIS)		0.04			0.03		0.04
Lead (Pb) (DIS)		<0.005			<0.005		<0.005
Manganese (Mn) (DIS)		<0.02			<0.02		<0.02
Zinc (Zn) (DIS)		<0.02			<0.02		0.02
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxidation Reduction Potential		158.2					
Oxygen (O) (DIS) (Fld)		3.7	3.8				5.4
pH		6.4			7.5		6.6
Silicon+Silica (Si+SiO2)		23			21		
Eh (millivolts)		363					
pH (Fld)		7.4	6.8	7.2	6.4		5.8
SC (umhos/cm at 25 C) (Fld)		627	505	479	529	556	467
SC (umhos/cm at 25 C)		551			528		563
Total Suspended Solids		<1			<1		<1
TDS (Measured at 180 C)		366	395 J	407	376	349	373
Water Temperature (C) (Fld)		11.9	13.5				11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	303Thurman	303Thurman	303Thurman	303Thurman	303Thurman	303Thurman
Water	SAMPLE DATE	5/5/2004	5/4/2005	5/4/2005	5/4/2006	5/17/2007	5/13/2008
	SAMPLE TIME	13:30	06:50	06:55	14:10	14:30	12:35
	LAB	ELI	ELI-Casper	ELI-Casper	ELI-Hel	ELI	ELI
	LAB NUMBER	H04050036-011	C05050186-001	C05050186-002	C06050292-018	H07050211-012	H08050220-012
	SAMPLE NUMBER	EHR-0504-310	EHR-0505-300	EHR-0505-301	EHR-0506-317	EHR-0507-311	EHR-0508-311
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	120	114		120	120	120
Calcium (Ca) (DIS)	68	52	51	43	42	34
Chloride (Cl)	18	15		12	10	9
Magnesium (Mg) (DIS)	14	11	11	10	9	7
Potassium (K) (DIS)	9	6	6	6	6	6
Sodium (Na) (DIS)	38 UJ	34	33	35	36	32
Sulfate (SO4)	180	145		114	112	81
Total Alkalinity As CaCO3	100	93		99	98	98

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)					<0.005	
Selenium-VI (DIS)					0.0066	
Aluminum (Al) (DIS)					<0.1	<0.1
Antimony (Sb) (DIS)					<0.005	<0.005
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Arsenic III (dis)		<0.005	<0.005	<0.005	<0.005	
Arsenic V (dis)		<0.005	<0.005	<0.005	<0.005	
Barium (Ba) (DIS)					<0.1	<0.1
Beryllium (Be) (DIS)					<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)					<0.001	<0.001
Cobalt (Co) (DIS)					<0.01	<0.01
Copper (Cu) (DIS)	<0.004	0.01	0.01	0.005	<0.004	0.005
Iron (Fe) (DIS)	<0.02	0.06 J	0.03 J	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.01	<0.01
Mercury (Hg) (DIS)					<0.006	<0.006
Nickel (Ni) (DIS)					<0.01	<0.01
Selenium (Se) (DIS)					0.01	0.006
Silver (Ag) (DIS)					<0.005 J-	<0.005
Thallium (Tl) (DIS)					<0.002	<0.002
Tin (Sn) (DIS)					<0.1	<0.1
Vanadium (V) (DIS)					<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	<0.02	<0.02	<0.02	<0.01	<0.01

**Nutrients: ppm unless noted**

Total Organic Carbon					<0.5	
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**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	6.6	4.15		6.21	5.46	6.84
pH	6.9	6.79		7.24	7.2	7
pH (Fld)	6.3	6.29		6.98	6.88	6.75
SC (umhos/cm at 25 C) (Fld)	806	500		404	458	328

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	303Thurman	303Thurman	303Thurman	303Thurman	303Thurman
Water	SAMPLE DATE	5/5/2004	5/4/2005	5/4/2006	5/17/2007	5/13/2008
	SAMPLE TIME	13:30	06:50	14:10	14:30	12:35
	LAB	ELI	ELI-Casper	ELI-Hel	ELI	ELI
	LAB NUMBER	H04050036-011	C05050186-001	C06050292-018	H07050211-012	H08050220-012
	SAMPLE NUMBER	EHR-0504-310	EHR-0505-300	EHR-0506-317	EHR-0507-311	EHR-0508-311
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS					
<b>Physical/Fld-Lab: ppm unless noted</b>						
	SC (umhos/cm at 25 C)	537	550	451	430	394
	Total Suspended Solids	<10	<10	<10	<10	<10
	TDS (Measured at 180 C)	439	354	290	308	251
	TDS - Calculated			300		
	Salinity (G/KG) (Fld)	0.3				
	Water Temperature (C) (Fld)	11.7	11.4	11.7	11.6	11.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	303Thurman	316Mont	316Mont	316Mont	316Mont
Water	SAMPLE DATE	5/13/2009	11/2/1984	5/14/1985	6/5/2001	1/15/2002
	SAMPLE TIME	09:45	00:00	00:00	12:30	11:20
	LAB	ELI	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050213-007	84-10848	85-3622	L010825002	L020030002
	SAMPLE NUMBER	EHR-0509-306	AEH-8411-8	AEH-8505-419	EHC-0106-121	EHC-0111-269
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	to Fld pH-Instr. Err				
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	110	179		113	110
Calcium (Ca) (DIS)	31	60		41	39
Carbonate As CO3				<1	<1
Chloride (Cl)	7	6.6		9.1	5.3
Magnesium (Mg) (DIS)	7	14		9.5	8.6
Potassium (K) (DIS)	6	3.7		<5	<5
Sodium (Na) (DIS)	28	15		15	16
Sulfate (SO4)	70	82		72	67
Total Alkalinity As CaCO3	92	147		93	90

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1			<0.05	<0.05
Antimony (Sb) (DIS)	<0.003				
Arsenic (As) (DIS)	<0.002	<0.004	0.007	<0.005	<0.005
Arsenic III (dis)				<0.005	<0.005
Arsenic V (dis)				<0.005	<0.005
Barium (Ba) (DIS)	<0.1				
Beryllium (Be) (DIS)	<0.001				
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001				
Cobalt (Co) (DIS)	<0.01				
Copper (Cu) (DIS)	0.005	0.01		0.005	0.007
Gold (Au) (DIS)	<0.01				
Iron (Fe) (DIS)	<0.02	0.04		<0.05	0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.004		<0.02	<0.02
Mercury (Hg) (DIS)	<0.001				
Nickel (Ni) (DIS)	<0.01				
Selenium (Se) (DIS)	0.005				
Silver (Ag) (DIS)	<0.005				
Tellurium (Te) (DIS)	<0.1				
Thallium (Tl) (DIS)	<0.001				
Vanadium (V) (DIS)	<0.01				
Zinc (Zn) (DIS)	0.02	0.07	0.2	0.5	0.3

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				144.3	169
Oxygen (O) (DIS) (Fld)	6.38			2.7	4.3
pH	7.4	7.7	7.6	7.7	6.5
Silicon+Silica (Si+SiO2)				20	20
Eh (millivolts)					0.0

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	303Thurman	316Mont	316Mont	316Mont	316Mont
Water	SAMPLE DATE	5/13/2009	11/2/1984	5/14/1985	6/5/2001	1/15/2002
	SAMPLE TIME	09:45	00:00	00:00	12:30	11:20
	LAB	Hydrometrics	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050213-007	84-10848	85-3622	L010825002	L020030002
	SAMPLE NUMBER	EHR-0509-306	AEH-8411-8	AEH-8505-419	EHC-0106-121	EHC-0111-269
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	no fld pH-Instr. Err				
	REMARKS					

**Physical/Fld-Lab: ppm unless noted**

	303Thurman	316Mont	316Mont	316Mont	316Mont
pH (Fld)				7.4	8.3
SC (umhos/cm at 25 C) (Fld)	250	491.8	375.8	314	398
SC (umhos/cm at 25 C)	367	489	412	343	336
Total Suspended Solids	<10			<1	<1
TDS (Measured at 180 C)	214	312	245	227	206
Water Temperature (C) (Fld)	11			13.8	12.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	316Mont	316Mont	316Mont	316Mont	316Mont	316Mont
Water	SAMPLE DATE	6/24/2002	8/13/2002	5/1/2003	5/5/2004	5/4/2005	5/4/2006
	SAMPLE TIME	16:00	11:40	15:30	11:00	12:55	09:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI-Casper	ELI-Hel
	LAB NUMBER	L020496011	L020658010	L030190013	H04050036-008	C05050186-014	C06050292-009
	SAMPLE NUMBER	EHC-0205-252	EHR-0208-109	EHR-0305-112	EHR-0504-307	EHR-0505-313	EHR-0506-308
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)			117	130	118	120
Calcium (Ca) (DIS)			40	46	43	45
Carbonate As CO3			<2			
Chloride (Cl)			12	9	7	8
Magnesium (Mg) (DIS)			9.3	10	10	11
Potassium (K) (DIS)			<5	4 UJ	<5	<5
Sodium (Na) (DIS)			15	17 UJ	14	16
Sulfate (SO4)	59	69	66	72	74	80
Total Alkalinity As CACO3			96	110	97	99

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.002	<0.005	<0.005	<0.002	<0.002	<0.002
Arsenic III (dis)			<0.005		<0.005	<0.005
Arsenic V (dis)			<0.005		<0.005	<0.005
Cadmium (Cd) (DIS)			<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)			<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)			0.2	<0.02	0.02 J	<0.02
Lead (Pb) (DIS)			<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)			0.04	<0.01	<0.02	<0.02
Zinc (Zn) (DIS)			0.2	0.02	0.03	0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.4		2.4	8	3.77	7.29
pH			6.9	7.3	7.32	7.46
pH (Fld)	7.06	7.4	6.3	6.5	7.03	7.37
SC (umhos/cm at 25 C) (Fld)	319	298	296	502	363	323
SC (umhos/cm at 25 C)			360	342	384	365
Total Suspended Solids			5.2	<10	<10	<10
TDS (Measured at 180 C)	267 J	259	230	264	249	224
TDS - Calculated						244
Salinity (G/KG) (Fld)				0.2		
Water Temperature (C) (Fld)	15.7		11.1	11.6	11	10.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	316Mont	316Mont	316Mont	317Gail	317Gail
Water	SAMPLE DATE	5/17/2007	5/17/2007	5/13/2008	5/14/1985	10/14/1986
	SAMPLE TIME	11:35	11:45	11:10	00:00	00:00
	LAB	ELI	ELI	ELI	TSC-SLC	RMAL
	LAB NUMBER	H07050211-007	H07050211-008	H08050220-009	85-3628	8610-114
	SAMPLE NUMBER	EHR-0507-306	EHR-0507-307	EHR-0508-308	AEH-8505-458	AEH-8610-114
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS		Field Duplicate			Split
<b>Common Ions (mg/L): ppm unless noted</b>						
	Bicarbonate (HCO3)	120	120	120	145	141
	Calcium (Ca) (DIS)	46	46	45	180	173
	Carbonate As CO3					<5
	Chloride (Cl)	11	11	11	39	49 M
	Magnesium (Mg) (DIS)	10	10	10	40	38.8
	Potassium (K) (DIS)	3	3	3	7.3	6.08 M
	Sodium (Na) (DIS)	16	16	16	61	63.2 M
	Sulfate (SO4)	74	72	71	544	491
	Total Alkalinity As CACO3	99	99	97	119	
<b>Metals (mg/L): ppm unless noted</b>						
	Selenium-IV (DIS)	<0.005	<0.005			
	Selenium-VI (DIS)	<0.005	<0.005			
	Aluminum (Al) (DIS)	<0.1	<0.1	<0.1		
	Antimony (Sb) (DIS)	<0.005	<0.005	<0.005		
	Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.004	<0.01
	Arsenic III (DIS)	<0.005	<0.005			
	Arsenic V (DIS)	<0.005	<0.005			
	Barium (Ba) (DIS)	<0.1	<0.1	<0.1		
	Beryllium (Be) (DIS)	<0.001	<0.001	<0.001		
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.005 M
	Chromium (Cr) (DIS)	<0.001	<0.001	<0.001		
	Cobalt (Co) (DIS)	<0.01	<0.01	<0.01		
	Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.008	<0.004
	Iron (Fe) (DIS)	<0.02	<0.02	<0.02	4.3	0.9
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.05 M
	Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	0.08	0.02
	Mercury (Hg) (DIS)	<0.006	<0.006	<0.006		
	Nickel (Ni) (DIS)	<0.01	<0.01	<0.01		
	Selenium (Se) (DIS)	<0.005	<0.005	<0.005		
	Silver (Ag) (DIS)	<0.005 J-	<0.005 J-	<0.005		
	Thallium (Tl) (DIS)	<0.002	<0.002	<0.002		
	Tin (Sn) (DIS)	<0.1	<0.1	<0.1		
	Vanadium (V) (DIS)	<0.01	<0.01	<0.01		
	Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	0.05	0.01
<b>Nutrients: ppm unless noted</b>						
	Total Organic Carbon	<0.5	<0.5			
<b>Physical/Fid-Lab: ppm unless noted</b>						
	Oxygen (O) (DIS) (Fld)	7.99		6.15		
	pH	7.4	7.3	7.2	6.9	7.1
	pH (Fld)	7.16		7.16		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	316Mont	316Mont	316Mont	317Gail	317Gail
Water	SAMPLE DATE	5/17/2007	5/17/2007	5/13/2008	5/14/1985	10/14/1986
	SAMPLE TIME	11:35	11:45	11:10	00:00	00:00
	LAB	Asarco	ELI	Hydrometrics	TSC-SLC	RMAL
	LAB NUMBER	H07050211-007	H07050211-008	H08050220-009	85-3628	8610-114
	SAMPLE NUMBER	EHR-0507-306	EHR-0507-307	EHR-0508-308	AEH-8505-458	AEH-8610-114
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS		Field Duplicate			Split
<b>Physical/Fid-Lab: ppm unless noted</b>						
	SC (umhos/cm at 25 C) (Fid)	306		281	1300	
	SC (umhos/cm at 25 C)	368	368	381	1392	1330
	Total Suspended Solids	<10	<10	<10		
	TDS (Measured at 180 C)	250	254	241	1101	1000
	Water Temperature (C) (Fid)	11.6		11		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	317Gail	317Gail	317Gail	317Gail	317Gail
Water	SAMPLE DATE	10/14/1986	4/28/1987	4/6/1988	8/3/2001	12/20/2001
	SAMPLE TIME	00:00	00:00	00:00	15:30	13:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	86-6926	87-2848	88-2622	L011133004	L011668014
	SAMPLE NUMBER	AEH-8610-114	AEH-8704-46	AEH-8804-375	EHC-0106-103	EHC-0111-260
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	153	177 M	146 J	171	98
Calcium (Ca) (DIS)			161	204	28
Carbonate As CO3			<1 J		<1
Chloride (Cl)			33	114	5
Magnesium (Mg) (DIS)			33.5	46	6.3
Potassium (K) (DIS)			6.9	8.7	<5
Sodium (Na) (DIS)			60.8	142	13
Sulfate (SO4)	476	480	436	791	78
Total Alkalinity As CACO3				140	80

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)				<0.05	<0.05
Arsenic (As) (DIS)	<0.006	0.008	<0.006	0.005	<0.005
Arsenic III (dis)	<0.008	0.01	<0.008	<0.005	<0.005
Arsenic V (dis)	0.01 M	0.01	0.01	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)				<0.004	0.3
Iron (Fe +2) (TOT)	1	1	1.1		
Iron (Fe) (DIS)	0.9	0.8	0.9 J	4	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005 J	<0.005	<0.005
Manganese (Mn) (DIS)				0.2	<0.02
Zinc (Zn) (DIS)	0.02	0.009 M	0.008	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				202.4	145.7
Oxygen (O) (DIS) (Fld)	0.4	2	1.8		4.4
pH	7.1	7.2	7.09	8	6.3
Silicon+Silica (Si+SiO2)				23	21
Depth To Water Level (ft)			22	26.3	
Eh (millivolts)				438	351
pH (Fld)	6.7	6.2	6.4	7.2	8
SC (umhos/cm at 25 C) (Fld)	1289	1282	1168	1852	329
SC (umhos/cm at 25 C)	1330	1210	1080	1817	266
Total Suspended Solids				9	<1
TDS (Measured at 180 C)	976	960	1007 J	1443	178
Water Temperature (C) (Fld)	12	11.9	12.1	14.2	9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	3350 Beck	3420 Weston	3425 Allied	3425 Allied
Water	SAMPLE DATE	8/25/2009	8/19/2009	7/17/2009	8/19/2009
	SAMPLE TIME	07:20	11:50	09:40	17:25
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H09080292-001	H09080233-004	H09070211-005	H09080233-017
	SAMPLE NUMBER	EHR-0809-350	EHR-0809-334	EHR-0709-314	EHR-0809-347
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site	New Site
	REMARKS				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	240	230	280	310
Calcium (Ca) (DIS)	71	99	119	143
Chloride (Cl)	47	56	59	81
Magnesium (Mg) (DIS)	45	58	28	33
Potassium (K) (DIS)	15	18	13	17
Sodium (Na) (DIS)	57	83	63	88
Sulfate (SO4)	230	400	250	320
Total Alkalinity As CaCO3	200	190	230	250

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	0.006	0.01	0.014	0.016
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001	0.001
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	0.001 UJ	<0.001	<0.001	0.002 UJ
Gold (Au) (DIS)	<0.01	<0.01	<0.01	<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001	<0.001	<0.001	<0.001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.002	0.004	0.006	0.008
Silver (Ag) (DIS)	<0.005	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)	<0.1	<0.1	<0.1	<0.1
Thallium (Tl) (DIS)	<0.001	<0.001	<0.001	<0.001
Vanadium (V) (DIS)	<0.01	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	0.01 UJ	<0.01	0.01 UJ

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	8.31	9.4	10.1	9.35
pH	7.9	7.8	7.9	7.8
pH (Fld)	7.65	7.73	7.6	7.64
SC (umhos/cm at 25 C) (Fld)	815	769	768	1330
SC (umhos/cm at 25 C)	953	1220	1090	1300

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	3350 Beck	3420Weston	3425Allied	3425Allied
Water	SAMPLE DATE	8/25/2009	8/19/2009	7/17/2009	8/19/2009
	SAMPLE TIME	07:20	11:50	09:40	17:25
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H09080292-001	H09080233-004	H09070211-005	H09080233-017
	SAMPLE NUMBER	EHR-0809-350	EHR-0809-334	EHR-0709-314	EHR-0809-347
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site	New Site
	REMARKS				

**Physical/Fld-Lab: ppm unless noted**

Total Suspended Solids	<10	<10	<10	<10
TDS (Measured at 180 C)	644	910	791	945
Water Temperature (C) (Fld)	11.8	12.5	11.8	11.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	3425Allied	3430Weston	3430Weston	3433Beck
Water	SAMPLE DATE	8/19/2009	8/25/2009	8/25/2009	8/12/2009
	SAMPLE TIME	17:40	10:00	10:20	15:15
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H09080233-018	H09080292-008	H09080292-009	H09080156-011
	SAMPLE NUMBER	EHR-0809-348	EHR-0809-357	EHR-0809-358	EHR-0809-320
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION		New Site		New Site
	REMARKS	Field Duplicate		Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	310	220	210	240
Calcium (Ca) (DIS)	141	91	91	63
Chloride (Cl)	81	92	93	43
Magnesium (Mg) (DIS)	32	51	51	38
Potassium (K) (DIS)	16	18	18	13
Sodium (Na) (DIS)	86	114	117	50
Sulfate (SO4)	320	390	390	150
Total Alkalinity As CaCO3	260	180	180	200

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	0.016	0.011	0.011	0.009
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	0.002	0.001	0.001	0.003 UJ
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	0.002 UJ	<0.001	0.002 UJ	0.001 UJ
Gold (Au) (DIS)	<0.01	<0.01	<0.01	<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001	<0.001	<0.001	<0.001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.008	0.004	0.004	0.003
Silver (Ag) (DIS)	<0.005	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)	<0.1	<0.1	<0.1	<0.1
Thallium (Tl) (DIS)	<0.001	0.002	<0.001	<0.001
Vanadium (V) (DIS)	0.01	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	0.01 UJ	<0.01	<0.01	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		10.11		10.41
pH	7.8	7.8	7.8	7.8
pH (Fld)		7.74		7.75
SC (umhos/cm at 25 C) (Fld)		1310		523
SC (umhos/cm at 25 C)	1310	1330	1330	784

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	3425Allied	3430Weston	3430Weston	3433Beck
Water	SAMPLE DATE	8/19/2009	8/25/2009	8/25/2009	8/12/2009
	SAMPLE TIME	17:40	10:00	10:20	15:15
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H09080233-018	H09080292-008	H09080292-009	H09080156-011
	SAMPLE NUMBER	EHR-0809-348	EHR-0809-357	EHR-0809-358	EHR-0809-320
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION		New Site		New Site
	REMARKS	Field Duplicate		Field Duplicate	

**Physical/Fld-Lab: ppm unless noted**

Total Suspended Solids	<10	<10	<10	<10
TDS (Measured at 180 C)	933	946	949	544
Water Temperature (C) (Fld)		11.1		11.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	3434Beck1	3434Beck2	3445Weston
Water	SAMPLE DATE	8/12/2009	8/12/2009	8/19/2009
	SAMPLE TIME	13:45	14:05	12:35
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09080156-007	H09080156-008	H09080233-006
	SAMPLE NUMBER	EHR-0809-316	EHR-0809-317	EHR-0809-336
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site
	REMARKS			

**Common Ions (mg/L): ppm unless noted**

	3434Beck1	3434Beck2	3445Weston
Bicarbonate (HCO3)	280	280	170
Calcium (Ca) (DIS)	64	65	41
Chloride (Cl)	43	39	20
Magnesium (Mg) (DIS)	43	44	18
Potassium (K) (DIS)	14	13	13
Sodium (Na) (DIS)	49	46	38
Sulfate (SO4)	140	150	93
Total Alkalinity As CaCO3	230	230	140

**Metals (mg/L): ppm unless noted**

	3434Beck1	3434Beck2	3445Weston
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	0.008	0.005	0.014
Barium (Ba) (DIS)	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	0.004 UJ	0.003 UJ	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	0.003 UJ	0.002 UJ	0.002 UJ
Gold (Au) (DIS)	<0.01	<0.01	<0.01
Iron (Fe) (DIS)	<0.02	0.47	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	0.02	<0.01
Mercury (Hg) (DIS)	<0.001	<0.001	<0.001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.003	0.003	0.002
Silver (Ag) (DIS)	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)	<0.1	<0.1	<0.1
Thallium (Tl) (DIS)	<0.001	<0.001	<0.001
Vanadium (V) (DIS)	<0.01	<0.01	0.01
Zinc (Zn) (DIS)	<0.01	<0.01	0.01 UJ

**Physical/Fid-Lab: ppm unless noted**

	3434Beck1	3434Beck2	3445Weston
Oxygen (O) (DIS) (Fld)	10.11	10.59	9.58
pH	8	7.9	7.8
pH (Fld)	7.86	7.75	7.77
SC (umhos/cm at 25 C) (Fld)	556	539	366
SC (umhos/cm at 25 C)	844	826	536

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	3434Beck1	3434Beck2	3445Weston
Water	SAMPLE DATE	8/12/2009	8/12/2009	8/19/2009
	SAMPLE TIME	13:45	14:05	12:35
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09080156-007	H09080156-008	H09080233-006
	SAMPLE NUMBER	EHR-0809-316	EHR-0809-317	EHR-0809-336
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site
	REMARKS			

**Physical/Fid-Lab: ppm unless noted**

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Total Suspended Solids	<10	13	<10
TDS (Measured at 180 C)	587	565	374 UJ
Water Temperature (C) (Fld)	12.4	11.2	11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	3459 Winslo	3460 Weston	3463 Beck
Water	SAMPLE DATE	8/19/2009	8/19/2009	8/12/2009
	SAMPLE TIME	15:30	12:10	14:50
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09080233-012	H09080233-005	H09080156-010
	SAMPLE NUMBER	EHR-0809-342	EHR-0809-335	EHR-0809-319
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site
	REMARKS			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	220	260	280
Calcium (Ca) (DIS)	178	59	70
Chloride (Cl)	87	33	48
Magnesium (Mg) (DIS)	67	34	42
Potassium (K) (DIS)	21	13	14
Sodium (Na) (DIS)	101	43	52
Sulfate (SO4)	610	130	150
Total Alkalinity As CaCO3	180	210	230

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	0.011	0.009	0.009
Barium (Ba) (DIS)	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	0.002 UJ
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	0.002 UJ	0.002 UJ	0.001 UJ
Gold (Au) (DIS)	<0.01	<0.01	<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001	<0.001	<0.001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.006	0.003	0.004
Silver (Ag) (DIS)	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)	<0.1	<0.1	<0.1
Thallium (Tl) (DIS)	<0.001	<0.001	<0.001
Vanadium (V) (DIS)	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	0.03 UJ	0.01 UJ	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	10.29	9.87	9.6
pH	7.8	7.8	7.8
pH (Fld)	7.67	7.71	7.78
SC (umhos/cm at 25 C) (Fld)	1730	469	576
SC (umhos/cm at 25 C)	1660	735	858

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	3459 Winslo	3460 Weston	3463 Beck
Water	SAMPLE DATE	8/19/2009	8/19/2009	8/12/2009
	SAMPLE TIME	15:30	12:10	14:50
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09080233-012	H09080233-005	H09080156-010
	SAMPLE NUMBER	EHR-0809-342	EHR-0809-335	EHR-0809-319
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site
	REMARKS			

**Physical/Fid-Lab: ppm unless noted**

Total Suspended Solids	<10	<10	<10
TDS (Measured at 180 C)	1280	496 UJ	580
Water Temperature (C) (Fld)	11.4	11.6	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	3465Allied	3465Weston	3470Weston
Water	SAMPLE DATE	7/17/2009	8/19/2009	8/19/2009
	SAMPLE TIME	07:55	16:00	13:00
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09070211-001	H09080233-013	H09080233-007
	SAMPLE NUMBER	EHR-0709-310	EHR-0809-343	EHR-0809-337
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site
	REMARKS			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	160	240	190
Calcium (Ca) (DIS)	54	286	65
Chloride (Cl)	30	170	36
Magnesium (Mg) (DIS)	12	123	28
Potassium (K) (DIS)	8	29	15
Sodium (Na) (DIS)	30	204	55
Sulfate (SO4)	96	1200	190
Total Alkalinity As CaCO3	130	190	160

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	0.006	0.01	0.017
Barium (Ba) (DIS)	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	0.001	0.002	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	0.003	0.006 UJ	<0.001
Gold (Au) (DIS)	<0.01	<0.02	<0.01
Iron (Fe) (DIS)	<0.02	0.08	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001	<0.001	<0.001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.003	0.013	0.003
Silver (Ag) (DIS)	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)	<0.1	<0.1	<0.1
Thallium (Tl) (DIS)	<0.001	<0.001	<0.001
Vanadium (V) (DIS)	<0.01	<0.01	0.01
Zinc (Zn) (DIS)	<0.01	0.06 UJ	0.02 UJ

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.61	9.48	10.14
pH	7.6	7.7	7.9
pH (Fld)	7.28	7.56	7.86
SC (umhos/cm at 25 C) (Fld)	430	2760	472
SC (umhos/cm at 25 C)	575	2680	782

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	3465Allied	3465Weston	3470Weston
Water	SAMPLE DATE	7/17/2009	8/19/2009	8/19/2009
	SAMPLE TIME	07:55	16:00	13:00
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09070211-001	H09080233-013	H09080233-007
	SAMPLE NUMBER	EHR-0709-310	EHR-0809-343	EHR-0809-337
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site
	REMARKS			

**Physical/Fid-Lab: ppm unless noted**

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Total Suspended Solids	<10	<10	<10
TDS (Measured at 180 C)	401	2230	551 UJ
Water Temperature (C) (Fld)	11.5	11.2	11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	3475Allied	3480Allied	3480WestoH
Water	SAMPLE DATE	7/17/2009	7/17/2009	8/25/2009
	SAMPLE TIME	08:15	09:10	09:00
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09070211-002	H09070211-004	H09080292-006
	SAMPLE NUMBER	EHR-0709-311	EHR-0709-313	EHR-0809-355
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site
	REMARKS			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	170	200	260
Calcium (Ca) (DIS)	37	75	227
Chloride (Cl)	7	29	300
Magnesium (Mg) (DIS)	8	17	86
Potassium (K) (DIS)	6	9	25
Sodium (Na) (DIS)	18	32	166
Sulfate (SO4)	42	150	560
Total Alkalinity As CaCO3	140	160	220

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	0.002	0.006	0.019
Barium (Ba) (DIS)	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	0.002
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	<0.001	<0.001	0.002 UJ
Gold (Au) (DIS)	<0.01	<0.01	<0.02
Iron (Fe) (DIS)	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001	<0.001	<0.001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.001	0.003	0.005
Silver (Ag) (DIS)	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)	<0.1	<0.1	<0.1
Thallium (Tl) (DIS)	<0.001	<0.001	<0.001
Vanadium (V) (DIS)	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.36	9.96	10.17
pH	7.5	7.7	7.7
pH (Fld)	7.2	7.48	7.57
SC (umhos/cm at 25 C) (Fld)	276	550	2360
SC (umhos/cm at 25 C)	352	697	2340

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	3475Allied	3480Allied	3480WestoH
Water	SAMPLE DATE	7/17/2009	7/17/2009	8/25/2009
	SAMPLE TIME	08:15	09:10	09:00
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09070211-002	H09070211-004	H09080292-006
	SAMPLE NUMBER	EHR-0709-311	EHR-0709-313	EHR-0809-355
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site
	REMARKS			

**Physical/Fid-Lab: ppm unless noted**

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Total Suspended Solids	<10	<10	<10
TDS (Measured at 180 C)	272	508	1710
Water Temperature (C) (Fld)	11.9	11.7	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	3480WestoK	3485Beck	3485Weston
Water	SAMPLE DATE	8/25/2009	8/12/2009	8/25/2009
	SAMPLE TIME	09:20	14:30	09:45
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09080292-007	H09080156-009	H09080292-005
	SAMPLE NUMBER	EHR-0809-356	EHR-0809-318	EHR-0809-354
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site
	REMARKS			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	20	260	210
Calcium (Ca) (DIS)	7	75	169
Chloride (Cl)	43	44	150
Magnesium (Mg) (DIS)	3	36	80
Potassium (K) (DIS)	7	14	22
Sodium (Na) (DIS)	45	43	109
Sulfate (SO4)	9	160	600
Total Alkalinity As CaCO3	17	210	170

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	<0.002	0.01	0.007
Barium (Ba) (DIS)	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	0.004 UJ	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	<0.001	0.001 UJ	0.002 UJ
Gold (Au) (DIS)	<0.01	<0.01	<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001	<0.001	<0.001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	<0.001	0.003	0.008
Silver (Ag) (DIS)	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)	<0.1	<0.1	<0.1
Thallium (Tl) (DIS)	<0.001	<0.001	<0.001
Vanadium (V) (DIS)	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	0.02 UJ	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.56	9.34	9.93
pH	6.7	7.8	7.7
pH (Fld)	7.13	7.67	7.52
SC (umhos/cm at 25 C) (Fld)	262	549	1790
SC (umhos/cm at 25 C)	295	821	1820

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	3480WestoK	3485Beck	3485Weston
Water	SAMPLE DATE	8/25/2009	8/12/2009	8/25/2009
	SAMPLE TIME	09:20	14:30	09:45
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09080292-007	H09080156-009	H09080292-005
	SAMPLE NUMBER	EHR-0809-356	EHR-0809-318	EHR-0809-354
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site
	REMARKS			

**Physical/Fid-Lab: ppm unless noted**

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Total Suspended Solids	<10	<10	<10
TDS (Measured at 180 C)	170 UJ	589	1390
Water Temperature (C) (Fld)	20	11.3	11.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	3489Weston	3490Weston	3491Weston
Water	SAMPLE DATE	8/19/2009	8/19/2009	8/19/2009
	SAMPLE TIME	16:20	17:10	16:45
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09080233-014	H09080233-016	H09080233-015
	SAMPLE NUMBER	EHR-0809-344	EHR-0809-346	EHR-0809-345
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site
	REMARKS			

**Common Ions (mg/L): ppm unless noted**

	3489Weston	3490Weston	3491Weston
Bicarbonate (HCO3)	190	210	170
Calcium (Ca) (DIS)	118	112	54
Chloride (Cl)	70	88	15
Magnesium (Mg) (DIS)	31	37	12
Potassium (K) (DIS)	14	18	10
Sodium (Na) (DIS)	50	55	31
Sulfate (SO4)	310	250	93
Total Alkalinity As CaCO3	150	170	140

**Metals (mg/L): ppm unless noted**

	3489Weston	3490Weston	3491Weston
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	0.007	0.01	0.007
Barium (Ba) (DIS)	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	0.003 UJ	0.001 UJ	0.002 UJ
Gold (Au) (DIS)	<0.01	<0.01	<0.01
Iron (Fe) (DIS)	<0.02	0.03	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001	<0.001	<0.001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.005	0.003	0.002
Silver (Ag) (DIS)	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)	<0.1	<0.1	<0.1
Thallium (Tl) (DIS)	<0.001	<0.001	<0.001
Vanadium (V) (DIS)	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	0.01 UJ	0.01 UJ	<0.01

**Physical/Fid-Lab: ppm unless noted**

	3489Weston	3490Weston	3491Weston
Oxygen (O) (DIS) (Fld)	8.93	8.16	8.01
pH	7.7	7.7	7.6
pH (Fld)	7.58	7.63	7.38
SC (umhos/cm at 25 C) (Fld)	1190	963	456
SC (umhos/cm at 25 C)	1100	1100	523

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	3489Weston	3490Weston	3491Weston
Water	SAMPLE DATE	8/19/2009	8/19/2009	8/19/2009
	SAMPLE TIME	16:20	17:10	16:45
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09080233-014	H09080233-016	H09080233-015
	SAMPLE NUMBER	EHR-0809-344	EHR-0809-346	EHR-0809-345
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site
	REMARKS			

**Physical/Fid-Lab: ppm unless noted**

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Total Suspended Solids	<10	<10	<10
TDS (Measured at 180 C)	804	789	377 UJ
Water Temperature (C) (Fld)	11.4	12	11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	3495 Allied	3655 Hwy12	3885 Hwy12
Water	SAMPLE DATE	7/17/2009	8/25/2009	8/25/2009
	SAMPLE TIME	08:40	11:30	12:00
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09070211-003	H09080292-010	H09080292-011
	SAMPLE NUMBER	EHR-0709-312	EHR-0809-359	EHR-0809-360
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site
	REMARKS			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	160	370	210
Calcium (Ca) (DIS)	41	85	62
Chloride (Cl)	10	43	34
Magnesium (Mg) (DIS)	9	58	17
Potassium (K) (DIS)	7	4	14
Sodium (Na) (DIS)	21	36	42
Sulfate (SO4)	56	130	96
Total Alkalinity As CaCO3	130	300	170

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	0.004	0.004	0.014
Barium (Ba) (DIS)	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	<0.001	<0.001	<0.001
Gold (Au) (DIS)	<0.01	<0.01	<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001	<0.001	<0.001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.002	0.001	0.003
Silver (Ag) (DIS)	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)	<0.1	<0.1	<0.1
Thallium (Tl) (DIS)	<0.001	<0.001	<0.001
Vanadium (V) (DIS)	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	0.03 UJ	0.03 UJ

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.09	6.27	8.78
pH	7.7	7.7	7.9
pH (Fld)	7.39	7.36	7.71
SC (umhos/cm at 25 C) (Fld)	313	990	601
SC (umhos/cm at 25 C)	392	1000	675

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	3495 Allied	3655 Hwy12	3885 Hwy12
Water	SAMPLE DATE	7/17/2009	8/25/2009	8/25/2009
	SAMPLE TIME	08:40	11:30	12:00
	LAB	ELI	ELI	ELI
	LAB NUMBER	H09070211-003	H09080292-010	H09080292-011
	SAMPLE NUMBER	EHR-0709-312	EHR-0809-359	EHR-0809-360
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site	New Site	New Site
	REMARKS			

**Physical/Fid-Lab: ppm unless noted**

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Total Suspended Solids	<10	<10	<10
TDS (Measured at 180 C)	304	640	468 UJ
Water Temperature (C) (Fld)	11.7	9.9	14.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	401Gail	401Gail	401Gail	401Gail	401Gail	401Gail
Water	SAMPLE DATE	5/14/1985	5/14/1985	5/14/1985	10/14/1986	10/14/1986	10/14/1986
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	JTC	TSC-SLC	TSC-SLC	TSC-SLC	RMAL	TSC-SLC
	LAB NUMBER	8505-408	85-3614	85-3626	86-6932	8610-117	86-6923
	SAMPLE NUMBER	AEH-8505-408	AEH-8505-408	AEH-8505-456	AEH-8610-102	AEH-8610-117	AEH-8610-117
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS	Split	Field Duplicate		Field Duplicate	Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	134		131		111 M	134
Calcium (Ca) (DIS)	61.1		62		70.6 M	
Carbonate As CO3					<5	
Chloride (Cl)	9.9		15.5		11	
Magnesium (Mg) (DIS)	12.8		14.2		16.1 M	
Potassium (K) (DIS)	4.3		4.8		5.3	
Sodium (Na) (DIS)	19.7		24		23.5	
Sulfate (SO4)	129		147		142	141
Total Alkalinity As CaCO3	109.5		107			

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1					
Antimony (Sb) (DIS)	<0.05					
Arsenic (As) (DIS)	<0.007	<0.004	<0.004	<0.006	<0.01 M	<0.006
Arsenic III (dis)				<0.008		<0.008
Arsenic V (dis)				0.01		0.01
Barium (Ba) (DIS)	0.09					
Beryllium (Be) (DIS)	<0.005					
Cadmium (Cd) (DIS)	<0.004	<0.001	<0.001	0.001	<0.005	<0.001
Chromium (Cr) (DIS)	<0.008					
Cobalt (Co) (DIS)	<0.02					
Copper (Cu) (DIS)	0.2		0.09		0.04	
Iron (Fe +2) (TOT)				0.05		0.04
Iron (Fe) (DIS)	<0.04		<0.02	0.03	<0.03	0.03
Lead (Pb) (DIS)	<0.03	<0.005	0.006	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01		0.009		<0.004 M	
Mercury (Hg) (DIS)	0.0001					
Nickel (Ni) (DIS)	<0.02					
Selenium (Se) (DIS)	<0.004					
Silver (Ag) (DIS)	<0.01					
Thallium (Tl) (DIS)	<0.1					
Tin (Sn) (DIS)	<0.03					
Vanadium (V) (DIS)	<0.03					
Zinc (Zn) (DIS)	<0.01	0.008	<0.008	0.008	0.003 M	0.009

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)				2		2
pH	6.9		7.4		7.4	7.4
pH (Fld)				7.8		7.2
SC (umhos/cm at 25 C) (Fld)			515.6	511		513
SC (umhos/cm at 25 C)	227		572		550	550

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	401Gail	401Gail	401Gail	401Gail	401Gail
Water	SAMPLE DATE	5/14/1985	5/14/1985	10/14/1986	10/14/1986	10/14/1986
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	JTC	TSC-SLC	TSC-SLC	RMAL	TSC-SLC
	LAB NUMBER	8505-408	85-3626	86-6932	8610-117	86-6923
	SAMPLE NUMBER	AEH-8505-408	AEH-8505-456	AEH-8610-102	AEH-8610-117	AEH-8610-117
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS	Split		Field Duplicate	Split	

**Physical/Fld-Lab: ppm unless noted**

Total Suspended Solids	<1				
TDS (Measured at 180 C)	357	416		405	388
Water Temperature (C) (Fld)			10		10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	401Gail	401Gail	401Gail	401Gail	401Gail	401Gail
Water	SAMPLE DATE	4/28/1987	11/2/1987	4/7/1988	6/24/2002	6/24/2002	8/14/2002
	SAMPLE TIME	00:00	00:00	00:00	10:30	10:40	17:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-2846	87-10023	88-2625	L020496001	L020496002	L020658017
	SAMPLE NUMBER	AEH-8704-49	AEH-8710-58	AEH-8804-378	EHC-0205-239	EHC-0205-240	EHR-0208-116
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	134	138	110 J			
Calcium (Ca) (DIS)			74.5			
Carbonate As CO3			<1 J			
Chloride (Cl)			16			
Magnesium (Mg) (DIS)			16			
Potassium (K) (DIS)			5.4			
Sodium (Na) (DIS)			21.3			
Sulfate (SO4)	160	165	133 J	191	206	212

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.006	<0.006	<0.01	<0.002	<0.002	<0.005
Arsenic III (dis)	0.01	<0.008	<0.008			
Arsenic V (dis)	0.02	0.04	0.01			
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001			
Copper (Cu) (DIS)		<0.008				
Iron (Fe +2) (TOT)	<0.01	<0.01	<0.01			
Iron (Fe) (DIS)	<0.02	0.03	0.03 J			
Lead (Pb) (DIS)	<0.005 M	<0.005	<0.005			
Manganese (Mn) (DIS)		0.003				
Zinc (Zn) (DIS)	0.009 M	0.01 M	0.008			

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	3.1	3	3.7	3.2	3.2	
pH	7.01	7.9 M	7.3			
Depth To Water Level (ft)		39.5	45.06			
pH (Fid)	6.2	6.09	7.08	6.2	6.3	7.3
SC (umhos/cm at 25 C) (Fid)	552	577.1	574.1	669	670	580
SC (umhos/cm at 25 C)	540	610	520			
TDS (Measured at 180 C)	403	436	420 J	527 J	524 J	579
Water Temperature (C) (Fid)	12	10.8	10	18.5	18.5	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	401Gail	401Gail	401Gail	401Gail	401Gail	401Gail
Water	SAMPLE DATE	10/31/2002	12/12/2002	5/1/2003	7/23/2003	9/10/2003	9/10/2003
	SAMPLE TIME	18:00	17:45	10:15	17:10	10:45	11:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L020916001	L021035001	L030190001	L030359006	L030504002	L030504003
	SAMPLE NUMBER	EHR-0210-111	EHR-0212-110	EHR-0305-100	EHR-0307-206	EHR-0903-101	EHR-0903-102
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	142		153			
Calcium (Ca) (DIS)	93		92			
Carbonate As CO3	<1		<2			
Chloride (Cl)	29		24			
Magnesium (Mg) (DIS)	20		21			
Potassium (K) (DIS)	6.2		6.3			
Sodium (Na) (DIS)	25		25			
Sulfate (SO4)	229	220	199	185 J	205	220
Total Alkalinity As CaCO3	116		125			

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05					
Arsenic (As) (DIS)	<0.005	<0.002	<0.005	<0.002	<0.002	<0.002
Arsenic III (dis)			<0.005			
Arsenic V (dis)			<0.005			
Cadmium (Cd) (DIS)	<0.001		<0.001			
Copper (Cu) (DIS)	0.01		0.007			
Iron (Fe) (DIS)	<0.02		0.03			
Lead (Pb) (DIS)	<0.005		<0.005			
Manganese (Mn) (DIS)	<0.02		<0.02			
Zinc (Zn) (DIS)	0.04		0.04			

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)			2	1.9		
pH	7.5		7.5			
Silicon+Silica (Si+SiO2)	44					
pH (Fld)	6.3		5.7	7.06		
SC (umhos/cm at 25 C) (Fld)	727		620	767		
SC (umhos/cm at 25 C)	732		738			
Total Suspended Solids	<1		<1			
TDS (Measured at 180 C)	524	547 J	531	562	550	540
Water Temperature (C) (Fld)			11.4	15.2		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	401Gail	401Gail	401Gail	401Gail	401Gail	401Gail
Water	SAMPLE DATE	10/22/2003	5/26/2004	7/22/2004	9/9/2004	11/5/2004	1/23/2005
	SAMPLE TIME	17:10	17:30	12:00	05:00	08:00	13:00
	LAB	TSC-SLC	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	L030590001	H04050192-008	H04070156-006	H04090066-006	H04110051-001	H05010131-003
	SAMPLE NUMBER	EHC-0310-310	EHR-0504-320	EHR-0704-305	EHR-0904-305	EHR-1104-300	EHR-0105-302
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)			160				
Calcium (Ca) (DIS)			101				
Chloride (Cl)			34				
Magnesium (Mg) (DIS)			21				
Potassium (K) (DIS)			6				
Sodium (Na) (DIS)			25 UJ				
Sulfate (SO4)	211	240		220	219	214	216
Total Alkalinity As CaCO3		130					

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.002	<0.002		0.002	<0.002	<0.002	<0.002
Arsenic III (dis)		<0.001					
Arsenic V (dis)		<0.001					
Cadmium (Cd) (DIS)		<0.001					
Copper (Cu) (DIS)		0.005					
Iron (Fe) (DIS)		0.05					
Lead (Pb) (DIS)		<0.005					
Manganese (Mn) (DIS)		0.03					
Zinc (Zn) (DIS)		0.02					

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.7	6.03					
pH		7.5					
pH (Fld)	7	6.5	6.27	6.13	6.26	6.49	
SC (umhos/cm at 25 C) (Fld)		920	966	877	835	980	
SC (umhos/cm at 25 C)	734	695					
Total Suspended Solids		<10					
TDS (Measured at 180 C)	543	520	566	548	559	530	
Water Temperature (C) (Fld)	12.5	11.9					

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	401Gail	401Gail	401Gail	401Gail	401Gail	401Gail
Water	SAMPLE DATE	1/23/2005	3/16/2005	3/31/2005	3/31/2005	5/4/2005	7/20/2005
	SAMPLE TIME	13:15	16:45	17:20	17:25	08:00	08:00
	LAB	ELI	ELI	ELI	ELI	ELI-Casper	ELI-Hel
	LAB NUMBER	H05010131-004	H05030118-004	H05040005-002	H05040005-003	C05050186-005	H05070155-001
	SAMPLE NUMBER	EHR-0105-303	EHR-0305-303	EHR-0305-305	EHR-0305-306	EHR-0505-304	EHR-0705-300
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION		Backyard Spigot	Backyard Spigot	Backyard Spigot		
	REMARKS	Field Duplicate			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)						150	
Calcium (Ca) (DIS)						95	
Chloride (Cl)						30	
Magnesium (Mg) (DIS)						21	
Potassium (K) (DIS)						5	
Sodium (Na) (DIS)						21	
Sulfate (SO4)			218	194		221	227
Total Alkalinity As CaCO3						123	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Arsenic III (dis)						<0.005	
Arsenic V (dis)						<0.005	
Cadmium (Cd) (DIS)						<0.001	
Copper (Cu) (DIS)						0.006	
Iron (Fe) (DIS)						0.04 J	
Lead (Pb) (DIS)						<0.005	
Manganese (Mn) (DIS)						<0.02	
Zinc (Zn) (DIS)						0.04	

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)						6.54	
pH						7.15	
pH (Fld)		6.19	6.35			6.96	6.67
SC (umhos/cm at 25 C) (Fld)		993	910			692	683
SC (umhos/cm at 25 C)						768	
Total Suspended Solids						<10	
TDS (Measured at 180 C)		538	503			535	559
Water Temperature (C) (Fld)						11.2	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	401Gail	401Gail	401Gail	401Gail	401Gail	401Gail
Water	SAMPLE DATE	7/20/2005	9/8/2005	11/2/2005	11/17/2005	1/12/2006	1/12/2006
	SAMPLE TIME	08:15	08:00	08:15	08:20	17:15	17:30
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel
	LAB NUMBER	H05070155-002	H05090071-001	H05110021-001	H05110148-001	H06010094-002	H06010094-003
	SAMPLE NUMBER	EHR-0705-301	EHR-0905-300	EHR-1105-300	EHR-1105-304	EHR-0106-301	EHR-0106-302
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION				ReSamp		
	REMARKS	Field Duplicate					Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Sulfate (SO4)		218	241	228	236	
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.002	<0.002	0.002	0.002	<0.002	<0.002
	Iron (Fe) (TOT)				1.55		
<b>Physical/Fld-Lab: ppm unless noted</b>							
	pH (Fld)		7.11	7.01	7.32	6.94	
	SC (umhos/cm at 25 C) (Fld)		618	601	673	640	
	TDS (Measured at 180 C)		543	549	524	530	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	401Gail	401Gail	401Gail	401Gail	401Gail	401Gail
Water	SAMPLE DATE	3/9/2006	5/4/2006	7/12/2006	9/18/2006	10/23/2006	10/23/2006
	SAMPLE TIME	17:15	17:00	17:00	17:00	16:15	16:15
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel
	LAB NUMBER	H06030070-002	C06050292-020	H06070114-007	H06090133-006	H06100221-001	H06100221-001
	SAMPLE NUMBER	EHR-0306-301	EHR-0506-319	EHR-0706-306	EHR-0906-305	EHR-1006-300	EHR-1006-300
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		151				150	150
Calcium (Ca) (DIS)		95				79	79
Chloride (Cl)		27				30	30
Magnesium (Mg) (DIS)		22				17	17
Potassium (K) (DIS)		5				6	6
Sodium (Na) (DIS)		24				23	23
Sulfate (SO4)	262	230		259	235	213	213
Total Alkalinity As CaCO3		124				130	130

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.002	<0.002		0.002	0.003	0.002	0.002
Arsenic III (dis)		<0.005					
Arsenic V (dis)		<0.005					
Cadmium (Cd) (DIS)		<0.001				<0.001	<0.001
Copper (Cu) (DIS)		0.008				<0.004	<0.004
Iron (Fe) (DIS)		0.05				0.04	0.04
Iron (Fe) (TOT)	0.29						
Lead (Pb) (DIS)		<0.005				<0.005	<0.005
Manganese (Mn) (DIS)		<0.02				<0.01	<0.01
Zinc (Zn) (DIS)		0.03				0.03	0.03

**Nutrients: ppm unless noted**

Total Organic Carbon						<0.5	<0.5
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		5.38				13.36	13.36
pH		7.36				7.2	7.2
pH (Fld)	7.16	7.3		7.3	7.17	7.16	7.16
SC (umhos/cm at 25 C) (Fld)	650	620		648	558	524	524
SC (umhos/cm at 25 C)		725				737	737
Total Suspended Solids		<10				<10	<10
TDS (Measured at 180 C)	527	522		553	550	537	537
TDS - Calculated		525					
Water Temperature (C) (Fld)		12.7				11.6	11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	401Gail	401Gail	401Gail	401Gail	401Gail	401Gail
Water	SAMPLE DATE	10/23/2006	11/24/2006	11/24/2006	12/21/2006	12/21/2006	1/5/2007
	SAMPLE TIME	16:35	14:30	14:40	17:20	17:30	17:00
	LAB	ELI-Hel	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06100221-002	H06110205-001	H06110205-002	H06120180-002	H06120180-003	H07010030-002
	SAMPLE NUMBER	EHR-1006-301	EHR-1106-300	EHR-1106-301	EHR-1206-301	EHR-1206-302	EHR-0107-301
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS			Field Duplicate		Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	160	150	150	150	150	150	
Calcium (Ca) (DIS)	100	99	91	102	98	96	
Chloride (Cl)	29	28	28	30	28	29	
Magnesium (Mg) (DIS)	21	20	19	22	21	20	
Potassium (K) (DIS)	6	6	6	6	6	6	
Sodium (Na) (DIS)	25	25	24	25	25	25	
Sulfate (SO4)	215	198	184	226	215	218	
Total Alkalinity As CaCO3	130	120	120	120	120	120	
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)	0.003	<0.002	<0.002	<0.002	0.002	0.002	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Iron (Fe) (DIS)	0.05	0.12	0.1	0.36	0.36	0.36	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese (Mn) (DIS)	<0.01	0.04	0.04	0.03	0.03	0.03	
Selenium (Se) (DIS)				0.014	0.016	0.015	
Zinc (Zn) (DIS)	0.03	0.02	0.02	0.03	0.04	0.03	
<b>Nutrients: ppm unless noted</b>							
Total Organic Carbon	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	14.98	11.05		6.71		8.8	
pH	7.1	7.5	7.5	7.2	7.3	7.4	
pH (Fld)	7.35	7.29		7.06		7.49	
SC (umhos/cm at 25 C) (Fld)	516	638		631		671	
SC (umhos/cm at 25 C)	740	722	719	747	728	744	
Total Suspended Solids	<10	<10	<10	<10	<10	<10	
TDS (Measured at 180 C)	538	520	518	556	532	542	
Water Temperature (C) (Fld)	11.6	11.4		11.4		11.2	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	401Gail	401Gail	401Gail	401Gail	401Gail	401Gail
Water	SAMPLE DATE	1/5/2007	2/5/2007	2/5/2007	3/4/2007	3/4/2007	4/1/2007
	SAMPLE TIME	17:05	17:20	17:30	13:10	13:20	16:30
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07010030-003	H07020039-001	H07020039-002	H07030014-002	H07030014-003	H07040029-001
	SAMPLE NUMBER	EHR-0107-302	EHR-0207-300	EHR-0207-301	EHR-0307-301	EHR-0307-302	EHR-0407-300
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate		Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	150	150	150	150	150	150
Calcium (Ca) (DIS)	96	98	100	97	96	92
Chloride (Cl)	29	30	29	29	31	30
Magnesium (Mg) (DIS)	20	21	21	22	22	20
Potassium (K) (DIS)	6	6	6	6	6	6
Sodium (Na) (DIS)	25	25	25	24	24	27
Sulfate (SO4)	222	230	225	247	243	192
Total Alkalinity As CaCO3	120	120	120	120	120	120

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.002	0.002	0.003	<0.002	<0.002	<0.002
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.37	0.11	0.1	0.39	0.4	0.26
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.03	0.02	0.02	0.03	0.02	0.02
Selenium (Se) (DIS)	0.015	0.016	0.019	0.009	0.008	0.016
Zinc (Zn) (DIS)	0.02	0.03	0.03	0.02	0.02	0.02

**Nutrients: ppm unless noted**

Total Organic Carbon	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
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**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		10.47		5.96		8.8
pH	7.5	7.2	7.3	7.4	7.4	7.4
pH (Fld)		6.91		7.22		6.99
SC (umhos/cm at 25 C) (Fld)		580		652		593
SC (umhos/cm at 25 C)	746	766	758	638	660	751
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	555	543	542	537	557	558
Water Temperature (C) (Fld)		11.7		11.1		11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	401Gail	401Gail	401Gail	401Gail	401Gail	401Gail
Water	SAMPLE DATE	4/1/2007	5/24/2007	5/24/2007	6/21/2007	7/13/2007	8/27/2007
	SAMPLE TIME	16:45	08:15	08:15	08:10	08:20	08:15
	LAB	ELI	EPA-R8	ELI	ELI	ELI	ELI
	LAB NUMBER	H07040029-002	8705007-01	H07050287-002	H07060248-001	H07070129-001	H07080262-001
	SAMPLE NUMBER	EHR-0407-301	EHR-0507-327	EHR-0507-327	EHR-0607-300	EHR-0707-300	EHR-0807-300
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION		EHR-0507-328				
	REMARKS	Field Duplicate	Split				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	150	150	150	160 UJ	150
Calcium (Ca) (DIS)	92	94	100 UJ	105 UJ	98
Chloride (Cl)	30	31	40 UJ	32 UJ	33
Magnesium (Mg) (DIS)	20	21	22 UJ	22 UJ	21
Potassium (K) (DIS)	6	5	6	6 UJ	6
Sodium (Na) (DIS)	27	26	24 UJ	26 UJ	26
Sulfate (SO4)	190	232	194	251	260
Total Alkalinity As CaCO3	120	130	120 UJ	130 UJ	130

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)			<0.005		
Selenium-VI (DIS)			0.0074		
Aluminum (Al) (DIS)		<0.1	<0.1		
Antimony (Sb) (DIS)		0.0015	<0.005		
Arsenic (As) (DIS)	<0.002	0.0063	<0.002	0.002	0.003
Arsenic III (DIS)			<0.005		
Arsenic V (DIS)			<0.005		
Barium (Ba) (DIS)		0.058	<0.1		
Beryllium (Be) (DIS)		<0.001	<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.0002	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.002	<0.001		
Cobalt (Co) (DIS)		<0.002	<0.01		
Copper (Cu) (DIS)	<0.004	<0.01	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.27	0.316	0.3	0.2	0.04
Lead (Pb) (DIS)	<0.005	<0.001	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.02	0.022	0.02	0.01	<0.01
Mercury (Hg) (DIS)		<0.0001	<0.006		
Nickel (Ni) (DIS)		0.0038	<0.01		
Selenium (Se) (DIS)	0.014	0.0319	<0.005	0.014	0.019
Silver (Ag) (DIS)		<0.0005	<0.005 J-		
Thallium (Tl) (DIS)		<0.0003	<0.002		
Tin (Sn) (DIS)		<0.2	<0.1		
Vanadium (V) (DIS)		<0.01	<0.01		
Zinc (Zn) (DIS)	0.02	<0.04	<0.01	0.03	<0.01

**Nutrients: ppm unless noted**

Total Organic Carbon	<0.5	<0.5
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**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		6.56	6.6	7.76	5.43
pH	7.4	7.2	7.4	7.3	7.4
pH (Fld)		7.17	7.12	7.15	6.84
SC (umhos/cm at 25 C) (Fld)		588	565	572 UJ	629

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	401Gail	401Gail	401Gail	401Gail	401Gail
Water	SAMPLE DATE	4/1/2007	5/24/2007	6/21/2007	7/13/2007	8/27/2007
	SAMPLE TIME	16:45	08:15	08:10	08:20	08:15
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07040029-002	H07050287-002	H07060248-001	H07070129-001	H07080262-001
	SAMPLE NUMBER	EHR-0407-301	EHR-0507-327	EHR-0607-300	EHR-0707-300	EHR-0807-300
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS	Field Duplicate				

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C)	736	748	724 UJ	852	757
Total Suspended Solids	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	547	559	554 UJ	589 UJ	590
Water Temperature (C) (Fld)		11.3	12	12.4	11.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	401Gail	401Gail	401Gail	401Gail	401Gail	401Gail
Water	SAMPLE DATE	9/27/2007	9/27/2007	10/8/2007	11/8/2007	11/8/2007	12/13/2007
	SAMPLE TIME	08:20	08:30	12:00	08:15	08:30	07:30
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07090318-001	H07090318-002	H07100105-001	H07110071-001	H07110071-002	H07120163-001
	SAMPLE NUMBER	EHR-0907-300	EHR-0907-301	EHR-1007-300	EHR-1107-308	EHR-1107-309	EHR-1207-300
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)		160	160	160	150	150	
Bicarbonate (HCO3) (Dis)							150
Calcium (Ca) (DIS)		96	97	83	98	98	97
Chloride (Cl)		33	33	31	33	35	31
Magnesium (Mg) (DIS)		21	21	17	22	22	21
Potassium (K) (DIS)		6	6	4	6	6	6
Sodium (Na) (DIS)		23	23	20	26	25	24
Sulfate (SO4)		285	276	225	221	214	272
Total Alkalinity As CaCO3		130	130	130	120	120	120
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)		0.003	0.003	0.003	0.003	0.003	0.005
Cadmium (Cd) (DIS)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)		0.09 UJ	0.09 UJ	0.04 UJ	0.23	0.24	0.22
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		0.02	0.02	<0.01	0.02	0.02	0.02
Selenium (Se) (DIS)		0.02	0.022	0.019	0.022	0.02	0.018
Zinc (Zn) (DIS)		0.03	0.03	0.03	0.03	0.03	0.03
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)		5.24		6.17	6.4		8.08
pH		7.1	7.2	7.2	7.3	7.3	7.6
pH (Fld)		6.94		6.84	7.03		7.07
SC (umhos/cm at 25 C) (Fld)		625		635	558		641
SC (umhos/cm at 25 C)		761	756	716	750	744	674
Total Suspended Solids		<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)		569	573	547	555	544	542
Water Temperature (C) (Fld)		11.7		12.1	11.7		11.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	401Gail	401Gail	401Gail	401Gail	401Gail	401Gail
Water	SAMPLE DATE	1/8/2008	2/6/2008	2/6/2008	3/11/2008	4/10/2008	5/24/2008
	SAMPLE TIME	07:00	08:10	08:10	08:10	08:30	13:30
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08010067-001	H08020045-001	H08020045-002	H08030167-003	H08040188-001	H08050424-001
	SAMPLE NUMBER	EHR-0108-300	EHR-0208-300	EHR-0208-301	EHR-0308-302	EHR-0408-300	EHR-0508-324
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS			Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	150	160	150	150	140	150
Calcium (Ca) (DIS)	91	92	91	100	93	110
Chloride (Cl)	31	30	31	30	29	30
Magnesium (Mg) (DIS)	20	20	20	22	20	24
Potassium (K) (DIS)	6	6	6	6	6	6
Sodium (Na) (DIS)	23	23	24	26	24	25
Sulfate (SO4)	193	187	188	220	220	230
Total Alkalinity As CaCO3	120	130	120	130	110	130

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)						<0.1
Antimony (Sb) (DIS)						<0.005
Arsenic (As) (DIS)	0.002	0.002	0.003	0.004	<0.002	0.002
Barium (Ba) (DIS)						<0.1
Beryllium (Be) (DIS)						<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)						<0.001
Cobalt (Co) (DIS)						<0.01
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.21	0.11	0.11	<0.02	0.24	0.15
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.02	0.02	0.02	0.02	0.02	0.02
Mercury (Hg) (DIS)						<0.006
Nickel (Ni) (DIS)						<0.01
Selenium (Se) (DIS)	0.019	0.018	0.019	0.023	0.013	0.023
Silver (Ag) (DIS)						<0.005
Thallium (Tl) (DIS)						<0.002
Tin (Sn) (DIS)						<0.1
Vanadium (V) (DIS)						<0.01
Zinc (Zn) (DIS)	0.03	0.03	0.03	0.03	0.03	0.04

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	8.6	8.08		6.43	6.82	6.73
pH	7.5	7.3	7.4	7.1	7.5	7.3
pH (Fid)	6.87	7.01		6.87	7.15	6.87
SC (umhos/cm at 25 C) (Fid)	734	623		585	589	685
SC (umhos/cm at 25 C)	754	758	760	775	761	716
Total Suspended Solids	<10	<10	<10	<10	<10	<10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	401Gail	401Gail	401Gail	401Gail	401Gail	401Gail
Water	SAMPLE DATE	1/8/2008	2/6/2008	2/6/2008	3/11/2008	4/10/2008	5/24/2008
	SAMPLE TIME	07:00	08:10	08:10	08:10	08:30	13:30
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08010067-001	H08020045-001	H08020045-002	H08030167-003	H08040188-001	H08050424-001
	SAMPLE NUMBER	EHR-0108-300	EHR-0208-300	EHR-0208-301	EHR-0308-302	EHR-0408-300	EHR-0508-324
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS			Field Duplicate			
<b>Physical/Fld-Lab: ppm unless noted</b>							
	TDS (Measured at 180 C)	531	546	545	543	557	583
	Water Temperature (C) (Fld)	12	12.3		11.4	12	11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	401Gail	401Gail	401Gail	401Gail	401Gail	401Gail
Water	SAMPLE DATE	5/24/2008	6/11/2008	7/8/2008	8/6/2008	9/28/2008	9/28/2008
	SAMPLE TIME	13:45	08:15	14:25	12:00	08:30	08:40
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08050424-002	H08060234-001	H08070151-003	H08080096-001	H08090485-001	H08090485-002
	SAMPLE NUMBER	EHR-0508-325	EHR-0608-300	EHR-0708-302	EHR-0808-300	EHR-0908-300	EHR-0908-301
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS	Field Duplicate					Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	150	150	150	150	150	150
Calcium (Ca) (DIS)	109	95	93	110	102	103
Chloride (Cl)	31	31	28	30	27	27
Magnesium (Mg) (DIS)	24	21	20	24	22	21
Potassium (K) (DIS)	6	6	6	6	6	6
Sodium (Na) (DIS)	24	24	24	23	25	25
Sulfate (SO4)	230	230	220	240	230	230
Total Alkalinity As CaCO3	130	120	120	120	120	120

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1					
Antimony (Sb) (DIS)	<0.005					
Arsenic (As) (DIS)	0.002	0.002	0.004	0.003	<0.002	<0.002
Barium (Ba) (DIS)	<0.1					
Beryllium (Be) (DIS)	<0.001					
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001					
Cobalt (Co) (DIS)	<0.01					
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.13	0.03	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.02	0.02	<0.01	<0.01	<0.015	<0.015
Mercury (Hg) (DIS)	<0.006					
Nickel (Ni) (DIS)	<0.01					
Selenium (Se) (DIS)	0.021	0.016	0.027	0.027	0.017	0.018
Silver (Ag) (DIS)	<0.005					
Thallium (Tl) (DIS)	<0.002					
Tin (Sn) (DIS)	<0.1					
Vanadium (V) (DIS)	<0.01					
Zinc (Zn) (DIS)	0.04	0.03	0.02	0.03	0.03	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		6.96	8.99	9.02	12.02	
pH	7.3	7.3	7.1	7.4	7.2	7.2
pH (Fld)		6.84	6.7	6.88	6.78	
SC (umhos/cm at 25 C) (Fld)		626	627	634	590	
SC (umhos/cm at 25 C)	713	732	714	757	779	784
Total Suspended Solids	<10	<10	<10	<10	<10	<10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	401Gail	401Gail	401Gail	401Gail	401Gail	401Gail	
Water	SAMPLE DATE	5/24/2008	6/11/2008	7/8/2008	8/6/2008	9/28/2008	9/28/2008	
	SAMPLE TIME	13:45	08:15	14:25	12:00	08:30	08:40	
	LAB	ELI	ELI	ELI	ELI	ELI	ELI	
	LAB NUMBER	H08050424-002	H08060234-001	H08070151-003	H08080096-001	H08090485-001	H08090485-002	
	SAMPLE NUMBER	EHR-0508-325	EHR-0608-300	EHR-0708-302	EHR-0808-300	EHR-0908-300	EHR-0908-301	
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	
	DESCRIPTION							
	REMARKS	Field Duplicate					Field Duplicate	
<b>Physical/Fld-Lab: ppm unless noted</b>								
	TDS (Measured at 180 C)	576	561	531	537	550	560	
	Water Temperature (C) (Fld)		12	11.7	12.6	11.8		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	401Gail	401Gail	401Gail	401Gail	401Gail	401Gail
Water	SAMPLE DATE	10/13/2008	11/11/2008	11/11/2008	12/9/2008	1/19/2009	1/19/2009
	SAMPLE TIME	11:00	11:15	11:30	17:10	11:30	11:45
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H08100167-003	H08110125-001	H08110125-002	H08120092-003	H09010129-002	H09010129-003
	SAMPLE NUMBER	EHR-1008-302	EHR-1108-300	EHR-1108-301	EHR-1208-302	EHR-0109-301	EHR-0109-302
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS			Field Duplicate			Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	160	150	150	150	150	150
Calcium (Ca) (DIS)	96	101	98	95	92	93
Chloride (Cl)	26	31	31	29	27	27
Magnesium (Mg) (DIS)	21	22	21	21	20	20
Potassium (K) (DIS)	6	6	6	6	6	6
Sodium (Na) (DIS)	25	25	26	24	25	25
Sulfate (SO4)	250	240	240	230	230	230
Total Alkalinity As CaCO3	130	130	130	120	120	120

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.0027	0.003	0.002	<0.002	0.003	0.002
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	0.004	<0.004
Iron (Fe) (DIS)	0.02	0.36	0.35	0.09	0.05	0.05
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.015	0.03	0.03	0.02	0.02	0.02
Selenium (Se) (DIS)	0.0233	0.017	0.016	0.015	0.022	0.018
Zinc (Zn) (DIS)	0.056	0.04	0.04	0.04	0.05	0.05

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	8.54	14.85		8.95	11.02	
pH	7.4	7.3	7.3	7.2	7.2	7.2
pH (Fld)	6.75	6.79		7.44	6.99	
SC (umhos/cm at 25 C) (Fld)	580	581		569	547	
SC (umhos/cm at 25 C)	786	802	801	693	783	785
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	567	554	562	532	555	523
Water Temperature (C) (Fld)	11.5	12.1		11.3	11.4	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	401Gail	401Gail	401Gail	401Gail	401Gail	401Gail
Water	SAMPLE DATE	2/11/2009	3/21/2009	4/14/2009	5/19/2009	6/5/2009	7/3/2009
	SAMPLE TIME	08:00	13:00	08:10	08:20	07:35	08:10
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H09020112-001	H09030172-001	H09040136-001	H09050267-001	H09060109-001	H09070071-001
	SAMPLE NUMBER	EHR-0209-300	EHR-0309-300	EHR-0409-300	EHR-0509-315	EHR-0609-300	EHR-0709-300
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)		150	150	140	150	150	150
Calcium (Ca) (DIS)		98	98	95	92	104	93
Chloride (Cl)		30	28	27	26	30	25
Magnesium (Mg) (DIS)		21	21	22	21	24	22
Potassium (K) (DIS)		6	6	6	6	6	6
Sodium (Na) (DIS)		25	25	26	23	25	24
Sulfate (SO4)		240	230	220	230	270	230
Total Alkalinity As CaCO3		130	120	110	120	120	120
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (DIS)					<0.1	<0.1	<0.1
Antimony (Sb) (DIS)					<0.003	<0.003	<0.003
Arsenic (As) (DIS)		0.003	0.005	0.003	0.003	0.003	0.002
Barium (Ba) (DIS)					<0.1	<0.1	<0.1
Beryllium (Be) (DIS)					<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)		<0.001	<0.001	<0.001	0.001	<0.001	<0.001
Chromium (Cr) (DIS)					<0.001	<0.001	<0.001
Cobalt (Co) (DIS)					<0.01	<0.01	<0.01
Copper (Cu) (DIS)		0.004	0.001	0.004	0.004	0.002	0.002
Gold (Au) (DIS)					<0.01	<0.01 UJ	<0.01 UJ
Iron (Fe) (DIS)		<0.02	0.26	0.31	0.19	0.03	<0.02
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		0.01	0.03	0.03	0.03	0.02	<0.01
Mercury (Hg) (DIS)					<0.001	<0.001	<0.001
Nickel (Ni) (DIS)					<0.01	<0.01	<0.01
Selenium (Se) (DIS)		0.015	0.029	0.023	0.027	0.023	0.021 J
Silver (Ag) (DIS)					<0.005 R	<0.005 UJ	<0.005
Tellurium (Te) (DIS)					<0.1	<0.1 UJ	<0.1
Thallium (Tl) (DIS)					<0.001	<0.001	<0.001
Vanadium (V) (DIS)					<0.01	<0.01	<0.01
Zinc (Zn) (DIS)		0.04	0.04	0.04	0.04	0.02	0.02
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)				9.36	6.77	5.5	5.87
pH		7.4	7.2	7.2	7.4	7.7	7.2
pH (Fld)		6.62	6.45	5.94	6.79	6.73	6.69
SC (umhos/cm at 25 C) (Fld)		530	518	741	5.02	550	506
SC (umhos/cm at 25 C)		699	758	744	740	787	747

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	401Gail	401Gail	401Gail	401Gail	401Gail	401Gail
Water	SAMPLE DATE	2/11/2009	3/21/2009	4/14/2009	5/19/2009	6/5/2009	7/3/2009
	SAMPLE TIME	08:00	13:00	08:10	08:20	07:35	08:10
	LAB	ELI	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H09020112-001	H09030172-001	H09040136-001	H09050267-001	H09060109-001	H09070071-001
	SAMPLE NUMBER	EHR-0209-300	EHR-0309-300	EHR-0409-300	EHR-0509-315	EHR-0609-300	EHR-0709-300
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Total Suspended Solids	<10	<10	<10	<10	<10	<10
	TDS (Measured at 180 C)	553	527	529	528	592	540
	Water Temperature (C) (Fld)	11.7	11.8	11.3	11.9	11.8	11.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	401Gail	401SSGail	401SSGail	401SSGail
Water	SAMPLE DATE	8/7/2009	3/31/2005	11/17/2005	11/17/2005
	SAMPLE TIME	08:10	17:10	08:30	08:35
	LAB	ELI	ELI	ELI-Hel	ELI-Hel
	LAB NUMBER	H09080098-001	H05040005-001	H05110148-002	H05110148-003
	SAMPLE NUMBER	EHR-0809-300	EHR-0305-304	EHR-1105-305	EHR-1105-306
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION		So. Side Spigot		
	REMARKS				Field Duplicate

### Common Ions (mg/L): ppm unless noted

Bicarbonate (HCO3)	150			
Calcium (Ca) (DIS)	100			
Chloride (Cl)	27			
Magnesium (Mg) (DIS)	22			
Potassium (K) (DIS)	6			
Sodium (Na) (DIS)	25			
Sulfate (SO4)	240	222	225	
Total Alkalinity As CaCO3	120			

### Metals (mg/L): ppm unless noted

Aluminum (Al) (DIS)	<0.1			
Antimony (Sb) (DIS)	<0.003			
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	0.002
Barium (Ba) (DIS)	<0.1			
Beryllium (Be) (DIS)	<0.001			
Cadmium (Cd) (DIS)	<0.001			
Chromium (Cr) (DIS)	0.001			
Cobalt (Co) (DIS)	<0.01			
Copper (Cu) (DIS)	0.003			
Gold (Au) (DIS)	<0.01			
Iron (Fe) (DIS)	0.6			
Iron (Fe) (TOT)			0.98	
Lead (Pb) (DIS)	<0.005			
Manganese (Mn) (DIS)	0.02			
Mercury (Hg) (DIS)	<0.001			
Nickel (Ni) (DIS)	<0.01			
Selenium (Se) (DIS)	0.016			
Silver (Ag) (DIS)	<0.005			
Tellurium (Te) (DIS)	<0.1			
Thallium (Tl) (DIS)	<0.001			
Vanadium (V) (DIS)	<0.01			
Zinc (Zn) (DIS)	0.04			

### Physical/Fid-Lab: ppm unless noted

Oxygen (O) (DIS) (Fld)	5.48		
pH	7.2		
pH (Fld)	6.68	6.17	7.3
SC (umhos/cm at 25 C) (Fld)	493	983	655
SC (umhos/cm at 25 C)	786		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	401Gail	401SSGail	401SSGail
Water	SAMPLE DATE	8/7/2009	3/31/2005	11/17/2005
	SAMPLE TIME	08:10	17:10	08:30
	LAB	ELI	ELI	ELI-Hel
	LAB NUMBER	H09080098-001	H05040005-001	H05110148-002
	SAMPLE NUMBER	EHR-0809-300	EHR-0305-304	EHR-1105-305
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION		So. Side Spigot	
	REMARKS			

**Physical/Fid-Lab: ppm unless noted**

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Total Suspended Solids	<10		
TDS (Measured at 180 C)	566	527	512
Water Temperature (C) (Fld)	11.9		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	407Porter	407Porter	407Porter	407Porter	407Porter	407Porter
Water	SAMPLE DATE	1/26/1983	11/3/1984	11/4/1984	5/13/1985	10/10/1986	10/10/1986
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	RMAL	TSC-SLC
	LAB NUMBER	HYD-9086	84-10843	84-10851	85-3618	8610-109	86-6897
	SAMPLE NUMBER	AEH-8301-03	AEH-8411-3	AEH-8411-11	AEH-8505-415	AEH-8610-109	AEH-8610-109
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS			Field Duplicate		Split	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)		231	181		137	175
	Calcium (Ca) (DIS)		59	56		59.4	
	Carbonate As CO3					<5	
	Chloride (Cl)		3.8	3.8		4.2	
	Magnesium (Mg) (DIS)		14	14		14	
	Potassium (K) (DIS)		4	4.1		3.5	
	Sodium (Na) (DIS)		2.4	24		26.8	
	Sulfate (SO4)		115	108		97	95
	Total Alkalinity As CACO3		189	148			
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.01	<0.006
	Arsenic III (dis)						<0.008
	Arsenic V (dis)						<0.008
	Cadmium (Cd) (DIS)	<0.002	<0.001	0.003	<0.001	<0.005 M	<0.001
	Copper (Cu) (DIS)	0.03	0.02	0.02		0.01	
	Iron (Fe +2) (TOT)						0.1 M
	Iron (Fe) (DIS)		0.04	0.08		<0.03	<0.02
	Lead (Pb) (DIS)	0.02	<0.005	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)		0.008	0.008		<0.004	
	Zinc (Zn) (DIS)	0.02	0.03	0.02	0.02	0.004	0.009
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)						4.4
	pH		7.6	7.6	7.5	6.9	6.9
	pH (Fld)						6.9 M
	SC (umhos/cm at 25 C) (Fld)		536.6	535.7	525.2		459
	SC (umhos/cm at 25 C)		580	550	582	485	485
	TDS (Measured at 180 C)		346	346	333	305	310
	Water Temperature (C) (Fld)						10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	407Porter	407Porter	407Porter	407Porter	407Porter	407Porter
Water	SAMPLE DATE	5/5/1987	5/5/1987	11/3/1987	11/3/1987	4/8/1988	4/8/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC
	LAB NUMBER	87-3024	87-3025	87-10018	8710-67	88-2627	88-2609
	SAMPLE NUMBER	AEH-8704-41	AEH-8704-64	AEH-8710-67	AEH-8710-67	AEH-8804-384	AEH-8804-386
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS		Field Duplicate		Split		Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	167		160	140	130 J	
Calcium (Ca) (DIS)	53.4			50.8	50	
Carbonate As CO3	<1			<5	<1 J	
Chloride (Cl)	3			3.7	2.8	
Magnesium (Mg) (DIS)	11.7			11.6	11	
Potassium (K) (DIS)	3.8			3.3	3.4	
Sodium (Na) (DIS)	22.5			22.8	22.8	
Sulfate (SO4)	85		78	75	74	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.01 M	<0.006 M	0.009	0.004	<0.006	<0.006
Arsenic III (dis)	<0.008	<0.008	<0.008		<0.008	<0.008
Arsenic V (dis)	0.01	0.02	0.05 M		0.01	0.01
Cadmium (Cd) (DIS)	0.001	<0.001	0.001	<0.0001	<0.001	<0.001
Copper (Cu) (DIS)	0.04	0.03	0.02	0.02		
Iron (Fe +2) (TOT)	<0.01	<0.01	<0.01		<0.01	<0.01
Iron (Fe) (DIS)	0.09 M	0.03	0.03	0.02	<0.02 J	<0.02 J
Lead (Pb) (DIS)	<0.005 M	<0.005 M	<0.005	0.003	<0.005	<0.005
Manganese (Mn) (DIS)	0.004	0.004	0.003	0.002		
Zinc (Zn) (DIS)	0.01	0.01	0.01	0.01	0.009	0.009

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	4.2	4.2	2.8		4.5	4.5
pH	7.05		7.9		7.5	
Depth To Water Level (ft)			20.8		23.1	23.1
pH (Fld)	7	7	6.9		6.7	6.7
SC (umhos/cm at 25 C) (Fld)	446.3	451.4	436		431.9	429.1
SC (umhos/cm at 25 C)	455		455		392 J	
TDS (Measured at 180 C)	334		300	270	258 J	
Water Temperature (C) (Fld)	10.7	10.7	10.4		9.2	9.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	407Porter	407Porter	407Porter	407Porter	407Porter	407Porter
Water	SAMPLE DATE	6/13/2001	1/15/2002	6/24/2002	8/13/2002	11/8/2002	12/11/2002
	SAMPLE TIME	19:30	11:45	19:15	17:00	10:15	14:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010825016	L020030001	L020496014	L020658015	L020937002	L021013001
	SAMPLE NUMBER	EHC-0106-114	EHC-0111-268	EHC-0205-255	EHR-0208-114	EHR-0210-113	EHR-0212-100
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	137	139			142	
Calcium (Ca) (DIS)	54	54			53	
Carbonate As CO3	<1	<1			<1	
Chloride (Cl)	20	27			19	
Magnesium (Mg) (DIS)	12	12			12	
Potassium (K) (DIS)	<5	<5			<5	
Sodium (Na) (DIS)	19	21			20	
Sulfate (SO4)	65	76	91	96	108	109
Total Alkalinity As CaCO3	112	114			116	

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05			<0.05	
Arsenic (As) (DIS)	<0.005	<0.005	<0.002	<0.005	<0.005	<0.002
Arsenic III (dis)	<0.005	<0.005				
Arsenic V (dis)	<0.005	<0.005				
Cadmium (Cd) (DIS)	<0.001	<0.001			<0.001	
Copper (Cu) (DIS)	0.02	0.3			0.02	
Iron (Fe) (DIS)	0.1	<0.02			<0.02	
Lead (Pb) (DIS)	<0.005	<0.005			<0.005	
Manganese (Mn) (DIS)	<0.02	<0.02			<0.02	
Zinc (Zn) (DIS)	<0.02	0.05			<0.02	

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	221.2	190.7				
Oxygen (O) (DIS) (Fld)	3.3	4.2	3.5		1.9	
pH	7.7	7.1			7.6	
Silicon+Silica (Si+SiO2)	18	18			17	
Eh (millivolts)	463	0.0				
pH (Fld)	6.7	7.9	7.2	8	5.9	
SC (umhos/cm at 25 C) (Fld)	369	516	461	353	451	478
SC (umhos/cm at 25 C)	453	466			488	
Total Suspended Solids	<1	<1			<1	
TDS (Measured at 180 C)	304	272	329 J	334	326	317
Water Temperature (C) (Fld)	11.7	12.7	13.9		15.3	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	407Porter	407Porter	407Porter	407Porter	407Porter	407Porter
Water	SAMPLE DATE	12/11/2002	5/1/2003	5/5/2004	5/25/2005	5/25/2005	5/4/2006
	SAMPLE TIME	14:45	11:50	12:30	08:20	08:30	10:40
	LAB	TSC-SLC	TSC-SLC	ELI	ELI-Casper	ELI-Casper	ELI-Hel
	LAB NUMBER	L021013002	L030190008	H04050036-009	C05050997-001	C05050997-002	C06050292-010
	SAMPLE NUMBER	EHR-0212-101	EHR-0305-107	EHR-0504-308	EHR-0505-316	EHR-0505-317	EHR-0506-309
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS	Field Duplicate				Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		146	160	144		146
Calcium (Ca) (DIS)		58	63	65		74
Carbonate As CO3		<2				
Chloride (Cl)		18	15	21		27
Magnesium (Mg) (DIS)		13	14	14		18
Potassium (K) (DIS)		<5	4 UJ	<5		<5
Sodium (Na) (DIS)		21	22 UJ	20		23
Sulfate (SO4)	104	115	110	104		149
Total Alkalinity As CaCO3		120	130	118		120

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.002	<0.005	<0.002	<0.002	<0.002	0.002
Arsenic III (dis)		<0.005		<0.005	<0.005	<0.005
Arsenic V (dis)		<0.005		<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)		<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)		0.03	0.016	0.012	0.012	0.011
Iron (Fe) (DIS)		<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)		<0.02	<0.01	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)		<0.02	<0.01	<0.02	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		3.7	6.9	7.04		7.8
pH		6.8	7.6	7.64		7.7
pH (Fld)		6.2	6.7	6.71		7.38
SC (umhos/cm at 25 C) (Fld)		418	650	466		503
SC (umhos/cm at 25 C)		503	437	535		574
Total Suspended Solids		<1	<10	<10		<10
TDS (Measured at 180 C)	321	314	348	370		366
TDS - Calculated						385
Salinity (G/KG) (Fld)			0.2			
Water Temperature (C) (Fld)		11.9	11.5	11.2		10.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	407Porter	407Porter	407Porter	407Porter	407Porter	407Porter
Water	SAMPLE DATE	5/24/2006	7/12/2006	7/12/2006	5/17/2007	6/21/2007	6/21/2007
	SAMPLE TIME	09:40	15:00	15:15	14:10	11:30	11:40
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	C06051139-005	H06070114-004	H06070114-005	H07050211-011	H07060248-006	H07060248-007
	SAMPLE NUMBER	EHR-0506-324	EHR-0706-303	EHR-0706-304	EHR-0507-310	EHR-0607-305	EHR-0607-306
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS			Field Duplicate			Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	133			140	140	140
Calcium (Ca) (DIS)	73			86	84 UJ	83 UJ
Chloride (Cl)	27			27	25 UJ	25 UJ
Magnesium (Mg) (DIS)	18			19	18 UJ	18 UJ
Potassium (K) (DIS)	<5			4	4	4
Sodium (Na) (DIS)	22			25	22 UJ	22 UJ
Sulfate (SO4)	153	133		187	159 UJ	163 UJ
Total Alkalinity As CaCO3	115			110	120 UJ	120 UJ

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)				<0.005		
Selenium-VI (DIS)				<0.005		
Aluminum (Al) (DIS)				<0.1		
Antimony (Sb) (DIS)				<0.005		
Arsenic (As) (DIS)	0.002	<0.002	<0.002	0.003	<0.002	<0.002
Arsenic III (dis)	<0.005			<0.005		
Arsenic V (dis)	<0.005			<0.005		
Barium (Ba) (DIS)				<0.1		
Beryllium (Be) (DIS)				<0.001		
Cadmium (Cd) (DIS)	<0.001			<0.001	<0.001	<0.001
Chromium (Cr) (DIS)				<0.001		
Cobalt (Co) (DIS)				<0.01		
Copper (Cu) (DIS)	0.011			0.009	0.004	0.004
Iron (Fe) (DIS)	<0.02			<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005			<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02			<0.01	<0.01	<0.01
Mercury (Hg) (DIS)				<0.006		
Nickel (Ni) (DIS)				<0.01		
Selenium (Se) (DIS)				0.012	0.007	0.007
Silver (Ag) (DIS)				<0.005 J-		
Thallium (Tl) (DIS)				<0.002		
Tin (Sn) (DIS)				<0.1		
Vanadium (V) (DIS)				<0.01		
Zinc (Zn) (DIS)	<0.02			<0.01	<0.02	<0.02

**Nutrients: ppm unless noted**

Total Organic Carbon				<0.5		
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**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	11.04			8.34	7.8	
pH	8.77			7.9	7.7	7.8
pH (Fld)	7.64	7.37		7.53	7.56	
SC (umhos/cm at 25 C) (Fld)	511	459		684	474	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	407Porter	407Porter	407Porter	407Porter	407Porter
Water	SAMPLE DATE	5/24/2006	7/12/2006	5/17/2007	6/21/2007	6/21/2007
	SAMPLE TIME	09:40	15:00	14:10	11:30	11:40
	LAB	ELI-Hel	ELI-Hel	ELI	ELI	ELI
	LAB NUMBER	C06051139-005	H06070114-004	H07050211-011	H07060248-006	H07060248-007
	SAMPLE NUMBER	EHR-0506-324	EHR-0706-303	EHR-0507-310	EHR-0607-305	EHR-0607-306
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS					Field Duplicate
<b>Physical/Fid-Lab: ppm unless noted</b>						
	SC (umhos/cm at 25 C)	582		626	626 UJ	632 UJ
	Total Suspended Solids	563		<10	<10	<10
	TDS (Measured at 180 C)	336	371	476	453 UJ	457 UJ
	TDS - Calculated	384				
	Water Temperature (C) (Fid)	11.2		11.4	11.6	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	407Porter	407Porter	409Gail	607Lewi
Water	SAMPLE DATE	5/13/2008	5/13/2009	5/22/2007	6/13/2001
	SAMPLE TIME	12:00	09:15	00:00	18:35
	LAB	ELI	ELI	Asarco	TSC-SLC
	LAB NUMBER	H08050220-011	H09050213-006	z	L010825015
	SAMPLE NUMBER	EHR-0508-310	EHR-0509-305	EHR-0507-Gail409	EHC-0106-141
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION		No Fld pH-Instr. Err	No Samp-Inop	
	REMARKS			No Sample	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	140	150	159
Calcium (Ca) (DIS)	89	88	68
Carbonate As CO3			<1
Chloride (Cl)	21	14	7.6
Magnesium (Mg) (DIS)	20	20	16
Potassium (K) (DIS)	4	4	<5
Sodium (Na) (DIS)	24	24	20
Sulfate (SO4)	220	210	116
Total Alkalinity As CaCO3	120	120	130

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.1	<0.05
Antimony (Sb) (DIS)	<0.005	<0.003	
Arsenic (As) (DIS)	<0.002	0.002	<0.005
Arsenic III (dis)			<0.005
Arsenic V (dis)			<0.005
Barium (Ba) (DIS)	<0.1	<0.1	
Beryllium (Be) (DIS)	<0.001	<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	
Cobalt (Co) (DIS)	<0.01	<0.01	
Copper (Cu) (DIS)	0.017	0.012	<0.004
Gold (Au) (DIS)		<0.01	
Iron (Fe) (DIS)	<0.02	<0.02	<0.05
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	0.02
Mercury (Hg) (DIS)	<0.006	<0.001	
Nickel (Ni) (DIS)	<0.01	<0.01	
Selenium (Se) (DIS)	0.006	0.012	
Silver (Ag) (DIS)	<0.005	<0.005	
Tellurium (Te) (DIS)		<0.1	
Thallium (Tl) (DIS)	<0.002	<0.001	
Tin (Sn) (DIS)	<0.1		
Vanadium (V) (DIS)	<0.01	<0.01	
Zinc (Zn) (DIS)	<0.01	<0.01	0.07

**Other: ppm unless noted**

No Analysis			0.0
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**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential			226.7
Oxygen (O) (DIS) (Fld)	8.69	5.42	4.5
pH	7.4	7.6	7.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	407Porter	407Porter	607Lewi
Water	SAMPLE DATE	5/13/2008	5/13/2009	6/13/2001
	SAMPLE TIME	12:00	09:15	18:35
	LAB	Hydrometrics	Hydrometrics	TSC-SLC
	LAB NUMBER	H08050220-011	H09050213-006	L010825015
	SAMPLE NUMBER	EHR-0508-310	EHR-0509-305	EHC-0106-141
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION		No fld pH-Instr. Err	
	REMARKS			

**Physical/Fld-Lab: ppm unless noted**

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Silicon+Silica (Si+SiO2)			23
Eh (millivolts)			468
pH (Fld)	7.8		6.7
SC (umhos/cm at 25 C) (Fld)	535	476	467
SC (umhos/cm at 25 C)	700	696	535
Total Suspended Solids	<10	<10	<1
TDS (Measured at 180 C)	497	467	369
Water Temperature (C) (Fld)	11.3	11.1	11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	607Lewi	607Lewi	607Lewi	607Lewi	607Lewi	607Lewi
Water	SAMPLE DATE	12/20/2001	6/24/2002	8/13/2002	10/30/2002	12/11/2002	5/1/2003
	SAMPLE TIME	14:15	17:00	12:10	10:00	16:30	16:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011668016	L020496013	L020658013	L020899006	L021013009	L030190014
	SAMPLE NUMBER	EHC-0111-263	EHC-0205-254	EHR-0208-112	EHR-0210-105	EHR-0212-108	EHR-0305-113
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	171			181		178
Calcium (Ca) (DIS)	64			68		64
Carbonate As CO3	<1			<1		<2
Chloride (Cl)	6			6.4		6.3
Magnesium (Mg) (DIS)	14			15		14
Potassium (K) (DIS)	<5			<5		<5
Sodium (Na) (DIS)	23			21		22
Sulfate (SO4)	101	120	102	96	104	112
Total Alkalinity As CACO3	140			148		146

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05			<0.05		<0.05
Arsenic (As) (DIS)	<0.005	<0.002	<0.005	<0.005	<0.002	<0.005
Arsenic III (dis)	<0.005					<0.005
Arsenic V (dis)	<0.005					<0.005
Cadmium (Cd) (DIS)	<0.001			<0.001		<0.001
Copper (Cu) (DIS)	<0.004			<0.004		<0.004
Iron (Fe) (DIS)	<0.02			<0.02		<0.02
Lead (Pb) (DIS)	<0.005			<0.005		<0.005
Manganese (Mn) (DIS)	0.02			<0.02		0.07
Zinc (Zn) (DIS)	0.5			0.07		0.04

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential	173.5					
Oxygen (O) (DIS) (Fld)	4.02	5.4				8.6
pH	6.7			7.3		7
Silicon+Silica (Si+SiO2)	24			23		
Eh (millivolts)	378					
pH (Fld)	7.5	6.9	7.5	6.4		6.07
SC (umhos/cm at 25 C) (Fld)	609	492	425	530	525	435
SC (umhos/cm at 25 C)	537			537		533
Total Suspended Solids	7.2			<1		<1
TDS (Measured at 180 C)	369	385 J	385	390	365	349
Water Temperature (C) (Fld)	9.5	15				11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	607Lewi	607Lewi	607Lewi	607Lewi	607Lewi
Water	SAMPLE DATE	5/5/2004	5/4/2005	5/4/2006	5/22/2007	5/13/2008
	SAMPLE TIME	13:00	12:30	13:50	08:50	13:00
	LAB	ELI	ELI-Casper	ELI-Hel	ELI	ELI
	LAB NUMBER	H04050036-010	C05050186-013	C06050292-017	H07050263-002	H08050220-013
	SAMPLE NUMBER	EHR-0504-309	EHR-0505-312	EHR-0506-316	EHR-0507-314	EHR-0508-312
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	90	177	181	180	180
Calcium (Ca) (DIS)	29	62	65	65	59
Chloride (Cl)	4	6	5	7	8
Magnesium (Mg) (DIS)	6	14	16	14	13
Potassium (K) (DIS)	3 UJ	<5	<5	3	3
Sodium (Na) (DIS)	10 UJ	19	22	22	22
Sulfate (SO4)	44	99	105	87	88
Total Alkalinity As CaCO3	74	145	149	150	140

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)				<0.005	
Selenium-VI (DIS)				<0.005	
Aluminum (Al) (DIS)				<0.1	<0.1
Antimony (Sb) (DIS)				<0.005	<0.005
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002
Arsenic III (dis)		<0.005	<0.005	<0.005	
Arsenic V (dis)		<0.005	<0.005	<0.005	
Barium (Ba) (DIS)				<0.1	<0.1
Beryllium (Be) (DIS)				<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)				<0.001	<0.001
Cobalt (Co) (DIS)				<0.01	<0.01
Copper (Cu) (DIS)	0.03	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.02	<0.02 J	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.02	<0.02	<0.01	<0.01
Mercury (Hg) (DIS)				<0.006	<0.006
Nickel (Ni) (DIS)				<0.01	<0.01
Selenium (Se) (DIS)				<0.005	<0.005
Silver (Ag) (DIS)				<0.005	<0.005
Thallium (Tl) (DIS)				<0.002	<0.002
Tin (Sn) (DIS)				<0.1	<0.1
Vanadium (V) (DIS)				<0.01	<0.01
Zinc (Zn) (DIS)	0.03	0.02	0.03	0.02	<0.01

**Nutrients: ppm unless noted**

Total Organic Carbon				<0.5	
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**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	6.8	9.6	8.7	9.16	8.08
pH	7.5	7.68	7.22	8	7.4
pH (Fld)	6.4	7.6	7.73	7.43	7.2
SC (umhos/cm at 25 C) (Fld)	315	511	454	396	416

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	607Lewi	607Lewi	607Lewi	607Lewi	607Lewi
Water	SAMPLE DATE	5/5/2004	5/4/2005	5/4/2006	5/22/2007	5/13/2008
	SAMPLE TIME	13:00	12:30	13:50	08:50	13:00
	LAB	ELI	ELI-Casper	ELI-Hel	ELI	ELI
	LAB NUMBER	H04050036-010	C05050186-013	C06050292-017	H07050263-002	H08050220-013
	SAMPLE NUMBER	EHR-0504-309	EHR-0505-312	EHR-0506-316	EHR-0507-314	EHR-0508-312
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS					

**Physical/Fld-Lab: ppm unless noted**

SC (umhos/cm at 25 C)	212	534	512	522	502
Total Suspended Solids	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	185	351	322		323
TDS - Calculated			319		
Salinity (G/KG) (Fld)	0.1				
Water Temperature (C) (Fld)	11.2	11.1	10.9	10.2	11.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	701Mnlv	701Mnlv	701Mnlv	701Mnlv	701Mnlv	701Mnlv
Water	SAMPLE DATE	1/27/1983	11/3/1984	5/13/1985	10/10/1986	10/10/1986	10/10/1986
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	RMAL	TSC-SLC	RMAL
	LAB NUMBER	HYD-9019	84-10855	85-3615	8610-101	86-6895	8610-107
	SAMPLE NUMBER	AEH-8301-01	AEH-8411-0	AEH-8505-412	AEH-8610-101	AEH-8610-101	AEH-8610-107
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS				Field Duplicate	Field Duplicate	Split
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)		158		142		106 M
	Calcium (Ca) (DIS)		42		52		51.3
	Carbonate As CO3				<5		<5
	Chloride (Cl)		16.5		23		23
	Magnesium (Mg) (DIS)		11		14.4		13.9
	Potassium (K) (DIS)		12		13.4		12.8
	Sodium (Na) (DIS)		31		45.9		44.9
	Sulfate (SO4)		67		101		115
	Total Alkalinity As CACO3		129.8				
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.02	0.05	0.02	0.02	0.02	0.02
	Arsenic III (dis)					0.03	
	Arsenic V (dis)					<0.008	
	Cadmium (Cd) (DIS)	<0.002	<0.001	<0.001	<0.005	<0.001	<0.005
	Copper (Cu) (DIS)	0.02	0.01		<0.004		<0.004
	Iron (Fe) (DIS)		0.08		<0.03	<0.02	<0.03
	Lead (Pb) (DIS)	0.02	0.005	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)		0.006		<0.004		<0.004
	Zinc (Zn) (DIS)	0.02	0.03	0.009	<0.002	<0.008	<0.002
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)					6.1	
	pH		7.7	7.9			7.1
	Depth To Water Level (ft)					68	
	pH (Fld)					7.1	
	SC (umhos/cm at 25 C) (Fld)		470	464.1		544	
	SC (umhos/cm at 25 C)		485	495			580
	TDS (Measured at 180 C)		369	333	380		375
	Water Temperature (C) (Fld)					10.8	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	701Mnlv	701Mnlv	701Mnlv	701Mnlv	701Mnlv	701Mnlv
Water	SAMPLE DATE	10/10/1986	1/29/1987	3/16/1987	5/6/1987	5/6/1987	7/27/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	CHMTC	TSC-SLC	TSC-SLC
	LAB NUMBER	86-6894	87-660	87-1634	8705-1	87-3035	88-5013
	SAMPLE NUMBER	AEH-8610-107	AEH-8701-120	AEH-8703-02	AEH-8705-1	AEH-8705-1	AEH-8807-12
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS				Split		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	163	162			159	155 J
Calcium (Ca) (DIS)		67 M		45.2	43.7	37
Carbonate As CO3		<1			<1	<1
Chloride (Cl)		19		25	17	18
Magnesium (Mg) (DIS)		16		12.4	10.9	11.1
Potassium (K) (DIS)		12		10.6	11.4	11.6
Sodium (Na) (DIS)		33		32.2	31.2	32.5
Sulfate (SO4)	101	73		72	70	69

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.02	0.03 M	0.02	0.01	0.02	0.02
Arsenic III (dis)	0.02	0.03	0.01		<0.008	
Arsenic V (dis)	<0.008	0.02	0.01		0.09 M	
Cadmium (Cd) (DIS)	<0.001	0.001	<0.001	<0.004	<0.001	<0.001
Copper (Cu) (DIS)		<0.008	0.02 M	0.04 M	<0.008 M	<0.008
Iron (Fe +2) (TOT)	0.1	<0.01	<0.01		0.01	
Iron (Fe) (DIS)	0.03	0.02	<0.02	<0.1 M	0.03	0.03
Lead (Pb) (DIS)	<0.005	<0.005 M	<0.005	<0.003	<0.005	<0.005
Manganese (Mn) (DIS)		0.005	<0.003	<0.01 M	0.004	<0.003
Zinc (Zn) (DIS)	<0.008	0.01	<0.006	<0.02	<0.008	<0.008

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	6.1	7.6			8	
pH	7.1	7.5			7.7	7.8
Depth To Water Level (ft)	68	29				
pH (Fld)		7.3			7.4	
SC (umhos/cm at 25 C) (Fld)	549	497.6			465.5	
SC (umhos/cm at 25 C)	580	475			485	472
TDS (Measured at 180 C)	390	359		404	357	358 J
Water Temperature (C) (Fld)	10.8				12.6	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	701Mnlv	701Mnlv	701Mnlv	701Mnlv	701Mnlv	701Mnlv
Water	SAMPLE DATE	7/27/1988	12/6/1988	4/27/1989	10/25/1989	5/2/1990	12/7/1990
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	88-5014	89-3	89-552	89-851	90-1071	90-2275
	SAMPLE NUMBER	AEH-8807-13	AEH-8812-210	AEH-8904-287	AEH-8910-472	AEH-9005-472	AEH-9011-766
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	157					
Calcium (Ca) (DIS)	38.5					
Carbonate As CO3	<1					
Chloride (Cl)	19	18 J	17	23	17.9	10 J
Magnesium (Mg) (DIS)	11.2					
Potassium (K) (DIS)	11.7					
Sodium (Na) (DIS)	33.5					
Sulfate (SO4)	69	74 R	65	82	71.9	38 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.02	0.02	0.03 J	0.02 J	0.02	0.02 U
Arsenic III (dis)		0.04 J	<0.008	<0.008	0.3 U	0.04 U
Arsenic V (dis)		0.02 J	0.04 J	0.03 J	0.05	0.006 U
Cadmium (Cd) (DIS)	0.001	<0.001 UJ	<0.002 UJ	<0.001	0.001 U	<0.001
Copper (Cu) (DIS)	<0.008	<0.008	0.01	<0.008	<0.008	<0.008
Iron (Fe +2) (TOT)		<0.01	<0.01			
Iron (Fe) (DIS)	0.03					
Lead (Pb) (DIS)	<0.005	<0.005	<0.02	<0.005 UJ	<0.005 UJ	<0.005 UJ
Manganese (Mn) (DIS)	<0.003					
Zinc (Zn) (DIS)	<0.008	<0.008	<0.008	0.008 J	0.006	

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		8.7	8.3	7.8	6.2	7.3
pH	7.8	7.9	7	8.2	8.3	8.02
Depth To Water Level (ft)			60.8			
pH (Fld)		6.8	5.3	7.4	7.7	7.7
SC (umhos/cm at 25 C) (Fld)		477.9	465.3	566.7	481.3	4850 A
SC (umhos/cm at 25 C)	475	490 J	425	580	480	309
TDS (Measured at 180 C)	358 J	338 J	523 R	392 J	344 J	196 J
Water Temperature (C) (Fld)		10.8	12	11.8	13.3	11.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	701Mnlv	701Mnlv	701Mnlv	701Mnlv	701Mnlv	701Mnlv
Water	SAMPLE DATE	5/14/1991	11/7/1991	4/23/1992	11/20/1992	4/29/1993	11/8/1993
	SAMPLE TIME	00:00	10:30	13:30	10:30	17:15	14:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	91-2821	91-3608	92-4296	92-6800	93-7728	93-9197
	SAMPLE NUMBER	AEH-9105-110	AEH-9111-352	AEH-9204-103	EHC-9211-149	EHC-9305-113	EHC-9311-132
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Calcium (Ca) (Dis)					53 J	50 J	
Chloride (Cl)	17	41	17 J	22	19	24 J	
Magnesium (Mg) (Dis)				14	13 J		
Potassium (K) (Dis)				10	12		
Sodium (Na) (Dis)				38	34 J		
Sulfate (SO4)	66	241	79	83 J	71	78	
Total Hardness As CaCO3					178		
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)	0.006	0.01	0.02	0.02 J	0.02	0.02 J	
Arsenic III (dis)	0.007 UJ	0.02 U	0.02	0.6 J	<0.004 J	0.02 J	
Arsenic V (dis)	0.03 M	0.06 U	<0.004	0.04 J	0.1 UJ	0.02 UJ	
Cadmium (Cd) (DIS)	<0.001	0.001	0.001	0.001	0.001 J	0.001	
Copper (Cu) (DIS)	0.004	0.008	0.006	0.02	0.006	0.006	
Lead (Pb) (DIS)	<0.005	<0.005 J	<0.005	<0.005 UJ	<0.005	<0.005	
Zinc (Zn) (DIS)	0.02 U	0.008	0.007	0.009	0.007	<0.006	
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)	7.9	9.2	10.3	10.6	9.9	9.7	
pH	7.8	7.7	7.7	8.2			
Depth To Water Level (ft)	61.2						54.4
pH (Fld)	7.8	7.8	7.4	7.6	7.2	7.7	
SC (umhos/cm at 25 C) (Fld)	513.4	813	510	497	490	532	
SC (umhos/cm at 25 C)	470	790	490	560	415 J	552 J	
TDS (Measured at 180 C)	348	601 J	353	260	367	378	
Water Temperature (C) (Fld)	12	11.5	11	13.2	12	10.8	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	701Mnlv	701Mnlv	701Mnlv	701Mnlv	701Mnlv	701Mnlv
Water	SAMPLE DATE	5/10/1994	5/10/1994	11/8/1994	5/4/1995	11/9/1995	5/10/1996
	SAMPLE TIME	07:45	10:40	14:20	15:58	12:50	12:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1341	94-1342	94-3246	95-4454	95-6129	96-6786
	SAMPLE NUMBER	EHC-9405-173	EHC-9405-137	EHC-9411-137	EHC-9505-137	EHC-9511-139	EHC-9605-123
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	21	21	21	20	26 J	21
Sulfate (SO4)	84 J	84 J	77	70	123 J	99

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.02	0.02	0.02	0.02	0.01	0.02
Arsenic III (dis)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.005 UJ
Arsenic V (dis)	0.02 J	0.03 J	0.02	0.009	0.01	0.02 J
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Copper (Cu) (DIS)	0.01	0.01	0.004	0.01	<0.004	<0.004
Lead (Pb) (DIS)	<0.005 UJ	<0.005 UJ	<0.005	<0.005	<0.005 UJ	<0.005
Zinc (Zn) (DIS)	0.009	0.007	0.009 U	0.008 U	<0.006	0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.6	9.6	9.2	9.4	8.5	8.9
pH				7.6	7.5	7.7
Depth To Water Level (ft)			55.7	60	60.1	
pH (Fld)	7.5	7.5	7.9	8.5	7.3	7.4
SC (umhos/cm at 25 C) (Fld)	542	545 J	519	516	523	517
SC (umhos/cm at 25 C)	538 J	538 J	519	505	592 J	500
TDS (Measured at 180 C)	369	361	381	348	434	365
Water Temperature (C) (Fld)	12.4	12.4	10.9	12	12.7	12

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	701Mnlv	701Mnlv	701Mnlv	701Mnlv	701Mnlv	701Mnlv
Water	SAMPLE DATE	11/6/1996	5/5/1997	11/11/1997	5/14/1998	12/2/1998	5/12/1999
	SAMPLE TIME	14:45	10:50	09:50	08:30	11:45	17:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-7731	97-908	192-2753	262-3790	323-4593	348-4909
	SAMPLE NUMBER	EHC-9611-123	EHC-9705-122	EHC-9711-123	EHC-9805-124	EHC-9811-123	EHC-9905-123
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)				182	193	181 J
Calcium (Ca) (DIS)				53	57	50
Carbonate As CO3						<1 UJ
Chloride (Cl)	22	24	23	5	31	22
Magnesium (Mg) (DIS)				14	16	13
Potassium (K) (DIS)				11	14	12
Sodium (Na) (DIS)				32	44	36 J
Sulfate (SO4)	71 J	80	87	92	105	113
Total Alkalinity As CACO3				149	158	148 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.02	0.02	0.02	0.02 U	0.02	0.02
Arsenic III (dis)	<0.004	<0.005	<0.005 J	<0.005	<0.005	<0.005
Arsenic V (dis)	0.02	0.02	0.02 J	0.02	0.02	0.02
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.01	0.01	0.01	0.009	0.01	<0.004
Iron (Fe) (DIS)				<0.05 J	<0.02 J	0.04 UJ
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)				<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	0.01	<0.02	<0.02	0.02 U	<0.02	<0.02

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.02	8.8	9.08	11.09	5.9	8.1
pH	7.9	7.6	7.9	8.1	7.8	8.1
Depth To Water Level (ft)			57.2			
Eh (millivolts)					403	303
pH (Fld)	7.9	7.2	7.6	7.04	7.7	8.6
SC (umhos/cm at 25 C) (Fld)	514	551	519	607	624	530
SC (umhos/cm at 25 C)	531	554	549	559	654	571
Total Suspended Solids			<1			
TDS (Measured at 180 C)	390	410	398	420	507	418
Water Temperature (C) (Fld)	11.6	13.3	9.7	12	12.1	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	701Mnlv	701Mnlv	701Mnlv	701Mnlv	701Mnlv	701Mnlv
Water	SAMPLE DATE	11/5/1999	5/9/2000	10/30/2000	10/30/2000	5/11/2001	5/11/2001
	SAMPLE TIME	14:55	13:10	14:45	15:00	15:30	15:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L992008004	L000705024	L001833004	L001833005	L010691029	L010691006
	SAMPLE NUMBER	EHC-9911-139	EHC-0005-138	EHC-0011-139	EHC-0011-163	EHC-0105-165	EHC-0105-230
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS				Field Duplicate		Field Duplicate
	<b>Common Ions (mg/L): ppm unless noted</b>						
Bicarbonate (HCO3)		171	181	207	181	195	185
Calcium (Ca) (DIS)		54	56	56	55	61	57
Carbonate As CO3		<1	<1	<1	<1		
Chloride (Cl)		23 J	24	17 J	17 J	25	28
Magnesium (Mg) (DIS)		14	16	15	15	17	16
Potassium (K) (DIS)		12	12	13	13	14	12
Sodium (Na) (DIS)		33	32	38	37	36	33
Sulfate (SO4)		94 J	86	97	90	96	100 J
Total Alkalinity As CaCO3		140	148	170	148	160	152
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (DIS)						<0.05	<0.05
Arsenic (As) (DIS)		0.02	0.02	0.02	0.02	0.02 U	0.02 U
Arsenic III (dis)		<0.005	0.01 UJ	<0.02	<0.02	0.02 U	0.02 U
Arsenic V (dis)		0.02	0.03 U	0.03	0.03	<0.005	<0.005
Cadmium (Cd) (DIS)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)		0.006	0.005	0.01	0.008	0.005 U	0.006 U
Iron (Fe) (DIS)		0.03	0.06 UJ	<0.02	<0.02	<0.05	<0.05
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005	0.009 U
Manganese (Mn) (DIS)		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)		<0.02 J	<0.02	<0.02	<0.02	<0.02	<0.02
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)		8.9	15.4	9	9.01	7.5	7.5
pH		8	7.9	7.9	7.9	8.5	8.2
Silicon+Silica (Si+SiO2)						65	61
Eh (millivolts)		424	287	424	424	154	153
pH (Fld)		7.7	7.7	7.7	7.7	7.4	7.8
SC (umhos/cm at 25 C) (Fld)		552	558	606	594	548	544
SC (umhos/cm at 25 C)		564	578	565	568	596	592
Total Suspended Solids		<1 UJ		<1	<1	<1	<1
TDS (Measured at 180 C)		467 J	415	417	413	430	431
Water Temperature (C) (Fld)		12.8	11.8	12	12	13.1	13.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	701Mnlv	701Mnlv	701Mnlv	701Mnlv	701Mnlv	701Mnlv
Water	SAMPLE DATE	12/19/2001	6/25/2002	10/30/2002	5/1/2003	5/4/2006	5/19/2009
	SAMPLE TIME	10:20	14:10	15:15	14:50	14:45	09:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI-Hel	ELI
	LAB NUMBER	L011668002	L020498002	L020899010	L030190011	C06050292-019	H09050267-004
	SAMPLE NUMBER	EHC-0111-243	EHC-0205-257	EHR-0210-109	EHR-0305-110	EHR-0506-318	EHR-0509-318
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	193	195	199	201	215	220
Calcium (Ca) (DIS)	61	57	61	60	67	68
Carbonate As CO3	<1	<1	<1	<2		
Chloride (Cl)	26	22	27	26	26	28
Magnesium (Mg) (DIS)	16	15	16	16	19	18
Potassium (K) (DIS)	14	12	14	12	13	14
Sodium (Na) (DIS)	40	36	37	34	37	36
Sulfate (SO4)	87	123	90	105	111	110
Total Alkalinity As CaCO3	158	160	163	165	176	180

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05		<0.05			<0.1
Antimony (Sb) (DIS)						<0.003
Arsenic (As) (DIS)	0.02	0.02	0.02	0.02	0.017	0.013
Arsenic III (dis)	0.007			0.008	<0.005	
Arsenic V (dis)	0.01			0.008	0.02	
Barium (Ba) (DIS)						<0.1
Beryllium (Be) (DIS)						<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)						<0.001
Cobalt (Co) (DIS)						<0.01
Copper (Cu) (DIS)	0.007	0.004	0.004	0.006	<0.004	0.003
Gold (Au) (DIS)						<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01
Mercury (Hg) (DIS)						<0.001
Nickel (Ni) (DIS)						<0.01
Selenium (Se) (DIS)						0.001
Silver (Ag) (DIS)						<0.005 R
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)						<0.001
Vanadium (V) (DIS)						0.01
Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	20					
Oxygen (O) (DIS) (Fld)	4.1	8.5		12.5	10.82	10.3
pH	8	6.7	7.8	7.6	7.95	7.9
Silicon+Silica (Si+SiO2)	60		57			
Eh (millivolts)	212					

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	701Mnlv	701Mnlv	701Mnlv	701Mnlv	701Mnlv	701Mnlv
Water	SAMPLE DATE	12/19/2001	6/25/2002	10/30/2002	5/1/2003	5/4/2006	5/19/2009
	SAMPLE TIME	10:20	14:10	15:15	14:50	14:45	09:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ASARCO	Hydrometrics
	LAB NUMBER	L011668002	L020498002	L020899010	L030190011	C06050292-019	H09050267-004
	SAMPLE NUMBER	EHC-0111-243	EHC-0205-257	EHR-0210-109	EHR-0305-110	EHR-0506-318	EHR-0509-318
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Physical/Fld-Lab: ppm unless noted**

pH (Fld)	7.8	7.2	6.7	6.3	7.82	7.2
SC (umhos/cm at 25 C) (Fld)	491	507	591	502	568	470
SC (umhos/cm at 25 C)	623	611	614	607	646	682
Total Suspended Solids	<1		<1	<1	<10	<10
TDS (Measured at 180 C)	437	462	451	435	440	471
TDS - Calculated					441	
Water Temperature (C) (Fld)	11.6	13		11.7	11.7	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	701Mnlv	701Mnlv	800Mnlv	800Mnlv	800Mnlv
Water	SAMPLE DATE	5/19/2009	8/25/2009	2/3/1987	5/6/1987	5/6/1987
	SAMPLE TIME	10:00	07:45	00:00	00:00	00:00
	LAB	ELI	ELI	TSC-SLC	CHMTC	TSC-SLC
	LAB NUMBER	H09050267-005	H09080292-002	87-778	8705-3	87-3034
	SAMPLE NUMBER	EHR-0509-319	EHR-0809-351	AEH-8701-134	AEH-8705-3	AEH-8705-3
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS	Field Duplicate			Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	220	260	163		157
Calcium (Ca) (DIS)	69	127	65 M	52.8	49.6
Carbonate As CO3			<1		<1
Chloride (Cl)	28	52	90 M	25	20
Magnesium (Mg) (DIS)	19	33	17	14.9	13.1
Potassium (K) (DIS)	14	19	12	11.1 M	11.8
Sodium (Na) (DIS)	36	82	33	36.2 M	34
Sulfate (SO4)	110	360	89	95	104 M
Total Alkalinity As CACO3	180	210			

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.1			
Antimony (Sb) (DIS)	<0.003	<0.003			
Arsenic (As) (DIS)	0.013	0.012	0.02	0.02	0.03
Arsenic III (dis)			0.02		0.03
Arsenic V (dis)			0.05		0.008
Barium (Ba) (DIS)	<0.1	<0.1			
Beryllium (Be) (DIS)	<0.001	<0.001			
Cadmium (Cd) (DIS)	<0.001	<0.001	0.001	<0.004 M	0.001
Chromium (Cr) (DIS)	0.001	<0.001			
Cobalt (Co) (DIS)	<0.01	<0.01			
Copper (Cu) (DIS)	0.004	0.003 UJ	<0.008	0.03	<0.008
Gold (Au) (DIS)	<0.01	<0.01			
Iron (Fe +2) (TOT)			0.01		
Iron (Fe) (DIS)	<0.02	<0.02	0.04 M	<0.1 M	0.03
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.003 M	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	0.005	<0.01 M	0.006
Mercury (Hg) (DIS)	<0.001	<0.001			
Nickel (Ni) (DIS)	<0.01	<0.01			
Selenium (Se) (DIS)	0.002	0.005			
Silver (Ag) (DIS)	<0.005 R	<0.005			
Tellurium (Te) (DIS)	<0.1	<0.1			
Thallium (Tl) (DIS)	<0.001	<0.001			
Vanadium (V) (DIS)	0.01	<0.01			
Zinc (Zn) (DIS)	<0.01	<0.01	0.01	<0.02	0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		9.58	8.2		8.1
pH	7.9	7.8	7.8		7.6
Depth To Water Level (ft)			95		
pH (Fld)		7.64	7.07		7.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	701Mnlv	701Mnlv	800MnLv	800MnLv	800MnLv
Water	SAMPLE DATE	5/19/2009	8/25/2009	2/3/1987	5/6/1987	5/6/1987
	SAMPLE TIME	10:00	07:45	00:00	00:00	00:00
	LAB	ELI	Hydrometrics	TSC-SLC	CHMTC	TSC-SLC
	LAB NUMBER	H09050267-005	H09080292-002	87-778	8705-3	87-3034
	SAMPLE NUMBER	EHR-0509-319	EHR-0809-351	AEH-8701-134	AEH-8705-3	AEH-8705-3
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS	Field Duplicate			Split	

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)		1260		509.3		532.4
SC (umhos/cm at 25 C)	681	1240		530		560
Total Suspended Solids	<10	<10				
TDS (Measured at 180 C)	472	907		499 M	424	405
Water Temperature (C) (Fld)		12.4		10.3		12.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	800MnLv	800MnLv	800MnLv	800MnLv	800MnLv	800MnLv
Water	SAMPLE DATE	7/27/1988	6/25/2002	10/30/2002	5/4/2005	5/20/2008	8/25/2009
	SAMPLE TIME	00:00	15:45	15:50	11:20	13:40	08:05
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ELI-Casper	ELI	ELI
	LAB NUMBER	88-5015	L020499001	L020899011	C05050186-010	H08050343-009	H09080292-003
	SAMPLE NUMBER	AEH-8807-14	EHC-0205-260	EHR-0210-110	EHR-0505-309	EHR-0508-322	EHR-0809-352
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	155	<1	190	189	190	190
Calcium (Ca) (DIS)	40.5	61	63	62	72	66
Carbonate As CO3	<1	<1	<1			
Chloride (Cl)	18	20	30	29	30	28
Magnesium (Mg) (DIS)	12	17	17	17	20	18
Potassium (K) (DIS)	12	13	13	12	14	14
Sodium (Na) (DIS)	33.5	39	41	36	40	43
Sulfate (SO4)	86	108	118	136	130	140
Total Alkalinity As CaCO3		152	156	155	160	160

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.05		<0.1	<0.1
Antimony (Sb) (DIS)					<0.005	<0.003
Arsenic (As) (DIS)	0.02	0.01	0.02	0.014	0.015	0.013
Arsenic III (dis)				<0.005		
Arsenic V (dis)				0.02		
Barium (Ba) (DIS)					<0.1	<0.1
Beryllium (Be) (DIS)		<0.001			<0.001	<0.001
Cadmium (Cd) (DIS)	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)					<0.001	<0.001
Cobalt (Co) (DIS)					<0.01	<0.01
Copper (Cu) (DIS)	<0.008	<0.004	<0.004	<0.004	<0.004	<0.001
Gold (Au) (DIS)						<0.01
Iron (Fe) (DIS)	0.02	<0.02	0.03	0.03 J	0.03	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.003	<0.02	<0.02	<0.02	<0.01	<0.01
Mercury (Hg) (DIS)		<0.0006			<0.006	<0.001
Nickel (Ni) (DIS)					<0.01	<0.01
Selenium (Se) (DIS)		0.001			<0.005	0.003
Silver (Ag) (DIS)		<0.003			<0.005	<0.005
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)		<0.003			<0.002	<0.001
Tin (Sn) (DIS)					<0.1	
Vanadium (V) (DIS)					0.01	<0.01
Zinc (Zn) (DIS)	<0.008	<0.02	<0.02	0.02	<0.01	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		6		7.99	9.88	10.25
pH	7.9	7.4	7.9	7.84	8.3	7.9
Silicon+Silica (Si+SiO2)			56			
pH (Fld)		7.6	6.8	7.75	7.56	7.69

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	800MnLv	800MnLv	800MnLv	800MnLv	800MnLv	800MnLv
Water	SAMPLE DATE	7/27/1988	6/25/2002	10/30/2002	5/4/2005	5/20/2008	8/25/2009
	SAMPLE TIME	00:00	15:45	15:50	11:20	13:40	08:05
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ELI-Casper	Hydrometrics	Hydrometrics
	LAB NUMBER	88-5015	L020499001	L020899011	C05050186-010	H08050343-009	H09080292-003
	SAMPLE NUMBER	AEH-8807-14	EHC-0205-260	EHR-0210-110	EHR-0505-309	EHR-0508-322	EHR-0809-352
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fid)		521	619	643	620	606
SC (umhos/cm at 25 C)	500	626	665	697	670	693
Total Suspended Solids			<1	<10	<10	<10
TDS (Measured at 180 C)	416 J	485	503	408	466	482 UJ
Water Temperature (C) (Fid)		17.3		11.1	11.7	11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	801Manlove	802Mnlv	802Mnlv	802Mnlv	802Mnlv
Water	SAMPLE DATE	8/25/2009	2/3/1987	5/6/1987	5/6/1987	5/6/1987
	SAMPLE TIME	08:25	00:00	00:00	00:00	00:00
	LAB	ELI	TSC-SLC	CHMTC	TSC-SLC	CHMTC
	LAB NUMBER	H09080292-004	87-780	8705-2	87-3030	8705-41
	SAMPLE NUMBER	EHR-0809-353	AEH-8701-135	AEH-8705-2	AEH-8705-2	AEH-8705-41
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site				
	REMARKS			Split		Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	160	167		151	
Calcium (Ca) (DIS)	41	50 M	37.9	35	38.6
Carbonate As CO3		<1		<1	
Chloride (Cl)	14	158 M	15	13	
Magnesium (Mg) (DIS)	11	12	10.7	9.6	10.9
Potassium (K) (DIS)	11	11	10	10.8	10.3
Sodium (Na) (DIS)	31	29	28.7	28 M	29.3
Sulfate (SO4)	74	53	47.7 M	57	
Total Alkalinity As CaCO3	130				

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1				
Antimony (Sb) (DIS)	<0.003				
Arsenic (As) (DIS)	0.015	0.02	0.04	0.05 M	0.04
Arsenic III (dis)		0.02 M		<0.008	
Arsenic V (dis)		<0.008 M		0.03	
Barium (Ba) (DIS)	<0.1				
Beryllium (Be) (DIS)	<0.001				
Cadmium (Cd) (DIS)	<0.001	0.001	<0.004	0.001	<0.004
Chromium (Cr) (DIS)	<0.001				
Cobalt (Co) (DIS)	<0.01				
Copper (Cu) (DIS)	<0.001	<0.008	<0.02	0.01 M	0.05 M
Gold (Au) (DIS)	<0.01				
Iron (Fe +2) (TOT)		0.01		<0.01	
Iron (Fe) (DIS)	<0.02	<0.02	<0.1	0.05	<0.1
Lead (Pb) (DIS)	<0.005	<0.005	<0.003	0.007 M	<0.003
Manganese (Mn) (DIS)	<0.01	0.003 M	<0.01	0.005	<0.01
Mercury (Hg) (DIS)	<0.001				
Nickel (Ni) (DIS)	<0.01				
Selenium (Se) (DIS)	<0.001				
Silver (Ag) (DIS)	<0.005				
Tellurium (Te) (DIS)	<0.1				
Thallium (Tl) (DIS)	0.002				
Vanadium (V) (DIS)	<0.01				
Zinc (Zn) (DIS)	<0.01	0.01	<0.02	0.04 M	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.58	6.6		7.3	
pH	7.9	8.1		7.6	
Depth To Water Level (ft)		77			
pH (Fld)	7.77	5.3		7.6	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>801Manlove</b>	<b>802Mnlv</b>	<b>802Mnlv</b>	<b>802Mnlv</b>
<b>Water</b>	SAMPLE DATE	8/25/2009	2/3/1987	5/6/1987	5/6/1987
	SAMPLE TIME	08:25	00:00	00:00	00:00
	LAB	Hydrometrics	TSC-SLC	CHMTC	TSC-SLC
	LAB NUMBER	H09080292-004	87-780	8705-2	87-3030
	SAMPLE NUMBER	EHR-0809-353	AEH-8701-135	AEH-8705-2	AEH-8705-2
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	New Site			
	REMARKS			Split	

**Physical/Fid-Lab: ppm unless noted**

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SC (umhos/cm at 25 C) (Fid)	409	418.6		414.3
SC (umhos/cm at 25 C)	474	425		406
Total Suspended Solids	<10			
TDS (Measured at 180 C)	329 UJ	408 M	340	298
Water Temperature (C) (Fid)	12.7	10.1		11.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	802Mnlv	802Mnlv	802Mnlv	802Mnlv	802Mnlv	802Mnlv
Water	SAMPLE DATE	5/6/1987	7/27/1988	12/6/1988	4/27/1989	4/27/1989	10/25/1989
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-3031	88-5012	89-4	89-553	89-554	89-853
	SAMPLE NUMBER	AEH-8705-41	AEH-8807-10	AEH-8812-211	AEH-8904-289	AEH-8904-293	AEH-8910-488
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS	Field Duplicate				Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		153					
Calcium (Ca) (DIS)		32.5					
Carbonate As CO3		<1					
Chloride (Cl)		15		13 J	14	13	13
Magnesium (Mg) (DIS)		9.6					
Potassium (K) (DIS)		10.8					
Sodium (Na) (DIS)		31.5					
Sulfate (SO4)		55		58 R	56	56	48

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.02	0.02	0.02	0.03 J	0.02 J	0.02 J
Arsenic III (dis)	<0.008		0.04 J	<0.008	0.02	<0.008
Arsenic V (dis)	0.03		0.03 J	0.03 J	0.03 J	0.03 J
Cadmium (Cd) (DIS)	0.001	0.001	<0.001 UJ	<0.002 UJ	<0.002 UJ	<0.001
Copper (Cu) (DIS)	0.008 M	<0.008	<0.008	0.02	<0.008	<0.008
Iron (Fe +2) (TOT)	<0.01		<0.01	<0.01	<0.01	
Iron (Fe) (DIS)	0.03	0.03				
Lead (Pb) (DIS)	<0.005 M	<0.005	<0.005	<0.02	<0.02	<0.005 UJ
Manganese (Mn) (DIS)	0.004	<0.003				
Zinc (Zn) (DIS)	0.02	0.02	0.008	0.02	0.02	0.01 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.3		8.7	6.7		7.6
pH		7.9	7.9	7.4	7.4	7.8
Depth To Water Level (ft)				81		
pH (Fld)	7.5		5.6	5.5		7.4
SC (umhos/cm at 25 C) (Fld)	412.1		423.3	418.2		437.1
SC (umhos/cm at 25 C)		410	430 J	390	350	425
TDS (Measured at 180 C)		303 J	300 J	446 R	467 R	301 J
Water Temperature (C) (Fld)	11.6		11.1	9		12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	802Mnlv	802Mnlv	802Mnlv	802Mnlv	802Mnlv	802Mnlv
Water	SAMPLE DATE	5/3/1990	12/7/1990	5/14/1991	5/14/1991	11/7/1991	4/23/1992
	SAMPLE TIME	00:00	00:00	00:00	00:00	10:00	12:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	90-1075	90-2271	91-2823	91-2824	91-3609	92-4309
	SAMPLE NUMBER	AEH-9005-514	AEH-9011-770	AEH-9105-112	AEH-9105-115	AEH-9111-330	AEH-9204-114
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS				Field Duplicate		
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	13	3 J	13	13	13	11 J
	Sulfate (SO4)	56.1	51 J	57	57	59	57
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.02	0.02 U	0.01	0.01	0.02	0.02
	Arsenic III (dis)	0.04 U	0.05 U	0.01 M	<0.004 UJ	0.03 U	0.02
	Arsenic V (dis)	0.03 U	0.006 U	0.04 M	0.04 M	0.05 U	0.006
	Cadmium (Cd) (DIS)	0.001 U	<0.001	<0.001	<0.001	<0.001	0.001
	Copper (Cu) (DIS)	<0.008	<0.008	<0.004	<0.004	<0.004	<0.004
	Lead (Pb) (DIS)	<0.005	<0.005 UJ	<0.005	<0.005	<0.005	<0.005 UJ
	Zinc (Zn) (DIS)	0.01 U		0.02 U	0.02 U	0.03	0.009
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	10.8	7.7	6.9	6.9	8.9	10.1
	pH	8.1	8.5	7.8	7.8	7.8	7.8
	Depth To Water Level (ft)			80.9	80.9		
	pH (Fld)	7.6	7.8	7.9	7.9	7.7	7.6
	SC (umhos/cm at 25 C) (Fld)	420.5	4260 A	425.7		398	426
	SC (umhos/cm at 25 C)	421	436	425	440	390	420
	TDS (Measured at 180 C)	289	306 J	321	325	305 J	307
	Water Temperature (C) (Fld)	12.7	11.5	11.5	11.5	11.2	11.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	802Mnlv	802Mnlv	802Mnlv	802Mnlv	802Mnlv	802Mnlv
Water	SAMPLE DATE	11/20/1992	4/29/1993	4/29/1993	11/8/1993	5/10/1994	11/8/1994
	SAMPLE TIME	09:40	16:30	18:45	15:10	10:00	13:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	92-6816	93-7727	93-7729	93-9201	94-1345	94-3245
	SAMPLE NUMBER	EHC-9211-105	EHC-9305-112	EHC-9305-114	EHC-9311-146	EHC-9405-150	EHC-9411-152
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)	43	41 J	41 J			
Chloride (Cl)	14	13	13	13 J	13	13.7
Magnesium (Mg) (Dis)	11	11 J	11 J			
Potassium (K) (Dis)	6.5	11	11			
Sodium (Na) (Dis)	30	32 J	32 J			
Sulfate (SO4)	56	56	55	55 J	55 J	14
Total Hardness As CaCO3		148	148			

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.02 J	0.02	0.02	0.02 J	0.02	0.02
Arsenic III (dis)	0.03	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic V (dis)	0.03 J	0.1 UJ	0.1 J	0.02 J	0.01 J	0.03
Cadmium (Cd) (DIS)	0.001	0.002 J	0.001 J	0.001	0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	<0.005 UJ	<0.005	<0.005	<0.005	<0.005 UJ	<0.005
Zinc (Zn) (DIS)	0.1	0.009	0.01	0.02	0.009	0.01 U

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	11.1	9.8	9.8	9.2	9.8	9.06
pH	8.3					
Depth To Water Level (ft)				74.9		76
pH (Fld)	7.7	7.4	7.4	7.8	7.9	8
SC (umhos/cm at 25 C) (Fld)	423	430	427	419	443 J	424
SC (umhos/cm at 25 C)	470	380 J	350 J	429 J	430 J	430
TDS (Measured at 180 C)	330	330	317	304	302	322
Water Temperature (C) (Fld)	10.9	11.6	11.6	10.1	12.2	10.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	802Mnlv	802Mnlv	802Mnlv	802Mnlv	802Mnlv	802Mnlv
Water	SAMPLE DATE	5/4/1995	11/9/1995	5/10/1996	11/6/1996	5/5/1997	11/11/1997
	SAMPLE TIME	16:30	13:30	12:50	14:15	11:10	09:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-4463	95-6133	96-6790	96-7733	97-919	192-2755
	SAMPLE NUMBER	EHC-9505-151	EHC-9511-153	EHC-9605-137	EHC-9611-137	EHC-9705-134	EHC-9711-137
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	14	14 J	21	15	14	15
	Sulfate (SO4)	55	44 J	83	65 J	57	66
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.02	0.02	0.02	0.02	0.02	0.02
	Arsenic III (dis)	0.006	<0.004	0.007 J	<0.004	<0.005	<0.005 J
	Arsenic V (dis)	0.009	0.02	0.02 J	0.02	0.01	0.02 J
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)	0.004	<0.004	<0.004	<0.004	<0.004	<0.004
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	0.01 U	0.01 U	0.02	0.02	<0.02	<0.02
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	8.2	8.04	9	8.9	8.7	9.01
	pH	7.6	7.5	7.8	7.9	7.8	7.9
	Depth To Water Level (ft)	79.7	79.7			0.0	77.7
	pH (Fld)	7.9	7.6	7.7	7.8	7.2	7.7
	SC (umhos/cm at 25 C) (Fld)	441	393	430	427	426	426
	SC (umhos/cm at 25 C)	430	435	510	441	440	436
	Total Suspended Solids						<1
	TDS (Measured at 180 C)	311	344	368	344	322	326
	Water Temperature (C) (Fld)	12.5	11.4	10.2	11.5	13.4	10.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	802Mnlv	802Mnlv	802Mnlv	802Mnlv	802Mnlv	802Mnlv
Water	SAMPLE DATE	5/14/1998	5/12/1999	5/12/1999	5/9/2000	5/11/2001	6/25/2002
	SAMPLE TIME	08:45	16:49	16:50	12:50	16:00	15:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	262-3793	348-4910	348-4914	L000705033	L010691012	L020498003
	SAMPLE NUMBER	EHC-9805-138	EHC-9905-137	EHC-9905-155	EHC-0005-161	EHC-0105-179	EHC-0205-258
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	159	146 J	159 J	166	156	168
Calcium (Ca) (DIS)	38	37	37	39	38	38
Carbonate As CO3		<1 UJ	<1 UJ	<1		<1
Chloride (Cl)	14	14	13	15	40	10
Magnesium (Mg) (DIS)	11	10	10	11	11	11
Potassium (K) (DIS)	10	11	11	11	12	11
Sodium (Na) (DIS)	31	32 J	32 J	27	30	31
Sulfate (SO4)	67	66	68	62	62	72
Total Alkalinity As CaCO3	130	120 J	130 J	136	128	138

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)					<0.05	
Arsenic (As) (DIS)	0.02 U	0.02	0.02	0.02	0.02 U	0.02
Arsenic III (dis)	0.007	<0.005	<0.005	0.01 UJ	0.02 U	
Arsenic V (dis)	0.02	0.02	0.02	0.03 U	<0.005	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	<0.05 J	0.2 UJ	0.1 UJ	0.03 UJ	<0.05	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	0.04 U	<0.02	<0.02	0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	11.2	8.2	8.2	15.9	7.5	6.3
pH	8	8.1	8.3	7.8	8.3	6.8
Silicon+Silica (Si+SiO2)					61	
Eh (millivolts)		295	295	255	160	
pH (Fld)	7.7	8.3	8.3	7.6	7.9	7.5
SC (umhos/cm at 25 C) (Fld)	473	414	414	433	446	383
SC (umhos/cm at 25 C)	442	440	437	447	449	450
Total Suspended Solids					<1	
TDS (Measured at 180 C)	331	330	329	331	336	349
Water Temperature (C) (Fld)	11.4	14.8	14.8	11.7	14.5	17.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	802Mnlv	802Mnlv	802SMnlv	Amchem1
Water	SAMPLE DATE	5/26/2004	5/24/2007	6/25/2002	10/27/1987
	SAMPLE TIME	08:45	13:15	15:30	00:00
	LAB	ELI	ELI	TSC-SLC	TSC-SLC
	LAB NUMBER	H04050192-001	H07050287-010	L020498004	87-10002
	SAMPLE NUMBER	EHR-0504-313	EHR-0507-338	EHC-0205-259	AEH-8710-52
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION				
	REMARKS				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	180	170	185	127
Calcium (Ca) (DIS)	42	42	61	
Carbonate As CO3			<1	
Chloride (Cl)	18	14	19	
Magnesium (Mg) (DIS)	11	11	17	
Potassium (K) (DIS)	11	11	13	
Sodium (Na) (DIS)	31 UJ	33	39	
Sulfate (SO4)	67	58	139	25
Total Alkalinity As CaCO3	140	140	152	

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005		
Selenium-VI (DIS)		<0.005		
Aluminum (Al) (DIS)		<0.1		
Antimony (Sb) (DIS)		<0.005		
Arsenic (As) (DIS)	0.02	0.017	0.02	<0.006
Arsenic III (dis)	<0.001	<0.005		0.008
Arsenic V (dis)	0.025	0.0174		0.05
Barium (Ba) (DIS)		<0.1		
Beryllium (Be) (DIS)		<0.001		
Cadmium (Cd) (DIS)	0.002	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.001		
Cobalt (Co) (DIS)		<0.01		
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.008
Iron (Fe +2) (TOT)				<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	0.03
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005 M
Manganese (Mn) (DIS)	<0.01	<0.01	<0.02	<0.003
Mercury (Hg) (DIS)		<0.006		
Nickel (Ni) (DIS)		<0.01		
Selenium (Se) (DIS)		<0.005		
Silver (Ag) (DIS)		<0.005 J-		
Thallium (Tl) (DIS)		<0.002		
Tin (Sn) (DIS)		<0.1		
Vanadium (V) (DIS)		0.01		
Zinc (Zn) (DIS)	<0.01	<0.01	<0.02	<0.008

**Nutrients: ppm unless noted**

Total Organic Carbon		<0.5		
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	9.5	8.12	7.8	2.3
pH	7.8	7.6	7.1	8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	802Mnlv	802Mnlv	802SMnlv	Amchem1
Water	SAMPLE DATE	5/26/2004	5/24/2007	6/25/2002	10/27/1987
	SAMPLE TIME	08:45	13:15	15:30	00:00
	LAB		Asarco	TSC-SLC	TSC-SLC
	LAB NUMBER	H04050192-001	H07050287-010	L020498004	87-10002
	SAMPLE NUMBER	EHR-0504-313	EHR-0507-338	EHC-0205-259	AEH-8710-52
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION				
	REMARKS				

**Physical/Fid-Lab: ppm unless noted**

Depth To Water Level (ft)					56.1
pH (Fld)	6.8	8.01		7.5	7.6
SC (umhos/cm at 25 C) (Fld)	708	435		530	
SC (umhos/cm at 25 C)	445	462		652	302
Total Suspended Solids	<10	<10			
TDS (Measured at 180 C)	353	340		481	221.2 M
Water Temperature (C) (Fld)	11.8	11.8		16.3	11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	Amchem1	Amchem1	Amchem2	Amchem2	Amchem2
Water	SAMPLE DATE	4/12/1988	6/5/2001	10/17/1983	10/17/1983	11/3/1984
	SAMPLE TIME	00:00	11:55	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	EPA-USGS	TSC-SLC
	LAB NUMBER	88-2724	L010825001	HYD-8923	HYD-8924	84-10841
	SAMPLE NUMBER	AEH-8804-362	EHC-0106-100	AEH-8310-01	AEH-8310-02	AEH-8411-1
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS				Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	132	156			168
Calcium (Ca) (DIS)	38.5	69		139	39
Carbonate As CO3	<1	<1			
Chloride (Cl)	4.7 J	26		42	3
Magnesium (Mg) (DIS)	8.5	14		10	8.7
Potassium (K) (DIS)	5.7	7.2		33	5.7
Sodium (Na) (DIS)	15.9	57		66	16
Sulfate (SO4)	28	215		490	54
Total Alkalinity As CaCO3		128			138

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		<0.05			
Arsenic (As) (DIS)	<0.006	<0.005	<0.005	<0.01	<0.004
Arsenic III (dis)	0.01	<0.005			
Arsenic V (dis)	0.009	<0.005			
Cadmium (Cd) (DIS)	0.001	<0.001	<0.004	<0.001	<0.001
Copper (Cu) (DIS)		0.04	0.005	<0.05	<0.008
Iron (Fe +2) (TOT)	1				
Iron (Fe) (DIS)	0.8	0.1		0.8	0.5
Lead (Pb) (DIS)	<0.005	<0.005	<0.03	<0.005	0.005
Manganese (Mn) (DIS)		0.2			0.02
Zinc (Zn) (DIS)	0.02	<0.02			0.2

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential		129.1			
Oxygen (O) (DIS) (Fld)	3.2	1.6			
pH	7.1	7.9	7		7.8
Silicon+Silica (Si+SiO2)		44			
pH (Fld)	6.6	7.2			
SC (umhos/cm at 25 C) (Fld)	340.3	730			342.7
SC (umhos/cm at 25 C)	320	749	1150		253
Total Suspended Solids		<1			
TDS (Measured at 180 C)	237 J	539			245
Water Temperature (C) (Fld)	13	18.5	15		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	Amchem2	Amchem2	Amchem2	Amchem2	Amchem2	Amchem2
Water	SAMPLE DATE	5/13/1985	10/10/1986	10/10/1986	5/5/1987	10/27/1987	10/27/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	RMAL	TSC-SLC	TSC-SLC	TSC-SLC	WYRHR
	LAB NUMBER	85-3616	8610-105	86-6893	87-3029	87-10001	8710-51
	SAMPLE NUMBER	AEH-8505-413	AEH-8610-105	AEH-8610-105	AEH-8704-34	AEH-8710-51	AEH-8710-51
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS		Split				Split
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)		128 M	172	192	173 M	
	Calcium (Ca) (DIS)		43.6		146		40.6
	Carbonate As CO3		<5		<1		
	Chloride (Cl)		5.4		86 M		
	Magnesium (Mg) (DIS)		9.9		40 M		9.08
	Potassium (K) (DIS)		5.6		13.2		5.3
	Sodium (Na) (DIS)		17.7		132 M		16.4
	Sulfate (SO4)		61	29	600	25	
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.004	<0.01	<0.006	0.009	<0.006	<0.002
	Arsenic III (dis)			0.03	<0.008	0.1 M	
	Arsenic V (dis)			0.02 M	0.02	0.02 M	
	Cadmium (Cd) (DIS)	<0.001	<0.005 M	<0.001	0.003	0.001	<0.001
	Copper (Cu) (DIS)		<0.004		0.02 M	<0.008	0.007
	Iron (Fe +2) (TOT)			0.6	<0.01	0.7	
	Iron (Fe) (DIS)		0.5	0.6	0.06 M	1 M	0.8
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005 M	<0.005 M	0.004
	Manganese (Mn) (DIS)		0.02		2.6 M	0.02	0.02
	Zinc (Zn) (DIS)	0.2	0.05	0.05	0.01	0.07	0.07
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fid)			0.9	2.6	5.4 M	
	pH	7.4	6.5	6.5	7	7.9	
	Depth To Water Level (ft)			30			
	pH (Fid)				7	7.9	
	SC (umhos/cm at 25 C) (Fid)	339.7		336	1571 M	337.3 M	
	SC (umhos/cm at 25 C)	364	357	357	1600 M	361	
	TDS (Measured at 180 C)	240	220	252	1262 M	250 M	
	Water Temperature (C) (Fid)			10.5	13.7	11	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	Amchem2	Amchem2	Amchem2	Amchem2	Amchem2	Amchem2
Water	SAMPLE DATE	10/27/1987	10/27/1987	12/6/1988	4/27/1989	10/25/1989	5/3/1990
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-10000	8710-72	89-1	89-555	89-849	90-1073
	SAMPLE NUMBER	AEH-8710-72	AEH-8710-72	AEH-8812-181	AEH-8904-252	AEH-8910-464	AEH-9005-512
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS	Field Duplicate	Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)		40.2					
Chloride (Cl)				3.7 J	3.5	3	3.8
Magnesium (Mg) (DIS)		8.9					
Potassium (K) (DIS)		5.3					
Sodium (Na) (DIS)		16.4					
Sulfate (SO4)				28 R	30	24	28.3

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.006	<0.002	<0.006	<0.004 J	<0.008 J	<0.008
Arsenic III (dis)	0.008		0.1 J	<0.004	<0.004	1.3 U
Arsenic V (dis)	0.04 M		0.06 J	0.02 J	0.01 J	0.06 U
Cadmium (Cd) (DIS)	0.001	<0.001	<0.001 UJ	<0.002 UJ	<0.001	0.001 U
Copper (Cu) (DIS)	<0.008	0.01	<0.008	0.01	<0.008	<0.008
Iron (Fe +2) (TOT)	0.6		0.3	0.5		
Iron (Fe) (DIS)	0.7	0.5				
Lead (Pb) (DIS)	<0.005 M	0.003	<0.005	<0.02	<0.005	<0.005
Manganese (Mn) (DIS)	0.02	0.01				
Zinc (Zn) (DIS)	0.07	0.07	0.02	0.009	0.02 J	0.01 U

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.4		1.8	4	2.8	3.2
pH			7.2	7.1	7.3	7.9
Depth To Water Level (ft)				26.4		
pH (Fld)	7.9		5.4	6.4		6.6
SC (umhos/cm at 25 C) (Fld)	245.4		340.3	344.7	341.9	353.1
SC (umhos/cm at 25 C)			350 J	330	355	346
TDS (Measured at 180 C)			270 J	431 R	249 J	242
Water Temperature (C) (Fld)	11		11	11.6	13.6	12.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	Amchem2	Amchem2	Amchem2	Amchem2	Amchem2	Amchem2
Water	SAMPLE DATE	12/7/1990	12/7/1990	5/14/1991	11/7/1991	4/22/1992	4/22/1992
	SAMPLE TIME	00:00	00:00	00:00	11:30	12:00	16:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	90-2272	90-2273	91-2819	91-3605	92-4306	92-4304
	SAMPLE NUMBER	AEH-9011-763	AEH-9011-772	AEH-9105-108	AEH-9111-336	AEH-9204-145	AEH-9204-127
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	3.6 J	3.6 J	3.3	3.1	3.2 J	3.3 J
	Sulfate (SO4)	26 J	25 J	27	31	28	28
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.007 U	0.01 U	0.004	<0.004	<0.004	0.005
	Arsenic III (dis)	<0.004 U	<0.004 U	<0.004 J	<0.004 U	<0.004	<0.004
	Arsenic V (dis)	0.004 U	0.005 U	0.02 M	0.04 U	0.004	0.005
	Cadmium (Cd) (DIS)	<0.001	<0.001	0.001	0.001	0.001	0.001
	Copper (Cu) (DIS)	<0.008	<0.008	<0.004	<0.004	<0.004	<0.004
	Lead (Pb) (DIS)	<0.005 UJ	<0.005 UJ	<0.005	<0.005	<0.005 UJ	<0.005
	Zinc (Zn) (DIS)			0.02 U	<0.008	0.009	
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	1	1	3.5	2.5	1.2	1.2
	pH	8.03	8	7.7	7.3	7.5	7.5
	pH (Fld)	7.2	7.2	7.4	7.03	6.8	6.8
	SC (umhos/cm at 25 C) (Fld)	3512 A	3523 A	576.7	328	329	329
	SC (umhos/cm at 25 C)	352	358	349	309	339	341
	TDS (Measured at 180 C)	241 J	237 J	268	250 J	247 J	249 J
	Water Temperature (C) (Fld)	11.7	11.7	13	12	11.8	11.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	Amchem2	Amchem2	Amchem2	Amchem2	Amchem2	Amchem2
Water	SAMPLE DATE	11/20/1992	4/29/1993	11/9/1993	5/10/1994	11/15/1994	5/4/1995
	SAMPLE TIME	09:15	15:00	14:30	09:20	08:45	13:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	92-6810	93-7725	93-9215	94-1343	94-3360	95-4448
	SAMPLE NUMBER	EHC-9211-134	EHC-9305-110	EHC-9311-104	EHC-9405-104	EHC-9411-104	EHC-9505-100
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)	43 J	41 J				
Chloride (Cl)	4.3 U	3	3 J	3.6	3.3	2.9
Magnesium (Mg) (Dis)	9.3	9 J				
Potassium (K) (Dis)	<5	5.3				
Sodium (Na) (Dis)	16	18 J				
Sulfate (SO4)	24	26	27	26 J	25	25
Total Hardness As CaCO3		139				

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic III (dis)	0.1 J	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic V (dis)	0.03 J	0.1 UJ	0.03 J	0.005 J	0.009 U	<0.004
Cadmium (Cd) (DIS)	0.001	0.002 J	0.001	0.001	<0.001	0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	0.01	0.006
Lead (Pb) (DIS)	<0.005 UJ	<0.005	<0.005	<0.005 UJ	<0.005 UJ	<0.005
Zinc (Zn) (DIS)	0.006	0.007	0.4 J	0.2	0.1	0.02 U

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.8	2.4	2.5	1.5	0.9	1.08
pH	7.8				7.3	6.9
pH (Fld)	6.8	6.7	7.7	7.2	7.2	7.8
SC (umhos/cm at 25 C) (Fld)	341	337	327	356 J	338	333
SC (umhos/cm at 25 C)	365	285 J	320 J	347 J	337	329
TDS (Measured at 180 C)	260	267	235	247	254	239
Water Temperature (C) (Fld)	11.7	13.1	11.7	12.8	11.8	12.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	Amchem2	Amchem2	Amchem2	Amchem2	Amchem2	Amchem2
Water	SAMPLE DATE	11/9/1995	11/9/1995	5/10/1996	11/6/1996	5/6/1997	11/11/1997
	SAMPLE TIME	14:10	14:25	11:30	09:15	12:10	09:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-6106	95-6140	96-6768	96-7761	97-897	192-2738
	SAMPLE NUMBER	EHC-9511-100	EHC-9511-189	EHC-9605-100	EHC-9611-100	EHC-9705-100	EHC-9711-100
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl)	2.8 J	2.4 J	3.5	3.6	2	4
Sulfate (SO4)	28 J	24 J	33	37 J	31	26

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.004 J	<0.004	<0.005 J	<0.004	<0.005	<0.005
Arsenic III (dis)	<0.004	<0.004	<0.005 UJ	<0.004	<0.005	0.005 J
Arsenic V (dis)	<0.004	<0.004	0.006 J	<0.004	<0.005	<0.005 J
Cadmium (Cd) (DIS)	0.001	<0.001	<0.005	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.004	<0.004	0.004	<0.004	<0.004	<0.004
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (DIS)	0.01 U	0.009 U	0.02	0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	1.2	1.2	4.7	2.5	5.2	0.9
pH	7.5	7.4	7.2	7.6	7	7.3
Depth To Water Level (ft)					61.9	
pH (Fld)	7.4	7.4	6.3	7.7	6.3	7.3
SC (umhos/cm at 25 C) (Fld)	302	302	299	293	295	308
SC (umhos/cm at 25 C)	348 J	340	275	337	296	328
Total Suspended Solids						1
TDS (Measured at 180 C)	252	262	257	246	263	256
Water Temperature (C) (Fld)	12.6	12.6	27.4	23.1	22.8	13

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	Amchem2	Amchem2	Amchem2	Amchem3	Amchem3
Water	SAMPLE DATE	5/14/1998	12/2/1998	5/13/1999	11/3/1984	5/13/1985
	SAMPLE TIME	09:00	11:20	09:20	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	262-3781	323-4591	348-4908	84-10842	85-3617
	SAMPLE NUMBER	EHC-9805-100	EHC-9811-100	EHC-9905-100	AEH-8411-2	AEH-8505-414
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS					
<b>Common Ions (mg/L): ppm unless noted</b>						
	Bicarbonate (HCO3)	176	172	176 J	207	
	Calcium (Ca) (DIS)	39	36	38	128	
	Carbonate As CO3			<1 UJ	<2	
	Chloride (Cl)	3	2.9	3.2	39	
	Magnesium (Mg) (DIS)	9	8.2	8.7	24	
	Potassium (K) (DIS)	6	<5	5.6	11	
	Sodium (Na) (DIS)	17	15	18	42	
	Sulfate (SO4)	29	29	26	394	
	Total Alkalinity As CACO3	144	141	144 J	170	
<b>Metals (mg/L): ppm unless noted</b>						
	Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.004	<0.004
	Arsenic III (dis)	<0.005	<0.005	<0.005		
	Arsenic V (dis)	<0.005	<0.005	<0.005		
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	0.005	0.001
	Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.01	
	Iron (Fe) (DIS)	0.3 UJ	0.04 J	0.3	0.2	
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.004	<0.005
	Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	1.1	
	Zinc (Zn) (DIS)	<0.02	<0.02	<0.02	0.1	0.02
<b>Physical/Fid-Lab: ppm unless noted</b>						
	Oxygen (O) (DIS) (Fld)	2.6	0.9	2		
	pH	7.4	7.3	7.6	7.7	7.2
	Eh (millivolts)		410	357		
	pH (Fld)	7.01	7.2	7		
	SC (umhos/cm at 25 C) (Fld)	375	318	329	1183	1224
	SC (umhos/cm at 25 C)	340	336	340	1190	1339
	TDS (Measured at 180 C)	254	296	262	845	893
	Water Temperature (C) (Fld)	12.3	11.9	13.3		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	Amchem3	Amchem3	Amchem3	Amchem4	Amchem4
Water	SAMPLE DATE	4/12/1988	7/6/2001	12/20/2001	10/14/1986	10/14/1986
	SAMPLE TIME	00:00	14:15	11:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	RMAL	TSC-SLC
	LAB NUMBER	88-2725	L010989001	L011668010	8610-106	86-6930
	SAMPLE NUMBER	AEH-8804-363	EHC-0106-142	EHC-0111-256	AEH-8610-106	AEH-8610-106
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS				Split	
<b>Common Ions (mg/L): ppm unless noted</b>						
Bicarbonate (HCO3)		102	134	168	105	113
Calcium (Ca) (DIS)		31	34	116	32	
Carbonate As CO3		<1	<1	<1	<5	
Chloride (Cl)		4 J	3.9	54	<3	
Magnesium (Mg) (DIS)		7	8	23	7.7	
Potassium (K) (DIS)		4.5	<5	10	4.2	
Sodium (Na) (DIS)		14.4	15	119	14.8	
Sulfate (SO4)		32	34	370	21	25
Total Alkalinity As CACO3			110	138		
<b>Metals (mg/L): ppm unless noted</b>						
Aluminum (Al) (DIS)				<0.05		
Arsenic (As) (DIS)		<0.006	<0.005	<0.005	<0.01	<0.006
Arsenic III (dis)		0.01	<0.005	<0.005		
Arsenic V (dis)		0.009	<0.005	<0.005		
Cadmium (Cd) (DIS)		<0.001	<0.001	<0.001	<0.005 M	<0.001
Copper (Cu) (DIS)			<0.004	0.05	<0.004	
Iron (Fe +2) (TOT)		0.01				0.04
Iron (Fe) (DIS)		<0.02	<0.02	0.1	<0.03	0.04
Lead (Pb) (DIS)		<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)			<0.02	0.4	<0.004	
Zinc (Zn) (DIS)		0.01	<0.02	<0.02	<0.002	<0.008
<b>Physical/Fld-Lab: ppm unless noted</b>						
Oxidation Reduction Potential			225.6	81.3		
Oxygen (O) (DIS) (Fld)		2.4		2.03		1.1
pH		7.3	7.1	6.8	7.5	7.5
Silicon+Silica (Si+SiO2)				38		
Eh (millivolts)			469	286		
pH (Fld)		7.2	7.3	8.04		6.9
SC (umhos/cm at 25 C) (Fld)		287.1	306	1676		257
SC (umhos/cm at 25 C)		275	306	1218	270	270
Total Suspended Solids				<1		
TDS (Measured at 180 C)		224 J	254	890	205	234
Water Temperature (C) (Fld)		21.2	11.8	12.8		13.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	Amchem4	Amchem4	Amchem4	Amchem4	Amchem4	Amchem4
Water	SAMPLE DATE	2/20/1987	12/6/1988	4/27/1989	10/25/1989	5/3/1990	12/7/1990
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-3028	89-2	89-701	89-850	90-1074	90-2274
	SAMPLE NUMBER	AEH-8704-35	AEH-8812-209	AEH-8904-286	AEH-8910-465	AEH-9005-513	AEH-9011-764
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	132 M						
Calcium (Ca) (DIS)	30						
Carbonate As CO3	<1						
Chloride (Cl)	2	2.7 J	3.5	3	3.4	3.1 J	
Magnesium (Mg) (DIS)	6.7						
Potassium (K) (DIS)	4.4						
Sodium (Na) (DIS)	14						
Sulfate (SO4)	29	24 R	33	29	32.5	27 J	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.008	<0.006	0.5 J	<0.008 J	<0.008	<0.006
Arsenic III (dis)	<0.004	0.1 J	<0.004	<0.004	1.6 U	<0.004 U
Arsenic V (dis)	0.01	0.05 J	0.01 J	0.01 J	<0.008	0.007 U
Cadmium (Cd) (DIS)	<0.001	0.001 J	<0.002 UJ	<0.001	0.001 U	<0.001
Copper (Cu) (DIS)	<0.008	<0.008	0.04	<0.008	<0.008	<0.008
Iron (Fe +2) (TOT)	<0.01	0.1	<0.01			
Iron (Fe) (DIS)	0.03					
Lead (Pb) (DIS)	<0.005 M	<0.005	<0.02	<0.005 UJ	<0.005	<0.005 UJ
Manganese (Mn) (DIS)	0.004					
Zinc (Zn) (DIS)	<0.008	0.01	<0.008	<0.008 J	0.009 U	

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.2	2.5	4.1	2.5	3.3	1.8
pH	7.05	7.4	7.1	7.6	7.8	8
Depth To Water Level (ft)			78.8			
pH (Fld)	7.1	5.2	6.9		6.9	7.09
SC (umhos/cm at 25 C) (Fld)	270	249.8	289.8	290.3	293	2916 A
SC (umhos/cm at 25 C)	278	260 J	262	300	292	358
TDS (Measured at 180 C)	218	246 J	361 R	227 J	220	232 J
Water Temperature (C) (Fld)	14.6	16.9	11.3	14.9	16.7	15.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	Amchem4	Amchem4	Amchem4	Amchem4	Amchem4	Amchem4
Water	SAMPLE DATE	5/14/1991	11/7/1991	4/22/1992	11/20/1992	4/29/1993	11/9/1993
	SAMPLE TIME	00:00	12:00	17:00	08:40	15:40	14:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	91-2820	91-3604	92-4301	92-6812	93-7726	93-9229
	SAMPLE NUMBER	AEH-9105-109	AEH-9111-313	AEH-9204-115	EHC-9211-145	EHC-9305-111	EHC-9311-105
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Calcium (Ca) (Dis)				34	34 J	
	Chloride (Cl)	3	3.1	3.4 J	3.1 U	2.9	2.8 J
	Magnesium (Mg) (Dis)				7.6	7.6 J	
	Potassium (K) (Dis)				<5	4.7	
	Sodium (Na) (Dis)				14	16 J	
	Sulfate (SO4)	30	33	31	24	30	34
	Total Hardness As CaCO3					116	
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.004	<0.004	0.005	<0.004	<0.004	<0.004
	Arsenic III (dis)	<0.004 UJ	<0.004 U	<0.004		<0.004	<0.004
	Arsenic V (dis)	0.02 M	0.01 U	0.004		0.09 UJ	0.03
	Cadmium (Cd) (DIS)	<0.001	<0.001	0.001	0.002	0.001 J	0.001
	Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
	Lead (Pb) (DIS)	<0.005	<0.005 J	<0.005	<0.005 J	<0.005	<0.005 UJ
	Zinc (Zn) (DIS)	0.02 U	<0.008	0.006	<0.006	0.2	1.2
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	3.9	2.5	3.8	3	3.4	1.5
	pH	7.7	6.8	7.7	8		
	Depth To Water Level (ft)	68.9					
	pH (Fld)	7.5	7.2	7.02	7.08	6.7	7.08
	SC (umhos/cm at 25 C) (Fld)	295.2	291	286	283	290	278
	SC (umhos/cm at 25 C)	290	261	289	305	245 J	280 J
	TDS (Measured at 180 C)	251	238 J	241	250	259	233
	Water Temperature (C) (Fld)	19	16	17.4	21.5	21.5	22.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	Amchem4	Amchem4	Amchem4	Amchem4	Amchem4	Amchem4
Water	SAMPLE DATE	5/10/1994	11/15/1994	5/4/1995	11/9/1995	5/10/1996	11/6/1996
	SAMPLE TIME	08:30	09:15	14:00	14:40	11:55	15:25
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1335	94-3361	95-4449	95-6107	96-6769	96-7730
	SAMPLE NUMBER	EHC-9405-105	EHC-9411-105	EHC-9505-101	EHC-9511-101	EHC-9605-101	EHC-9611-101
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl)	3.3	3	2.8	2.4 J	3.9	3.6
	Sulfate (SO4)	30 J	29	29	29 J	27	23 J
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.005	<0.004	<0.004	<0.004 J	<0.005	<0.004
	Arsenic III (dis)	<0.004	<0.004	<0.004	<0.004	<0.005 UJ	<0.004
	Arsenic V (dis)	0.01 J	0.01 U	<0.004	<0.004 J	<0.005 UJ	<0.004
	Cadmium (Cd) (DIS)	0.001	0.001	<0.001	0.001	<0.005	<0.001
	Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.004	<0.004	<0.004
	Lead (Pb) (DIS)	<0.005	<0.005 UJ	<0.005	<0.005	<0.005	<0.005
	Zinc (Zn) (DIS)	0.04	0.06	0.01 U	0.07	<0.02	0.01
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	5.5	2.3	1.3	5.1	1.3	2.3
	pH		7.3	7	7.5	7	7.5
	pH (Fld)	7.3	7.2	7.02	7.5	6.9	7.7
	SC (umhos/cm at 25 C) (Fld)	297 J	288	290	255	343	329
	SC (umhos/cm at 25 C)	290	288	288	293 J	320	332
	TDS (Measured at 180 C)	236	262	233	285	248	270
	Water Temperature (C) (Fld)	24.6	18.8	27.5	24.7	12.6	12.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	Amchem4	Amchem4	Amchem4	Amchem4	Amchem4	Amchem4
Water	SAMPLE DATE	5/6/1997	11/11/1997	5/14/1998	12/2/1998	5/13/1999	11/5/1999
	SAMPLE TIME	12:45	08:40	09:20	11:00	09:00	14:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	97-898	192-2739	262-3782	323-4592	349-4939	L992007001
	SAMPLE NUMBER	EHC-9705-101	EHC-9711-101	EHC-9805-101	EHC-9811-101	EHC-9905-101	EHC-9911-101
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)			144	137	142	132
	Calcium (Ca) (DIS)			32	31	32	32
	Carbonate As CO3					<1	<1
	Chloride (Cl)	2	4	4	3.3	4.1	3.2 J
	Magnesium (Mg) (DIS)			8	7.4	7.6	7.6
	Potassium (K) (DIS)			<5	<5	<5	<5
	Sodium (Na) (DIS)			15	15	16	15
	Sulfate (SO4)	25	33	34	36	33	32 J
	Total Alkalinity As CaCO3			118	112	116	108
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Arsenic III (dis)	<0.005	<0.005 J	<0.005	<0.005	0.007	<0.005
	Arsenic V (dis)	<0.005	<0.005 J	<0.005	<0.005	0.007	<0.005
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004 J
	Iron (Fe) (DIS)			<0.05 J	<0.02 J	0.2	<0.02
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)			<0.02	<0.02	<0.02	<0.02
	Zinc (Zn) (DIS)	<0.02	<0.02	0.02 U	<0.02	<0.02	<0.02 J
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fid)	4.8	0.9	2.8	2.2	2.09	3.1
	pH	7	7.3	7.4	7.2	8.1	7.6
	Depth To Water Level (ft)	0.0	0.0				
	Eh (millivolts)				385	378	369
	pH (Fid)	6.6	7.2	7.1	7	6.7	6.8
	SC (umhos/cm at 25 C) (Fid)	327	291	341	307	299	320
	SC (umhos/cm at 25 C)	332	296	299	305	304	304
	Total Suspended Solids		<1				2.5 J
	TDS (Measured at 180 C)	255	247	251	281	268	716 R
	Water Temperature (C) (Fid)	12.8	19.9	16.8	16.6	17.3	16.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	Amchem4	Amchem4	Amchem4	Amchem4	Amchem4	Amchem4
Water	SAMPLE DATE	5/9/2000	10/30/2000	5/11/2001	12/20/2001	12/20/2001	6/26/2002
	SAMPLE TIME	10:30	14:30	15:20	11:15	11:20	10:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L000705001	L001833003	L010691015	L011668011	L011668012	L020498005
	SAMPLE NUMBER	EHC-0005-100	EHC-0011-100	EHC-0105-100	EHC-0111-257	EHC-0111-258	EHC-0205-261
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	134	132	142	134	134	134
Calcium (Ca) (DIS)	32	34	34	34	34	35
Carbonate As CO3	<1	<1		<1	<1	<1
Chloride (Cl)	3.8	4.9 J	3.6	4.4	4.2	3.4
Magnesium (Mg) (DIS)	7.7	7.8	8	7.9	7.9	8
Potassium (K) (DIS)	<5	<5	<5	<5	<5	<5
Sodium (Na) (DIS)	14	16	16	16	15	15
Sulfate (SO4)	37	36	35	37	34	36
Total Alkalinity As CaCO3	110	108	116	110	110	110

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.05	<0.05	<0.05	
Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)	0.006 UJ	<0.02	<0.005	<0.005	<0.005	
Arsenic V (dis)	0.01 U	<0.02	<0.005	<0.005	<0.005	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.02
Iron (Fe) (DIS)	0.1 UJ	<0.02	<0.05	0.03	0.03	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc (Zn) (DIS)	0.02	<0.02	0.05	<0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				74	73.8	
Oxygen (O) (DIS) (Fld)	8.9	2.4	3.2	1.8	1.8	0.9
pH	7.4	7.4	8.1	6.7	6.5	6.4
Silicon+Silica (Si+SiO2)			66	64	63	
Eh (millivolts)	317	436	212	279	279	
pH (Fld)	7.4	7.3	7.5	8.2	8.1	7.4
SC (umhos/cm at 25 C) (Fld)	297	291	308	391	389	300
SC (umhos/cm at 25 C)	303	304	308	311	310	308
Total Suspended Solids		<1	1.3	4	4.2	
TDS (Measured at 180 C)	245	247	254	248	250	208
Water Temperature (C) (Fld)	17	15.8	17.5	14	14	18.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	Amchem4	Amchem4	Amchem4	Amchem4	Amchem4	Amchem4
Water	SAMPLE DATE	10/30/2002	5/1/2003	5/5/2004	5/4/2005	5/25/2005	5/24/2006
	SAMPLE TIME	14:45	14:30	14:30	14:30	10:15	10:00
	LAB	TSC-SLC	TSC-SLC	ELI	ELI-Casper	ELI-Casper	ELI-Hel
	LAB NUMBER	L020899009	L030190010	H04050036-013	C05050186-016	C05050997-006	C06051139-006
	SAMPLE NUMBER	EHR-0210-108	EHR-0305-109	EHR-0504-312	EHR-0505-315	EHR-0505-321	EHR-0506-325
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	137	139	140	135	138	129
	Calcium (Ca) (DIS)	36	35	39	35	35	38
	Carbonate As CO3	<1	<2				
	Chloride (Cl)	4.9	4.8	3	5	6	4
	Magnesium (Mg) (DIS)	8.3	8.3	9	8	8	9
	Potassium (K) (DIS)	<5	<5	6	<5	<5	<5
	Sodium (Na) (DIS)	15	15	15 UJ	13	13	15
	Sulfate (SO4)	35	42	43	43	40	46
	Total Alkalinity As CaCO3	112	114	110	111	113	110
<b>Metals (mg/L): ppm unless noted</b>							
	Aluminum (Al) (DIS)	<0.05					
	Arsenic (As) (DIS)	<0.005	<0.005	<0.002	0.002	<0.002	<0.002
	Arsenic III (dis)		<0.005		<0.005	<0.005	<0.005
	Arsenic V (dis)		<0.005		<0.005	<0.005	<0.005
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.006
	Iron (Fe) (DIS)	<0.02	<0.02	<0.02	0.1 J	<0.02	0.04
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.03
	Manganese (Mn) (DIS)	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02
	Zinc (Zn) (DIS)	<0.02	<0.02	<0.01	<0.02	0.24	<0.02
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)		4.3	5	7.26	4.78	8.03
	pH	7.9	7.3	7.4	7.32	7.51	8.64
	Silicon+Silica (Si+SiO2)	61					
	pH (Fld)	6.6	6.2	6.6	7.21	7.48	7.43
	SC (umhos/cm at 25 C) (Fld)	315	264	428	304	290	286
	SC (umhos/cm at 25 C)	314	318	286	323	327	305
	Total Suspended Solids	<1	<1	<10	<10	<10	<10
	TDS (Measured at 180 C)	267	245	264	249	264	198
	TDS - Calculated						245
	Salinity (G/KG) (Fld)			0.1			
	Water Temperature (C) (Fld)		15.9	14.8	15.3	16.5	13.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	Amchem4	Amchem4	Amchem4	Amchem4	ASARCO-2
Water	SAMPLE DATE	5/22/2007	6/21/2007	5/20/2008	5/19/2009	8/3/2001
	SAMPLE TIME	15:10	12:00	11:50	10:40	10:45
	LAB	ELI	ELI	ELI	ELI	TSC-SLC
	LAB NUMBER	H07050263-012	H07060248-008	H08050343-006	H09050267-006	L011133001
	SAMPLE NUMBER	EHR-0507-324	EHR-0607-307	EHR-0508-319	EHR-0509-320	EHC-0106-102
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS					
<b>Common Ions (mg/L): ppm unless noted</b>						
	Bicarbonate (HCO3)	140	140	140	140	145
	Calcium (Ca) (DIS)	38	37 UJ	41	38	32
	Chloride (Cl)	15	5 UJ	6	5	6.3
	Magnesium (Mg) (DIS)	9	8 UJ	9	9	7.1
	Potassium (K) (DIS)	4	4	4	4	<5
	Sodium (Na) (DIS)	16	14 UJ	15	15	24
	Sulfate (SO4)	40	41 UJ	43	45	41
	Total Alkalinity As CaCO3	110	120 UJ	110	110	119
<b>Metals (mg/L): ppm unless noted</b>						
	Selenium-IV (DIS)	<0.005				
	Selenium-VI (DIS)	<0.005				
	Aluminum (Al) (DIS)	<0.1		<0.1	<0.1	<0.05
	Antimony (Sb) (DIS)	<0.005		<0.005	<0.003	
	Arsenic (As) (DIS)	0.002	<0.002	<0.002	<0.002	0.005
	Arsenic III (DIS)	<0.005				<0.005
	Arsenic V (DIS)	<0.005				<0.005
	Barium (Ba) (DIS)	<0.1		<0.1	<0.1	
	Beryllium (Be) (DIS)	<0.001		<0.001	<0.001	
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
	Chromium (Cr) (DIS)	<0.001		<0.001	<0.001	
	Cobalt (Co) (DIS)	<0.01		<0.01	<0.01	
	Copper (Cu) (DIS)	<0.004	<0.004	<0.004	0.001	<0.004
	Gold (Au) (DIS)				<0.01	
	Iron (Fe) (DIS)	<0.02	<0.02	0.11	<0.02	<0.02
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.02
	Mercury (Hg) (DIS)	<0.006		<0.006	<0.001	
	Nickel (Ni) (DIS)	<0.01		<0.01	<0.01	
	Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.001	
	Silver (Ag) (DIS)	<0.005		<0.005	<0.005	
	Tellurium (Te) (DIS)				<0.1	
	Thallium (Tl) (DIS)	<0.002		<0.002	<0.001	
	Tin (Sn) (DIS)	<0.1		<0.1		
	Vanadium (V) (DIS)	<0.01		<0.01	<0.01	
	Zinc (Zn) (DIS)	<0.01	<0.02	<0.01	<0.01	0.3
<b>Nutrients: ppm unless noted</b>						
	Total Organic Carbon	<0.5				
<b>Physical/Fid-Lab: ppm unless noted</b>						
	Oxidation Reduction Potential					226.2
	Oxygen (O) (DIS) (Fld)	15.07	12.05	10.2	9.67	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	Amchem4	Amchem4	Amchem4	Amchem4	ASARCO-2
Water	SAMPLE DATE	5/22/2007	6/21/2007	5/20/2008	5/19/2009	8/3/2001
	SAMPLE TIME	15:10	12:00	11:50	10:40	10:45
	LAB	ELI	ELI	ELI	ELI	TSC-SLC
	LAB NUMBER	H07050263-012	H07060248-008	H08050343-006	H09050267-006	L011133001
	SAMPLE NUMBER	EHR-0507-324	EHR-0607-307	EHR-0508-319	EHR-0509-320	EHC-0106-102
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS					
<b>Physical/Fid-Lab: ppm unless noted</b>						
	pH	7.9	7.7	7.5	7.6	8.3
	Silicon+Silica (Si+SiO2)					37
	Eh (millivolts)					462
	pH (Fld)	7.56	7.51	7.15	7.04	7.5
	SC (umhos/cm at 25 C) (Fld)	276	234	273 R	230	360
	SC (umhos/cm at 25 C)	326	322 UJ	621	338	327
	Total Suspended Solids	40	19	27	94	1.4
	TDS (Measured at 180 C)		260 UJ	249	253	221
	Water Temperature (C) (Fld)	13.9	15	15	14.4	14.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	ASRWELL	ASRWELL	ASRWELL	ASRWELL	ASRWELL	ASRWELL
Water	SAMPLE DATE	1/29/1987	1/29/1987	1/29/1987	3/16/1987	3/16/1987	5/5/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	CHMTC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	CHMTC
	LAB NUMBER	8701-116	87-657	87-658	87-1633	87-1636	8704-39
	SAMPLE NUMBER	AEH-8701-116	AEH-8701-116	AEH-8701-130	AEH-8703-01	AEH-8703-04	AEH-8704-39
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS	Split		Field Duplicate		Field Duplicate	Split
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)		234				
	Calcium (Ca) (DIS)	51.5	70 M				52.5
	Carbonate As CO3		<1				
	Chloride (Cl)	340 M	3				5
	Magnesium (Mg) (DIS)	11.7	16 M				12.2
	Potassium (K) (DIS)	5.03 M	6				6
	Sodium (Na) (DIS)	19.3	19				19.7
	Sulfate (SO4)	12.8	13				22.7
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.03	0.02 M	0.05 M	0.01	0.01	0.01
	Arsenic III (dis)		0.05	0.05	0.01	0.01	
	Arsenic V (dis)		<0.008 M	0.04 M	0.005	0.005	
	Cadmium (Cd) (DIS)	<0.005 M	<0.001	<0.001	0.001	0.001	<0.004
	Copper (Cu) (DIS)	<0.02	<0.008	<0.008	<0.008	0.01 M	0.03 M
	Iron (Fe +2) (TOT)		0.9	0.9	1.3	1.3	
	Iron (Fe) (DIS)	0.9	0.9	0.8	1.5	1.5	1.5
	Lead (Pb) (DIS)	<0.003	<0.005 M	<0.005 M	<0.005	<0.005 M	<0.003
	Manganese (Mn) (DIS)	0.09	0.08 M	0.09 M	0.09	0.09	0.08
	Zinc (Zn) (DIS)	0.07 M	0.02	0.02	0.008 M	0.008	<0.02
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)		2.1	2.1			
	pH		7.1				
	Depth To Water Level (ft)		26.7	26.7			
	pH (Fld)		6.03	6.03			
	SC (umhos/cm at 25 C) (Fld)		415.1	409.1			
	SC (umhos/cm at 25 C)		385				
	TDS (Measured at 180 C)	349 M	292				311

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	ASRWELL	BRNHM1	BRNHM1	BRNHM1	BRNHM1
Water	SAMPLE DATE	5/5/1987	10/17/1983	10/17/1983	11/2/1984	11/2/1984
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	EPA-USGS	TSC-SLC	CAL
	LAB NUMBER	87-3027	HYD-8960	HYD-8961	84-10849	S5388
	SAMPLE NUMBER	AEH-8704-39	AEH-8310-03	AEH-8310-04	AEH-8411-9	AEH-8411-9-S
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS			Split		Split
<b>Common Ions (mg/L): ppm unless noted</b>						
	Bicarbonate (HCO3)	244			217	234
	Calcium (Ca) (DIS)	50		44	58	49.2
	Carbonate As CO3	<1				
	Chloride (Cl)	3		4	4.3	5.5
	Magnesium (Mg) (DIS)	10.8		3	13	10.8
	Potassium (K) (DIS)	6.5		11	4.2	1.3
	Sodium (Na) (DIS)	19.4		17	14	19
	Sulfate (SO4)	21		61	49.6	50
	Total Alkalinity As CACO3				178	192
<b>Metals (mg/L): ppm unless noted</b>						
	Aluminum (Al) (DIS)					0.2
	Antimony (Sb) (DIS)					<0.01
	Arsenic (As) (DIS)	0.01	0.04	<0.01	<0.004	0.005
	Arsenic III (dis)	0.008				
	Arsenic V (dis)	0.01				
	Barium (Ba) (DIS)					0.06
	Beryllium (Be) (DIS)					<0.0006
	Cadmium (Cd) (DIS)	0.001	<0.004	0.003	0.001	<0.004
	Chromium (Cr) (DIS)					<0.002
	Cobalt (Co) (DIS)					<0.007
	Copper (Cu) (DIS)	<0.008	0.01	<0.05	0.02	0.03
	Iron (Fe +2) (TOT)	1.3				
	Iron (Fe) (DIS)	1.3		0.2	0.04	0.09
	Lead (Pb) (DIS)	<0.005 M	<0.03	0.009	<0.005	<0.003
	Manganese (Mn) (DIS)	0.09			<0.004	0.003
	Mercury (Hg) (DIS)					<0.0002
	Nickel (Ni) (DIS)					<0.03
	Selenium (Se) (DIS)					<0.002
	Silver (Ag) (DIS)					<0.003
	Thallium (Tl) (DIS)					<0.002
	Tin (Sn) (DIS)					<0.04
	Vanadium (V) (DIS)					<0.004
	Zinc (Zn) (DIS)	<0.008			0.04	<0.003
<b>Physical/Fid-Lab: ppm unless noted</b>						
	Oxygen (O) (DIS) (Fld)	1.9				
	pH	6.9	7.3		7.8	7.6
	pH (Fld)	7.04				
	SC (umhos/cm at 25 C) (Fld)	415.8			463.5	
	SC (umhos/cm at 25 C)	470	375		463	286

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	ASRWELL	BRNHM1	BRNHM1	BRNHM1
Water	SAMPLE DATE	5/5/1987	10/17/1983	11/2/1984	11/2/1984
	SAMPLE TIME	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	CAL
	LAB NUMBER	87-3027	HYD-8960	84-10849	S5388
	SAMPLE NUMBER	AEH-8704-39	AEH-8310-03	AEH-8411-9	AEH-8411-9-S
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION				
	REMARKS				Split

**Physical/Fid-Lab: ppm unless noted**

Total Suspended Solids				17
TDS (Measured at 180 C)	312		284	360
Water Temperature (C) (Fld)	13.4	8		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	BRNHM1	BRNHM1	CASEY	ERNST/FOX
Water	SAMPLE DATE	5/13/1985	5/13/1985	5/1/1989	5/14/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	JTC
	LAB NUMBER	85-3613	85-3624	89-566	8505-457
	SAMPLE NUMBER	AEH-8505-407	AEH-8505-421	AEH-8904-296	AEH-8505-457
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION				
	REMARKS	Field Duplicate			Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)					142
Calcium (Ca) (DIS)					170
Chloride (Cl)				3	52
Magnesium (Mg) (DIS)					37.1
Potassium (K) (DIS)					5.5
Sodium (Na) (DIS)					64.1
Sulfate (SO4)				52	689
Total Alkalinity As CaCO3					116

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)					<0.1
Antimony (Sb) (DIS)					<0.05
Arsenic (As) (DIS)	<0.004	0.005		0.004 R	0.008
Arsenic III (dis)				<0.004	
Arsenic V (dis)				0.03	
Barium (Ba) (DIS)					0.04
Beryllium (Be) (DIS)					<0.005
Cadmium (Cd) (DIS)	<0.001	<0.001		<0.002 UJ	<0.004
Chromium (Cr) (DIS)					<0.008
Cobalt (Co) (DIS)					<0.02
Copper (Cu) (DIS)				<0.008	<0.02
Iron (Fe +2) (TOT)				<0.01	
Iron (Fe) (DIS)					7.8
Lead (Pb) (DIS)	<0.005	<0.005		<0.02	<0.03
Manganese (Mn) (DIS)					0.09
Mercury (Hg) (DIS)					0.0003
Nickel (Ni) (DIS)					<0.02
Selenium (Se) (DIS)					<0.03
Silver (Ag) (DIS)					<0.01
Thallium (Tl) (DIS)					<0.1
Tin (Sn) (DIS)					<0.03
Vanadium (V) (DIS)					<0.03
Zinc (Zn) (DIS)	0.06	0.03		<0.008	0.01

**Physical/Fid-Lab: ppm unless noted**

pH		7.6		7.2 J	6.6
SC (umhos/cm at 25 C) (Fld)		365.4		263.6	
SC (umhos/cm at 25 C)		397		245	452
Total Suspended Solids					20
TDS (Measured at 180 C)		226		805 J	1036

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	ERNST/FOX	ERNST/FOX	ERNST/FOX	ERNST/FOX	ERNST/FOX	ERNST/FOX
Water	SAMPLE DATE	5/14/1985	10/14/1986	10/14/1986	4/28/1987	4/28/1987	11/2/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	RMAL	TSC-SLC	CHMTC	TSC-SLC	TSC-SLC
	LAB NUMBER	85-3627	8610-115	86-6925	8704-47	87-2847	87-10021
	SAMPLE NUMBER	AEH-8505-457	AEH-8610-115	AEH-8610-115	AEH-8704-47	AEH-8704-47	AEH-8710-62
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS		Split		Split		
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3)	132	137	154		165	171	
Calcium (Ca) (DIS)	185	186		171			
Carbonate As CO3		<5					
Chloride (Cl)	44	56		80 M			
Magnesium (Mg) (DIS)	40	42		39			
Potassium (K) (DIS)	7.4	6.9		5.8			
Sodium (Na) (DIS)	65	71		69			
Sulfate (SO4)	581	499	488	480	550	535	
Total Alkalinity As CaCO3	108						
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)	<0.004	<0.01	<0.006	<0.009	<0.006	0.01 M	
Arsenic III (dis)			<0.008		0.01 M	<0.008	
Arsenic V (dis)			0.04 M		0.02 M	0.03	
Cadmium (Cd) (DIS)	<0.001	<0.005	<0.001	<0.004	<0.001	0.001	
Copper (Cu) (DIS)	0.008	<0.004		<0.02		<0.008	
Iron (Fe +2) (TOT)			4.8		2.8	3.9	
Iron (Fe) (DIS)	6.5	4.5	4.2	1.5	1.3	3	
Lead (Pb) (DIS)	<0.005	<0.5 M	<0.005	<0.003	<0.005 M	<0.005	
Manganese (Mn) (DIS)	0.08	0.08		0.02 M		0.05	
Zinc (Zn) (DIS)	0.03	0.006	0.02	<0.02	0.008 M	<0.008	
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld)			0.7		1.9	1.5	
pH	7.1	7.3	7.3		6.9	8.01	
Depth To Water Level (ft)						21.4	
pH (Fld)			6.4		6	6.3	
SC (umhos/cm at 25 C) (Fld)	1354		1332		1329	1302	
SC (umhos/cm at 25 C)	1450	1350	1350		1280	1380	
TDS (Measured at 180 C)	1078	1040	1004	550 M	1009	999	
Water Temperature (C) (Fld)			11.6		11.8	11.4	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	ERNST/FOX	ERNST/FOX	ERNST/FOX	FLEISNER	FLEISNER
Water	SAMPLE DATE	4/6/1988	4/6/1988	8/3/2001	11/20/2007	11/20/2007
	SAMPLE TIME	00:00	00:00	13:30	09:30	09:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	88-2621	88-2610	L011133003	H07110159-001	H07110159-002
	SAMPLE NUMBER	AEH-8804-374	AEH-8804-385	EHC-0106-112	EHR-1107-400	EHR-1107-401
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION				Special Samp	
	REMARKS		Field Duplicate			Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	141 J		70		
Bicarbonate (HCO3) (DIS)				120	120
Calcium (Ca) (DIS)	162		17	1	1
Carbonate As CO3	<1 J				
Chloride (Cl)	34		61	84	82
Magnesium (Mg) (DIS)	34		2.9	<1	<1
Potassium (K) (DIS)	6.9		<5	3	3
Sodium (Na) (DIS)	62		102	96	96
Sulfate (SO4)	442		161	7	7
Total Alkalinity As CaCO3			57	120	120

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.05		
Arsenic (As) (DIS)	<0.006	<0.006	<0.005	0.002	0.002
Arsenic III (dis)	<0.008	<0.008	<0.005		
Arsenic V (dis)	0.01	0.01	<0.005		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)			<0.004	<0.004	<0.004
Iron (Fe +2) (TOT)	1	1.2			
Iron (Fe) (DIS)	2.9 J	2.4 J	0.4	0.03	0.02
Lead (Pb) (DIS)	<0.005 J	<0.005 J	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)			0.06	<0.01	<0.01
Selenium (Se) (DIS)				0.007	0.009
Zinc (Zn) (DIS)	0.01	0.02	<0.02	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential			231.2		
Oxygen (O) (DIS) (Fid)	1.1	1.1		3.08	
pH	6.8		7.6	9.5	9.5
Silicon+Silica (Si+SiO2)			2.9		
Depth To Water Level (ft)	26.5	26.5	19	23.52	
Eh (millivolts)			467		
pH (Fid)	6.5	6.5	7.9	9.1	
SC (umhos/cm at 25 C) (Fid)		1149	699	420	
SC (umhos/cm at 25 C)	1080		638	508	516
Total Suspended Solids			64	32	30
TDS (Measured at 180 C)	1004 J		390	268	266
Water Temperature (C) (Fid)	12.8	12.8	15.1	8.5	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	HOFF/BROWN	HOFF/BROWN	HOFF/BROWN	HOFF/BROWN	HOFF/BROWN	HOFF/BROWN
Water	SAMPLE DATE	3/7/1983	10/17/1983	10/17/1983	5/14/1985	10/14/1986	10/14/1986
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	EPA-USGS	TSC-SLC	RMAL	TSC-SLC
	LAB NUMBER	HYD-9089	HYD-9090	HYD-9091	85-3625	8610-119	86-6945
	SAMPLE NUMBER	AEH-8303-01	AEH-8310-05	AEH-8310-06	AEH-8505-455	AEH-8610-119	AEH-8610-119
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS			Split		Split	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)				196	181	231
	Calcium (Ca) (DIS)			82	165	170	
	Carbonate As CO3					<5	
	Chloride (Cl)				41	42 M	
	Magnesium (Mg) (DIS)			3.9	44	44	
	Potassium (K) (DIS)			25	6.2	5.4	
	Sodium (Na) (DIS)			33	58	69.8	
	Sulfate (SO4)				443	453	420
	Total Alkalinity As CaCO3				161		
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.004	<0.005	<0.01	<0.004	<0.01	<0.006
	Arsenic III (dis)						<0.008
	Arsenic V (dis)						0.01 M
	Cadmium (Cd) (DIS)	<0.003	<0.004	<0.001	<0.001	<0.005	<0.001
	Copper (Cu) (DIS)	0.04	0.02	<0.05	0.02	0.08 M	
	Iron (Fe +2) (TOT)						0.01
	Iron (Fe) (DIS)			0.2	<0.02	<0.03	0.03
	Lead (Pb) (DIS)	0.1	<0.03	<0.005	<0.005	<0.05	<0.005
	Manganese (Mn) (DIS)				0.006	<0.004	
	Zinc (Zn) (DIS)	0.01			0.01	0.02	0.02
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)						4.1
	pH		7.09		7.4	7.5	7.5
	pH (Fld)						7.03 M
	SC (umhos/cm at 25 C) (Fld)				1218		1280
	SC (umhos/cm at 25 C)		565		1352	1330	1330
	TDS (Measured at 180 C)				1018	1000	978
	Water Temperature (C) (Fld)		10.5				11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	HOFF/BROWN	HOFF/BROWN	JENSA1	JENSA1
Water	SAMPLE DATE	4/28/1987	4/28/1987	10/17/1983	10/17/1983
	SAMPLE TIME	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	EPA-USGS
	LAB NUMBER	87-2843	87-2845	HYD-9093	HYD-9094
	SAMPLE NUMBER	AEH-8704-51	AEH-8704-60	AEH-8310-07	AEH-8310-09
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION				
	REMARKS		Field Duplicate		Split

### Common Ions (mg/L): ppm unless noted

Bicarbonate (HCO3)	250		
Calcium (Ca) (DIS)			80
Magnesium (Mg) (DIS)			3.7
Potassium (K) (DIS)			12
Sodium (Na) (DIS)			7.8
Sulfate (SO4)	660 M		

### Metals (mg/L): ppm unless noted

Arsenic (As) (DIS)	<0.006	<0.006	0.006	<0.01
Arsenic III (dis)	0.04 M	0.01		
Arsenic V (dis)	0.008	0.008		
Cadmium (Cd) (DIS)	0.001	<0.001	<0.004	<0.001
Copper (Cu) (DIS)			0.005	<0.05
Iron (Fe +2) (TOT)	<0.01	<0.01		
Iron (Fe) (DIS)	0.02	0.03		0.3
Lead (Pb) (DIS)	<0.005 M	<0.005 M	<0.03	<0.005
Zinc (Zn) (DIS)	0.06 M	0.02 M		

### Physical/Fld-Lab: ppm unless noted

Oxygen (O) (DIS) (Fld)	3.7	3.7		
pH	7		7.2	
pH (Fld)	6.5	6.6		
SC (umhos/cm at 25 C) (Fld)	1674	1676		
SC (umhos/cm at 25 C)	1650		380	
TDS (Measured at 180 C)	1316 M			
Water Temperature (C) (Fld)	12.4	12.4	11	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	KAMRMN	KAMRMN	KAMRMN	LAMPC	LAMPC
Water	SAMPLE DATE	2/6/1987	2/6/1987	2/6/1987	6/17/1983	10/17/1983
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	CHMTC	TSC-SLC	TSC-SLC	EPA-USGS	TSC-SLC
	LAB NUMBER	8701-118	87-794	87-795	HYD-9150	HYD-9151
	SAMPLE NUMBER	AEH-8701-118	AEH-8701-118	AEH-8701-144	AEH-8306-01	AEH-8310-08
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS	Split		Field Duplicate	Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		81	
Calcium (Ca) (DIS)	52	69 M	56
Carbonate As CO3		<1	
Chloride (Cl)	11	6	
Magnesium (Mg) (DIS)	11.7	16.4	29.9
Potassium (K) (DIS)	5.9	6.8	
Sodium (Na) (DIS)	20.3	22	
Sulfate (SO4)	132	130	

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			0.2
Antimony (Sb) (DIS)			0.08
Arsenic (As) (DIS)	<0.009 M	<0.006	<0.006
Arsenic III (dis)		0.01	0.02
Arsenic V (dis)		<0.008	0.01
Beryllium (Be) (DIS)			<0.001
Boron (B) (DIS)			0.1
Cadmium (Cd) (DIS)	<0.005 M	0.001	<0.001
Chromium (Cr) (DIS)			0.007
Cobalt (Co) (DIS)			0.02
Copper (Cu) (DIS)	<0.02 M	<0.008	<0.008
Iron (Fe +2) (TOT)		0.3	0.3
Iron (Fe) (DIS)	0.3	0.2 M	0.2 M
Lead (Pb) (DIS)	0.004 M	<0.005	<0.005
Manganese (Mn) (DIS)	0.2 M	0.2	0.2
Molybdenum (Mo) (DIS)			0.03
Nickel (Ni) (DIS)			0.02
Vanadium (V) (DIS)			0.03
Zinc (Zn) (DIS)	0.1 M	0.03	0.03

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)		3.9	3.9
pH		7.5	7.4
Depth To Water Level (ft)		10.4	10.4
pH (Fld)		6.7	6.7
SC (umhos/cm at 25 C) (Fld)		457.6	452.4
SC (umhos/cm at 25 C)		488	600
TDS (Measured at 180 C)	298	363	505
Water Temperature (C) (Fld)		6	6
			9.5
			11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LAMPC	LAMPC	LAMPC	LAMPC	LAMPR
Water	SAMPLE DATE	10/17/1983	11/3/1984	11/3/1984	5/13/1985	1/24/1983
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	EPA-USGS	TSC-SLC	CAL	TSC-SLC	TSC-SLC
	LAB NUMBER	HYD-9152	84-10847	S5397	85-3623	HYD-9153
	SAMPLE NUMBER	AEH-8310-11	AEH-8411-7	AEH-8411-7-S	AEH-8505-420	AEH-8301-04
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS	Split		Split		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		205	217
Calcium (Ca) (DIS)	43	144	81.4
Chloride (Cl)	10	60	47
Magnesium (Mg) (DIS)	3.3	33	18.3
Potassium (K) (DIS)	29	5.6	2.8
Sodium (Na) (DIS)	15	26	19.4
Sulfate (SO4)	82	330	330
Total Alkalinity As CaCO3		168	178

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.2
Antimony (Sb) (DIS)			<0.01
Arsenic (As) (DIS)	<0.01	<0.004	<0.004
Barium (Ba) (DIS)			0.07
Beryllium (Be) (DIS)			<0.0006
Cadmium (Cd) (DIS)	0.009	<0.001	<0.004
Chromium (Cr) (DIS)			<0.002
Cobalt (Co) (DIS)			<0.007
Copper (Cu) (DIS)	<0.05	0.01	0.05
Iron (Fe) (DIS)	0.6	0.09	0.1
Lead (Pb) (DIS)	0.04	<0.005	<0.003
Manganese (Mn) (DIS)		0.009	0.004
Mercury (Hg) (DIS)			<0.0002
Nickel (Ni) (DIS)			<0.03
Selenium (Se) (DIS)			<0.002
Silver (Ag) (DIS)			0.006
Thallium (Tl) (DIS)			<0.002
Tin (Sn) (DIS)			<0.04
Vanadium (V) (DIS)			0.005
Zinc (Zn) (DIS)		0.07	0.04

**Physical/Fld-Lab: ppm unless noted**

pH		7.6	7.6	7.5
SC (umhos/cm at 25 C) (Fld)		1038		1349
SC (umhos/cm at 25 C)		1090	678	1470
Total Suspended Solids			1	
TDS (Measured at 180 C)		755	820	1021

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LAMPR	LAMPR	LAMPR	LAMPR	LAMPR
Water	SAMPLE DATE	5/14/1985	10/14/1986	10/14/1986	4/28/1987	4/6/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	RMAL	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	85-3632	8610-141	86-6936	87-2852	88-2619
	SAMPLE NUMBER	AEH-8505-462	AEH-8610-141	AEH-8610-141	AEH-8704-40	AEH-8804-372
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS		Split			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	115	112	131	117	82 J
Calcium (Ca) (DIS)	45	65.3 M			33
Carbonate As CO3		<5			<1 J
Chloride (Cl)	2.3	13 M			3.3
Magnesium (Mg) (DIS)	9.4	14.9 M			7.5
Potassium (K) (DIS)	4	5.05 M			3.5
Sodium (Na) (DIS)	27	31.9			18
Sulfate (SO4)	88.7	140	135	67	56
Total Alkalinity As CaCO3	94.1				

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.004	<0.01 M	<0.006	<0.006	<0.006
Arsenic III (dis)			<0.008	0.008	<0.008
Arsenic V (dis)			0.02 M	0.01	0.01
Cadmium (Cd) (DIS)	<0.001	<0.005 M	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	0.02	0.02			
Iron (Fe +2) (TOT)			0.03	<0.01	0.04
Iron (Fe) (DIS)	<0.02	<0.03	0.03	0.02	0.03 J
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005 M	<0.005 J
Manganese (Mn) (DIS)	0.003	<0.004			
Zinc (Zn) (DIS)	0.01	0.01	0.02	0.008 M	0.008

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)			3.3	4.5	4
pH	7.4	7.6	7.6	7.4	7.2
pH (Fld)			6.7	6.7	6.9
SC (umhos/cm at 25 C) (Fld)	391.3		537 M	339	306.6
SC (umhos/cm at 25 C)	421	580	580	335	285
TDS (Measured at 180 C)	280	325	362	227	216 J
Water Temperature (C) (Fld)			13.7	10.5	11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MANION	MANION	MANION	MANION	MANION	MANION
Water	SAMPLE DATE	1/24/1983	3/7/1983	10/17/1983	11/2/1984	5/14/1985	5/14/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	JTC	TSC-SLC
	LAB NUMBER	HYD-9166	HYD-9167	HYD-9168	84-10846	8505-417	85-3620
	SAMPLE NUMBER	AEH-8301-05	AEH-8303-02	AEH-8310-10	AEH-8411-6	AEH-8505-417	AEH-8505-417
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS						Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)					127	92	
Calcium (Ca) (DIS)					320	241	
Chloride (Cl)					121	101	
Magnesium (Mg) (DIS)					78	53.4	
Potassium (K) (DIS)					12	8.9	
Sodium (Na) (DIS)					125	133	
Sulfate (SO4)					1160	988	
Total Alkalinity As CaCO3					104	75	

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)						0.2	
Antimony (Sb) (DIS)						<0.05	
Arsenic (As) (DIS)	<0.004	<0.004	<0.005	<0.004	<0.007	<0.004	<0.004
Barium (Ba) (DIS)						0.04	
Beryllium (Be) (DIS)						<0.005	
Cadmium (Cd) (DIS)	<0.002	<0.003	<0.004	<0.001	0.005	<0.001	<0.001
Chromium (Cr) (DIS)						<0.008	
Cobalt (Co) (DIS)						<0.02	
Copper (Cu) (DIS)	0.02	<0.008	0.2	0.02	<0.02	<0.02	
Iron (Fe) (DIS)					15.5	1	
Lead (Pb) (DIS)	0.05	0.07	<0.03	<0.005	<0.03	<0.03	<0.005
Manganese (Mn) (DIS)					0.5	3	
Mercury (Hg) (DIS)						<0.0001	
Nickel (Ni) (DIS)						<0.02	
Selenium (Se) (DIS)						<0.03	
Silver (Ag) (DIS)						<0.01	
Thallium (Tl) (DIS)						<0.1	
Tin (Sn) (DIS)						<0.03	
Vanadium (V) (DIS)						<0.03	
Zinc (Zn) (DIS)	0.03	0.02		0.1	0.03	0.03	0.07

**Physical/Fld-Lab: ppm unless noted**

pH			6.1	6.6	5.9	6.5
SC (umhos/cm at 25 C) (Fld)				2428		2126
SC (umhos/cm at 25 C)			785	2380	830	2300
Total Suspended Solids					5	
TDS (Measured at 180 C)				2075	1801	1804
Water Temperature (C) (Fld)			11.5			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	MANION	MANION	MANION	MANION	OXY-PLT
Water	SAMPLE DATE	10/14/1986	10/14/1986	4/28/1987	4/28/1987	6/7/2001
	SAMPLE TIME	00:00	00:00	00:00	00:00	14:00
	LAB	RMAL	TSC-SLC	CHMTC	TSC-SLC	TSC-SLC
	LAB NUMBER	8610-118	86-6946	8704-150	87-2844	L010825010
	SAMPLE NUMBER	AEH-8610-118	AEH-8610-118	AEH-8704-150	AEH-8704-150	EHC-0106-136
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS	Split		Split		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	71	98		106	157
Calcium (Ca) (DIS)	212		234		52
Carbonate As CO3	<5				<1
Chloride (Cl)	102		110		9.1
Magnesium (Mg) (DIS)	51.3		56.8		12
Potassium (K) (DIS)	9.7		9.6		5.4
Sodium (Na) (DIS)	152		168		31
Sulfate (SO4)	801	500 M	910	980	98
Total Alkalinity As CaCO3					129

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)					<0.05
Arsenic (As) (DIS)	<0.01 M	<0.006	<0.009	<0.006	0.01
Arsenic III (dis)		<0.008		0.02	0.009
Arsenic V (dis)		0.03		0.008	0.005
Cadmium (Cd) (DIS)	<0.005	<0.001	<0.004	0.001	<0.001
Copper (Cu) (DIS)	<0.004		<0.02		<0.004
Iron (Fe +2) (TOT)		1.5		1.8	
Iron (Fe) (DIS)	3.4	2.08	1.6	1.5	<0.05
Lead (Pb) (DIS)	<0.05	<0.005	<0.003	<0.005 M	<0.005
Manganese (Mn) (DIS)	7.4		11.3		0.6
Zinc (Zn) (DIS)	0.01	0.02	0.03	0.04 M	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					96.4
Oxygen (O) (DIS) (Fld)		0.3		2	
pH	6.5	6.5		6.8	8.2
Silicon+Silica (Si+SiO2)					50
pH (Fld)		6		5.8	6.5
SC (umhos/cm at 25 C) (Fld)		1845		2066	427
SC (umhos/cm at 25 C)	1880	1880		2050	497
Total Suspended Solids					1.9
TDS (Measured at 180 C)	1510	1464	868 M	1629	377
Water Temperature (C) (Fld)		10.7		12.1	14.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	OXY-PLT	SIMAC	SIMAC	SIMAC	SIMAC
Water	SAMPLE DATE	12/19/2001	2/5/1987	2/5/1987	5/5/1987	5/5/1987
	SAMPLE TIME	13:50	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	CHMTC	TSC-SLC
	LAB NUMBER	L011668007	87-792	87-793	8704-52	87-3026
	SAMPLE NUMBER	EHC-0111-253	AEH-8701-117	AEH-8701-143	AEH-8704-52	AEH-8704-52
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS			Field Duplicate	Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	162	155			148
Calcium (Ca) (DIS)	45	73 M		58.1	54
Carbonate As CO3	<1	<1			<1
Chloride (Cl)	6.8	5		5	4
Magnesium (Mg) (DIS)	11	16 M		13.1	11.6
Potassium (K) (DIS)	5.2	4.9		4.5 M	5.2
Sodium (Na) (DIS)	24	18		18.2	18
Sulfate (SO4)	61	86		76.1 M	90
Total Alkalinity As CaCO3	133				

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05				
Arsenic (As) (DIS)	0.04	<0.006	<0.006	<0.009 M	0.008
Arsenic III (dis)	0.02	<0.008	0.02 M		<0.008
Arsenic V (dis)	0.03	0.02	0.01		0.01
Cadmium (Cd) (DIS)	<0.001	<0.001	0.001	<0.004	0.001
Copper (Cu) (DIS)	<0.004	<0.008	<0.008	0.04 M	0.008 M
Iron (Fe +2) (TOT)		0.03	0.02		<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.1 M	0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.003 M	<0.005 M
Manganese (Mn) (DIS)	0.3	0.004	0.004	<0.01 M	0.004
Zinc (Zn) (DIS)	<0.02	0.09	0.09	0.09	0.08

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	5.5				
Oxygen (O) (DIS) (Fld)	3.8	4.7	4.7		4.9
pH	6.5	8.1			7
Silicon+Silica (Si+SiO2)	52				
Eh (millivolts)	197				
pH (Fld)	7.2	7	7		6.6
SC (umhos/cm at 25 C) (Fld)	349	443	443.6		439
SC (umhos/cm at 25 C)	418	452			445
Total Suspended Solids	<1				
TDS (Measured at 180 C)	299	408		399	330
Water Temperature (C) (Fld)	13.3	6.5	6.5		10.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SIMAC	SIMAC	VETSCH	VETSCH	VETSCH
Water	SAMPLE DATE	11/3/1987	4/12/1988	5/14/1985	10/14/1986	4/28/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-10019	88-2726	85-3629	86-6924	87-2849
	SAMPLE NUMBER	AEH-8710-75	AEH-8804-381	AEH-8505-459	AEH-8610-116	AEH-8704-48
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	160 M	112 J	182	196	204
Calcium (Ca) (DIS)		52.5	172		
Carbonate As CO3		<1			
Chloride (Cl)		5.9 J	30		
Magnesium (Mg) (DIS)		11.5	38		
Potassium (K) (DIS)		5.4	7.1		
Sodium (Na) (DIS)		17	54		
Sulfate (SO4)	88	89	462	420	450
Total Alkalinity As CaCO3			149		

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.006	<0.006	<0.004	<0.006	<0.006
Arsenic III (dis)	<0.008	0.01		<0.008	0.02 M
Arsenic V (dis)	0.03 M	0.008		<0.008	0.02
Cadmium (Cd) (DIS)	0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.008		0.02		
Iron (Fe +2) (TOT)	<0.01	<0.01		2.5	2.1
Iron (Fe) (DIS)	0.03	<0.02	0.6	2.2	1.6
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005 M
Manganese (Mn) (DIS)	<0.003		0.02		
Zinc (Zn) (DIS)	0.08	0.04	0.02	0.009	<0.008

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.2	5.5		0.4	2.2
pH	7.9	7.4	7.2	7.2	7.6
pH (Fld)	6.9	7.04		6.7	6.5
SC (umhos/cm at 25 C) (Fld)	445	439	1217	1193	1194
SC (umhos/cm at 25 C)	468	420	1319	1230	1150
TDS (Measured at 180 C)	335	301 J	1009	904	885
Water Temperature (C) (Fld)	10.4	10.6		12.1	12.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	VETSCH	VETSCH	VETSCH	VETSCH	WALTER/CAR
Water	SAMPLE DATE	11/2/1987	11/2/1987	4/6/1988	8/3/2001	2/3/1987
	SAMPLE TIME	00:00	00:00	00:00	12:00	00:00
	LAB	TSC-SLC	RMAL	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-10003	8710-60	88-2623	L011133002	87-783
	SAMPLE NUMBER	AEH-8710-60	AEH-8710-60	AEH-8804-376	EHC-0106-130	AEH-8701-137
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS		Split			
<b>Common Ions (mg/L): ppm unless noted</b>						
	Bicarbonate (HCO3)	176	174	149 J	168	104
	Calcium (Ca) (DIS)		170	165	161	50 M
	Carbonate As CO3		<5	<1 J		<1
	Chloride (Cl)		38 M	31	77	2.5
	Magnesium (Mg) (DIS)		39	36	32	9.1 M
	Potassium (K) (DIS)		6.7 M	7.3	8.1	2.7
	Sodium (Na) (DIS)		58.1	60.5	143	13
	Sulfate (SO4)	460	436	478	672	52
	Total Alkalinity As CaCO3				138	
<b>Metals (mg/L): ppm unless noted</b>						
	Aluminum (Al) (DIS)				<0.05	
	Arsenic (As) (DIS)	<0.006	<0.01 M	<0.006	0.005	<0.006
	Arsenic III (dis)	<0.008		<0.008	<0.005	0.02
	Arsenic V (dis)	0.03 M		0.04	<0.005	0.01
	Cadmium (Cd) (DIS)	0.001	<0.005	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)	<0.008	<0.004		<0.004	<0.008
	Iron (Fe +2) (TOT)	4.1		2.5		<0.01
	Iron (Fe) (DIS)	2.8	1.4	1.8 J	1.1	0.02 M
	Lead (Pb) (DIS)	<0.005 M	<0.05 M	0.007 J	<0.005	<0.005
	Manganese (Mn) (DIS)	0.09 M	0.03		0.06	0.005
	Zinc (Zn) (DIS)	0.008	0.004	0.01	<0.02	<0.008
<b>Physical/Fld-Lab: ppm unless noted</b>						
	Oxidation Reduction Potential				212	
	Oxygen (O) (DIS) (Fld)	1.5				3.5
	pH	8 M	7.2	6.9	8	7.9
	Silicon+Silica (Si+SiO2)				20	
	Depth To Water Level (ft)	27.4		30.7	26.6	7.5
	Eh (millivolts)				448	
	pH (Fld)	6.4		6.7	7.4	7.09
	SC (umhos/cm at 25 C) (Fld)	1138		1256	1539	283
	SC (umhos/cm at 25 C)	1210	1230	1130	1564	290
	Total Suspended Solids				2.7	
	TDS (Measured at 180 C)	837	930	1058 J	1185	252 M
	Water Temperature (C) (Fld)	12.9		12.5	14	9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	WALTER/CAR	WALTER/CAR	WALTER/CAR	WALTER/CAR	WALTER/CAR	WALTER/CAR
Water	SAMPLE DATE	11/3/1987	11/3/1987	11/3/1987	11/3/1987	4/7/1988	12/6/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	WYRHR	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC
	LAB NUMBER	87-10016	8710-65	87-10013	8710-74	88-2616	89-5
	SAMPLE NUMBER	AEH-8710-65	AEH-8710-65	AEH-8710-74	AEH-8710-74	AEH-8804-368	AEH-8812-184
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS		Split	Field Duplicate	Field Duplicate		
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	102	82			82 J	
	Calcium (Ca) (DIS)		31		31.1	33.5	
	Carbonate As CO3		<5			<1 J	
	Chloride (Cl)		2.1			3.5	3.9 J
	Magnesium (Mg) (DIS)		7.2		7.2	7.5	
	Potassium (K) (DIS)		2.7		2.8	2.9	
	Sodium (Na) (DIS)		12.3		12.4	12.9	
	Sulfate (SO4)	49	41			45	48 R
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.009	<0.002	0.007	0.003	<0.006	<0.006
	Arsenic III (dis)	0.01 M		<0.008		<0.008	0.03 J
	Arsenic V (dis)	0.03		0.03		0.01	0.03 J
	Cadmium (Cd) (DIS)	0.001	<0.0001	0.001	<0.0001	<0.001	<0.001 UJ
	Copper (Cu) (DIS)	0.01	0.01	0.01	0.02 M		<0.008
	Iron (Fe +2) (TOT)	<0.01		<0.01		0.03	<0.01
	Iron (Fe) (DIS)	0.04 M	0.03	0.04	0.03	0.02 J	
	Lead (Pb) (DIS)	<0.005	0.005	<0.005	0.004 M	<0.005	<0.005
	Manganese (Mn) (DIS)	0.003	0.002	0.004	0.004		
	Zinc (Zn) (DIS)	0.1 M	0.1	0.08	0.2	0.01	0.03
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	3.4		3.4		4.8	2.4
	pH	8				7.4 J	7.6
	Depth To Water Level (ft)	13.08		13.08		14	20.02
	pH (Fld)	6.3		6.3		7	
	SC (umhos/cm at 25 C) (Fld)	274.3		273.8		278	292.8
	SC (umhos/cm at 25 C)	290				252	295 J
	TDS (Measured at 180 C)	190	170			207 J	160 J
	Water Temperature (C) (Fld)	9.9		9.9		8.7	9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	WALTER/CAR	WALTER/CAR	WALTER/CAR	WALTER/CAR	WALTER/CAR
Water	SAMPLE DATE	4/27/1989	10/25/1989	10/25/1989	5/3/1990	7/6/2001
	SAMPLE TIME	00:00	00:00	00:00	00:00	16:55
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-551	89-844	89-848	90-1070	L010989004
	SAMPLE NUMBER	AEH-8904-255	AEH-8910-454	AEH-8910-463	AEH-9005-463	EHC-0106-144
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS		Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)					101
Calcium (Ca) (DIS)					32
Carbonate As CO3					<1
Chloride (Cl)	3.8		2.5	3.1	4.8
Magnesium (Mg) (DIS)					7.4
Potassium (K) (DIS)					<5
Sodium (Na) (DIS)					17
Sulfate (SO4)	49		22	47.6	56
Total Alkalinity As CaCO3					83

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.004 J	<0.008	<0.008 J	<0.008	<0.005
Arsenic III (dis)	<0.008	<0.008	<0.008	1.5 U	<0.005
Arsenic V (dis)	0.01 J	0.01 J	0.01 J	0.09 U	<0.005
Cadmium (Cd) (DIS)	<0.002 UJ	<0.001	0.001	0.001 U	<0.001
Copper (Cu) (DIS)	0.09	0.2	0.1 J	<0.008	<0.004
Iron (Fe +2) (TOT)	<0.01				
Iron (Fe) (DIS)					0.5
Lead (Pb) (DIS)	<0.02	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005
Manganese (Mn) (DIS)					0.06
Zinc (Zn) (DIS)	0.008	0.1 J	0.1 J	0.02 U	0.03

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					226.8
Oxygen (O) (DIS) (Fld)	6.9	3.6	3.6	6.2	
pH	6.8		7.3	8	7.2
Depth To Water Level (ft)	14.03				
Eh (millivolts)					471
pH (Fld)	5.8	7.4	7.4	6.6	7.4
SC (umhos/cm at 25 C) (Fld)	291.3		188.2	262.4	285
SC (umhos/cm at 25 C)	280		198	260	315
TDS (Measured at 180 C)	283 R		115 J	180	209
Water Temperature (C) (Fld)	10.1			11.2	12.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	WESTON/MAR	WESTON/MAR	WESTON/MAR	WESTON/MAR	WESTON/MAR	WESTON/MAR
Water	SAMPLE DATE	5/14/1985	10/14/1986	10/14/1986	4/28/1987	11/2/1987	4/6/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	RMAL	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	85-3631	8610-112	86-6928	87-2851	87-10022	88-2620
	SAMPLE NUMBER	AEH-8505-461	AEH-8610-112	AEH-8610-112	AEH-8704-44	AEH-8710-63	AEH-8804-373
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS		Split				
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	110	79	105	106	105	76 J
	Calcium (Ca) (DIS)	47	48.4				33
	Carbonate As CO3		<5				<1 J
	Chloride (Cl)	2	17 M				3.2
	Magnesium (Mg) (DIS)	10.3	11.3				7.5
	Potassium (K) (DIS)	3.4	3.1				2.9
	Sodium (Na) (DIS)	23	22				15.1
	Sulfate (SO4)	99.5	83	101	68	68	58
	Total Alkalinity As CaCO3	90.4					
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.004	<0.01 M	<0.006	<0.006	<0.006	<0.006
	Arsenic III (dis)			<0.008	<0.008	<0.008	0.02
	Arsenic V (dis)			0.01 M	0.02	0.03	0.01
	Cadmium (Cd) (DIS)	<0.001	<0.005	0.001	0.001	0.001	<0.001
	Copper (Cu) (DIS)	0.01	0.008 M			0.02	
	Iron (Fe +2) (TOT)			0.03	<0.01	0.01	0.02
	Iron (Fe) (DIS)	<0.02	<0.03	0.04	0.02	0.05 M	0.03 J
	Lead (Pb) (DIS)	0.005	<0.005	<0.005	<0.005 M	<0.005	<0.005 J
	Manganese (Mn) (DIS)	0.005	<0.004			<0.003	
	Zinc (Zn) (DIS)	0.01	0.004 M	0.01	0.01 M	0.01	0.01
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)			2.3	4.1	4.5	3.8
	pH	7.4	7.5	7.5	7.6	7.8	7.2
	pH (Fld)			6.8	7.09	6.3	6.8
	SC (umhos/cm at 25 C) (Fld)	397.1		409	321.1 M	311.8	286.2
	SC (umhos/cm at 25 C)	425	428	428	305	329	270
	TDS (Measured at 180 C)	285	215	278	208	203	203 J
	Water Temperature (C) (Fld)			13.5	10.3	10	11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	WESTON/MAR	WESTON/MAR	1120Clark	3235DustMa
Water	SAMPLE DATE	6/5/2001	12/19/2001	11/7/2007	6/16/2009
	SAMPLE TIME	15:20	12:00	00:00	11:15
	LAB	TSC-SLC	TSC-SLC	Hydrometrics	ELI
	LAB NUMBER	L010825006	L011668006	z	H09060261-008
	SAMPLE NUMBER	EHC-0106-134	EHC-0111-252	IR-1107-1120Clark	EHR-0609-329
	TYPE	Domestic Wells	Domestic Wells	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION			No Sample	irst Sampling Event
	REMARKS			No Sample	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	96	99	120
Calcium (Ca) (DIS)	33	31	39
Carbonate As CO3	<1	<1	
Chloride (Cl)	4.8	3.8	5
Magnesium (Mg) (DIS)	7.8	7	9
Potassium (K) (DIS)	<5	<5	3
Sodium (Na) (DIS)	12	15	15
Sulfate (SO4)	61	46	59
Total Alkalinity As CaCO3	79	81	98

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	<0.05	<0.1
Antimony (Sb) (DIS)			<0.003
Arsenic (As) (DIS)	<0.005	<0.005	<0.002
Arsenic III (dis)	<0.005	<0.005	
Arsenic V (dis)	<0.005	<0.005	
Barium (Ba) (DIS)			<0.1
Beryllium (Be) (DIS)			<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)			<0.001
Cobalt (Co) (DIS)			<0.01
Copper (Cu) (DIS)	0.02	0.06	<0.001
Gold (Au) (DIS)			<0.01
Iron (Fe) (DIS)	<0.05	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.01
Mercury (Hg) (DIS)			<0.001
Nickel (Ni) (DIS)			<0.01
Selenium (Se) (DIS)			0.002 J
Silver (Ag) (DIS)			<0.005
Tellurium (Te) (DIS)			<0.1
Thallium (Tl) (DIS)			<0.001
Vanadium (V) (DIS)			<0.01
Zinc (Zn) (DIS)	<0.02	<0.02	0.01 UJ

**Other: ppm unless noted**

No Analysis			0.0
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**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential	225.1	83.1	
Oxygen (O) (DIS) (Fld)	2.5	2.6	9.9
pH	7.7	6.3	7.9
Silicon+Silica (Si+SiO2)	19	19	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	WESTON/MAR	WESTON/MAR	3235DustMa
Water	SAMPLE DATE	6/5/2001	12/19/2001	6/16/2009
	SAMPLE TIME	15:20	12:00	11:15
	LAB	TSC-SLC	TSC-SLC	Hydrometrics
	LAB NUMBER	L010825006	L011668006	H09060261-008
	SAMPLE NUMBER	EHC-0106-134	EHC-0111-252	EHR-0609-329
	TYPE	Domestic Wells	Domestic Wells	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells
	DESCRIPTION			irst Sampling Event
	REMARKS			

**Physical/Fld-Lab: ppm unless noted**

Eh (millivolts)		275	
pH (Fld)	7.3	7.4	7.11
SC (umhos/cm at 25 C) (Fld)	256	241	235
SC (umhos/cm at 25 C)	288	287	346
Total Suspended Solids	<1	<1	<10
TDS (Measured at 180 C)	195	188	223
Water Temperature (C) (Fld)	15.6	15.2	10.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	3240 Shano	Bahny Brae	Bahny Brae	BuzzInnE
Water	SAMPLE DATE	6/16/2009	6/16/2009	6/16/2009	12/13/2007
	SAMPLE TIME	11:45	14:00	14:20	10:15
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H09060261-009	H09060261-011	H09060261-012	H07120163-005
	SAMPLE NUMBER	EHR-0609-330	EHR-0609-332	EHR-0609-333	EHR-1207-304
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	irst Sampling Event	rst Sampling Event		Ladies RR Shwr
	REMARKS			Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	120	200	200	
Bicarbonate (HCO3) (Dis)				150
Calcium (Ca) (DIS)	39	47	47	60
Chloride (Cl)	5	12	12	28
Magnesium (Mg) (DIS)	9	11	11	16
Potassium (K) (DIS)	3	3	3	3
Sodium (Na) (DIS)	13	23	23	34
Sulfate (SO4)	60	41	41	127
Total Alkalinity As CaCO3	98	160	160	120

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.003	<0.003	<0.005
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	0.001	<0.001	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	0.005	<0.001	<0.001	<0.004
Gold (Au) (DIS)	<0.01	<0.01	<0.01	
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001	<0.001	<0.001	<0.006
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.002 J	0.003 J	<0.001	<0.005
Silver (Ag) (DIS)	<0.005	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)	<0.1	<0.1	<0.1	
Thallium (Tl) (DIS)	<0.001	<0.001	<0.001	<0.002
Tin (Sn) (Dis)				<0.1
Vanadium (V) (DIS)	<0.01	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	0.01 UJ	<0.01	<0.01	<0.01

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.75	9.67		11.3
pH	7.8	8.3	8.3	7.9
pH (Fld)	6.99	7.63		8.29
SC (umhos/cm at 25 C) (Fld)	233	304		510
SC (umhos/cm at 25 C)	345	438	435	536

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	3240 Shano	Bahny Brae	Bahny Brae	BuzzInnE
Water	SAMPLE DATE	6/16/2009	6/16/2009	6/16/2009	12/13/2007
	SAMPLE TIME	11:45	14:00	14:20	10:15
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H09060261-009	H09060261-011	H09060261-012	H07120163-005
	SAMPLE NUMBER	EHR-0609-330	EHR-0609-332	EHR-0609-333	EHR-1207-304
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	irst Sampling Event	irst Sampling Event		Ladies RR Shwr
	REMARKS			Field Duplicate	

**Physical/Fid-Lab: ppm unless noted**

Total Suspended Solids	<10	<10	<10	<10
TDS (Measured at 180 C)	227	271	270	391
Water Temperature (C) (Fld)	14.1	13		11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	BuzzInnE	BuzzInnW	BuzzInnW	CF Baptist
Water	SAMPLE DATE	6/16/2009	12/13/2007	6/16/2009	6/10/2009
	SAMPLE TIME	10:45	10:45	10:15	11:40
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H09060261-007	H07120163-006	H09060261-006	H09060178-008
	SAMPLE NUMBER	EHR-0609-328	EHR-1207-305	EHR-0609-327	EHR-0609-317
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION		#B Kitchen Sink		irst Sampling Event
	REMARKS				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	140		140	150
Bicarbonate (HCO3) (Dis)		140		
Calcium (Ca) (DIS)	51	52	57	60
Chloride (Cl)	22	24	24	12
Magnesium (Mg) (DIS)	14	13	16	13
Potassium (K) (DIS)	3	3	3	3
Sodium (Na) (DIS)	27	27	30	18
Sulfate (SO4)	96	77	120	100
Total Alkalinity As CaCO3	110	110	110	120

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.005	<0.003	<0.003
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	0.001	<0.001	0.001	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	<0.001	0.005	0.001	<0.001
Gold (Au) (DIS)	<0.01		<0.01	<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001	<0.006	<0.001	<0.001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.004 J	<0.005	0.005 J	0.004 J
Silver (Ag) (DIS)	<0.005	<0.005	<0.005	<0.005 UJ
Tellurium (Te) (DIS)	<0.1		<0.1	<0.1
Thallium (Tl) (DIS)	<0.001	<0.002	<0.001	<0.001
Tin (Sn) (Dis)		<0.1		
Vanadium (V) (DIS)	<0.01	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	0.01 UJ	<0.01	<0.01	0.03

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	11.99	15.12	9.51	9.58
pH	8	7.8	8.1	7.4
pH (Fld)	7.46	8.27	7.63	7.29
SC (umhos/cm at 25 C) (Fld)	340	410	385	340
SC (umhos/cm at 25 C)	504	441	559	496

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	BuzzInnE	BuzzInnW	BuzzInnW	CF Baptist
Water	SAMPLE DATE	6/16/2009	12/13/2007	6/16/2009	6/10/2009
	SAMPLE TIME	10:45	10:45	10:15	11:40
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H09060261-007	H07120163-006	H09060261-006	H09060178-008
	SAMPLE NUMBER	EHR-0609-328	EHR-1207-305	EHR-0609-327	EHR-0609-317
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION		#B Kitchen Sink		irst Sampling Event
	REMARKS				

**Physical/Fid-Lab: ppm unless noted**

Total Suspended Solids	<10	<10	<10	<10
TDS (Measured at 180 C)	334	308	383	338
Water Temperature (C) (Fld)	11.3	10.5	13.5	11.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	CF Mini-B	CF Mini-B	CF Mini-B	CF Mini-B	EastgateIr
Water	SAMPLE DATE	12/13/2007	12/13/2007	6/10/2009	6/10/2009	6/10/2009
	SAMPLE TIME	13:50	14:10	14:45	15:00	11:10
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07120163-009	H07120163-010	H09060178-010	H09060178-011	H09060178-007
	SAMPLE NUMBER	EHR-1207-308	EHR-1207-309	EHR-0609-319	EHR-0609-320	EHR-0609-316
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	Utility Basin				irst Sampling Event
	REMARKS		Field Duplicate		Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)			88	88	170
Bicarbonate (HCO3) (Dis)	94	95			
Calcium (Ca) (Dis)	28	28	28	28	56
Chloride (Cl)	5	5	5	5	17
Magnesium (Mg) (Dis)	6	6	6	6	14
Potassium (K) (Dis)	3	3	3	3	4
Sodium (Na) (Dis)	11	11	11	11	20
Sulfate (SO4)	43	44	44	44	81
Total Alkalinity As CaCO3	77	78	72	72	140

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (Dis)	<0.1	<0.1	<0.1	<0.1	<0.1
Antimony (Sb) (Dis)	<0.005	<0.005	<0.003	<0.003	<0.003
Arsenic (As) (Dis)	<0.002	<0.002	<0.002	<0.002	0.002
Barium (Ba) (Dis)	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (Dis)	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (Dis)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (Dis)	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt (Co) (Dis)	<0.01	<0.01	<0.01	<0.01	<0.01
Copper (Cu) (Dis)	0.056	0.056	0.045	0.046	<0.001
Gold (Au) (DIS)			<0.01	<0.01	<0.01
Iron (Fe) (Dis)	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (Dis)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (Dis)	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (Dis)	<0.006	<0.006	<0.001	<0.001	<0.001
Nickel (Ni) (Dis)	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (Dis)	<0.005	<0.005	0.003 J	<0.001	<0.001
Silver (Ag) (Dis)	<0.005	<0.005	<0.005 UJ	<0.005 UJ	<0.005 UJ
Tellurium (Te) (DIS)			<0.1	<0.1	<0.1
Thallium (Tl) (Dis)	<0.002	<0.002	<0.001	<0.001	<0.001
Tin (Sn) (Dis)	<0.1	<0.1			
Vanadium (V) (Dis)	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (Zn) (Dis)	<0.01	<0.01	<0.01	<0.01	<0.01

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.11		9.81		7.74
pH	7.7	7.6	7.4	7.5	8
pH (Fld)	7.02		7.47		7.78
SC (umhos/cm at 25 C) (Fld)	217		171		337
SC (umhos/cm at 25 C)	251	250	260	259	489

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	CF Mini-B	CF Mini-B	CF Mini-B	CF Mini-B	EastgateIr
Water	SAMPLE DATE	12/13/2007	12/13/2007	6/10/2009	6/10/2009	6/10/2009
	SAMPLE TIME	13:50	14:10	14:45	15:00	11:10
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07120163-009	H07120163-010	H09060178-010	H09060178-011	H09060178-007
	SAMPLE NUMBER	EHR-1207-308	EHR-1207-309	EHR-0609-319	EHR-0609-320	EHR-0609-316
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	Utility Basin				irst Sampling Event
	REMARKS		Field Duplicate		Field Duplicate	
<b>Physical/Fld-Lab: ppm unless noted</b>						
	Total Suspended Solids	<10	<10	<10	<10	<10
	TDS (Measured at 180 C)	175	173	175	174	317
	Water Temperature (C) (Fld)	10.2		12.6		11.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EastgateS	EastgateS	EastgateV	EH CITY WA
Water	SAMPLE DATE	12/13/2007	6/10/2009	6/16/2009	2/7/2001
	SAMPLE TIME	09:15	10:40	13:30	09:45
	LAB	ELI	ELI	ELI	TSC-SLC
	LAB NUMBER	H07120163-004	H09060178-006	H09060261-010	L010183001
	SAMPLE NUMBER	EHR-1207-303	EHR-0609-315	EHR-0609-331	EHST-0102-100
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	Boiler Rm		rst Sampling Event	
	REMARKS				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		150		160	102
Bicarbonate (HCO3) (Dis)	160				
Calcium (Ca) (Dis)	56	57		40	31
Chloride (Cl)	22	20		11	5
Magnesium (Mg) (Dis)	13	13		9	7
Potassium (K) (Dis)	4	4		5	2.4
Sodium (Na) (Dis)	21	20		31	13
Sulfate (SO4)	85	90		64	61
Total Alkalinity As CaCO3	130	120		130	

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (Dis)	<0.1	<0.1		<0.1	
Antimony (Sb) (Dis)	<0.005	<0.003		<0.003	
Arsenic (As) (Dis)	<0.002	<0.002		0.002	
Barium (Ba) (Dis)	<0.1	<0.1		<0.1	
Beryllium (Be) (Dis)	<0.001	<0.001		<0.001	
Cadmium (Cd) (Dis)	<0.001	0.002 UJ		<0.001	
Chromium (Cr) (Dis)	<0.001	<0.001		0.001	
Cobalt (Co) (Dis)	<0.01	<0.01		<0.01	
Copper (Cu) (Dis)	<0.004	<0.001		<0.001	
Gold (Au) (DIS)		<0.01		<0.01	
Iron (Fe) (Dis)	<0.02	<0.02		<0.02	
Lead (Pb) (Dis)	<0.005	<0.005		<0.005	
Manganese (Mn) (Dis)	<0.01	<0.01		<0.01	
Mercury (Hg) (Dis)	<0.006	<0.001		<0.001	
Nickel (Ni) (Dis)	<0.01	<0.01		<0.01	
Selenium (Se) (Dis)	<0.005	0.005 J		0.003 J	
Silver (Ag) (Dis)	<0.005	<0.005 UJ		<0.005	
Tellurium (Te) (DIS)		<0.1		<0.1	
Thallium (Tl) (Dis)	<0.002	<0.001		<0.001	
Tin (Sn) (Dis)	<0.1				
Vanadium (V) (Dis)	<0.01	<0.01		<0.01	
Zinc (Zn) (Dis)	0.04	0.02		0.02 UJ	

**Physical/Fld-Lab: ppm unless noted**

Chlorine (Cl) (DIS)					0.3
Chlorine (Cl) (TOT)					0.4
Oxygen (O) (DIS) (Fld)	10.43	9.54		10.18	5.6
pH	7.9	7.9		8.2	
Eh (millivolts)					544
pH (Fld)	7.8	7.51		7.58	7.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EastgateS	EastgateS	EastgateV	EH CITY WA
Water	SAMPLE DATE	12/13/2007	6/10/2009	6/16/2009	2/7/2001
	SAMPLE TIME	09:15	10:40	13:30	09:45
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	TSC-SLC
	LAB NUMBER	H07120163-004	H09060178-006	H09060261-010	L010183001
	SAMPLE NUMBER	EHR-1207-303	EHR-0609-315	EHR-0609-331	EHST-0102-100
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	Boiler Rm		rst Sampling Event	
	REMARKS				

**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)	424	331	295	262
SC (umhos/cm at 25 C)	449	487	428	
Total Suspended Solids	<10	<10	<10	
TDS (Measured at 180 C)	316	315	297	
Water Temperature (C) (Fld)	14.1	11.7	16.5	8.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EHC1	EHC1	EHC1	EHC1	EHC1	EHC1
Water	SAMPLE DATE	12/2/1986	12/2/1986	12/2/1986	1/29/1987	4/29/1987	4/29/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	RMAL	TSC-SLC	TSC-SLC	TSC-SLC	CHMTC	TSC-SLC
	LAB NUMBER	8612-04	86-8050	86-8051	87-661	8704-57	87-2913
	SAMPLE NUMBER	AEH-8612-04	AEH-8612-04	AEH-8612-05	AEH-8701-122	AEH-8704-57	AEH-8704-57
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS	Split		Field Duplicate		Split	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	70	109		96		110
	Calcium (Ca) (DIS)	40.6			54 M	38.3	
	Carbonate As CO3	<5			<1		
	Chloride (Cl)	4.5			5	15	
	Magnesium (Mg) (DIS)	91.1			10	88.9	
	Potassium (K) (DIS)	3			2.9	2.5	
	Sodium (Na) (DIS)	14.6			13	14.2	
	Sulfate (SO4)	63	53		63	55.1	64
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	<0.01	0.005	0.004 M	<0.006 M	<0.009	<0.006
	Arsenic III (dis)		0.3 M	0.06 M	0.02 M		<0.008
	Arsenic V (dis)		0.04 M	0.06 M	0.01 M		0.02 M
	Cadmium (Cd) (DIS)	<0.005	<0.001	<0.001	<0.001	0.02	0.001
	Copper (Cu) (DIS)	<0.004			<0.008	0.04	
	Iron (Fe +2) (TOT)		0.09 M	0.04	<0.01		<0.01
	Iron (Fe) (DIS)	0.1	<0.02	0.03	0.03	<0.1	0.02
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005 M	<0.003	<0.005 M
	Manganese (Mn) (DIS)	0.008			0.005	0.02	
	Zinc (Zn) (DIS)	0.007	0.008	<0.008	0.009	0.1	<0.008
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)		7.9	7.9	5.8		5.9
	pH	7.3	7.4		7.2		7.5
	pH (Fld)		6.7	6.7	7.3		6.9
	SC (umhos/cm at 25 C) (Fld)		294	293	321.2		312.9
	SC (umhos/cm at 25 C)	295	275		312		320
	TDS (Measured at 180 C)	210	214 M		221	227	206
	Water Temperature (C) (Fld)		10.6	10.6	10		11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EHC1	EHC1	EHC1	EHC1	EHC1	EHC1
Water	SAMPLE DATE	8/3/1987	8/3/1987	4/12/1988	4/12/1988	5/4/2005	5/4/2006
	SAMPLE TIME	00:00	00:00	00:00	00:00	08:25	08:05
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI-Casper	ELI-Hel
	LAB NUMBER	87-6491	87-6496	88-2727	88-2733	C05050186-006	C06050292-004
	SAMPLE NUMBER	AEH-8708-28	AEH-8708-39	AEH-8804-382	AEH-8804-387	EHR-0505-305	EHR-0506-303
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	102		80		97	99
Calcium (Ca) (DIS)	32.5		35.5		29	31
Carbonate As CO3	<1		<1			
Chloride (Cl)	3		5.5 J		8	4
Magnesium (Mg) (DIS)	7.7		8		6	7
Potassium (K) (DIS)	2.8		3.3 J		<5	<5
Sodium (Na) (DIS)	12.3		13.1		11	13
Sulfate (SO4)	56		57		40	43
Total Alkalinity As CaCO3					79	81

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	<0.006	<0.006	<0.006	<0.006	<0.002	<0.002
Arsenic III (dis)	0.01 M	0.008	0.01	0.02	<0.005	<0.005
Arsenic V (dis)	0.04 M	0.03 M	0.01	0.008	<0.005	<0.005
Cadmium (Cd) (DIS)	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)	<0.008	<0.008			<0.004	<0.004
Iron (Fe +2) (TOT)	<0.01	<0.01	0.04	0.05		
Iron (Fe) (DIS)	0.03	0.03	0.04	0.04	<0.02 J	<0.02
Lead (Pb) (DIS)	<0.005	<0.006	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.003	<0.003			<0.02	<0.02
Zinc (Zn) (DIS)	0.01	<0.008	<0.008	0.02	<0.02	<0.02

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)			6.6	6.6	7.44	8.89
pH	7.05		7.3		7.34	7.41
pH (Fld)	6.7	6.7	7.05	7.05	7.19	7.25
SC (umhos/cm at 25 C) (Fld)	301.5	303.2	307.5	307.7	253	237
SC (umhos/cm at 25 C)	302		290		266	254
Total Suspended Solids					<10	<10
TDS (Measured at 180 C)	188		175 J		173	148
TDS - Calculated						171
Water Temperature (C) (Fld)	11.8	11.8	12.3	12.3	11.5	11.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EHC1	EHC1	EHC1	EHC1	EHC2
Water	SAMPLE DATE	5/17/2007	5/13/2008	5/13/2009	6/16/2009	12/2/1986
	SAMPLE TIME	12:10	10:15	13:45	07:25	00:00
	LAB	ELI	ELI	ELI	ELI	RMAL
	LAB NUMBER	H07050211-009	H08050220-007	H09050213-012	H09060261-001	8612-07
	SAMPLE NUMBER	EHR-0507-308	EHR-0508-306	EHR-0509-311	EHR-0609-322	AEH-8612-07
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION			to Fld pH-Instr. Err		
	REMARKS					Split
<b>Common Ions (mg/L): ppm unless noted</b>						
	Bicarbonate (HCO3)	100	100	100	100	75
	Calcium (Ca) (DIS)	30	30	30	30	38.9
	Carbonate As CO3					<5
	Chloride (Cl)	5	5	5	5	4.2
	Magnesium (Mg) (DIS)	7	7	7	7	8.6
	Potassium (K) (DIS)	3	3	3	3	2.9
	Sodium (Na) (DIS)	13	12	12	13	13.4
	Sulfate (SO4)	45	42	41	38	62
	Total Alkalinity As CaCO3	83	84	82	82	
<b>Metals (mg/L): ppm unless noted</b>						
	Selenium-IV (DIS)	<0.005				
	Selenium-VI (DIS)	<0.005				
	Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1	
	Antimony (Sb) (DIS)	<0.005	<0.005	<0.003	<0.003	
	Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.01
	Arsenic III (DIS)	<0.005				
	Arsenic V (DIS)	<0.005				
	Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1	
	Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001	
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.005
	Chromium (Cr) (DIS)	<0.001	<0.001	<0.001	<0.001	
	Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01	
	Copper (Cu) (DIS)	<0.004	<0.004	0.002	0.002	<0.004
	Gold (Au) (DIS)			<0.01	<0.01	
	Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.03
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	0.006
	Mercury (Hg) (DIS)	<0.006	<0.006	<0.001	<0.001	
	Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01	
	Selenium (Se) (DIS)	<0.005	<0.005	<0.001	<0.001	
	Silver (Ag) (DIS)	<0.005 J-	<0.005	<0.005	<0.005	
	Tellurium (Te) (DIS)			<0.1	<0.1	
	Thallium (Tl) (DIS)	<0.002	<0.002	<0.001	<0.001	
	Tin (Sn) (DIS)	<0.1	<0.1			
	Vanadium (V) (DIS)	<0.01	<0.01	<0.01	<0.01	
	Zinc (Zn) (DIS)	<0.01	<0.01	0.01	0.01 UJ	0.003
<b>Nutrients: ppm unless noted</b>						
	Total Organic Carbon	<0.5				
<b>Physical/Fld-Lab: ppm unless noted</b>						
	Oxygen (O) (DIS) (Fld)	7.46	10.5	5.97	8.25	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EHC1	EHC1	EHC1	EHC1	EHC2
Water	SAMPLE DATE	5/17/2007	5/13/2008	5/13/2009	6/16/2009	12/2/1986
	SAMPLE TIME	12:10	10:15	13:45	07:25	00:00
	LAB	ELI	ELI	ELI	ELI	RMAL
	LAB NUMBER	H07050211-009	H08050220-007	H09050213-012	H09060261-001	8612-07
	SAMPLE NUMBER	EHR-0507-308	EHR-0508-306	EHR-0509-311	EHR-0609-322	AEH-8612-07
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION			to Fld pH-Instr. Err		
	REMARKS					Split

**Physical/Fld-Lab: ppm unless noted**

pH	7.5	7.3	7.6	7.5	7.4
pH (Fld)	7.5	7.54		6.95	
SC (umhos/cm at 25 C) (Fld)	219	198	190	198	
SC (umhos/cm at 25 C)	263	276	280	265	275
Total Suspended Solids	<10	<10	<10	<10	
TDS (Measured at 180 C)	181	182	162	176	200
Water Temperature (C) (Fld)	13.2	11.8	12	12.6	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EHC2	EHC2	EHC2	EHC2	EHC2	EHC2
Water	SAMPLE DATE	12/2/1986	12/2/1986	4/29/1987	4/29/1987	8/3/1987	4/12/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	RMAL	CHMTC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	86-8053	8612-07 SD	8704-58	87-2912	87-6492	88-2728
	SAMPLE NUMBER	AEH-8612-07	AEH-8612-07 SD	AEH-8704-58	AEH-8704-58	AEH-8708-29	AEH-8804-383
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS		Field Duplicate		Split		
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)	109			104	98	74
	Calcium (Ca) (DIS)		38.5	36		30	31
	Carbonate As CO3					<1	<1
	Chloride (Cl)			10		4	4.1 J
	Magnesium (Mg) (DIS)		8.5	8.3		7.6	7
	Potassium (K) (DIS)		2.8	2.3		2.8	3
	Sodium (Na) (DIS)		13.3	12.9		12.6	12
	Sulfate (SO4)	60		42.8	53	55	51
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)	0.008	<0.01	<0.009	0.01	<0.006	0.01
	Arsenic III (dis)	0.01 M			<0.008	0.03 M	0.01
	Arsenic V (dis)	0.01			0.01	0.008	0.009
	Cadmium (Cd) (DIS)	0.001	<0.005	<0.004	<0.001	0.001	<0.001
	Copper (Cu) (DIS)		<0.004	<0.02		<0.008	
	Iron (Fe +2) (TOT)	0.08			<0.01	<0.01	0.02
	Iron (Fe) (DIS)	0.1	<0.03	<0.1	0.04	0.06	0.03
	Lead (Pb) (DIS)	<0.005	<0.005	<0.003	<0.005 M	<0.005	<0.005
	Manganese (Mn) (DIS)		<0.004	<0.01		0.003	
	Zinc (Zn) (DIS)	0.009	0.004	<0.02	<0.008	0.008	<0.008
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld)	6			2.4		8
	pH	7.3			7.5	7.8	7.2
	pH (Fld)	7			6.3	6.4	6.6
	SC (umhos/cm at 25 C) (Fld)	310			290.2	294.6	287.2
	SC (umhos/cm at 25 C)	295			298	295	270
	TDS (Measured at 180 C)	221 M		238	188	116.4	178 J
	Water Temperature (C) (Fld)	9			12	11.8	10.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EHC2	EHC2	EHC2	EHC2	EHC3
Water	SAMPLE DATE	5/4/2005	5/4/2006	5/13/2009	6/16/2009	5/4/2005
	SAMPLE TIME	00:00	08:30	13:15	07:40	08:50
	LAB	ASARCO	ELI-Hel	ELI	ELI	ELI-Casper
	LAB NUMBER	0	C06050292-005	H09050213-011	H09060261-002	C05050186-007
	SAMPLE NUMBER	EHR-0505-NS3	EHR-0506-304	EHR-0509-310	EHR-0609-323	EHR-0505-306
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	Well Off		to Fld pH-Instr. Err		
	REMARKS	No Sample				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	93	95	95	95
Calcium (Ca) (DIS)	32	31	31	30
Chloride (Cl)	4	5	5	5
Magnesium (Mg) (DIS)	8	7	7	7
Potassium (K) (DIS)	<5	3	3	<5
Sodium (Na) (DIS)	14	12	12	12
Sulfate (SO4)	58	44	44	49
Total Alkalinity As CaCO3	76	78	78	78

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		<0.1	<0.1	
Antimony (Sb) (DIS)		<0.003	<0.003	
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002
Arsenic III (dis)	<0.005			<0.005
Arsenic V (dis)	<0.005			<0.005
Barium (Ba) (DIS)		<0.1	<0.1	
Beryllium (Be) (DIS)		<0.001	<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)		<0.001	<0.001	
Cobalt (Co) (DIS)		<0.01	<0.01	
Copper (Cu) (DIS)	<0.004	0.004	0.003	<0.004
Gold (Au) (DIS)		<0.01	<0.01	
Iron (Fe) (DIS)	<0.02	0.03	<0.02	<0.02 J
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.01	<0.01	<0.02
Mercury (Hg) (DIS)		<0.001	<0.001	
Nickel (Ni) (DIS)		<0.01	<0.01	
Selenium (Se) (DIS)		<0.001	<0.001	
Silver (Ag) (DIS)		<0.005	<0.005	
Tellurium (Te) (DIS)		<0.1	<0.1	
Thallium (Tl) (DIS)		<0.001	<0.001	
Vanadium (V) (DIS)		<0.01	<0.01	
Zinc (Zn) (DIS)	<0.02	0.02	<0.01	<0.02

**Other: ppm unless noted**

Analyses	0.0
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**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9	7.3	8.3	8.74
pH	7.39	7.8	7.7	7.31
pH (Fld)	7.04		7.18	7.12
SC (umhos/cm at 25 C) (Fld)	241	196	189	270
SC (umhos/cm at 25 C)	276	284	273	290

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EHC2	EHC2	EHC2	EHC3
Water	SAMPLE DATE	5/4/2006	5/13/2009	6/16/2009	5/4/2005
	SAMPLE TIME	08:30	13:15	07:40	08:50
	LAB	ELI-Hel	ELI	ELI	ELI-Casper
	LAB NUMBER	C06050292-005	H09050213-011	H09060261-002	C05050186-007
	SAMPLE NUMBER	EHR-0506-304	EHR-0509-310	EHR-0609-323	EHR-0505-306
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION		to Fld pH-Instr. Err		
	REMARKS				

**Physical/Fld-Lab: ppm unless noted**

Total Suspended Solids	<10	<10	<10	<10
TDS (Measured at 180 C)	164	172	184	163
TDS - Calculated	182			
Water Temperature (C) (Fld)	9.8	12.3	13.6	9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EHC3	EHC3	EHC3	EHC3	EHC3
Water	SAMPLE DATE	5/17/2007	5/13/2008	5/13/2009	5/13/2009	6/16/2009
	SAMPLE TIME	12:45	10:40	14:00	14:15	08:10
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07050211-010	H08050220-008	H09050213-013	H09050213-014	H09060261-003
	SAMPLE NUMBER	EHR-0507-309	EHR-0508-307	EHR-0509-312	EHR-0509-313	EHR-0609-324
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS				Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	92	100	94	94	100
Calcium (Ca) (DIS)	33	29	29	29	29
Chloride (Cl)	6	5	4	4	5
Magnesium (Mg) (DIS)	7	6	7	6	7
Potassium (K) (DIS)	3	2	3	3	3
Sodium (Na) (DIS)	16	12	13	13	13
Sulfate (SO4)	57	42	45	45	38
Total Alkalinity As CaCO3	75	82	77	77	82

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)	<0.005				
Selenium-VI (DIS)	<0.005				
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.005	<0.005	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002
Arsenic III (DIS)	<0.005				
Arsenic V (DIS)	<0.005				
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	<0.004	<0.004	0.002	0.001	<0.001
Gold (Au) (DIS)			<0.01	<0.01	<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.006	<0.006	<0.001	<0.001	<0.001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	<0.005	<0.005	<0.001	<0.001	<0.001
Silver (Ag) (DIS)	<0.005 J-	<0.005	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)			<0.1	<0.1	<0.1
Thallium (Tl) (DIS)	<0.002	<0.002	<0.001	<0.001	<0.001
Tin (Sn) (DIS)	<0.1	<0.1			
Vanadium (V) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.01	<0.01

**Nutrients: ppm unless noted**

Total Organic Carbon	<0.5				
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fid)	9.62	9.45	7.78		9.04
pH	7.3	7.2	7.6	7.6	7.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EHC3	EHC3	EHC3	EHC3	EHC3
Water	SAMPLE DATE	5/17/2007	5/13/2008	5/13/2009	5/13/2009	6/16/2009
	SAMPLE TIME	12:45	10:40	14:00	14:15	08:10
	LAB	Asarco	Hydrometrics	Hydrometrics	ELI	Hydrometrics
	LAB NUMBER	H07050211-010	H08050220-008	H09050213-013	H09050213-014	H09060261-003
	SAMPLE NUMBER	EHR-0507-309	EHR-0508-307	EHR-0509-312	EHR-0509-313	EHR-0609-324
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					
	REMARKS				Field Duplicate	

**Physical/Fld-Lab: ppm unless noted**

pH (Fld)	7.4	7.55				7.32
SC (umhos/cm at 25 C) (Fld)	252	195	184			182
SC (umhos/cm at 25 C)	285	275	275	274		264
Total Suspended Solids	<10	<10	<10	<10		<10
TDS (Measured at 180 C)	199	181	165	165		181
Water Temperature (C) (Fld)	10.7	12.2	8.4			12.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	Homestead1	Homestead2	LCG#4	LCG#4
Water	SAMPLE DATE	6/10/2009	6/10/2009	5/22/2007	12/13/2007
	SAMPLE TIME	13:30	13:05	09:50	11:30
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H09060178-004	H09060178-003	H07050263-004	H07120163-008
	SAMPLE NUMBER	EHR-0609-313	EHR-0609-312	EHR-0507-316	EHR-1207-307
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	irst Sampling Event	irst Sampling Event		
	REMARKS				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	160	160	120	
Bicarbonate (HCO3) (Dis)				120
Calcium (Ca) (DIS)	50	45	30	29
Chloride (Cl)	15	13	5	6
Magnesium (Mg) (DIS)	11	10	7	6
Potassium (K) (DIS)	3	3	3	4
Sodium (Na) (DIS)	17	17	15	14
Sulfate (SO4)	49	42	31	29
Total Alkalinity As CaCO3	130	130	97	99

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)			<0.005	
Selenium-VI (DIS)			<0.005	
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.003	<0.005	<0.005
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002
Arsenic III (DIS)			<0.005	
Arsenic V (DIS)			<0.005	
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	0.002	<0.001	<0.004	<0.004
Gold (Au) (DIS)	<0.01	<0.01		
Iron (Fe) (DIS)	<0.02	<0.02	0.03	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001	<0.001	<0.006	<0.006
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.002 J	<0.001	<0.005	<0.005
Silver (Ag) (DIS)	<0.005 UJ	<0.005 UJ	<0.005	<0.005
Tellurium (Te) (DIS)	<0.1	<0.1		
Thallium (Tl) (DIS)	<0.001	<0.001	<0.002	<0.002
Tin (Sn) (DIS)			<0.1	<0.1
Vanadium (V) (DIS)	<0.01	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	0.02	0.02

**Nutrients: ppm unless noted**

Total Organic Carbon			<0.5	
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.5	11.29	2.64	10.51
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	Homestead1	Homestead2	LCG#4	LCG#4
Water	SAMPLE DATE	6/10/2009	6/10/2009	5/22/2007	12/13/2007
	SAMPLE TIME	13:30	13:05	09:50	11:30
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H09060178-004	H09060178-003	H07050263-004	H07120163-008
	SAMPLE NUMBER	EHR-0609-313	EHR-0609-312	EHR-0507-316	EHR-1207-307
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	irst Sampling Event	irst Sampling Event		
	REMARKS				

**Physical/Fid-Lab: ppm unless noted**

	Homestead1	Homestead2	LCG#4	LCG#4
pH	7.6	7.6	8	7.8
pH (Fid)	7.07	6.93	7.37	8.29
SC (umhos/cm at 25 C) (Fid)	282	257	206	236
SC (umhos/cm at 25 C)	426	389	277	262
Total Suspended Solids	<10	<10	<10	<10
TDS (Measured at 180 C)	269	247		201
Water Temperature (C) (Fid)	10.9	11.2	10.2	9.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LCG#4	LCGMain	LCGMain	LCGMain
Water	SAMPLE DATE	6/10/2009	5/22/2007	12/13/2007	6/10/2009
	SAMPLE TIME	09:50	09:10	11:00	09:20
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H09060178-002	H07050263-003	H07120163-007	H09060178-001
	SAMPLE NUMBER	EHR-0609-311	EHR-0507-315	EHR-1207-306	EHR-0609-310
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION				
	REMARKS				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	100	120		120
Bicarbonate (HCO3) (Dis)			120	
Calcium (Ca) (DIS)	31	32	31	32
Chloride (Cl)	5	5	5	5
Magnesium (Mg) (DIS)	7	7	7	7
Potassium (K) (DIS)	3	3	3	3
Sodium (Na) (DIS)	14	16	15	14
Sulfate (SO4)	33	35	32	35
Total Alkalinity As CaCO3	84	100	100	99

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)		<0.005		
Selenium-VI (DIS)		<0.005		
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.005	<0.005	<0.003
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002
Arsenic III (DIS)		<0.005		
Arsenic V (DIS)		<0.005		
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	0.002	<0.001	<0.001	0.001
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	<0.001	<0.004	<0.004	<0.001
Gold (Au) (DIS)	<0.01			<0.01
Iron (Fe) (DIS)	0.02	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001	<0.006	<0.006	<0.001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.003 J	<0.005	<0.005	0.003 J
Silver (Ag) (DIS)	<0.005 UJ	<0.005	<0.005	<0.005 UJ
Tellurium (Te) (DIS)	<0.1			<0.1
Thallium (Tl) (DIS)	<0.001	<0.002	<0.002	<0.001
Tin (Sn) (DIS)		<0.1	<0.1	
Vanadium (V) (DIS)	<0.01	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	0.02	0.03	0.04	<0.01

**Nutrients: ppm unless noted**

Total Organic Carbon	<0.5
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.08	8.87	10.9	9.8
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LCG#4	LCGMain	LCGMain	LCGMain
Water	SAMPLE DATE	6/10/2009	5/22/2007	12/13/2007	6/10/2009
	SAMPLE TIME	09:50	09:10	11:00	09:20
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H09060178-002	H07050263-003	H07120163-007	H09060178-001
	SAMPLE NUMBER	EHR-0609-311	EHR-0507-315	EHR-1207-306	EHR-0609-310
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION				
	REMARKS				

**Physical/Fid-Lab: ppm unless noted**

pH	7.7	8	7.8	7.5
pH (Fid)	7.14	7.5	8.17	6.81
SC (umhos/cm at 25 C) (Fid)	193	215	250	201
SC (umhos/cm at 25 C)	284	289	277	294
Total Suspended Solids	<10	<10	<10	<10
TDS (Measured at 180 C)	213		209	230
Water Temperature (C) (Fid)	10.7	10.7	8.3	11.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	McDon Tr	McDon Tr	McDon Tr	McDon Tr	McDon Tr	McDon Tr
Water	SAMPLE DATE	6/20/1983	11/2/1984	5/13/1985	5/22/2007	5/22/2007	6/10/2009
	SAMPLE TIME	00:00	00:00	00:00	13:30	13:40	12:10
	LAB	EPA-USGS	TSC-SLC	TSC-SLC	ELI	ELI	ELI
	LAB NUMBER	HYD-9171	84-10844	85-3619	H07050263-009	H07050263-010	H09060178-009
	SAMPLE NUMBER	AEH-8306-02	AEH-8411-4	AEH-8505-416	EHR-0507-321	EHR-0507-322	EHR-0609-318
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION						
	REMARKS	Split			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		95		130	130	130
Calcium (Ca) (DIS)	45.4	42		41	41	41
Chloride (Cl)		4.6		10	11	11
Magnesium (Mg) (DIS)	9.2	9.4		9	9	9
Potassium (K) (DIS)		3.1		2	2	3
Sodium (Na) (DIS)		19		20	19	17
Sulfate (SO4)		27		48	47	52
Total Alkalinity As CaCO3		78		110	110	110

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)				<0.005	<0.005	
Selenium-VI (DIS)				<0.005	<0.005	
Aluminum (Al) (DIS)	0.1			<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	0.06			<0.005	<0.005	<0.003
Arsenic (As) (DIS)		<0.004	0.004	<0.002	<0.002	<0.002
Arsenic III (DIS)				<0.005	<0.005	
Arsenic V (DIS)				<0.005	<0.005	
Barium (Ba) (DIS)				<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	0.002			<0.001	<0.001	<0.001
Boron (B) (DIS)	0.001					
Cadmium (Cd) (DIS)	0.01	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	0.02			<0.001	<0.001	<0.001
Cobalt (Co) (DIS)	0.03			<0.01	<0.01	<0.01
Copper (Cu) (DIS)	0.02	0.009		0.006	0.006	0.007
Gold (Au) (DIS)						<0.01
Iron (Fe) (DIS)	0.1	0.05		<0.02	<0.02	<0.02
Lead (Pb) (DIS)	0.04	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	0.004	<0.004		<0.01	<0.01	<0.01
Mercury (Hg) (DIS)				<0.006	<0.006	<0.001
Molybdenum (Mo) (DIS)	0.03					
Nickel (Ni) (DIS)	0.04			<0.01	<0.01	<0.01
Selenium (Se) (DIS)				<0.005	<0.005	0.003 J
Silver (Ag) (DIS)				<0.005	<0.005	<0.005 UJ
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)				<0.002	<0.002	<0.001
Tin (Sn) (DIS)				<0.1	<0.1	
Vanadium (V) (DIS)	0.01			<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	0.04	0.03	0.03	<0.01	<0.01	<0.01

**Nutrients: ppm unless noted**

Total Organic Carbon				<0.5	<0.5	
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	McDon Tr	McDon Tr	McDon Tr	McDon Tr	McDon Tr	McDon Tr	
Water	SAMPLE DATE	6/20/1983	11/2/1984	5/13/1985	5/22/2007	5/22/2007	6/10/2009	
	SAMPLE TIME	00:00	00:00	00:00	13:30	13:40	12:10	
	LAB	EPA-USGS	TSC-SLC	TSC-SLC	Asarco	ELI	Hydrometrics	
	LAB NUMBER	HYD-9171	84-10844	85-3619	H07050263-009	H07050263-010	H09060178-009	
	SAMPLE NUMBER	AEH-8306-02	AEH-8411-4	AEH-8505-416	EHR-0507-321	EHR-0507-322	EHR-0609-318	
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	
	DESCRIPTION							
	REMARKS	Split				Field Duplicate		

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)					15.66		10.89
pH	7.3	7.5	7.5	8	8	7.5	
Depth To Water Level (ft)	75.9						
pH (Fld)				7.13		7.4	
SC (umhos/cm at 25 C) (Fld)		384	382.4	315		312	
SC (umhos/cm at 25 C)	371	375	415	360	360	366	
Total Suspended Solids				<10	<10	<10	
TDS (Measured at 180 C)		232	243			247	
Water Temperature (C) (Fld)	11.5			11.7		11.9	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PelePk1	PelePk1	PelePk1	PelePk1	PelePk1	PelePk1
Water	SAMPLE DATE	5/25/2005	5/4/2006	5/24/2007	5/24/2007	5/20/2008	5/13/2009
	SAMPLE TIME	09:25	13:05	09:00	09:00	11:15	10:30
	LAB	ELI-Casper	ELI-Hel	EPA-R8	ELI	ELI	ELI
	LAB NUMBER	C05050997-004	C06050292-012	8705007-02	H07050287-003	H08050343-004	H09050213-009
	SAMPLE NUMBER	EHR-0505-319	EHR-0506-311	EHR-0507-329	EHR-0507-329	EHR-0508-317	EHR-0509-308
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION			EHR-0507-330		Fmnr Twilight Tr Ct	No Fld pH-Instr. Err
	REMARKS			Split			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	92	95		99	93	95
Calcium (Ca) (DIS)	29	30		29	34	30
Chloride (Cl)	3	2		4	5	4
Magnesium (Mg) (DIS)	7	7		6	8	7
Potassium (K) (DIS)	<5	<5		2	3	3
Sodium (Na) (DIS)	12	12		13	12	12
Sulfate (SO4)	48	51		48	50	47
Total Alkalinity As CaCO3	75	78		81	76	78

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)				<0.005		
Selenium-VI (DIS)				<0.005		
Aluminum (Al) (DIS)			<0.1	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)			<0.001	<0.005	<0.005	<0.003
Arsenic (As) (DIS)	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002
Arsenic III (dis)	<0.005	<0.005		<0.005		
Arsenic V (dis)	<0.005	<0.005		<0.005		
Barium (Ba) (DIS)			0.032	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)			<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.0002	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)			<0.002	<0.001	<0.001	<0.001
Cobalt (Co) (DIS)			<0.002	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	<0.004	<0.004	<0.01	<0.004	0.005	<0.001
Gold (Au) (DIS)						<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.02	<0.02	<0.002	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)			<0.0001	<0.006	<0.006	<0.001
Nickel (Ni) (DIS)			0.001	<0.01	<0.01	<0.01
Selenium (Se) (DIS)			<0.001	<0.005	<0.005	<0.001
Silver (Ag) (DIS)			<0.0005	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)						<0.1
Thallium (Tl) (DIS)			<0.0003	<0.002	<0.002	<0.001
Tin (Sn) (DIS)			<0.2	<0.1	<0.1	
Vanadium (V) (DIS)			<0.01	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.02	<0.02	<0.04	<0.01	0.02	0.01

**Nutrients: ppm unless noted**

Total Organic Carbon				<0.5		
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**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	8.83	9.26		6.16	10.65	7.78
pH	7.4	7.51		7.3	7.4	7.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PelePk1	PelePk1	PelePk1	PelePk1	PelePk1
Water	SAMPLE DATE	5/25/2005	5/4/2006	5/24/2007	5/20/2008	5/13/2009
	SAMPLE TIME	09:25	13:05	09:00	11:15	10:30
	LAB	ELI-Casper	ASARCO	Asarco	Hydrometrics	Hydrometrics
	LAB NUMBER	C05050997-004	C06050292-012	H07050287-003	H08050343-004	H09050213-009
	SAMPLE NUMBER	EHR-0505-319	EHR-0506-311	EHR-0507-329	EHR-0508-317	EHR-0509-308
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION				Fmr Twilght Tr Ct	Jo Fld pH-Instr. Err
	REMARKS					

**Physical/Fld-Lab: ppm unless noted**

pH (Fld)	7.55	7.48	7.42	6.92	
SC (umhos/cm at 25 C) (Fld)	240	223	199	283	189
SC (umhos/cm at 25 C)	276	252	265	274	277
Total Suspended Solids	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	191	152	175	179	171
TDS - Calculated		174			
Water Temperature (C) (Fld)	9.4	9.5	9.3	10.4	8.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PelePk1	PelePk2	PelePk2	PelePk2	PelePk2
Water	SAMPLE DATE	6/16/2009	5/25/2005	5/4/2006	5/24/2007	5/20/2008
	SAMPLE TIME	09:10	09:50	13:25	09:20	11:30
	LAB	ELI	ELI-Casper	ELI-Hel	ELI	ELI
	LAB NUMBER	H09060261-004	C05050997-005	C06050292-013	H07050287-004	H08050343-005
	SAMPLE NUMBER	EHR-0609-325	EHR-0505-320	EHR-0506-312	EHR-0507-331	EHR-0508-318
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					Frnr Twilight Tr Ct
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	96	89	50	94	94
Calcium (Ca) (DIS)	29	28	26	31	34
Chloride (Cl)	3	3	3	5	5
Magnesium (Mg) (DIS)	7	6	7	7	8
Potassium (K) (DIS)	3	<5	<5	2	3
Sodium (Na) (DIS)	12	11	11	13	11
Sulfate (SO4)	45	42	16	50	48
Total Alkalinity As CaCO3	79	73	41	77	77

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)				<0.005	
Selenium-VI (DIS)				<0.005	
Aluminum (Al) (DIS)	<0.1			<0.1	<0.1
Antimony (Sb) (DIS)	<0.003			<0.005	<0.005
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002	<0.002
Arsenic III (dis)		<0.005	<0.005	<0.005	
Arsenic V (dis)		0.005	<0.005	<0.005	
Barium (Ba) (DIS)	<0.1			<0.1	<0.1
Beryllium (Be) (DIS)	<0.001			<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001			<0.001	<0.001
Cobalt (Co) (DIS)	<0.01			<0.01	<0.01
Copper (Cu) (DIS)	<0.001	<0.004	<0.004	<0.004	0.006
Gold (Au) (DIS)	<0.01				
Iron (Fe) (DIS)	<0.02	0.04	0.09	<0.02	0.03
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.02	<0.02	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001			<0.006	<0.006
Nickel (Ni) (DIS)	<0.01			<0.01	<0.01
Selenium (Se) (DIS)	<0.001			<0.005	<0.005
Silver (Ag) (DIS)	<0.005			<0.005 J-	<0.005
Tellurium (Te) (DIS)	<0.1				
Thallium (Tl) (DIS)	<0.001			<0.002	<0.002
Tin (Sn) (DIS)				<0.1	<0.1
Vanadium (V) (DIS)	<0.01			<0.01	<0.01
Zinc (Zn) (DIS)	0.01 UJ	<0.02	<0.02	<0.01	<0.01

**Nutrients: ppm unless noted**

Total Organic Carbon				<0.5	
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**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.66	7.98	7	7.87	8.66
pH	7.8	7.43	7.75	7.3	7.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PelePk1	PelePk2	PelePk2	PelePk2	PelePk2
Water	SAMPLE DATE	6/16/2009	5/25/2005	5/4/2006	5/24/2007	5/20/2008
	SAMPLE TIME	09:10	09:50	13:25	09:20	11:30
	LAB	Hydrometrics	ELI-Casper	ASARCO	Asarco	Hydrometrics
	LAB NUMBER	H09060261-004	C05050997-005	C06050292-013	H07050287-004	H08050343-005
	SAMPLE NUMBER	EHR-0609-325	EHR-0505-320	EHR-0506-312	EHR-0507-331	EHR-0508-318
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION					Frnr Twilight Tr Ct
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

pH (Fld)	6.79	7.5	7.42	7.42	6.99
SC (umhos/cm at 25 C) (Fld)	181	229	195	208	225
SC (umhos/cm at 25 C)	263	256	155	277	275
Total Suspended Solids	<10	<10	10	<10	<10
TDS (Measured at 180 C)	188	181	78	185	177
TDS - Calculated			109		
Water Temperature (C) (Fld)	9.4	9.6	9	9.4	10.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PelePk2	PelePk2	PhxTrCt	PhxTrCt	PhxTrCt
Water	SAMPLE DATE	5/13/2009	6/16/2009	5/22/2007	12/13/2007	6/16/2009
	SAMPLE TIME	10:15	09:30	08:15	08:30	00:00
	LAB	ELI	ELI	ELI	ELI	Hydrometrics
	LAB NUMBER	H09050213-008	H09060261-005	H07050263-001	H07120163-003	EHR-0609-PTC
	SAMPLE NUMBER	EHR-0509-307	EHR-0609-326	EHR-0507-313	EHR-1207-302	EHR-0609-PTC
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	to Fld pH-Instr. Err			#3647 E Spgt	t't Return Messages
	REMARKS					No Sample

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	94	96	170	
Bicarbonate (HCO3) (Dis)				170
Calcium (Ca) (DIS)	28	29	71	70
Chloride (Cl)	3	3	28	28
Magnesium (Mg) (DIS)	6	7	17	17
Potassium (K) (DIS)	3	3	3	4
Sodium (Na) (DIS)	12	12	30	27
Sulfate (SO4)	41	43	109	117
Total Alkalinity As CaCO3	77	79	140	140

**Metals (mg/L): ppm unless noted**

Selenium-IV (DIS)			<0.005	
Selenium-VI (DIS)			<0.005	
Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.003	<0.005	<0.005
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002
Arsenic III (DIS)			<0.005	
Arsenic V (DIS)			<0.005	
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	<0.001	<0.001	0.008	0.006
Gold (Au) (DIS)	<0.01	<0.01		
Iron (Fe) (DIS)	0.04	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001	<0.001	<0.006	<0.006
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	<0.001	<0.001	<0.005	<0.005
Silver (Ag) (DIS)	<0.005	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)	<0.1	<0.1		
Thallium (Tl) (DIS)	<0.001	<0.001	<0.002	<0.002
Tin (Sn) (DIS)			<0.1	<0.1
Vanadium (V) (DIS)	<0.01	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	0.01 UJ	<0.01	<0.01

**Nutrients: ppm unless noted**

Total Organic Carbon			<0.5	
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**Other: ppm unless noted**

No Analysis				0.0
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PelePk2	PelePk2	PhxTrCt	PhxTrCt
Water	SAMPLE DATE	5/13/2009	6/16/2009	5/22/2007	12/13/2007
	SAMPLE TIME	10:15	09:30	08:15	08:30
	LAB	Hydrometrics	Hydrometrics	Asarco	Hydrometrics
	LAB NUMBER	H09050213-008	H09060261-005	H07050263-001	H07120163-003
	SAMPLE NUMBER	EHR-0509-307	EHR-0609-326	EHR-0507-313	EHR-1207-302
	TYPE	blic Water Systems	blic Water Systems	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	to Fld pH-Instr. Err			#3647 E Spgt
	REMARKS				

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	5.62	10.76	9.7	12.7
pH	7.6	7.8	7.8	7.6
pH (Fld)		7.05	7.33	7.38
SC (umhos/cm at 25 C) (Fld)	180	178	648	552
SC (umhos/cm at 25 C)	261	262	600	548
Total Suspended Solids	<10	<10	<10	<10
TDS (Measured at 180 C)	160	175		407
Water Temperature (C) (Fld)	8.5	9	11.4	11

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>Praire Vil</b>	<b>Rugler</b>
<b>Water</b>	SAMPLE DATE	6/16/2009	6/10/2009
	SAMPLE TIME	00:00	14:15
	LAB	Hydrometrics	ELI
	LAB NUMBER	EHR-0609-PMV	H09060178-005
	SAMPLE NUMBER	EHR-0609-PMV	EHR-0609-314
	TYPE	blic Water Systems	blic Water Systems
	GROUP	Private Wells	Private Wells
	DESCRIPTION	ed Sample Request	rst Sampling Event
	REMARKS	No Sample	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	130
Calcium (Ca) (DIS)	33
Chloride (Cl)	8
Magnesium (Mg) (DIS)	8
Potassium (K) (DIS)	3
Sodium (Na) (DIS)	14
Sulfate (SO4)	27
Total Alkalinity As CaCO3	110

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1
Antimony (Sb) (DIS)	<0.003
Arsenic (As) (DIS)	0.003
Barium (Ba) (DIS)	<0.1
Beryllium (Be) (DIS)	<0.001
Cadmium (Cd) (DIS)	<0.001
Chromium (Cr) (DIS)	<0.001
Cobalt (Co) (DIS)	<0.01
Copper (Cu) (DIS)	<0.001
Gold (Au) (DIS)	<0.01
Iron (Fe) (DIS)	<0.02
Lead (Pb) (DIS)	<0.005
Manganese (Mn) (DIS)	<0.01
Mercury (Hg) (DIS)	<0.001
Nickel (Ni) (DIS)	<0.01
Selenium (Se) (DIS)	<0.001
Silver (Ag) (DIS)	<0.005 UJ
Tellurium (Te) (DIS)	<0.1
Thallium (Tl) (DIS)	<0.001
Vanadium (V) (DIS)	<0.01
Zinc (Zn) (DIS)	0.02

**Other: ppm unless noted**

No Analysis	0.0
-------------	-----

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	10.42
pH	7.9
pH (Fld)	7.81
SC (umhos/cm at 25 C) (Fld)	198
SC (umhos/cm at 25 C)	289

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Private Well Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	Rugler
Water	SAMPLE DATE	6/10/2009
	SAMPLE TIME	14:15
	LAB	ELI
	LAB NUMBER	H09060178-005
	SAMPLE NUMBER	EHR-0609-314
	TYPE	blic Water Systems
	GROUP	Private Wells
	DESCRIPTION	rst Sampling Event
	REMARKS	

---

**Physical/Fid-Lab: ppm unless noted**

Total Suspended Solids	<10
TDS (Measured at 180 C)	194
Water Temperature (C) (Fld)	11.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

**APPENDIX C-4**

**EAST HELENA WATER  
HISTORICAL SURFACE WATER DATA**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

### Table of Contents by Station Type

<u>Page</u>	<u>Station Type</u>	<u>Station Name</u>
1	Surface Water	LL-1D
5	Surface Water	LL-1S
11	Surface Water	LOWER LAKE
60	Surface Water	PPC-3
92	Surface Water	PPC-3A
101	Surface Water	PPC-4
118	Surface Water	PPC-5
151	Surface Water	PPC-6
168	Surface Water	PPC-6A
168	Surface Water	PPC-7
194	Surface Water	PPC-8
214	Surface Water	PPC-9
57	Surface Water	PPC-29A
86	Surface Water	PPC-30A
87	Surface Water	PPC-31A
88	Surface Water	PPC-32A
88	Surface Water	PPC-33A
89	Surface Water	PPC-34A
90	Surface Water	PPC-35A
91	Surface Water	PPC-36A
91	Surface Water	PPC-37A
92	Surface Water	PPC-38A
117	Surface Water	PPC-40A
24	Surface Water	PPC-101
32	Surface Water	PPC-102
41	Surface Water	PPC-103
57	Surface Water	PPC-103A
221	Surface Water	PPC-W/B
223	Surface Water	SEEP-1
225	Surface Water	WD-1
227	Surface Water	WD-2
238	Surface Water	WD-3
240	Surface Water	WD-4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

### Table of Contents By Lab Sample ID

<u>Page</u>	<u>Lab Sample ID</u>	<u>Sample ID</u>	<u>Sample Date</u>	<u>Station Name</u>
218	73-1979	AEH-8506-537	6/4/1985	PPC-9
198	73-1981	AEH-8506-536	6/4/1985	PPC-8
170	73-1983	AEH-8506-535	6/4/1985	PPC-7
170	73-1985	AEH-8506-505	6/4/1985	PPC-7
223	73-1986	AEH-8506-555	6/4/1985	SEEP-1
155	73-2096	AEH-8507-612	7/1/1985	PPC-6
172	73-2101	AEH-8507-613	7/1/1985	PPC-7
172	73-2102	AEH-8507-605	7/1/1985	PPC-7
223	73-2104	AEH-8507-633	7/1/1985	SEEP-1
120	73-2106	AEH-8507-611	7/2/1985	PPC-5
157	73-2175	AEH-8508-742	8/5/1985	PPC-6
120	73-2179	AEH-8508-741	8/5/1985	PPC-5
60	84-10985	AEH-8411-21	11/7/1984	PPC-3
101	84-10987	AEH-8411-22	11/6/1984	PPC-4
118	84-10989	AEH-8411-23	11/6/1984	PPC-5
151	84-10991	AEH-8411-24	11/6/1984	PPC-6
168	84-10993	AEH-8411-25	11/5/1984	PPC-7
194	84-10995	AEH-8411-26	11/5/1984	PPC-8
214	84-10997	AEH-8411-27	11/5/1984	PPC-9
11	84-11001	AEH-8411-37	11/7/1984	LOWER LAKE
118	84-11005	AEH-8411-39	11/6/1984	PPC-5
60	85-533	AEH-8501-101	1/14/1985	PPC-3
104	85-534	AEH-8501-102	1/14/1985	PPC-4
118	85-535	AEH-8501-103	1/11/1985	PPC-5
151	85-536	AEH-8501-104	1/11/1985	PPC-6
168	85-537	AEH-8501-105	1/10/1985	PPC-7
194	85-538	AEH-8501-106	1/10/1985	PPC-8
214	85-539	AEH-8501-107	1/10/1985	PPC-9
11	85-2345	AEH-8504-310	4/4/1985	LOWER LAKE
62	85-2347	AEH-8504-330	4/3/1985	PPC-3
104	85-2348	AEH-8504-331	4/3/1985	PPC-4
120	85-2349	AEH-8504-332	4/3/1985	PPC-5
155	85-2350	AEH-8504-333	4/2/1985	PPC-6
170	85-2351	AEH-8504-334	4/2/1985	PPC-7
198	85-2352	AEH-8504-335	4/2/1985	PPC-8
218	85-2353	AEH-8504-336	4/2/1985	PPC-9
229	85-2941	AEH-8504-338	4/19/1985	WD-2
229	85-2942	AEH-8504-339	4/19/1985	WD-2
227	85-2944	AEH-8504-341	4/18/1985	WD-2
229	85-3152	AEH-8504-342	4/26/1985	WD-2
229	85-3153	AEH-8504-343	4/26/1985	WD-2
229	85-3350	AEH-8505-100	5/3/1985	WD-2
231	85-3351	AEH-8505-101	5/3/1985	WD-2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

### Table of Contents By Lab Sample ID

<u>Page</u>	<u>Lab Sample ID</u>	<u>Sample ID</u>	<u>Sample Date</u>	<u>Station Name</u>
198	85-3494	AEH-8505-405	5/7/1985	PPC-8
231	85-3495	AEH-8505-406	5/8/1985	WD-2
62	85-3496	AEH-8505-430	5/8/1985	PPC-3
104	85-3497	AEH-8505-431	5/7/1985	PPC-4
120	85-3498	AEH-8505-432	5/7/1985	PPC-5
155	85-3499	AEH-8505-433	5/7/1985	PPC-6
170	85-3500	AEH-8505-434	5/7/1985	PPC-7
198	85-3501	AEH-8505-435	5/7/1985	PPC-8
218	85-3502	AEH-8505-436	5/7/1985	PPC-9
231	85-3503	AEH-8505-437	5/8/1985	WD-2
240	85-3504	AEH-8505-452	5/8/1985	WD-3
227	85-3505	AEH-8505-453	5/8/1985	WD-1
223	85-3506	AEH-8505-454	5/7/1985	SEEP-1
231	85-3684	AEH-8505-440	5/17/1985	WD-2
231	85-3685	AEH-8505-422	5/17/1985	WD-2
233	85-3779	AEH-8505-423	5/24/1985	WD-2
233	85-3781	AEH-8505-446	5/24/1985	WD-2
233	85-3946	AEH-8505-424	5/31/1985	WD-2
233	85-3948	AEH-8505-449	5/31/1985	WD-2
170	85-4087	AEH-8506-505	6/4/1985	PPC-7
155	85-4088	AEH-8506-506	6/5/1985	PPC-6
13	85-4091	AEH-8506-529	6/6/1985	LOWER LAKE
62	85-4093	AEH-8506-531	6/5/1985	PPC-3
104	85-4094	AEH-8506-532	6/5/1985	PPC-4
120	85-4095	AEH-8506-533	6/5/1985	PPC-5
155	85-4096	AEH-8506-534	6/5/1985	PPC-6
170	85-4097	AEH-8506-535	6/4/1985	PPC-7
198	85-4098	AEH-8506-536	6/4/1985	PPC-8
218	85-4099	AEH-8506-537	6/4/1985	PPC-9
233	85-4100	AEH-8506-538	6/5/1985	WD-2
223	85-4101	AEH-8506-555	6/4/1985	SEEP-1
233	85-4494	AEH-8506-542	6/14/1985	WD-2
234	85-4495	AEH-8506-541	6/15/1985	WD-2
106	85-4571	AEH-8507-610	7/2/1985	PPC-4
234	85-4644	AEH-8506-544	6/21/1985	WD-2
234	85-4645	AEH-8506-545	6/21/1985	WD-2
172	85-4748	AEH-8507-605	7/1/1985	PPC-7
106	85-4749	AEH-8507-606	7/2/1985	PPC-4
62	85-4750	AEH-8507-609	7/2/1985	PPC-3
120	85-4752	AEH-8507-611	7/2/1985	PPC-5
157	85-4753	AEH-8507-612	7/1/1985	PPC-6
172	85-4754	AEH-8507-613	7/1/1985	PPC-7
200	85-4755	AEH-8507-614	7/1/1985	PPC-8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

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<u>Page</u>	<u>Lab Sample ID</u>	<u>Sample ID</u>	<u>Sample Date</u>	<u>Station Name</u>
218	85-4756	AEH-8507-615	7/2/1985	PPC-9
234	85-4757	AEH-8507-619	7/1/1985	WD-2
225	85-4758	AEH-8507-633	7/1/1985	SEEP-1
234	85-4760	AEH-8507-621	7/5/1985	WD-2
234	85-4761	AEH-8507-622	7/5/1985	WD-2
235	85-5046	AEH-8507-625	7/12/1985	WD-2
235	85-5048	AEH-8507-627	7/12/1985	WD-2
235	85-5329	AEH-8507-616	7/19/1985	WD-2
235	85-5331	AEH-8507-618	7/19/1985	WD-2
235	85-5904	AEH-8507-628	7/26/1985	WD-2
235	85-5906	AEH-8507-630	7/26/1985	WD-2
236	85-5927	AEH-8508-701	8/2/1985	WD-2
236	85-5929	AEH-8508-703	8/2/1985	WD-2
157	85-6032	AEH-8508-713	8/5/1985	PPC-6
62	85-6033	AEH-8508-714	8/6/1985	PPC-3
13	85-6035	AEH-8508-737	8/6/1985	LOWER LAKE
64	85-6037	AEH-8508-739	8/6/1985	PPC-3
106	85-6038	AEH-8508-740	8/5/1985	PPC-4
122	85-6039	AEH-8508-741	8/5/1985	PPC-5
157	85-6040	AEH-8508-742	8/5/1985	PPC-6
172	85-6041	AEH-8508-743	8/6/1985	PPC-7
200	85-6042	AEH-8508-744	8/6/1985	PPC-8
218	85-6043	AEH-8508-745	8/6/1985	PPC-9
225	85-6044	AEH-8508-760	8/6/1985	SEEP-1
236	85-6289	AEH-8508-715	8/12/1985	WD-2
236	85-6308	AEH-8508-746	8/12/1985	WD-2
236	85-6366	AEH-8508-749	8/19/1985	WD-2
236	85-6367	AEH-8508-750	8/19/1985	WD-2
237	85-6568	AEH-8508-752	8/29/1985	WD-2
237	85-6569	AEH-8508-753	8/29/1985	WD-2
237	85-6714	AEH-8509-801	9/4/1985	WD-2
237	85-6775	AEH-8509-802	9/4/1985	WD-2
237	85-6857	AEH-8509-804	9/10/1985	WD-2
237	85-6858	AEH-8509-805	9/10/1985	WD-2
64	85-7013	AEH-8509-810	9/12/1985	PPC-3
225	85-7014	AEH-8509-811	9/12/1985	SEEP-1
172	85-7015	AEH-8509-812	9/12/1985	PPC-7
200	85-7016	AEH-8509-813	9/12/1985	PPC-8
220	85-7017	AEH-8509-814	9/12/1985	PPC-9
157	85-7018	AEH-8509-815	9/13/1985	PPC-6
122	85-7019	AEH-8509-816	9/13/1985	PPC-5
106	85-7020	AEH-8509-817	9/13/1985	PPC-4
64	85-7021	AEH-8509-820	9/12/1985	PPC-3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

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<u>Page</u>	<u>Lab Sample ID</u>	<u>Sample ID</u>	<u>Sample Date</u>	<u>Station Name</u>
106	85-7024	AEH-8509-823	9/13/1985	PPC-4
106	86-6924	AEH-8610-125	10/15/1986	PPC-4
64	86-6931	AEH-8610-103	10/15/1986	PPC-3
88	86-6937	AEH-8610-134	10/15/1986	PPC-32A
87	86-6938	AEH-8610-133	10/15/1986	PPC-31A
86	86-6939	AEH-8610-132	10/15/1986	PPC-30A
57	86-6940	AEH-8610-131	10/15/1986	PPC-29A
122	86-6941	AEH-8610-126	10/15/1986	PPC-5
174	86-6943	AEH-8610-128	10/15/1986	PPC-7
159	86-6944	AEH-8610-127	10/15/1986	PPC-6
92	86-6948	AEH-8610-140	10/16/1986	PPC-38A
91	86-6949	AEH-8610-138	10/16/1986	PPC-36A
90	86-6950	AEH-8610-137	10/16/1986	PPC-35A
220	86-6951	AEH-8610-130	10/16/1986	PPC-9
200	86-6952	AEH-8610-129	10/16/1986	PPC-8
220	86-6953	AEH-8610-104	10/16/1986	PPC-9
65	86-6955	AEH-8610-124	10/15/1986	PPC-3
88	86-6957	AEH-8610-135	10/15/1986	PPC-33A
13	86-8133	AEH-8612-12	12/8/1986	LOWER LAKE
124	87-3036	AEH-8705-107	5/7/1987	PPC-5
88	87-3037	AEH-8705-108	5/7/1987	PPC-32A
89	87-3038	AEH-8705-109	5/7/1987	PPC-33A
159	87-3039	AEH-8705-110	5/7/1987	PPC-6
174	87-3040	AEH-8705-111	5/7/1987	PPC-7
117	87-3041	AEH-8705-114	5/7/1987	PPC-40A
200	87-3042	AEH-8705-115	5/7/1987	PPC-8
89	87-3043	AEH-8705-116	5/7/1987	PPC-34A
221	87-3045	AEH-8705-125	5/7/1987	PPC-9
92	87-3046	AEH-8705-121	5/7/1987	PPC-38A
91	87-3047	AEH-8705-120	5/7/1987	PPC-37A
91	87-3048	AEH-8705-118	5/7/1987	PPC-36A
221	87-3049	AEH-8705-119	5/7/1987	PPC-9
90	87-3116	AEH-8705-117	5/7/1987	PPC-35A
65	87-3117	AEH-8705-100	5/8/1987	PPC-3
57	87-3118	AEH-8705-101	5/8/1987	PPC-29A
107	87-3119	AEH-8705-104	5/8/1987	PPC-4
86	87-3120	AEH-8705-105	5/8/1987	PPC-30A
87	87-3123	AEH-8705-126	5/8/1987	PPC-31A
225	87-3124	AEH-8705-127	5/8/1987	SEEP-1
13	87-3125	AEH-8705-122	5/8/1987	LOWER LAKE
87	87-3127	AEH-8705-106	5/8/1987	PPC-31A
13	87-5178	AEH-8707-107	7/2/1987	LOWER LAKE
86	87-6855	AEH-8708-55	8/18/1987	PPC-30A

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

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<u>Page</u>	<u>Lab Sample ID</u>	<u>Sample ID</u>	<u>Sample Date</u>	<u>Station Name</u>
107	87-6856	AEH-8708-54	8/18/1987	PPC-4
60	87-6857	AEH-8708-53	8/18/1987	PPC-29A
159	87-6858	AEH-8708-60	8/18/1987	PPC-6
89	87-6859	AEH-8708-59	8/18/1987	PPC-33A
124	87-6860	AEH-8708-57	8/18/1987	PPC-5
87	87-6861	AEH-8708-56	8/18/1987	PPC-31A
88	87-6862	AEH-8708-58	8/18/1987	PPC-32A
174	87-6863	AEH-8708-62	8/18/1987	PPC-7
92	87-6864	AEH-8708-70	8/18/1987	PPC-38A
91	87-6865	AEH-8708-69	8/18/1987	PPC-37A
221	87-6866	AEH-8708-68	8/18/1987	PPC-9
91	87-6867	AEH-8708-67	8/18/1987	PPC-36A
90	87-6868	AEH-8708-66	8/18/1987	PPC-35A
201	87-6869	AEH-8708-64	8/18/1987	PPC-8
117	87-6870	AEH-8708-65	8/18/1987	PPC-40A
65	87-6871	AEH-8708-52	8/18/1987	PPC-3
201	87-6877	AEH-8708-50	8/18/1987	PPC-8
65	87-6880	AEH-8708-72	8/19/1987	PPC-3
201	89-557	AEH-8904-281	4/25/1989	PPC-8
174	89-558	AEH-8904-282	4/25/1989	PPC-7
175	89-559	AEH-8904-292	4/25/1989	PPC-7
124	89-560	AEH-8904-284	4/25/1989	PPC-5
66	89-561	AEH-8904-285	4/25/1989	PPC-3
14	89-562	AEH-8904-294	4/27/1989	LOWER LAKE
201	89-839	AEH-8910-455	10/26/1989	PPC-8
201	89-854	AEH-8910-466	10/26/1989	PPC-8
175	89-855	AEH-8910-467	10/26/1989	PPC-7
124	89-856	AEH-8910-468	10/26/1989	PPC-5
66	89-857	AEH-8910-469	10/26/1989	PPC-3
14	89-858	AEH-8910-470	10/26/1989	LOWER LAKE
14	90-1072	AEH-9005-511	5/3/1990	LOWER LAKE
202	90-1077	AEH-9005-431	5/2/1990	PPC-8
66	90-1083	AEH-9005-507	5/2/1990	PPC-3
124	90-1084	AEH-9005-508	5/2/1990	PPC-5
175	90-1085	AEH-9005-509	5/2/1990	PPC-7
202	90-1086	AEH-9005-510	5/2/1990	PPC-8
202	90-2214	AEH-9011-701	11/20/1990	PPC-8
175	90-2215	AEH-9011-702	11/20/1990	PPC-7
202	90-2216	AEH-9011-703	11/20/1990	PPC-8
125	90-2217	AEH-9011-704	11/20/1990	PPC-5
66	90-2218	AEH-9011-705	11/20/1990	PPC-3
14	90-2278	AEH-9011-765	12/5/1990	LOWER LAKE
202	91-2652	AEH-9105-100	5/1/1991	PPC-8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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175	91-2654	AEH-9105-102	5/1/1991	PPC-7
125	91-2655	AEH-9105-103	5/1/1991	PPC-5
175	91-2656	AEH-9105-104	5/1/1991	PPC-7
66	91-2657	AEH-9105-105	5/1/1991	PPC-3
14	91-2658	AEH-9105-106	5/1/1991	LOWER LAKE
14	91-3597	AEH-9111-306	11/6/1991	LOWER LAKE
176	91-3598	AEH-9111-311	11/6/1991	PPC-7
66	91-3599	AEH-9111-327	11/6/1991	PPC-3
176	91-3600	AEH-9111-353	11/6/1991	PPC-7
125	91-3602	AEH-9111-337	11/6/1991	PPC-5
202	91-3603	AEH-9111-347	11/6/1991	PPC-8
203	92-4278	AEH-9204-146	4/14/1992	PPC-8
176	92-4281	AEH-9204-174	4/14/1992	PPC-7
203	92-4287	AEH-9204-118	4/14/1992	PPC-8
67	92-4288	AEH-9204-136	4/29/1992	PPC-3
125	92-4289	AEH-9204-141	4/14/1992	PPC-5
15	92-4346	AEH-9204-164	4/29/1992	LOWER LAKE
203	92-6826	EHC-9211-107	11/13/1992	PPC-8
176	92-6827	EHC-9211-108	11/13/1992	PPC-7
176	92-6828	EHC-9211-110	11/13/1992	PPC-7
125	92-6829	EHC-9211-112	11/13/1992	PPC-5
67	92-6830	EHC-9211-130	11/13/1992	PPC-3
15	92-6831	EHC-9211-158	11/21/1992	LOWER LAKE
176	93-7713	EHC-9305-100	4/28/1993	PPC-7
203	93-7714	EHC-9305-101	4/28/1993	PPC-8
125	93-7715	EHC-9305-102	4/28/1993	PPC-5
203	93-7717	EHC-9305-104	4/28/1993	PPC-8
67	93-7718	EHC-9305-105	4/28/1993	PPC-3
15	93-7840	EHC-9305-167	5/6/1993	LOWER LAKE
238	93-7849	EHC-9305-176	5/11/1993	WD-2
240	93-7850	EHC-9305-177	5/14/1993	WD-3
238	93-7851	EHC-9305-178	5/14/1993	WD-2
240	93-7852	EHC-9305-179	5/14/1993	WD-4
240	93-7853	EHC-9305-180	5/14/1993	WD-3
67	93-9139	EHC-9311-148	11/2/1993	PPC-3
126	93-9140	EHC-9311-149	11/2/1993	PPC-5
177	93-9141	EHC-9311-150	11/2/1993	PPC-7
203	93-9142	EHC-9311-151	11/2/1993	PPC-8
204	93-9143	EHC-9311-157	11/2/1993	PPC-8
15	93-9216	EHC-9311-147	11/10/1993	LOWER LAKE
126	94-1107	EHC-9405-153	5/5/1994	PPC-5
177	94-1108	EHC-9405-154	5/5/1994	PPC-7
204	94-1109	EHC-9405-155	5/5/1994	PPC-8

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15	94-1320	EHC-9405-151	5/6/1994	LOWER LAKE
177	94-1322	EHC-9405-165	5/5/1994	PPC-7
204	94-3240	EHC-9411-157	11/8/1994	PPC-8
177	94-3241	EHC-9411-156	11/8/1994	PPC-7
128	94-3242	EHC-9411-155	11/8/1994	PPC-5
70	94-3243	EHC-9411-154	11/8/1994	PPC-3
70	94-3244	EHC-9411-160	11/8/1994	PPC-3
15	94-3394	EHC-9411-153	11/17/1994	LOWER LAKE
67	94-502009	AHCL-9403-117	3/28/1994	PPC-3
5	94-502010	AHCL-9403-116	3/28/1994	LL-1S
126	94-502011	AHCL-9403-118	3/28/1994	PPC-5
5	94-591009	AHCL-9404-158	4/11/1994	LL-1S
126	94-591010	AHCL-9404-159	4/11/1994	PPC-5
67	94-591011	AHCL-9404-160	4/11/1994	PPC-3
5	94-747006	AHCL-9405-205	5/6/1994	LL-1S
68	94-747007	AHCL-9405-206	5/5/1994	PPC-3
126	94-747008	AHCL-9405-207	5/5/1994	PPC-5
5	94-798006	AHCL-9405-220	5/17/1994	LL-1S
68	94-798007	AHCL-9405-221	5/17/1994	PPC-3
126	94-798008	AHCL-9405-222	5/17/1994	PPC-5
5	94-816006	AHCL-9405-234	5/19/1994	LL-1S
68	94-816007	AHCL-9405-235	5/19/1994	PPC-3
127	94-816008	AHCL-9405-236	5/19/1994	PPC-5
5	94-831006	AHCL-9405-245	5/24/1994	LL-1S
68	94-831007	AHCL-9405-246	5/24/1994	PPC-3
127	94-831008	AHCL-9405-247	5/24/1994	PPC-5
6	94-851006	AHCL-9405-260	5/26/1994	LL-1S
68	94-851007	AHCL-9405-261	5/26/1994	PPC-3
127	94-851008	AHCL-9405-262	5/26/1994	PPC-5
6	94-873006	AHCL-9405-105	5/31/1994	LL-1S
69	94-873007	AHCL-9405-106	5/31/1994	PPC-3
127	94-873008	AHCL-9405-107	5/31/1994	PPC-5
6	94-893006	AHCL-9406-105	6/2/1994	LL-1S
69	94-893007	AHCL-9406-106	6/2/1994	PPC-3
127	94-893008	AHCL-9406-107	6/2/1994	PPC-5
6	94-917006	AHCL-9406-205	6/6/1994	LL-1S
69	94-917007	AHCL-9406-206	6/6/1994	PPC-3
127	94-917008	AHCL-9406-207	6/6/1994	PPC-5
6	94-959006	AHCL-9406-305	6/13/1994	LL-1S
69	94-959007	AHCL-9406-306	6/13/1994	PPC-3
128	94-959008	AHCL-9406-307	6/13/1994	PPC-5
6	94-1209006	AHCL-9407-105	7/12/1994	LL-1S

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128	94-1209008	AHCL-9407-107	7/12/1994	PPC-5
7	94-1418006	AHCL-9408-105	8/10/1994	LL-1S
41	94-1418007	AHCL-9408-106	8/10/1994	PPC-103
32	94-1418008	AHCL-9408-107	8/10/1994	PPC-102
24	94-1418009	AHCL-9408-108	8/10/1994	PPC-101
69	94-1504016	AHCL-9408-321	8/19/1994	PPC-3
43	94-1504017	AHCL-9408-320	8/19/1994	PPC-103
128	94-1504018	AHCL-9408-322	8/19/1994	PPC-5
34	94-1504019	AHCL-9408-319	8/19/1994	PPC-102
7	94-1504020	AHCL-9408-317	8/19/1994	LL-1S
24	94-1504021	AHCL-9408-318	8/19/1994	PPC-101
34	94-1536001	AHCL-9408-419	8/26/1994	PPC-102
1	94-1536002	AHCL-9408-424	8/26/1994	LL-1D
7	94-1536003	AHCL-9408-417	8/26/1994	LL-1S
24	94-1536004	AHCL-9408-418	8/26/1994	PPC-101
43	94-1536005	AHCL-9408-420	8/26/1994	PPC-103
7	94-1585003	AHCL-9409-102	9/2/1994	LL-1S
24	94-1585004	AHCL-9409-103	9/2/1994	PPC-101
34	94-1585005	AHCL-9409-104	9/2/1994	PPC-102
43	94-1585006	AHCL-9409-105	9/2/1994	PPC-103
1	94-1585010	AHCL-9409-109	9/2/1994	LL-1D
7	94-1608003	AHCL-9409-202	9/8/1994	LL-1S
27	94-1608004	AHCL-9409-203	9/8/1994	PPC-101
34	94-1608005	AHCL-9409-204	9/8/1994	PPC-102
43	94-1608006	AHCL-9409-205	9/8/1994	PPC-103
1	94-1608010	AHCL-9409-209	9/8/1994	LL-1D
7	94-1683003	AHCL-9409-302	9/16/1994	LL-1S
27	94-1683004	AHCL-9409-303	9/16/1994	PPC-101
34	94-1683005	AHCL-9409-304	9/16/1994	PPC-102
43	94-1683006	AHCL-9409-305	9/16/1994	PPC-103
1	94-1683010	AHCL-9409-309	9/16/1994	LL-1D
8	94-1778008	AHCL-9409-417	9/27/1994	LL-1S
1	94-1778009	AHCL-9409-429	9/27/1994	LL-1D
128	94-1778010	AHCL-9409-422	9/27/1994	PPC-5
43	94-1778011	AHCL-9409-420	9/27/1994	PPC-103
34	94-1778012	AHCL-9409-419	9/27/1994	PPC-102
27	94-1778013	AHCL-9409-418	9/27/1994	PPC-101
70	94-1778014	AHCL-9409-421	9/27/1994	PPC-3
8	94-1820003	AHCL-9410-102	10/5/1994	LL-1S
27	94-1820004	AHCL-9410-103	10/5/1994	PPC-101
35	94-1820005	AHCL-9410-104	10/5/1994	PPC-102
44	94-1820006	AHCL-9410-105	10/5/1994	PPC-103

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8	94-1887003	AHCL-9410-202	10/13/1994	LL-1S
27	94-1887004	AHCL-9410-203	10/13/1994	PPC-101
35	94-1887005	AHCL-9410-204	10/13/1994	PPC-102
44	94-1887006	AHCL-9410-205	10/13/1994	PPC-103
2	94-1887010	AHCL-9410-209	10/13/1994	LL-1D
128	94-1932017	AHCL-9410-321	10/21/1994	PPC-5
44	94-1932018	AHCL-9410-319	10/21/1994	PPC-103
35	94-1932019	AHCL-9410-318	10/21/1994	PPC-102
27	94-1932020	AHCL-9410-317	10/21/1994	PPC-101
70	94-1932024	AHCL-9410-320	10/21/1994	PPC-3
70	94-1932025	AHCL-9410-325	10/21/1994	PPC-3
8	94-1932026	AHCL-9410-316	10/21/1994	LL-1S
2	94-1932027	AHCL-9410-329	10/21/1994	LL-1D
8	94-1979004	AHCL-9410-403	10/28/1994	LL-1S
28	94-1979005	AHCL-9410-404	10/28/1994	PPC-101
35	94-1979006	AHCL-9410-405	10/28/1994	PPC-102
44	94-1979007	AHCL-9410-406	10/28/1994	PPC-103
2	94-1979009	AHCL-9410-408	10/28/1994	LL-1D
8	94-2018004	AHCL-9411-103	11/3/1994	LL-1S
28	94-2018005	AHCL-9411-104	11/3/1994	PPC-101
35	94-2018006	AHCL-9411-105	11/3/1994	PPC-102
44	94-2018007	AHCL-9411-106	11/3/1994	PPC-103
9	94-2018009	AHCL-9411-108	11/3/1994	LL-1S
2	94-2018010	AHCL-9411-109	11/3/1994	LL-1D
77	95-4464	EHC-9505-153	5/4/1995	PPC-3
129	95-4465	EHC-9505-154	5/4/1995	PPC-5
181	95-4466	EHC-9505-155	5/4/1995	PPC-7
204	95-4467	EHC-9505-156	5/4/1995	PPC-8
129	95-4468	EHC-9505-159	5/4/1995	PPC-5
16	95-4521	EHC-9505-152	5/17/1995	LOWER LAKE
16	95-5808	EHC-9511-154	11/7/1995	LOWER LAKE
85	95-5809	EHC-9511-155	11/7/1995	PPC-3
132	95-5810	EHC-9511-156	11/7/1995	PPC-5
185	95-5811	EHC-9511-157	11/7/1995	PPC-7
204	95-5812	EHC-9511-158	11/7/1995	PPC-8
204	95-5818	EHC-9511-184	11/7/1995	PPC-8
177	95-79001	EPPC-9501-103	1/6/1995	PPC-7
159	95-79002	EPPC-9501-102	1/6/1995	PPC-6
162	95-79003	EPPC-9501-104	1/6/1995	PPC-6
107	95-79004	EPPC-9501-101	1/6/1995	PPC-4
70	95-79005	EPPC-9501-100	1/6/1995	PPC-3
177	95-79007	EPPC-9501-203	1/11/1995	PPC-7

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162	95-79009	EPPC-9501-205	1/11/1995	PPC-6
107	95-79010	EPPC-9501-201	1/11/1995	PPC-4
72	95-79011	EPPC-9501-200	1/11/1995	PPC-3
72	95-156001	EPPC-9501-300	1/19/1995	PPC-3
107	95-156002	EPPC-9501-301	1/19/1995	PPC-4
162	95-156003	EPPC-9501-302	1/19/1995	PPC-6
179	95-156004	EPPC-9501-303	1/19/1995	PPC-7
109	95-156005	EPPC-9501-304	1/19/1995	PPC-4
72	95-156008	EPPC-9501-401	1/26/1995	PPC-3
109	95-156009	EPPC-9501-402	1/26/1995	PPC-4
162	95-156010	EPPC-9501-403	1/26/1995	PPC-6
179	95-156011	EPPC-9501-404	1/26/1995	PPC-7
109	95-156012	EPPC-9501-405	1/26/1995	PPC-4
179	95-287001	EPPC-9502-104	2/1/1995	PPC-7
162	95-287002	EPPC-9502-103	2/1/1995	PPC-6
109	95-287003	EPPC-9502-102	2/1/1995	PPC-4
109	95-287004	EPPC-9502-105	2/1/1995	PPC-4
73	95-287005	EPPC-9502-101	2/1/1995	PPC-3
179	95-287007	EPPC-9502-204	2/9/1995	PPC-7
163	95-287008	EPPC-9502-203	2/9/1995	PPC-6
109	95-287009	EPPC-9502-202	2/9/1995	PPC-4
73	95-287010	EPPC-9502-201	2/9/1995	PPC-3
73	95-287011	EPPC-9502-205	2/9/1995	PPC-3
179	95-287013	EPPC-9502-304	2/15/1995	PPC-7
163	95-287014	EPPC-9502-303	2/15/1995	PPC-6
110	95-287015	EPPC-9502-302	2/15/1995	PPC-4
73	95-287016	EPPC-9502-301	2/15/1995	PPC-3
73	95-287017	EPPC-9502-305	2/15/1995	PPC-3
179	95-363001	EPPC-9502-404	2/22/1995	PPC-7
163	95-363002	EPPC-9502-403	2/22/1995	PPC-6
110	95-363003	EPPC-9502-402	2/22/1995	PPC-4
74	95-363004	EPPC-9502-401	2/22/1995	PPC-3
74	95-363005	EPPC-9502-405	2/22/1995	PPC-3
74	95-491002	EPPC-9503-101	3/2/1995	PPC-3
110	95-491003	EPPC-9503-102	3/2/1995	PPC-4
163	95-491004	EPPC-9503-103	3/2/1995	PPC-6
180	95-491005	EPPC-9503-104	3/2/1995	PPC-7
110	95-491006	EPPC-9503-105	3/2/1995	PPC-4
74	95-491008	EPPC-9503-201	3/8/1995	PPC-3
110	95-491009	EPPC-9503-202	3/8/1995	PPC-4
163	95-491010	EPPC-9503-203	3/8/1995	PPC-6
180	95-491011	EPPC-9503-204	3/8/1995	PPC-7

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75	95-595002	EPPC-9503-301	3/16/1995	PPC-3
110	95-595003	EPPC-9503-302	3/16/1995	PPC-4
163	95-595004	EPPC-9503-303	3/16/1995	PPC-6
180	95-595005	EPPC-9503-304	3/16/1995	PPC-7
180	95-595006	EPPC-9503-305	3/16/1995	PPC-7
75	95-595008	EPPC-9503-401	3/23/1995	PPC-3
111	95-595009	EPPC-9503-402	3/23/1995	PPC-4
164	95-595010	EPPC-9503-403	3/23/1995	PPC-6
180	95-595011	EPPC-9503-404	3/23/1995	PPC-7
164	95-595012	EPPC-9503-405	3/23/1995	PPC-6
75	95-595014	EPPC-9503-501	3/28/1995	PPC-3
111	95-595015	EPPC-9503-502	3/28/1995	PPC-4
164	95-595016	EPPC-9503-503	3/28/1995	PPC-6
181	95-595017	EPPC-9503-504	3/28/1995	PPC-7
164	95-595018	EPPC-9503-505	3/28/1995	PPC-6
9	95-616013	AHCL-9503-116	3/29/1995	LL-1S
28	95-616014	AHCL-9503-117	3/28/1995	PPC-101
35	95-616015	AHCL-9503-118	3/28/1995	PPC-102
44	95-616016	AHCL-9503-119	3/28/1995	PPC-103
75	95-616017	AHCL-9503-120	3/28/1995	PPC-3
129	95-616018	AHCL-9503-121	3/28/1995	PPC-5
2	95-616019	AHCL-9503-122	3/29/1995	LL-1D
36	95-616020	AHCL-9503-123	3/28/1995	PPC-102
75	95-733001	EPPC-9504-100	4/7/1995	PPC-3
111	95-733002	EPPC-9504-101	4/7/1995	PPC-4
164	95-733003	EPPC-9504-102	4/7/1995	PPC-6
181	95-733004	EPPC-9504-103	4/7/1995	PPC-7
164	95-733006	EPPC-9504-105	4/7/1995	PPC-6
75	95-733007	EPPC-9504-200	4/13/1995	PPC-3
111	95-733008	EPPC-9504-201	4/13/1995	PPC-4
165	95-733009	EPPC-9504-202	4/13/1995	PPC-6
181	95-733010	EPPC-9504-203	4/13/1995	PPC-7
165	95-733011	EPPC-9504-204	4/13/1995	PPC-6
9	95-826009	AHCL-9504-111	4/25/1995	LL-1S
28	95-826010	AHCL-9504-112	4/24/1995	PPC-101
36	95-826011	AHCL-9504-113	4/24/1995	PPC-102
45	95-826012	AHCL-9504-114	4/24/1995	PPC-103
77	95-826013	AHCL-9504-115	4/24/1995	PPC-3
129	95-826014	AHCL-9504-116	4/24/1995	PPC-5
9	95-826018	AHCL-9504-120	4/25/1995	LL-1S
2	95-826019	AHCL-9504-121	4/25/1995	LL-1D
77	95-862001	EPPC-9504-300	4/19/1995	PPC-3

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111	95-862002	EPPC-9504-301	4/19/1995	PPC-4
165	95-862003	EPPC-9504-302	4/19/1995	PPC-6
181	95-862004	EPPC-9504-303	4/19/1995	PPC-7
77	95-862005	EPPC-9504-304	4/19/1995	PPC-3
77	95-862007	EPPC-9504-400	4/24/1995	PPC-3
111	95-862008	EPPC-9504-401	4/24/1995	PPC-4
165	95-862009	EPPC-9504-402	4/24/1995	PPC-6
181	95-862010	EPPC-9504-403	4/24/1995	PPC-7
165	95-862011	EPPC-9504-404	4/24/1995	PPC-6
183	95-964002	EPPC-9505-100	5/4/1995	PPC-7
77	95-964003	EPPC-9505-103	5/4/1995	PPC-3
165	95-964004	EPPC-9505-101	5/4/1995	PPC-6
112	95-964005	EPPC-9505-102	5/4/1995	PPC-4
112	95-964006	EPPC-9505-104	5/4/1995	PPC-4
183	95-964008	EPPC-9505-204	5/11/1995	PPC-7
183	95-964009	EPPC-9505-205	5/11/1995	PPC-7
166	95-964010	EPPC-9505-203	5/11/1995	PPC-6
112	95-964011	EPPC-9505-202	5/11/1995	PPC-4
79	95-964012	EPPC-9505-201	5/11/1995	PPC-3
129	95-1057020	AHCL-9505-123	5/23/1995	PPC-5
45	95-1057021	AHCL-9505-121	5/23/1995	PPC-103
36	95-1057022	AHCL-9505-120	5/23/1995	PPC-102
79	95-1057023	AHCL-9505-122	5/23/1995	PPC-3
28	95-1057024	AHCL-9505-119	5/23/1995	PPC-101
129	95-1057025	AHCL-9505-126	5/23/1995	PPC-5
9	95-1057026	AHCL-9505-118	5/24/1995	LL-1S
3	95-1057027	AHCL-9505-127	5/24/1995	LL-1D
79	95-1075002	EPPC-9505-301	5/19/1995	PPC-3
112	95-1075003	EPPC-9505-302	5/19/1995	PPC-4
166	95-1075004	EPPC-9505-303	5/19/1995	PPC-6
183	95-1075005	EPPC-9505-304	5/19/1995	PPC-7
166	95-1075006	EPPC-9505-305	5/19/1995	PPC-6
79	95-1075008	EPPC-9505-401	5/25/1995	PPC-3
112	95-1075009	EPPC-9505-402	5/25/1995	PPC-4
166	95-1075010	EPPC-9505-403	5/25/1995	PPC-6
183	95-1075011	EPPC-9505-404	5/25/1995	PPC-7
79	95-1075012	EPPC-9505-405	5/25/1995	PPC-3
79	95-1198002	EPPC-9506-101	6/1/1995	PPC-3
112	95-1198003	EPPC-9506-102	6/1/1995	PPC-4
166	95-1198004	EPPC-9506-103	6/1/1995	PPC-6
183	95-1198005	EPPC-9506-104	6/1/1995	PPC-7
113	95-1198006	EPPC-9506-105	6/1/1995	PPC-4
81	95-1198008	EPPC-9506-201	6/8/1995	PPC-3

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166	95-1198010	EPPC-9506-203	6/8/1995	PPC-6
184	95-1198011	EPPC-9506-204	6/8/1995	PPC-7
184	95-1198012	EPPC-9506-205	6/8/1995	PPC-7
3	95-1280005	AHCL-9506-116	6/19/1995	LL-1D
9	95-1280006	AHCL-9506-117	6/19/1995	LL-1S
81	95-1280007	AHCL-9506-118	6/19/1995	PPC-3
130	95-1280008	AHCL-9506-119	6/19/1995	PPC-5
28	95-1280009	AHCL-9506-120	6/19/1995	PPC-101
36	95-1280010	AHCL-9506-121	6/19/1995	PPC-102
45	95-1280011	AHCL-9506-122	6/19/1995	PPC-103
45	95-1280013	AHCL-9506-124	6/19/1995	PPC-103
81	95-1329002	EPPC-9506-401	6/22/1995	PPC-3
113	95-1329003	EPPC-9506-402	6/22/1995	PPC-4
167	95-1329004	EPPC-9506-403	6/22/1995	PPC-6
184	95-1329005	EPPC-9506-404	6/22/1995	PPC-7
184	95-1329006	EPPC-9506-405	6/22/1995	PPC-7
81	95-1329008	EPPC-9506-301	6/14/1995	PPC-3
113	95-1329009	EPPC-9506-302	6/14/1995	PPC-4
167	95-1329010	EPPC-9506-303	6/14/1995	PPC-6
184	95-1329011	EPPC-9506-304	6/14/1995	PPC-7
167	95-1329012	EPPC-9506-305	6/14/1995	PPC-6
83	95-1399002	EPPC-9506-501	6/29/1995	PPC-3
113	95-1399003	EPPC-9506-502	6/29/1995	PPC-4
167	95-1399004	EPPC-9506-503	6/29/1995	PPC-6
184	95-1399005	EPPC-9506-504	6/29/1995	PPC-7
167	95-1399006	EPPC-9506-505	6/29/1995	PPC-6
3	95-1523017	AHCL-9507-116	7/18/1995	LL-1D
10	95-1523018	AHCL-9507-117	7/18/1995	LL-1S
29	95-1523019	AHCL-9507-118	7/18/1995	PPC-101
36	95-1523020	AHCL-9507-119	7/18/1995	PPC-102
45	95-1523021	AHCL-9507-120	7/18/1995	PPC-103
83	95-1523022	AHCL-9507-121	7/18/1995	PPC-3
130	95-1523023	AHCL-9507-122	7/18/1995	PPC-5
130	95-1523026	AHCL-9507-125	7/18/1995	PPC-5
3	95-1778017	AHCL-9508-116	8/16/1995	LL-1D
10	95-1778019	AHCL-9508-117	8/16/1995	LL-1S
29	95-1778020	AHCL-9508-118	8/16/1995	PPC-101
36	95-1778021	AHCL-9508-119	8/16/1995	PPC-102
45	95-1778022	AHCL-9508-120	8/16/1995	PPC-103
83	95-1778023	AHCL-9508-121	8/16/1995	PPC-3
130	95-1778024	AHCL-9508-122	8/16/1995	PPC-5
46	95-1778026	AHCL-9508-125	8/16/1995	PPC-103

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3	95-2070002	AHCL-9509-116	9/15/1995	LL-1D
29	95-2070010	AHCL-9509-118	9/15/1995	PPC-101
46	95-2070011	AHCL-9509-120	9/15/1995	PPC-103
130	95-2070012	AHCL-9509-122	9/15/1995	PPC-5
83	95-2070014	AHCL-9509-121	9/15/1995	PPC-3
46	95-2070015	AHCL-9509-125	9/15/1995	PPC-103
37	95-2070016	AHCL-9509-119	9/15/1995	PPC-102
113	95-2299005	EPPC-9510-105	10/4/1995	PPC-4
130	95-2299006	EPPC-9510-106	10/4/1995	PPC-5
115	95-2299007	EPPC-9510-107	10/4/1995	PPC-4
29	95-2401015	AHCL-9510-118	10/24/1995	PPC-101
3	95-2401020	AHCL-9510-116	10/24/1995	LL-1D
10	95-2401021	AHCL-9510-117	10/24/1995	LL-1S
37	95-2401022	AHCL-9510-119	10/24/1995	PPC-102
46	95-2401023	AHCL-9510-120	10/24/1995	PPC-103
85	95-2401024	AHCL-9510-121	10/24/1995	PPC-3
132	95-2401025	AHCL-9510-122	10/24/1995	PPC-5
37	95-2401026	AHCL-9510-124	10/24/1995	PPC-102
29	95-2532016	AHCL-9511-119	11/7/1995	PPC-101
37	95-2532017	AHCL-9511-120	11/7/1995	PPC-102
46	95-2532018	AHCL-9511-121	11/7/1995	PPC-103
85	95-2532019	AHCL-9511-122	11/7/1995	PPC-3
132	95-2532020	AHCL-9511-123	11/7/1995	PPC-5
29	95-2532021	AHCL-9511-124	11/7/1995	PPC-101
115	95-2578005	EPPC-9511-105	11/15/1995	PPC-4
132	95-2578006	EPPC-9511-106	11/15/1995	PPC-5
115	95-2775006	EPPC-9512-106	12/12/1995	PPC-4
132	95-2775007	EPPC-9512-107	12/12/1995	PPC-5
85	96-6741	EHC-9605-215	5/9/1996	PPC-3
134	96-6742	EHC-9605-216	5/9/1996	PPC-5
136	96-6744	EHC-9605-244	5/9/1996	PPC-5
16	96-6791	EHC-9605-138	5/9/1996	LOWER LAKE
185	96-6792	EHC-9605-139	5/9/1996	PPC-7
205	96-6793	EHC-9605-140	5/9/1996	PPC-8
205	96-7751	EHC-9611-140	11/7/1996	PPC-8
185	96-7752	EHC-9611-139	11/7/1996	PPC-7
93	96-7758	EHC-9611-215	11/7/1996	PPC-3A
138	96-7759	EHC-9611-216	11/7/1996	PPC-5
138	96-7760	EHC-9611-222	11/7/1996	PPC-5
16	96-7790	EHC-9611-138	11/12/1996	LOWER LAKE
115	96-152006	EPPC-9601-106	1/18/1996	PPC-4
134	96-152007	EPPC-9601-107	1/18/1996	PPC-5

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116	96-322006	EPPC-9602-106	2/15/1996	PPC-4
134	96-322007	EPPC-9602-107	2/15/1996	PPC-5
116	96-548006	EPPC-9603-106	3/18/1996	PPC-4
134	96-548007	EPPC-9603-107	3/18/1996	PPC-5
134	96-751004	EPPC-9604-107	4/17/1996	PPC-5
134	96-751005	EPPC-9604-108	4/17/1996	PPC-5
116	96-751008	EPPC-9604-106	4/17/1996	PPC-4
4	96-911001	EHC-9605-301	5/9/1996	LL-1D
10	96-911002	EHC-9605-302	5/9/1996	LL-1S
30	96-911003	EHC-9605-303	5/9/1996	PPC-101
37	96-911004	EHC-9605-304	5/9/1996	PPC-102
46	96-911005	EHC-9605-305	5/9/1996	PPC-103
116	96-957006	EPPC-9605-106	5/15/1996	PPC-4
136	96-957007	EPPC-9605-107	5/15/1996	PPC-5
116	96-1136006	EPPC-9606-106	6/12/1996	PPC-4
136	96-1136007	EPPC-9606-107	6/12/1996	PPC-5
136	96-1243019	EHC-9606-122	6/27/1996	PPC-5
47	96-1243020	EHC-9606-120	6/27/1996	PPC-103
37	96-1243021	EHC-9606-119	6/27/1996	PPC-102
30	96-1243022	EHC-9606-118	6/27/1996	PPC-101
38	96-1243024	EHC-9606-126	6/27/1996	PPC-102
11	96-1243025	EHC-9606-117	6/27/1996	LL-1S
4	96-1243026	EHC-9606-116	6/27/1996	LL-1D
92	96-1243027	EHC-9606-121	6/27/1996	PPC-3A
116	96-1375006	EPPC-9607-106	7/16/1996	PPC-4
136	96-1375007	EPPC-9607-107	7/16/1996	PPC-5
117	96-1623006	EPPC-9608-105	8/15/1996	PPC-4
136	96-1623007	EPPC-9608-106	8/15/1996	PPC-5
117	96-1853006	EPPC-9609-105	9/12/1996	PPC-4
138	96-1853007	EPPC-9609-106	9/12/1996	PPC-5
138	96-1924001	EHC-9609-122	9/18/1996	PPC-5
47	96-1924002	EHC-9609-120	9/18/1996	PPC-103
38	96-1924003	EHC-9609-119	9/18/1996	PPC-102
30	96-1924004	EHC-9609-118	9/18/1996	PPC-101
93	96-1924005	EHC-9609-121	9/18/1996	PPC-3A
38	96-1924006	EHC-9609-123	9/18/1996	PPC-102
11	96-1924007	EHC-9609-117	9/18/1996	LL-1S
4	96-1924008	EHC-9609-116	9/18/1996	LL-1D
47	96-2338002	EHC-9611-305	11/7/1996	PPC-103
16	96-2338003	EHC-9611-302	11/7/1996	LOWER LAKE
38	96-2338004	EHC-9611-304	11/7/1996	PPC-102
30	96-2338005	EHC-9611-303	11/7/1996	PPC-101

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185	97-920	EHC-9705-136	5/5/1997	PPC-7
205	97-921	EHC-9705-137	5/5/1997	PPC-8
93	97-957	EHC-9705-215	5/5/1997	PPC-3A
138	97-958	EHC-9705-216	5/5/1997	PPC-5
16	97-959	EHC-9705-217	5/5/1997	LOWER LAKE
138	97-960	EHC-9705-218	5/5/1997	PPC-5
30	97-966	EHC-9705-303	5/5/1997	PPC-101
38	97-967	EHC-9705-304	5/5/1997	PPC-102
47	97-968	EHC-9705-305	5/5/1997	PPC-103
93	188-2689	EHC-9711-215	11/4/1997	PPC-3A
140	188-2690	EHC-9711-216	11/4/1997	PPC-5
140	188-2691	EHC-9711-217	11/4/1997	PPC-5
17	188-2693	EHC-9711-138	11/4/1997	LOWER LAKE
185	188-2694	EHC-9711-139	11/4/1997	PPC-7
205	188-2695	EHC-9711-140	11/4/1997	PPC-8
30	188-2696	EHC-9711-301	11/4/1997	PPC-101
38	188-2697	EHC-9711-302	11/4/1997	PPC-102
47	188-2698	EHC-9711-303	11/4/1997	PPC-103
168	0211-208	EHC-0211-208	11/6/2002	PPC-6A
185	262-3794	EHC-9805-139	5/14/1998	PPC-7
205	262-3795	EHC-9805-140	5/14/1998	PPC-8
31	263-3817	EHC-9805-301	5/14/1998	PPC-101
39	263-3818	EHC-9805-302	5/14/1998	PPC-102
47	263-3819	EHC-9805-303	5/14/1998	PPC-103
17	264-3821	EHC-9805-215	5/14/1998	LOWER LAKE
93	264-3822	EHC-9805-216	5/14/1998	PPC-3A
140	264-3823	EHC-9805-217	5/14/1998	PPC-5
140	264-3825	EHC-9805-219	5/14/1998	PPC-5
186	311-4419	EHC-9811-138	11/18/1998	PPC-7
205	311-4420	EHC-9811-139	11/18/1998	PPC-8
17	311-4421	EHC-9811-215	11/18/1998	LOWER LAKE
93	311-4422	EHC-9811-216	11/18/1998	PPC-3A
140	311-4423	EHC-9811-217	11/18/1998	PPC-5
140	311-4424	EHC-9811-219	11/18/1998	PPC-5
31	311-4425	EHC-9811-301	11/18/1998	PPC-101
39	311-4426	EHC-9811-302	11/18/1998	PPC-102
48	311-4427	EHC-9811-303	11/18/1998	PPC-103
186	348-4911	EHC-9905-138	5/12/1999	PPC-7
206	348-4912	EHC-9905-139	5/12/1999	PPC-8
17	349-4930	EHC-9905-215	5/12/1999	LOWER LAKE
94	349-4931	EHC-9905-216	5/12/1999	PPC-3A
141	349-4932	EHC-9905-217	5/12/1999	PPC-5

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39	349-4937	EHC-9905-302	5/12/1999	PPC-102
48	349-4938	EHC-9905-303	5/12/1999	PPC-103
104	8504-331	AEH-8504-331	4/3/1985	PPC-4
118	8504-332	AEH-8504-332	4/3/1985	PPC-5
227	8504-338	AEH-8504-338	4/19/1985	WD-2
229	8504-339	AEH-8504-339	4/19/1985	WD-2
62	8505-430	AEH-8505-430	5/8/1985	PPC-3
231	8505-437	AEH-8505-437	5/8/1985	WD-2
238	8505-452	AEH-8505-452	5/8/1985	WD-3
225	8505-453	AEH-8505-453	5/8/1985	WD-1
157	8509-815	AEH-8509-815	9/13/1985	PPC-6
159	8509-815SD	AEH-8509-815 SD	9/13/1985	PPC-6
122	8509-816	AEH-8509-816	9/13/1985	PPC-5
64	8610-103	AEH-8610-103	10/15/1986	PPC-3
220	8610-104	AEH-8610-104	10/16/1986	PPC-9
64	8610-124	AEH-8610-124	10/15/1986	PPC-3
122	8610-126	AEH-8610-126	10/15/1986	PPC-5
174	8610-128	AEH-8610-128	10/15/1986	PPC-7
220	8610-130	AEH-8610-130	10/16/1986	PPC-9
57	8610-131	AEH-8610-131	10/15/1986	PPC-29A
86	8610-132	AEH-8610-132	10/15/1986	PPC-30A
88	8610-135	AEH-8610-135	10/15/1986	PPC-33A
90	8610-137	AEH-8610-137	10/16/1986	PPC-35A
13	8612-12	AEH-8612-12	12/8/1986	LOWER LAKE
65	8705-100	AEH-8705-100	5/8/1987	PPC-3
57	8705-101	AEH-8705-101	5/8/1987	PPC-29A
86	8705-105	AEH-8705-105	5/8/1987	PPC-30A
87	8705-106	AEH-8705-106	5/8/1987	PPC-31A
122	8705-107	AEH-8705-107	5/7/1987	PPC-5
89	8705-109	AEH-8705-109	5/7/1987	PPC-33A
174	8705-111	AEH-8705-111	5/7/1987	PPC-7
90	8705-117	AEH-8705-117	5/7/1987	PPC-35A
220	8705-119	AEH-8705-119	5/7/1987	PPC-9
221	8705-125	AEH-8705-125	5/7/1987	PPC-9
87	8705-126	AEH-8705-126	5/8/1987	PPC-31A
200	8708-50	AEH-8708-50	8/18/1987	PPC-8
65	8708-52	AEH-8708-52	8/18/1987	PPC-3
60	8708-53	AEH-8708-53	8/18/1987	PPC-29A
107	8708-54	AEH-8708-54	8/18/1987	PPC-4
124	8708-57	AEH-8708-57	8/18/1987	PPC-5
159	8708-60	AEH-8708-60	8/18/1987	PPC-6
201	8708-64	AEH-8708-64	8/18/1987	PPC-8

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92	8708-70	AEH-8708-70	8/18/1987	PPC-38A
72	9501-306	EPPC-9501-307	1/24/1995	PPC-3
72	9501-306	EPPC-9501-306	1/17/1995	PPC-3
72	9501-408	EPPC-9501-408	1/30/1995	PPC-3
73	9502-408	EPPC-9502-408	2/20/1995	PPC-3
74	9502-409	EPPC-9502-409	2/22/1995	PPC-3
74	9502-410	EPPC-9502-410	2/24/1995	PPC-3
81	9506-406	EPPC-9506-406	6/19/1995	PPC-3
81	9506-407	EPPC-9506-407	6/21/1995	PPC-3
83	9506-408	EPPC-9506-408	6/23/1995	PPC-3
83	9510-104	EPPC-9510-104	10/4/1995	PPC-3
85	9510-108	EPPC-9510-108	10/6/1995	PPC-3
115	9510-109	EPPC-9510-109	10/6/1995	PPC-4
132	9510-110	EPPC-9510-110	10/6/1995	PPC-5
147	8705007-18	AEH-0705-302	6/6/2007	PPC-5
149	8705007-19	AEH-0705-303	6/6/2007	PPC-5
22	AEH-0611-238	AEH-0611-238	12/8/2006	LOWER LAKE
4	AHCL-9511-117	AHCL-9511-117	11/7/1995	LL-1D
10	AHCL-9511-118	AHCL-9511-118	11/7/1995	LL-1S
20	H04040214-002	AEH-0404-202	4/27/2004	LOWER LAKE
210	H04040214-003	AEH-0404-101	4/29/2004	PPC-8
20	H04040214-005	AEH-0404-201	4/27/2004	LOWER LAKE
210	H04040214-006	AEH-0404-100	4/29/2004	PPC-8
190	H04040214-007	AEH-0404-103	4/29/2004	PPC-7
145	H04040214-008	AEH-0404-104	4/29/2004	PPC-5
49	H04040214-009	AEH-0404-105	4/29/2004	PPC-103
96	H04040214-010	AEH-0404-106	4/29/2004	PPC-3A
210	H04110049-001	AEH-0411-227	11/4/2004	PPC-8
190	H04110049-002	AEH-0411-228	11/4/2004	PPC-7
190	H04110049-003	AEH-0411-229	11/4/2004	PPC-7
145	H04110049-004	AEH-0411-230	11/4/2004	PPC-5
52	H04110049-005	AEH-0411-231	11/4/2004	PPC-103
20	H04110049-006	AEH-0411-232	11/4/2004	LOWER LAKE
96	H04110049-007	AEH-0411-233	11/4/2004	PPC-3A
210	H05060096-001	AEH-0505-300	6/9/2005	PPC-8
190	H05060096-002	AEH-0505-301	6/9/2005	PPC-7
145	H05060096-003	AEH-0505-302	6/9/2005	PPC-5
20	H05060096-004	AEH-0505-303	6/9/2005	LOWER LAKE
52	H05060096-005	AEH-0505-304	6/9/2005	PPC-103
99	H05060096-006	AEH-0505-305	6/9/2005	PPC-3A
99	H05060096-007	AEH-0505-306	6/9/2005	PPC-3A
20	H05110173-002	AEH-0511-228	11/21/2005	LOWER LAKE
210	H05110173-003	AEH-0511-229	11/21/2005	PPC-8

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145	H05110173-005	AEH-0511-231	11/21/2005	PPC-5
147	H05110173-006	AEH-0511-232	11/21/2005	PPC-5
52	H05110173-007	AEH-0511-233	11/21/2005	PPC-103
99	H05110173-008	AEH-0511-234	11/21/2005	PPC-3A
212	H06050154-001	AEH-0605-233	5/12/2006	PPC-8
192	H06050154-002	AEH-0605-234	5/12/2006	PPC-7
147	H06050154-003	AEH-0605-235	5/12/2006	PPC-5
147	H06050154-004	AEH-0605-236	5/12/2006	PPC-5
22	H06050154-005	AEH-0605-237	5/12/2006	LOWER LAKE
52	H06050154-006	AEH-0605-238	5/12/2006	PPC-103
99	H06050154-007	AEH-0605-239	5/12/2006	PPC-3A
212	H06120060-001	AEH-0611-234	12/8/2006	PPC-8
192	H06120060-002	AEH-0611-235	12/8/2006	PPC-7
147	H06120060-003	AEH-0611-236	12/8/2006	PPC-5
147	H06120060-004	AEH-0611-237	12/8/2006	PPC-5
52	H06120060-005	AEH-0611-239	12/8/2006	PPC-103
99	H06120060-006	AEH-0611-240	12/8/2006	PPC-3A
212	H07060063-001	AEH-0705-300	6/6/2007	PPC-8
192	H07060063-002	AEH-0705-301	6/6/2007	PPC-7
149	H07060063-003	AEH-0705-302	6/6/2007	PPC-5
149	H07060063-004	AEH-0705-303	6/6/2007	PPC-5
52	H07060063-005	AEH-0705-304	6/6/2007	PPC-103
22	H07060063-006	AEH-0705-305	6/6/2007	LOWER LAKE
99	H07060063-007	AEH-0705-306	6/6/2007	PPC-3A
212	H07100380-001	AEH-0711-300	10/31/2007	PPC-8
192	H07100380-002	AEH-0711-301	10/31/2007	PPC-7
149	H07100380-003	AEH-0711-302	10/31/2007	PPC-5
101	H07100380-004	AEH-0711-303	10/31/2007	PPC-3A
22	H07100380-005	AEH-0711-304	10/31/2007	LOWER LAKE
54	H07100380-006	AEH-0711-305	10/31/2007	PPC-103
54	H07100380-007	AEH-0711-306	10/31/2007	PPC-103
212	H08040470-001	AEH-0805-109	4/30/2008	PPC-8
192	H08040470-002	AEH-0805-110	4/30/2008	PPC-7
149	H08040470-004	AEH-0805-112	4/30/2008	PPC-5
54	H08040470-005	AEH-0805-113	4/30/2008	PPC-103
22	H08040470-006	AEH-0805-114	4/30/2008	LOWER LAKE
101	H08040470-007	AEH-0805-115	4/30/2008	PPC-3A
101	H08040470-008	AEH-0805-116	4/30/2008	PPC-3A
212	H08100323-001	AEH-0811-100	10/24/2008	PPC-8
192	H08100323-002	AEH-0811-101	10/24/2008	PPC-7
194	H08100323-003	AEH-0811-102	10/24/2008	PPC-7
149	H08100323-004	AEH-0811-103	10/24/2008	PPC-5

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22	H08100323-006	AEH-0811-105	10/24/2008	LOWER LAKE
101	H08100323-007	AEH-0811-106	10/24/2008	PPC-3A
214	H09050036-001	AEH-0905-100	5/1/2009	PPC-8
214	H09050036-002	AEH-0905-101	5/1/2009	PPC-8
194	H09050036-003	AEH-0905-102	5/1/2009	PPC-7
151	H09050036-004	AEH-0905-103	5/1/2009	PPC-5
54	H09050036-005	AEH-0905-104	5/1/2009	PPC-103
57	H09050036-006	AEH-0905-105	5/1/2009	PPC-103A
24	H09050036-007	AEH-0905-106	5/1/2009	LOWER LAKE
221	H09050248-001	AEH-0905-223	5/15/2009	PPC-W/B
223	H09050248-006	AEH-0905-235	5/15/2009	PPC-W/B
210	I030589-001	EHC-0310-300	10/22/2003	PPC-8
190	I030589-002	EHC-0310-301	10/22/2003	PPC-7
145	I030589-003	EHC-0310-302	10/22/2003	PPC-5
145	I030589-004	EHC-0310-303	10/22/2003	PPC-5
49	I030589-005	EHC-0310-304	10/22/2003	PPC-103
96	I030589-006	EHC-0310-305	10/22/2003	PPC-3A
20	I030589-007	EHC-0310-306	10/22/2003	LOWER LAKE
17	L000707001	EHC-0005-152	5/10/2000	LOWER LAKE
31	L000707002	EHC-0005-153	5/10/2000	PPC-101
39	L000707003	EHC-0005-154	5/10/2000	PPC-102
48	L000707004	EHC-0005-155	5/10/2000	PPC-103
94	L000707005	EHC-0005-156	5/10/2000	PPC-3A
141	L000707006	EHC-0005-157	5/10/2000	PPC-5
186	L000707007	EHC-0005-158	5/10/2000	PPC-7
206	L000707008	EHC-0005-159	5/10/2000	PPC-8
141	L000707009	EHC-0005-173	5/10/2000	PPC-5
186	L001833007	EHC-0011-160	10/31/2000	PPC-7
206	L001833008	EHC-0011-161	10/31/2000	PPC-8
206	L001833009	EHC-0011-165	10/31/2000	PPC-8
141	L001833010	EHC-0011-159	10/31/2000	PPC-5
48	L001833011	EHC-0011-157	10/31/2000	PPC-103
39	L001833012	EHC-0011-156	10/31/2000	PPC-102
31	L001833013	EHC-0011-155	10/31/2000	PPC-101
18	L001833014	EHC-0011-154	10/31/2000	LOWER LAKE
94	L001833015	EHC-0011-158	10/31/2000	PPC-3A
18	L010608001	EHC-0105-180	5/3/2001	LOWER LAKE
32	L010608002	EHC-0105-188	5/3/2001	PPC-101
41	L010608003	EHC-0105-189	5/3/2001	PPC-102
94	L010608004	EHC-0105-191	5/3/2001	PPC-3A
141	L010608005	EHC-0105-192	5/3/2001	PPC-5
188	L010608006	EHC-0105-193	5/3/2001	PPC-7

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48	L010608008	EHC-0105-190	5/3/2001	PPC-103
188	L010608009	EHC-0105-210	5/3/2001	PPC-7
227	L010827013	EHC-0106-159	6/4/2001	WD-1
238	L010827014	EHC-0106-160	6/4/2001	WD-2
18	L011574001	EHC-0111-177	11/16/2001	LOWER LAKE
32	L011574002	EHC-0111-185	11/16/2001	PPC-101
41	L011574003	EHC-0111-186	11/16/2001	PPC-102
49	L011574004	EHC-0111-187	11/16/2001	PPC-103
94	L011574005	EHC-0111-188	11/16/2001	PPC-3A
143	L011574006	EHC-0111-189	11/16/2001	PPC-5
188	L011574007	EHC-0111-190	11/16/2001	PPC-7
208	L011574008	EHC-0111-191	11/16/2001	PPC-8
208	L011574009	EHC-0111-216	11/16/2001	PPC-8
208	L020363001	EHC-0205-222	5/15/2002	PPC-8
208	L020363002	EHC-0205-226	5/15/2002	PPC-8
188	L020363003	EHC-0205-221	5/15/2002	PPC-7
168	L020363004	EHC-0205-228A	5/15/2002	PPC-6A
143	L020363005	EHC-0205-220	5/15/2002	PPC-5
49	L020363006	EHC-0205-218	5/15/2002	PPC-103
41	L020363007	EHC-0205-217	5/15/2002	PPC-102
32	L020363008	EHC-0205-216	5/15/2002	PPC-101
96	L020363009	EHC-0205-219	5/15/2002	PPC-3A
18	L020363010	EHC-0205-204	5/15/2002	LOWER LAKE
227	L020481001	EHC-0205-237	6/20/2002	WD-1
238	L020481002	EHC-0205-238	6/20/2002	WD-2
143	L020928001	EHC-0211-207	11/6/2002	PPC-5
188	L020928002	EHC-0211-209	11/6/2002	PPC-7
208	L020928003	EHC-0211-210	11/6/2002	PPC-8
143	L020928004	EHC-0211-223	11/6/2002	PPC-5
18	L020938001	EHC-0211-195	11/7/2002	LOWER LAKE
32	L020938002	EHC-0211-203	11/6/2002	PPC-101
41	L020938003	EHC-0211-204	11/6/2002	PPC-102
49	L020938004	EHC-0211-205	11/6/2002	PPC-103
96	L020938005	EHC-0211-206	11/7/2002	PPC-3A
208	L030184001	EHC-0304-100	4/30/2003	PPC-8
188	L030184002	EHC-0304-101	4/30/2003	PPC-7
143	L030184003	EHC-0304-102	4/30/2003	PPC-5
143	L030184004	EHC-0304-103	4/30/2003	PPC-5
49	L030184005	EHC-0304-104	4/30/2003	PPC-103
96	L030184006	EHC-0304-105	4/30/2003	PPC-3A
18	L030184007	EHC-0304-106	4/30/2003	LOWER LAKE
17	L992056003	EHC-9911-154	11/18/1999	LOWER LAKE

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39	L992056005	EHC-9911-156	11/18/1999	PPC-102
48	L992056006	EHC-9911-157	11/18/1999	PPC-103
94	L992056007	EHC-9911-158	11/18/1999	PPC-3A
141	L992056008	EHC-9911-159	11/18/1999	PPC-5
186	L992056009	EHC-9911-160	11/18/1999	PPC-7
206	L992056010	EHC-9911-161	11/18/1999	PPC-8
186	L992056015	EHC-9911-183	11/18/1999	PPC-7
104	S5399	AEH-8411-22-S	11/6/1984	PPC-4
214	S5401	AEH-8411-27-S	11/5/1984	PPC-9
194	S5402	AEH-8411-26-S	11/5/1984	PPC-8
168	S5404	AEH-8411-25-S	11/5/1984	PPC-7
151	S5407	AEH-8411-24-S	11/6/1984	PPC-6
118	S5413	AEH-8411-39-S	11/6/1984	PPC-5
118	S5416	AEH-8411-23-S	11/6/1984	PPC-5
11	S5454	AEH-8411-37-S	11/7/1984	LOWER LAKE
60	S5482	AEH-8411-21-S	11/7/1984	PPC-3
198	S5661	AEH-8501-106	1/10/1985	PPC-8
151	S5665	AEH-8501-104	1/11/1985	PPC-6
155	S5667	AEH-8501-104	1/11/1985	PPC-6

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210	AEH-0404-101	H04040214-003	4/29/2004	PPC-8
190	AEH-0404-103	H04040214-007	4/29/2004	PPC-7
145	AEH-0404-104	H04040214-008	4/29/2004	PPC-5
49	AEH-0404-105	H04040214-009	4/29/2004	PPC-103
96	AEH-0404-106	H04040214-010	4/29/2004	PPC-3A
20	AEH-0404-201	H04040214-005	4/27/2004	LOWER LAKE
20	AEH-0404-202	H04040214-002	4/27/2004	LOWER LAKE
210	AEH-0411-227	H04110049-001	11/4/2004	PPC-8
190	AEH-0411-228	H04110049-002	11/4/2004	PPC-7
190	AEH-0411-229	H04110049-003	11/4/2004	PPC-7
145	AEH-0411-230	H04110049-004	11/4/2004	PPC-5
52	AEH-0411-231	H04110049-005	11/4/2004	PPC-103
20	AEH-0411-232	H04110049-006	11/4/2004	LOWER LAKE
96	AEH-0411-233	H04110049-007	11/4/2004	PPC-3A
210	AEH-0505-300	H05060096-001	6/9/2005	PPC-8
190	AEH-0505-301	H05060096-002	6/9/2005	PPC-7
145	AEH-0505-302	H05060096-003	6/9/2005	PPC-5
20	AEH-0505-303	H05060096-004	6/9/2005	LOWER LAKE
52	AEH-0505-304	H05060096-005	6/9/2005	PPC-103
99	AEH-0505-305	H05060096-006	6/9/2005	PPC-3A
99	AEH-0505-306	H05060096-007	6/9/2005	PPC-3A
20	AEH-0511-228	H05110173-002	11/21/2005	LOWER LAKE
210	AEH-0511-229	H05110173-003	11/21/2005	PPC-8
190	AEH-0511-230	H05110173-004	11/21/2005	PPC-7
145	AEH-0511-231	H05110173-005	11/21/2005	PPC-5
147	AEH-0511-232	H05110173-006	11/21/2005	PPC-5
52	AEH-0511-233	H05110173-007	11/21/2005	PPC-103
99	AEH-0511-234	H05110173-008	11/21/2005	PPC-3A
212	AEH-0605-233	H06050154-001	5/12/2006	PPC-8
192	AEH-0605-234	H06050154-002	5/12/2006	PPC-7
147	AEH-0605-235	H06050154-003	5/12/2006	PPC-5
147	AEH-0605-236	H06050154-004	5/12/2006	PPC-5
22	AEH-0605-237	H06050154-005	5/12/2006	LOWER LAKE
52	AEH-0605-238	H06050154-006	5/12/2006	PPC-103
99	AEH-0605-239	H06050154-007	5/12/2006	PPC-3A
212	AEH-0611-234	H06120060-001	12/8/2006	PPC-8
192	AEH-0611-235	H06120060-002	12/8/2006	PPC-7
147	AEH-0611-236	H06120060-003	12/8/2006	PPC-5
147	AEH-0611-237	H06120060-004	12/8/2006	PPC-5
22	AEH-0611-238	AEH-0611-238	12/8/2006	LOWER LAKE
52	AEH-0611-239	H06120060-005	12/8/2006	PPC-103
99	AEH-0611-240	H06120060-006	12/8/2006	PPC-3A

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192	AEH-0705-301	H07060063-002	6/6/2007	PPC-7
147	AEH-0705-302	8705007-18	6/6/2007	PPC-5
149	AEH-0705-302	H07060063-003	6/6/2007	PPC-5
149	AEH-0705-303	8705007-19	6/6/2007	PPC-5
149	AEH-0705-303	H07060063-004	6/6/2007	PPC-5
52	AEH-0705-304	H07060063-005	6/6/2007	PPC-103
22	AEH-0705-305	H07060063-006	6/6/2007	LOWER LAKE
99	AEH-0705-306	H07060063-007	6/6/2007	PPC-3A
212	AEH-0711-300	H07100380-001	10/31/2007	PPC-8
192	AEH-0711-301	H07100380-002	10/31/2007	PPC-7
149	AEH-0711-302	H07100380-003	10/31/2007	PPC-5
101	AEH-0711-303	H07100380-004	10/31/2007	PPC-3A
22	AEH-0711-304	H07100380-005	10/31/2007	LOWER LAKE
54	AEH-0711-305	H07100380-006	10/31/2007	PPC-103
54	AEH-0711-306	H07100380-007	10/31/2007	PPC-103
212	AEH-0805-109	H08040470-001	4/30/2008	PPC-8
192	AEH-0805-110	H08040470-002	4/30/2008	PPC-7
149	AEH-0805-112	H08040470-004	4/30/2008	PPC-5
54	AEH-0805-113	H08040470-005	4/30/2008	PPC-103
22	AEH-0805-114	H08040470-006	4/30/2008	LOWER LAKE
101	AEH-0805-115	H08040470-007	4/30/2008	PPC-3A
101	AEH-0805-116	H08040470-008	4/30/2008	PPC-3A
212	AEH-0811-100	H08100323-001	10/24/2008	PPC-8
192	AEH-0811-101	H08100323-002	10/24/2008	PPC-7
194	AEH-0811-102	H08100323-003	10/24/2008	PPC-7
149	AEH-0811-103	H08100323-004	10/24/2008	PPC-5
54	AEH-0811-104	H08100323-005	10/24/2008	PPC-103
22	AEH-0811-105	H08100323-006	10/24/2008	LOWER LAKE
101	AEH-0811-106	H08100323-007	10/24/2008	PPC-3A
214	AEH-0905-100	H09050036-001	5/1/2009	PPC-8
214	AEH-0905-101	H09050036-002	5/1/2009	PPC-8
194	AEH-0905-102	H09050036-003	5/1/2009	PPC-7
151	AEH-0905-103	H09050036-004	5/1/2009	PPC-5
54	AEH-0905-104	H09050036-005	5/1/2009	PPC-103
57	AEH-0905-105	H09050036-006	5/1/2009	PPC-103A
24	AEH-0905-106	H09050036-007	5/1/2009	LOWER LAKE
221	AEH-0905-223	H09050248-001	5/15/2009	PPC-W/B
223	AEH-0905-235	H09050248-006	5/15/2009	PPC-W/B
60	AEH-8411-21	84-10985	11/7/1984	PPC-3
60	AEH-8411-21-S	S5482	11/7/1984	PPC-3
101	AEH-8411-22	84-10987	11/6/1984	PPC-4
104	AEH-8411-22-S	S5399	11/6/1984	PPC-4

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118	AEH-8411-23-S	S5416	11/6/1984	PPC-5
151	AEH-8411-24	84-10991	11/6/1984	PPC-6
151	AEH-8411-24-S	S5407	11/6/1984	PPC-6
168	AEH-8411-25	84-10993	11/5/1984	PPC-7
168	AEH-8411-25-S	S5404	11/5/1984	PPC-7
194	AEH-8411-26	84-10995	11/5/1984	PPC-8
194	AEH-8411-26-S	S5402	11/5/1984	PPC-8
214	AEH-8411-27	84-10997	11/5/1984	PPC-9
214	AEH-8411-27-S	S5401	11/5/1984	PPC-9
11	AEH-8411-37	84-11001	11/7/1984	LOWER LAKE
11	AEH-8411-37-S	S5454	11/7/1984	LOWER LAKE
118	AEH-8411-39	84-11005	11/6/1984	PPC-5
118	AEH-8411-39-S	S5413	11/6/1984	PPC-5
60	AEH-8501-101	85-533	1/14/1985	PPC-3
104	AEH-8501-102	85-534	1/14/1985	PPC-4
118	AEH-8501-103	85-535	1/11/1985	PPC-5
151	AEH-8501-104	85-536	1/11/1985	PPC-6
151	AEH-8501-104	S5665	1/11/1985	PPC-6
155	AEH-8501-104	S5667	1/11/1985	PPC-6
168	AEH-8501-105	85-537	1/10/1985	PPC-7
194	AEH-8501-106	85-538	1/10/1985	PPC-8
198	AEH-8501-106	S5661	1/10/1985	PPC-8
214	AEH-8501-107	85-539	1/10/1985	PPC-9
11	AEH-8504-310	85-2345	4/4/1985	LOWER LAKE
62	AEH-8504-330	85-2347	4/3/1985	PPC-3
104	AEH-8504-331	8504-331	4/3/1985	PPC-4
104	AEH-8504-331	85-2348	4/3/1985	PPC-4
118	AEH-8504-332	8504-332	4/3/1985	PPC-5
120	AEH-8504-332	85-2349	4/3/1985	PPC-5
155	AEH-8504-333	85-2350	4/2/1985	PPC-6
170	AEH-8504-334	85-2351	4/2/1985	PPC-7
198	AEH-8504-335	85-2352	4/2/1985	PPC-8
218	AEH-8504-336	85-2353	4/2/1985	PPC-9
227	AEH-8504-338	8504-338	4/19/1985	WD-2
229	AEH-8504-338	85-2941	4/19/1985	WD-2
229	AEH-8504-339	8504-339	4/19/1985	WD-2
229	AEH-8504-339	85-2942	4/19/1985	WD-2
227	AEH-8504-341	85-2944	4/18/1985	WD-2
229	AEH-8504-342	85-3152	4/26/1985	WD-2
229	AEH-8504-343	85-3153	4/26/1985	WD-2
229	AEH-8505-100	85-3350	5/3/1985	WD-2
231	AEH-8505-101	85-3351	5/3/1985	WD-2

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231	AEH-8505-422	85-3685	5/17/1985	WD-2
233	AEH-8505-423	85-3779	5/24/1985	WD-2
233	AEH-8505-424	85-3946	5/31/1985	WD-2
62	AEH-8505-430	8505-430	5/8/1985	PPC-3
62	AEH-8505-430	85-3496	5/8/1985	PPC-3
104	AEH-8505-431	85-3497	5/7/1985	PPC-4
120	AEH-8505-432	85-3498	5/7/1985	PPC-5
155	AEH-8505-433	85-3499	5/7/1985	PPC-6
170	AEH-8505-434	85-3500	5/7/1985	PPC-7
198	AEH-8505-435	85-3501	5/7/1985	PPC-8
218	AEH-8505-436	85-3502	5/7/1985	PPC-9
231	AEH-8505-437	85-3503	5/8/1985	WD-2
231	AEH-8505-437	8505-437	5/8/1985	WD-2
231	AEH-8505-440	85-3684	5/17/1985	WD-2
233	AEH-8505-446	85-3781	5/24/1985	WD-2
233	AEH-8505-449	85-3948	5/31/1985	WD-2
238	AEH-8505-452	8505-452	5/8/1985	WD-3
240	AEH-8505-452	85-3504	5/8/1985	WD-3
225	AEH-8505-453	8505-453	5/8/1985	WD-1
227	AEH-8505-453	85-3505	5/8/1985	WD-1
223	AEH-8505-454	85-3506	5/7/1985	SEEP-1
170	AEH-8506-505	85-4087	6/4/1985	PPC-7
170	AEH-8506-505	73-1985	6/4/1985	PPC-7
155	AEH-8506-506	85-4088	6/5/1985	PPC-6
13	AEH-8506-529	85-4091	6/6/1985	LOWER LAKE
62	AEH-8506-531	85-4093	6/5/1985	PPC-3
104	AEH-8506-532	85-4094	6/5/1985	PPC-4
120	AEH-8506-533	85-4095	6/5/1985	PPC-5
155	AEH-8506-534	85-4096	6/5/1985	PPC-6
170	AEH-8506-535	73-1983	6/4/1985	PPC-7
170	AEH-8506-535	85-4097	6/4/1985	PPC-7
198	AEH-8506-536	85-4098	6/4/1985	PPC-8
198	AEH-8506-536	73-1981	6/4/1985	PPC-8
218	AEH-8506-537	85-4099	6/4/1985	PPC-9
218	AEH-8506-537	73-1979	6/4/1985	PPC-9
233	AEH-8506-538	85-4100	6/5/1985	WD-2
234	AEH-8506-541	85-4495	6/15/1985	WD-2
233	AEH-8506-542	85-4494	6/14/1985	WD-2
234	AEH-8506-544	85-4644	6/21/1985	WD-2
234	AEH-8506-545	85-4645	6/21/1985	WD-2
223	AEH-8506-555	73-1986	6/4/1985	SEEP-1

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172	AEH-8507-605	73-2102	7/1/1985	PPC-7
172	AEH-8507-605	85-4748	7/1/1985	PPC-7
106	AEH-8507-606	85-4749	7/2/1985	PPC-4
62	AEH-8507-609	85-4750	7/2/1985	PPC-3
106	AEH-8507-610	85-4571	7/2/1985	PPC-4
120	AEH-8507-611	73-2106	7/2/1985	PPC-5
120	AEH-8507-611	85-4752	7/2/1985	PPC-5
155	AEH-8507-612	73-2096	7/1/1985	PPC-6
157	AEH-8507-612	85-4753	7/1/1985	PPC-6
172	AEH-8507-613	85-4754	7/1/1985	PPC-7
172	AEH-8507-613	73-2101	7/1/1985	PPC-7
200	AEH-8507-614	85-4755	7/1/1985	PPC-8
218	AEH-8507-615	85-4756	7/2/1985	PPC-9
235	AEH-8507-616	85-5329	7/19/1985	WD-2
235	AEH-8507-618	85-5331	7/19/1985	WD-2
234	AEH-8507-619	85-4757	7/1/1985	WD-2
234	AEH-8507-621	85-4760	7/5/1985	WD-2
234	AEH-8507-622	85-4761	7/5/1985	WD-2
235	AEH-8507-625	85-5046	7/12/1985	WD-2
235	AEH-8507-627	85-5048	7/12/1985	WD-2
235	AEH-8507-628	85-5904	7/26/1985	WD-2
235	AEH-8507-630	85-5906	7/26/1985	WD-2
223	AEH-8507-633	73-2104	7/1/1985	SEEP-1
225	AEH-8507-633	85-4758	7/1/1985	SEEP-1
236	AEH-8508-701	85-5927	8/2/1985	WD-2
236	AEH-8508-703	85-5929	8/2/1985	WD-2
157	AEH-8508-713	85-6032	8/5/1985	PPC-6
62	AEH-8508-714	85-6033	8/6/1985	PPC-3
236	AEH-8508-715	85-6289	8/12/1985	WD-2
13	AEH-8508-737	85-6035	8/6/1985	LOWER LAKE
64	AEH-8508-739	85-6037	8/6/1985	PPC-3
106	AEH-8508-740	85-6038	8/5/1985	PPC-4
120	AEH-8508-741	73-2179	8/5/1985	PPC-5
122	AEH-8508-741	85-6039	8/5/1985	PPC-5
157	AEH-8508-742	85-6040	8/5/1985	PPC-6
157	AEH-8508-742	73-2175	8/5/1985	PPC-6
172	AEH-8508-743	85-6041	8/6/1985	PPC-7
200	AEH-8508-744	85-6042	8/6/1985	PPC-8
218	AEH-8508-745	85-6043	8/6/1985	PPC-9
236	AEH-8508-746	85-6308	8/12/1985	WD-2
236	AEH-8508-749	85-6366	8/19/1985	WD-2
236	AEH-8508-750	85-6367	8/19/1985	WD-2

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237	AEH-8508-753	85-6569	8/29/1985	WD-2
225	AEH-8508-760	85-6044	8/6/1985	SEEP-1
237	AEH-8509-801	85-6714	9/4/1985	WD-2
237	AEH-8509-802	85-6775	9/4/1985	WD-2
237	AEH-8509-804	85-6857	9/10/1985	WD-2
237	AEH-8509-805	85-6858	9/10/1985	WD-2
64	AEH-8509-810	85-7013	9/12/1985	PPC-3
225	AEH-8509-811	85-7014	9/12/1985	SEEP-1
172	AEH-8509-812	85-7015	9/12/1985	PPC-7
200	AEH-8509-813	85-7016	9/12/1985	PPC-8
220	AEH-8509-814	85-7017	9/12/1985	PPC-9
157	AEH-8509-815	85-7018	9/13/1985	PPC-6
157	AEH-8509-815	8509-815	9/13/1985	PPC-6
159	AEH-8509-815 SD	8509-815SD	9/13/1985	PPC-6
122	AEH-8509-816	8509-816	9/13/1985	PPC-5
122	AEH-8509-816	85-7019	9/13/1985	PPC-5
106	AEH-8509-817	85-7020	9/13/1985	PPC-4
64	AEH-8509-820	85-7021	9/12/1985	PPC-3
106	AEH-8509-823	85-7024	9/13/1985	PPC-4
64	AEH-8610-103	8610-103	10/15/1986	PPC-3
64	AEH-8610-103	86-6931	10/15/1986	PPC-3
220	AEH-8610-104	8610-104	10/16/1986	PPC-9
220	AEH-8610-104	86-6953	10/16/1986	PPC-9
64	AEH-8610-124	8610-124	10/15/1986	PPC-3
65	AEH-8610-124	86-6955	10/15/1986	PPC-3
106	AEH-8610-125	86-6924	10/15/1986	PPC-4
122	AEH-8610-126	8610-126	10/15/1986	PPC-5
122	AEH-8610-126	86-6941	10/15/1986	PPC-5
159	AEH-8610-127	86-6944	10/15/1986	PPC-6
174	AEH-8610-128	8610-128	10/15/1986	PPC-7
174	AEH-8610-128	86-6943	10/15/1986	PPC-7
200	AEH-8610-129	86-6952	10/16/1986	PPC-8
220	AEH-8610-130	8610-130	10/16/1986	PPC-9
220	AEH-8610-130	86-6951	10/16/1986	PPC-9
57	AEH-8610-131	86-6940	10/15/1986	PPC-29A
57	AEH-8610-131	8610-131	10/15/1986	PPC-29A
86	AEH-8610-132	86-6939	10/15/1986	PPC-30A
86	AEH-8610-132	8610-132	10/15/1986	PPC-30A
87	AEH-8610-133	86-6938	10/15/1986	PPC-31A
88	AEH-8610-134	86-6937	10/15/1986	PPC-32A
88	AEH-8610-135	86-6957	10/15/1986	PPC-33A
88	AEH-8610-135	8610-135	10/15/1986	PPC-33A

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91	AEH-8610-138	86-6949	10/16/1986	PPC-36A
92	AEH-8610-140	86-6948	10/16/1986	PPC-38A
13	AEH-8612-12	8612-12	12/8/1986	LOWER LAKE
13	AEH-8612-12	86-8133	12/8/1986	LOWER LAKE
65	AEH-8705-100	87-3117	5/8/1987	PPC-3
65	AEH-8705-100	8705-100	5/8/1987	PPC-3
57	AEH-8705-101	8705-101	5/8/1987	PPC-29A
57	AEH-8705-101	87-3118	5/8/1987	PPC-29A
107	AEH-8705-104	87-3119	5/8/1987	PPC-4
86	AEH-8705-105	8705-105	5/8/1987	PPC-30A
86	AEH-8705-105	87-3120	5/8/1987	PPC-30A
87	AEH-8705-106	8705-106	5/8/1987	PPC-31A
87	AEH-8705-106	87-3127	5/8/1987	PPC-31A
122	AEH-8705-107	8705-107	5/7/1987	PPC-5
124	AEH-8705-107	87-3036	5/7/1987	PPC-5
88	AEH-8705-108	87-3037	5/7/1987	PPC-32A
89	AEH-8705-109	8705-109	5/7/1987	PPC-33A
89	AEH-8705-109	87-3038	5/7/1987	PPC-33A
159	AEH-8705-110	87-3039	5/7/1987	PPC-6
174	AEH-8705-111	87-3040	5/7/1987	PPC-7
174	AEH-8705-111	8705-111	5/7/1987	PPC-7
117	AEH-8705-114	87-3041	5/7/1987	PPC-40A
200	AEH-8705-115	87-3042	5/7/1987	PPC-8
89	AEH-8705-116	87-3043	5/7/1987	PPC-34A
90	AEH-8705-117	8705-117	5/7/1987	PPC-35A
90	AEH-8705-117	87-3116	5/7/1987	PPC-35A
91	AEH-8705-118	87-3048	5/7/1987	PPC-36A
220	AEH-8705-119	8705-119	5/7/1987	PPC-9
221	AEH-8705-119	87-3049	5/7/1987	PPC-9
91	AEH-8705-120	87-3047	5/7/1987	PPC-37A
92	AEH-8705-121	87-3046	5/7/1987	PPC-38A
13	AEH-8705-122	87-3125	5/8/1987	LOWER LAKE
221	AEH-8705-125	87-3045	5/7/1987	PPC-9
221	AEH-8705-125	8705-125	5/7/1987	PPC-9
87	AEH-8705-126	87-3123	5/8/1987	PPC-31A
87	AEH-8705-126	8705-126	5/8/1987	PPC-31A
225	AEH-8705-127	87-3124	5/8/1987	SEEP-1
13	AEH-8707-107	87-5178	7/2/1987	LOWER LAKE
200	AEH-8708-50	8708-50	8/18/1987	PPC-8
201	AEH-8708-50	87-6877	8/18/1987	PPC-8
65	AEH-8708-52	87-6871	8/18/1987	PPC-3

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60	AEH-8708-53	8708-53	8/18/1987	PPC-29A
107	AEH-8708-54	87-6856	8/18/1987	PPC-4
107	AEH-8708-54	8708-54	8/18/1987	PPC-4
86	AEH-8708-55	87-6855	8/18/1987	PPC-30A
87	AEH-8708-56	87-6861	8/18/1987	PPC-31A
124	AEH-8708-57	87-6860	8/18/1987	PPC-5
124	AEH-8708-57	8708-57	8/18/1987	PPC-5
88	AEH-8708-58	87-6862	8/18/1987	PPC-32A
89	AEH-8708-59	87-6859	8/18/1987	PPC-33A
159	AEH-8708-60	87-6858	8/18/1987	PPC-6
159	AEH-8708-60	8708-60	8/18/1987	PPC-6
174	AEH-8708-62	87-6863	8/18/1987	PPC-7
201	AEH-8708-64	87-6869	8/18/1987	PPC-8
201	AEH-8708-64	8708-64	8/18/1987	PPC-8
117	AEH-8708-65	87-6870	8/18/1987	PPC-40A
90	AEH-8708-66	87-6868	8/18/1987	PPC-35A
91	AEH-8708-67	87-6867	8/18/1987	PPC-36A
221	AEH-8708-68	87-6866	8/18/1987	PPC-9
91	AEH-8708-69	87-6865	8/18/1987	PPC-37A
92	AEH-8708-70	87-6864	8/18/1987	PPC-38A
92	AEH-8708-70	8708-70	8/18/1987	PPC-38A
65	AEH-8708-72	87-6880	8/19/1987	PPC-3
201	AEH-8904-281	89-557	4/25/1989	PPC-8
174	AEH-8904-282	89-558	4/25/1989	PPC-7
124	AEH-8904-284	89-560	4/25/1989	PPC-5
66	AEH-8904-285	89-561	4/25/1989	PPC-3
175	AEH-8904-292	89-559	4/25/1989	PPC-7
14	AEH-8904-294	89-562	4/27/1989	LOWER LAKE
201	AEH-8910-455	89-839	10/26/1989	PPC-8
201	AEH-8910-466	89-854	10/26/1989	PPC-8
175	AEH-8910-467	89-855	10/26/1989	PPC-7
124	AEH-8910-468	89-856	10/26/1989	PPC-5
66	AEH-8910-469	89-857	10/26/1989	PPC-3
14	AEH-8910-470	89-858	10/26/1989	LOWER LAKE
202	AEH-9005-431	90-1077	5/2/1990	PPC-8
66	AEH-9005-507	90-1083	5/2/1990	PPC-3
124	AEH-9005-508	90-1084	5/2/1990	PPC-5
175	AEH-9005-509	90-1085	5/2/1990	PPC-7
202	AEH-9005-510	90-1086	5/2/1990	PPC-8
14	AEH-9005-511	90-1072	5/3/1990	LOWER LAKE
202	AEH-9011-701	90-2214	11/20/1990	PPC-8

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202	AEH-9011-703	90-2216	11/20/1990	PPC-8
125	AEH-9011-704	90-2217	11/20/1990	PPC-5
66	AEH-9011-705	90-2218	11/20/1990	PPC-3
14	AEH-9011-765	90-2278	12/5/1990	LOWER LAKE
202	AEH-9105-100	91-2652	5/1/1991	PPC-8
175	AEH-9105-102	91-2654	5/1/1991	PPC-7
125	AEH-9105-103	91-2655	5/1/1991	PPC-5
175	AEH-9105-104	91-2656	5/1/1991	PPC-7
66	AEH-9105-105	91-2657	5/1/1991	PPC-3
14	AEH-9105-106	91-2658	5/1/1991	LOWER LAKE
14	AEH-9111-306	91-3597	11/6/1991	LOWER LAKE
176	AEH-9111-311	91-3598	11/6/1991	PPC-7
66	AEH-9111-327	91-3599	11/6/1991	PPC-3
125	AEH-9111-337	91-3602	11/6/1991	PPC-5
202	AEH-9111-347	91-3603	11/6/1991	PPC-8
176	AEH-9111-353	91-3600	11/6/1991	PPC-7
203	AEH-9204-118	92-4287	4/14/1992	PPC-8
67	AEH-9204-136	92-4288	4/29/1992	PPC-3
125	AEH-9204-141	92-4289	4/14/1992	PPC-5
203	AEH-9204-146	92-4278	4/14/1992	PPC-8
15	AEH-9204-164	92-4346	4/29/1992	LOWER LAKE
176	AEH-9204-174	92-4281	4/14/1992	PPC-7
5	AHCL-9403-116	94-502010	3/28/1994	LL-1S
67	AHCL-9403-117	94-502009	3/28/1994	PPC-3
126	AHCL-9403-118	94-502011	3/28/1994	PPC-5
5	AHCL-9404-158	94-591009	4/11/1994	LL-1S
126	AHCL-9404-159	94-591010	4/11/1994	PPC-5
67	AHCL-9404-160	94-591011	4/11/1994	PPC-3
6	AHCL-9405-105	94-873006	5/31/1994	LL-1S
69	AHCL-9405-106	94-873007	5/31/1994	PPC-3
127	AHCL-9405-107	94-873008	5/31/1994	PPC-5
5	AHCL-9405-205	94-747006	5/6/1994	LL-1S
68	AHCL-9405-206	94-747007	5/5/1994	PPC-3
126	AHCL-9405-207	94-747008	5/5/1994	PPC-5
5	AHCL-9405-220	94-798006	5/17/1994	LL-1S
68	AHCL-9405-221	94-798007	5/17/1994	PPC-3
126	AHCL-9405-222	94-798008	5/17/1994	PPC-5
5	AHCL-9405-234	94-816006	5/19/1994	LL-1S
68	AHCL-9405-235	94-816007	5/19/1994	PPC-3
127	AHCL-9405-236	94-816008	5/19/1994	PPC-5
5	AHCL-9405-245	94-831006	5/24/1994	LL-1S
68	AHCL-9405-246	94-831007	5/24/1994	PPC-3

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6	AHCL-9405-260	94-851006	5/26/1994	LL-1S
68	AHCL-9405-261	94-851007	5/26/1994	PPC-3
127	AHCL-9405-262	94-851008	5/26/1994	PPC-5
6	AHCL-9406-105	94-893006	6/2/1994	LL-1S
69	AHCL-9406-106	94-893007	6/2/1994	PPC-3
127	AHCL-9406-107	94-893008	6/2/1994	PPC-5
6	AHCL-9406-205	94-917006	6/6/1994	LL-1S
69	AHCL-9406-206	94-917007	6/6/1994	PPC-3
127	AHCL-9406-207	94-917008	6/6/1994	PPC-5
6	AHCL-9406-305	94-959006	6/13/1994	LL-1S
69	AHCL-9406-306	94-959007	6/13/1994	PPC-3
128	AHCL-9406-307	94-959008	6/13/1994	PPC-5
6	AHCL-9407-105	94-1209006	7/12/1994	LL-1S
69	AHCL-9407-106	94-1209007	7/12/1994	PPC-3
128	AHCL-9407-107	94-1209008	7/12/1994	PPC-5
7	AHCL-9408-105	94-1418006	8/10/1994	LL-1S
41	AHCL-9408-106	94-1418007	8/10/1994	PPC-103
32	AHCL-9408-107	94-1418008	8/10/1994	PPC-102
24	AHCL-9408-108	94-1418009	8/10/1994	PPC-101
7	AHCL-9408-317	94-1504020	8/19/1994	LL-1S
24	AHCL-9408-318	94-1504021	8/19/1994	PPC-101
34	AHCL-9408-319	94-1504019	8/19/1994	PPC-102
43	AHCL-9408-320	94-1504017	8/19/1994	PPC-103
69	AHCL-9408-321	94-1504016	8/19/1994	PPC-3
128	AHCL-9408-322	94-1504018	8/19/1994	PPC-5
7	AHCL-9408-417	94-1536003	8/26/1994	LL-1S
24	AHCL-9408-418	94-1536004	8/26/1994	PPC-101
34	AHCL-9408-419	94-1536001	8/26/1994	PPC-102
43	AHCL-9408-420	94-1536005	8/26/1994	PPC-103
1	AHCL-9408-424	94-1536002	8/26/1994	LL-1D
7	AHCL-9409-102	94-1585003	9/2/1994	LL-1S
24	AHCL-9409-103	94-1585004	9/2/1994	PPC-101
34	AHCL-9409-104	94-1585005	9/2/1994	PPC-102
43	AHCL-9409-105	94-1585006	9/2/1994	PPC-103
1	AHCL-9409-109	94-1585010	9/2/1994	LL-1D
7	AHCL-9409-202	94-1608003	9/8/1994	LL-1S
27	AHCL-9409-203	94-1608004	9/8/1994	PPC-101
34	AHCL-9409-204	94-1608005	9/8/1994	PPC-102
43	AHCL-9409-205	94-1608006	9/8/1994	PPC-103
1	AHCL-9409-209	94-1608010	9/8/1994	LL-1D
7	AHCL-9409-302	94-1683003	9/16/1994	LL-1S
27	AHCL-9409-303	94-1683004	9/16/1994	PPC-101

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43	AHCL-9409-305	94-1683006	9/16/1994	PPC-103
1	AHCL-9409-309	94-1683010	9/16/1994	LL-1D
8	AHCL-9409-417	94-1778008	9/27/1994	LL-1S
27	AHCL-9409-418	94-1778013	9/27/1994	PPC-101
34	AHCL-9409-419	94-1778012	9/27/1994	PPC-102
43	AHCL-9409-420	94-1778011	9/27/1994	PPC-103
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128	AHCL-9409-422	94-1778010	9/27/1994	PPC-5
1	AHCL-9409-429	94-1778009	9/27/1994	LL-1D
8	AHCL-9410-102	94-1820003	10/5/1994	LL-1S
27	AHCL-9410-103	94-1820004	10/5/1994	PPC-101
35	AHCL-9410-104	94-1820005	10/5/1994	PPC-102
44	AHCL-9410-105	94-1820006	10/5/1994	PPC-103
1	AHCL-9410-107	94-1820008	10/5/1994	LL-1D
8	AHCL-9410-202	94-1887003	10/13/1994	LL-1S
27	AHCL-9410-203	94-1887004	10/13/1994	PPC-101
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44	AHCL-9410-205	94-1887006	10/13/1994	PPC-103
2	AHCL-9410-209	94-1887010	10/13/1994	LL-1D
8	AHCL-9410-316	94-1932026	10/21/1994	LL-1S
27	AHCL-9410-317	94-1932020	10/21/1994	PPC-101
35	AHCL-9410-318	94-1932019	10/21/1994	PPC-102
44	AHCL-9410-319	94-1932018	10/21/1994	PPC-103
70	AHCL-9410-320	94-1932024	10/21/1994	PPC-3
128	AHCL-9410-321	94-1932017	10/21/1994	PPC-5
70	AHCL-9410-325	94-1932025	10/21/1994	PPC-3
2	AHCL-9410-329	94-1932027	10/21/1994	LL-1D
8	AHCL-9410-403	94-1979004	10/28/1994	LL-1S
28	AHCL-9410-404	94-1979005	10/28/1994	PPC-101
35	AHCL-9410-405	94-1979006	10/28/1994	PPC-102
44	AHCL-9410-406	94-1979007	10/28/1994	PPC-103
2	AHCL-9410-408	94-1979009	10/28/1994	LL-1D
8	AHCL-9411-103	94-2018004	11/3/1994	LL-1S
28	AHCL-9411-104	94-2018005	11/3/1994	PPC-101
35	AHCL-9411-105	94-2018006	11/3/1994	PPC-102
44	AHCL-9411-106	94-2018007	11/3/1994	PPC-103
9	AHCL-9411-108	94-2018009	11/3/1994	LL-1S
2	AHCL-9411-109	94-2018010	11/3/1994	LL-1D
9	AHCL-9503-116	95-616013	3/29/1995	LL-1S
28	AHCL-9503-117	95-616014	3/28/1995	PPC-101
35	AHCL-9503-118	95-616015	3/28/1995	PPC-102
44	AHCL-9503-119	95-616016	3/28/1995	PPC-103

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129	AHCL-9503-121	95-616018	3/28/1995	PPC-5
2	AHCL-9503-122	95-616019	3/29/1995	LL-1D
36	AHCL-9503-123	95-616020	3/28/1995	PPC-102
9	AHCL-9504-111	95-826009	4/25/1995	LL-1S
28	AHCL-9504-112	95-826010	4/24/1995	PPC-101
36	AHCL-9504-113	95-826011	4/24/1995	PPC-102
45	AHCL-9504-114	95-826012	4/24/1995	PPC-103
77	AHCL-9504-115	95-826013	4/24/1995	PPC-3
129	AHCL-9504-116	95-826014	4/24/1995	PPC-5
9	AHCL-9504-120	95-826018	4/25/1995	LL-1S
2	AHCL-9504-121	95-826019	4/25/1995	LL-1D
9	AHCL-9505-118	95-1057026	5/24/1995	LL-1S
28	AHCL-9505-119	95-1057024	5/23/1995	PPC-101
36	AHCL-9505-120	95-1057022	5/23/1995	PPC-102
45	AHCL-9505-121	95-1057021	5/23/1995	PPC-103
79	AHCL-9505-122	95-1057023	5/23/1995	PPC-3
129	AHCL-9505-123	95-1057020	5/23/1995	PPC-5
129	AHCL-9505-126	95-1057025	5/23/1995	PPC-5
3	AHCL-9505-127	95-1057027	5/24/1995	LL-1D
3	AHCL-9506-116	95-1280005	6/19/1995	LL-1D
9	AHCL-9506-117	95-1280006	6/19/1995	LL-1S
81	AHCL-9506-118	95-1280007	6/19/1995	PPC-3
130	AHCL-9506-119	95-1280008	6/19/1995	PPC-5
28	AHCL-9506-120	95-1280009	6/19/1995	PPC-101
36	AHCL-9506-121	95-1280010	6/19/1995	PPC-102
45	AHCL-9506-122	95-1280011	6/19/1995	PPC-103
45	AHCL-9506-124	95-1280013	6/19/1995	PPC-103
3	AHCL-9507-116	95-1523017	7/18/1995	LL-1D
10	AHCL-9507-117	95-1523018	7/18/1995	LL-1S
29	AHCL-9507-118	95-1523019	7/18/1995	PPC-101
36	AHCL-9507-119	95-1523020	7/18/1995	PPC-102
45	AHCL-9507-120	95-1523021	7/18/1995	PPC-103
83	AHCL-9507-121	95-1523022	7/18/1995	PPC-3
130	AHCL-9507-122	95-1523023	7/18/1995	PPC-5
130	AHCL-9507-125	95-1523026	7/18/1995	PPC-5
3	AHCL-9508-116	95-1778017	8/16/1995	LL-1D
10	AHCL-9508-117	95-1778019	8/16/1995	LL-1S
29	AHCL-9508-118	95-1778020	8/16/1995	PPC-101
36	AHCL-9508-119	95-1778021	8/16/1995	PPC-102
45	AHCL-9508-120	95-1778022	8/16/1995	PPC-103
83	AHCL-9508-121	95-1778023	8/16/1995	PPC-3
130	AHCL-9508-122	95-1778024	8/16/1995	PPC-5

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10	AHCL-9509-117	95-2070001	9/15/1995	LL-1S
29	AHCL-9509-118	95-2070010	9/15/1995	PPC-101
37	AHCL-9509-119	95-2070016	9/15/1995	PPC-102
46	AHCL-9509-120	95-2070011	9/15/1995	PPC-103
83	AHCL-9509-121	95-2070014	9/15/1995	PPC-3
130	AHCL-9509-122	95-2070012	9/15/1995	PPC-5
46	AHCL-9509-125	95-2070015	9/15/1995	PPC-103
3	AHCL-9510-116	95-2401020	10/24/1995	LL-1D
10	AHCL-9510-117	95-2401021	10/24/1995	LL-1S
29	AHCL-9510-118	95-2401015	10/24/1995	PPC-101
37	AHCL-9510-119	95-2401022	10/24/1995	PPC-102
46	AHCL-9510-120	95-2401023	10/24/1995	PPC-103
85	AHCL-9510-121	95-2401024	10/24/1995	PPC-3
132	AHCL-9510-122	95-2401025	10/24/1995	PPC-5
37	AHCL-9510-124	95-2401026	10/24/1995	PPC-102
4	AHCL-9511-117	AHCL-9511-117	11/7/1995	LL-1D
10	AHCL-9511-118	AHCL-9511-118	11/7/1995	LL-1S
29	AHCL-9511-119	95-2532016	11/7/1995	PPC-101
37	AHCL-9511-120	95-2532017	11/7/1995	PPC-102
46	AHCL-9511-121	95-2532018	11/7/1995	PPC-103
85	AHCL-9511-122	95-2532019	11/7/1995	PPC-3
132	AHCL-9511-123	95-2532020	11/7/1995	PPC-5
29	AHCL-9511-124	95-2532021	11/7/1995	PPC-101
17	EHC-0005-152	L000707001	5/10/2000	LOWER LAKE
31	EHC-0005-153	L000707002	5/10/2000	PPC-101
39	EHC-0005-154	L000707003	5/10/2000	PPC-102
48	EHC-0005-155	L000707004	5/10/2000	PPC-103
94	EHC-0005-156	L000707005	5/10/2000	PPC-3A
141	EHC-0005-157	L000707006	5/10/2000	PPC-5
186	EHC-0005-158	L000707007	5/10/2000	PPC-7
206	EHC-0005-159	L000707008	5/10/2000	PPC-8
141	EHC-0005-173	L000707009	5/10/2000	PPC-5
18	EHC-0011-154	L001833014	10/31/2000	LOWER LAKE
31	EHC-0011-155	L001833013	10/31/2000	PPC-101
39	EHC-0011-156	L001833012	10/31/2000	PPC-102
48	EHC-0011-157	L001833011	10/31/2000	PPC-103
94	EHC-0011-158	L001833015	10/31/2000	PPC-3A
141	EHC-0011-159	L001833010	10/31/2000	PPC-5
186	EHC-0011-160	L001833007	10/31/2000	PPC-7
206	EHC-0011-161	L001833008	10/31/2000	PPC-8
206	EHC-0011-165	L001833009	10/31/2000	PPC-8

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32	EHC-0105-188	L010608002	5/3/2001	PPC-101
41	EHC-0105-189	L010608003	5/3/2001	PPC-102
48	EHC-0105-190	L010608008	5/3/2001	PPC-103
94	EHC-0105-191	L010608004	5/3/2001	PPC-3A
141	EHC-0105-192	L010608005	5/3/2001	PPC-5
188	EHC-0105-193	L010608006	5/3/2001	PPC-7
206	EHC-0105-194	L010608007	5/3/2001	PPC-8
188	EHC-0105-210	L010608009	5/3/2001	PPC-7
227	EHC-0106-159	L010827013	6/4/2001	WD-1
238	EHC-0106-160	L010827014	6/4/2001	WD-2
18	EHC-0111-177	L011574001	11/16/2001	LOWER LAKE
32	EHC-0111-185	L011574002	11/16/2001	PPC-101
41	EHC-0111-186	L011574003	11/16/2001	PPC-102
49	EHC-0111-187	L011574004	11/16/2001	PPC-103
94	EHC-0111-188	L011574005	11/16/2001	PPC-3A
143	EHC-0111-189	L011574006	11/16/2001	PPC-5
188	EHC-0111-190	L011574007	11/16/2001	PPC-7
208	EHC-0111-191	L011574008	11/16/2001	PPC-8
208	EHC-0111-216	L011574009	11/16/2001	PPC-8
18	EHC-0205-204	L020363010	5/15/2002	LOWER LAKE
32	EHC-0205-216	L020363008	5/15/2002	PPC-101
41	EHC-0205-217	L020363007	5/15/2002	PPC-102
49	EHC-0205-218	L020363006	5/15/2002	PPC-103
96	EHC-0205-219	L020363009	5/15/2002	PPC-3A
143	EHC-0205-220	L020363005	5/15/2002	PPC-5
188	EHC-0205-221	L020363003	5/15/2002	PPC-7
208	EHC-0205-222	L020363001	5/15/2002	PPC-8
208	EHC-0205-226	L020363002	5/15/2002	PPC-8
168	EHC-0205-228A	L020363004	5/15/2002	PPC-6A
227	EHC-0205-237	L020481001	6/20/2002	WD-1
238	EHC-0205-238	L020481002	6/20/2002	WD-2
18	EHC-0211-195	L020938001	11/7/2002	LOWER LAKE
32	EHC-0211-203	L020938002	11/6/2002	PPC-101
41	EHC-0211-204	L020938003	11/6/2002	PPC-102
49	EHC-0211-205	L020938004	11/6/2002	PPC-103
96	EHC-0211-206	L020938005	11/7/2002	PPC-3A
143	EHC-0211-207	L020928001	11/6/2002	PPC-5
168	EHC-0211-208	0211-208	11/6/2002	PPC-6A
188	EHC-0211-209	L020928002	11/6/2002	PPC-7
208	EHC-0211-210	L020928003	11/6/2002	PPC-8
143	EHC-0211-223	L020928004	11/6/2002	PPC-5
208	EHC-0304-100	L030184001	4/30/2003	PPC-8

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143	EHC-0304-102	L030184003	4/30/2003	PPC-5
143	EHC-0304-103	L030184004	4/30/2003	PPC-5
49	EHC-0304-104	L030184005	4/30/2003	PPC-103
96	EHC-0304-105	L030184006	4/30/2003	PPC-3A
18	EHC-0304-106	L030184007	4/30/2003	LOWER LAKE
210	EHC-0310-300	1030589-001	10/22/2003	PPC-8
190	EHC-0310-301	1030589-002	10/22/2003	PPC-7
145	EHC-0310-302	1030589-003	10/22/2003	PPC-5
145	EHC-0310-303	1030589-004	10/22/2003	PPC-5
49	EHC-0310-304	1030589-005	10/22/2003	PPC-103
96	EHC-0310-305	1030589-006	10/22/2003	PPC-3A
20	EHC-0310-306	1030589-007	10/22/2003	LOWER LAKE
203	EHC-9211-107	92-6826	11/13/1992	PPC-8
176	EHC-9211-108	92-6827	11/13/1992	PPC-7
176	EHC-9211-110	92-6828	11/13/1992	PPC-7
125	EHC-9211-112	92-6829	11/13/1992	PPC-5
67	EHC-9211-130	92-6830	11/13/1992	PPC-3
15	EHC-9211-158	92-6831	11/21/1992	LOWER LAKE
176	EHC-9305-100	93-7713	4/28/1993	PPC-7
203	EHC-9305-101	93-7714	4/28/1993	PPC-8
125	EHC-9305-102	93-7715	4/28/1993	PPC-5
203	EHC-9305-104	93-7717	4/28/1993	PPC-8
67	EHC-9305-105	93-7718	4/28/1993	PPC-3
15	EHC-9305-167	93-7840	5/6/1993	LOWER LAKE
238	EHC-9305-176	93-7849	5/11/1993	WD-2
240	EHC-9305-177	93-7850	5/14/1993	WD-3
238	EHC-9305-178	93-7851	5/14/1993	WD-2
240	EHC-9305-179	93-7852	5/14/1993	WD-4
240	EHC-9305-180	93-7853	5/14/1993	WD-3
15	EHC-9311-147	93-9216	11/10/1993	LOWER LAKE
67	EHC-9311-148	93-9139	11/2/1993	PPC-3
126	EHC-9311-149	93-9140	11/2/1993	PPC-5
177	EHC-9311-150	93-9141	11/2/1993	PPC-7
203	EHC-9311-151	93-9142	11/2/1993	PPC-8
204	EHC-9311-157	93-9143	11/2/1993	PPC-8
15	EHC-9405-151	94-1320	5/6/1994	LOWER LAKE
68	EHC-9405-152	94-1110	5/5/1994	PPC-3
126	EHC-9405-153	94-1107	5/5/1994	PPC-5
177	EHC-9405-154	94-1108	5/5/1994	PPC-7
204	EHC-9405-155	94-1109	5/5/1994	PPC-8
177	EHC-9405-165	94-1322	5/5/1994	PPC-7
15	EHC-9411-153	94-3394	11/17/1994	LOWER LAKE

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128	EHC-9411-155	94-3242	11/8/1994	PPC-5
177	EHC-9411-156	94-3241	11/8/1994	PPC-7
204	EHC-9411-157	94-3240	11/8/1994	PPC-8
70	EHC-9411-160	94-3244	11/8/1994	PPC-3
16	EHC-9505-152	95-4521	5/17/1995	LOWER LAKE
77	EHC-9505-153	95-4464	5/4/1995	PPC-3
129	EHC-9505-154	95-4465	5/4/1995	PPC-5
181	EHC-9505-155	95-4466	5/4/1995	PPC-7
204	EHC-9505-156	95-4467	5/4/1995	PPC-8
129	EHC-9505-159	95-4468	5/4/1995	PPC-5
16	EHC-9511-154	95-5808	11/7/1995	LOWER LAKE
85	EHC-9511-155	95-5809	11/7/1995	PPC-3
132	EHC-9511-156	95-5810	11/7/1995	PPC-5
185	EHC-9511-157	95-5811	11/7/1995	PPC-7
204	EHC-9511-158	95-5812	11/7/1995	PPC-8
204	EHC-9511-184	95-5818	11/7/1995	PPC-8
16	EHC-9605-138	96-6791	5/9/1996	LOWER LAKE
185	EHC-9605-139	96-6792	5/9/1996	PPC-7
205	EHC-9605-140	96-6793	5/9/1996	PPC-8
85	EHC-9605-215	96-6741	5/9/1996	PPC-3
134	EHC-9605-216	96-6742	5/9/1996	PPC-5
136	EHC-9605-244	96-6744	5/9/1996	PPC-5
4	EHC-9605-301	96-911001	5/9/1996	LL-1D
10	EHC-9605-302	96-911002	5/9/1996	LL-1S
30	EHC-9605-303	96-911003	5/9/1996	PPC-101
37	EHC-9605-304	96-911004	5/9/1996	PPC-102
46	EHC-9605-305	96-911005	5/9/1996	PPC-103
4	EHC-9606-116	96-1243026	6/27/1996	LL-1D
11	EHC-9606-117	96-1243025	6/27/1996	LL-1S
30	EHC-9606-118	96-1243022	6/27/1996	PPC-101
37	EHC-9606-119	96-1243021	6/27/1996	PPC-102
47	EHC-9606-120	96-1243020	6/27/1996	PPC-103
92	EHC-9606-121	96-1243027	6/27/1996	PPC-3A
136	EHC-9606-122	96-1243019	6/27/1996	PPC-5
38	EHC-9606-126	96-1243024	6/27/1996	PPC-102
4	EHC-9609-116	96-1924008	9/18/1996	LL-1D
11	EHC-9609-117	96-1924007	9/18/1996	LL-1S
30	EHC-9609-118	96-1924004	9/18/1996	PPC-101
38	EHC-9609-119	96-1924003	9/18/1996	PPC-102
47	EHC-9609-120	96-1924002	9/18/1996	PPC-103
93	EHC-9609-121	96-1924005	9/18/1996	PPC-3A
138	EHC-9609-122	96-1924001	9/18/1996	PPC-5

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38	EHC-9609-123	96-1924006	9/18/1996	PPC-102
16	EHC-9611-138	96-7790	11/12/1996	LOWER LAKE
185	EHC-9611-139	96-7752	11/7/1996	PPC-7
205	EHC-9611-140	96-7751	11/7/1996	PPC-8
93	EHC-9611-215	96-7758	11/7/1996	PPC-3A
138	EHC-9611-216	96-7759	11/7/1996	PPC-5
138	EHC-9611-222	96-7760	11/7/1996	PPC-5
4	EHC-9611-301	96-2338006	11/7/1996	LL-1D
16	EHC-9611-302	96-2338003	11/7/1996	LOWER LAKE
30	EHC-9611-303	96-2338005	11/7/1996	PPC-101
38	EHC-9611-304	96-2338004	11/7/1996	PPC-102
47	EHC-9611-305	96-2338002	11/7/1996	PPC-103
185	EHC-9705-136	97-920	5/5/1997	PPC-7
205	EHC-9705-137	97-921	5/5/1997	PPC-8
93	EHC-9705-215	97-957	5/5/1997	PPC-3A
138	EHC-9705-216	97-958	5/5/1997	PPC-5
16	EHC-9705-217	97-959	5/5/1997	LOWER LAKE
138	EHC-9705-218	97-960	5/5/1997	PPC-5
30	EHC-9705-303	97-966	5/5/1997	PPC-101
38	EHC-9705-304	97-967	5/5/1997	PPC-102
47	EHC-9705-305	97-968	5/5/1997	PPC-103
17	EHC-9711-138	188-2693	11/4/1997	LOWER LAKE
185	EHC-9711-139	188-2694	11/4/1997	PPC-7
205	EHC-9711-140	188-2695	11/4/1997	PPC-8
93	EHC-9711-215	188-2689	11/4/1997	PPC-3A
140	EHC-9711-216	188-2690	11/4/1997	PPC-5
140	EHC-9711-217	188-2691	11/4/1997	PPC-5
30	EHC-9711-301	188-2696	11/4/1997	PPC-101
38	EHC-9711-302	188-2697	11/4/1997	PPC-102
47	EHC-9711-303	188-2698	11/4/1997	PPC-103
185	EHC-9805-139	262-3794	5/14/1998	PPC-7
205	EHC-9805-140	262-3795	5/14/1998	PPC-8
17	EHC-9805-215	264-3821	5/14/1998	LOWER LAKE
93	EHC-9805-216	264-3822	5/14/1998	PPC-3A
140	EHC-9805-217	264-3823	5/14/1998	PPC-5
140	EHC-9805-219	264-3825	5/14/1998	PPC-5
31	EHC-9805-301	263-3817	5/14/1998	PPC-101
39	EHC-9805-302	263-3818	5/14/1998	PPC-102
47	EHC-9805-303	263-3819	5/14/1998	PPC-103
186	EHC-9811-138	311-4419	11/18/1998	PPC-7
205	EHC-9811-139	311-4420	11/18/1998	PPC-8
17	EHC-9811-215	311-4421	11/18/1998	LOWER LAKE
93	EHC-9811-216	311-4422	11/18/1998	PPC-3A

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140	EHC-9811-219	311-4424	11/18/1998	PPC-5
31	EHC-9811-301	311-4425	11/18/1998	PPC-101
39	EHC-9811-302	311-4426	11/18/1998	PPC-102
48	EHC-9811-303	311-4427	11/18/1998	PPC-103
186	EHC-9905-138	348-4911	5/12/1999	PPC-7
206	EHC-9905-139	348-4912	5/12/1999	PPC-8
17	EHC-9905-215	349-4930	5/12/1999	LOWER LAKE
94	EHC-9905-216	349-4931	5/12/1999	PPC-3A
141	EHC-9905-217	349-4932	5/12/1999	PPC-5
31	EHC-9905-301	349-4936	5/12/1999	PPC-101
39	EHC-9905-302	349-4937	5/12/1999	PPC-102
48	EHC-9905-303	349-4938	5/12/1999	PPC-103
17	EHC-9911-154	L992056003	11/18/1999	LOWER LAKE
31	EHC-9911-155	L992056004	11/18/1999	PPC-101
39	EHC-9911-156	L992056005	11/18/1999	PPC-102
48	EHC-9911-157	L992056006	11/18/1999	PPC-103
94	EHC-9911-158	L992056007	11/18/1999	PPC-3A
141	EHC-9911-159	L992056008	11/18/1999	PPC-5
186	EHC-9911-160	L992056009	11/18/1999	PPC-7
206	EHC-9911-161	L992056010	11/18/1999	PPC-8
186	EHC-9911-183	L992056015	11/18/1999	PPC-7
70	EPPC-9501-100	95-79005	1/6/1995	PPC-3
107	EPPC-9501-101	95-79004	1/6/1995	PPC-4
159	EPPC-9501-102	95-79002	1/6/1995	PPC-6
177	EPPC-9501-103	95-79001	1/6/1995	PPC-7
162	EPPC-9501-104	95-79003	1/6/1995	PPC-6
72	EPPC-9501-200	95-79011	1/11/1995	PPC-3
107	EPPC-9501-201	95-79010	1/11/1995	PPC-4
162	EPPC-9501-202	95-79008	1/11/1995	PPC-6
177	EPPC-9501-203	95-79007	1/11/1995	PPC-7
162	EPPC-9501-205	95-79009	1/11/1995	PPC-6
72	EPPC-9501-300	95-156001	1/19/1995	PPC-3
107	EPPC-9501-301	95-156002	1/19/1995	PPC-4
162	EPPC-9501-302	95-156003	1/19/1995	PPC-6
179	EPPC-9501-303	95-156004	1/19/1995	PPC-7
109	EPPC-9501-304	95-156005	1/19/1995	PPC-4
72	EPPC-9501-306	9501-306	1/17/1995	PPC-3
72	EPPC-9501-307	9501-306	1/24/1995	PPC-3
72	EPPC-9501-401	95-156008	1/26/1995	PPC-3
109	EPPC-9501-402	95-156009	1/26/1995	PPC-4
162	EPPC-9501-403	95-156010	1/26/1995	PPC-6
179	EPPC-9501-404	95-156011	1/26/1995	PPC-7

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72	EPPC-9501-408	9501-408	1/30/1995	PPC-3
73	EPPC-9502-101	95-287005	2/1/1995	PPC-3
109	EPPC-9502-102	95-287003	2/1/1995	PPC-4
162	EPPC-9502-103	95-287002	2/1/1995	PPC-6
179	EPPC-9502-104	95-287001	2/1/1995	PPC-7
109	EPPC-9502-105	95-287004	2/1/1995	PPC-4
73	EPPC-9502-201	95-287010	2/9/1995	PPC-3
109	EPPC-9502-202	95-287009	2/9/1995	PPC-4
163	EPPC-9502-203	95-287008	2/9/1995	PPC-6
179	EPPC-9502-204	95-287007	2/9/1995	PPC-7
73	EPPC-9502-205	95-287011	2/9/1995	PPC-3
73	EPPC-9502-301	95-287016	2/15/1995	PPC-3
110	EPPC-9502-302	95-287015	2/15/1995	PPC-4
163	EPPC-9502-303	95-287014	2/15/1995	PPC-6
179	EPPC-9502-304	95-287013	2/15/1995	PPC-7
73	EPPC-9502-305	95-287017	2/15/1995	PPC-3
74	EPPC-9502-401	95-363004	2/22/1995	PPC-3
110	EPPC-9502-402	95-363003	2/22/1995	PPC-4
163	EPPC-9502-403	95-363002	2/22/1995	PPC-6
179	EPPC-9502-404	95-363001	2/22/1995	PPC-7
74	EPPC-9502-405	95-363005	2/22/1995	PPC-3
73	EPPC-9502-408	9502-408	2/20/1995	PPC-3
74	EPPC-9502-409	9502-409	2/22/1995	PPC-3
74	EPPC-9502-410	9502-410	2/24/1995	PPC-3
74	EPPC-9503-101	95-491002	3/2/1995	PPC-3
110	EPPC-9503-102	95-491003	3/2/1995	PPC-4
163	EPPC-9503-103	95-491004	3/2/1995	PPC-6
180	EPPC-9503-104	95-491005	3/2/1995	PPC-7
110	EPPC-9503-105	95-491006	3/2/1995	PPC-4
74	EPPC-9503-201	95-491008	3/8/1995	PPC-3
110	EPPC-9503-202	95-491009	3/8/1995	PPC-4
163	EPPC-9503-203	95-491010	3/8/1995	PPC-6
180	EPPC-9503-204	95-491011	3/8/1995	PPC-7
180	EPPC-9503-205	95-491012	3/8/1995	PPC-7
75	EPPC-9503-301	95-595002	3/16/1995	PPC-3
110	EPPC-9503-302	95-595003	3/16/1995	PPC-4
163	EPPC-9503-303	95-595004	3/16/1995	PPC-6
180	EPPC-9503-304	95-595005	3/16/1995	PPC-7
180	EPPC-9503-305	95-595006	3/16/1995	PPC-7
75	EPPC-9503-401	95-595008	3/23/1995	PPC-3
111	EPPC-9503-402	95-595009	3/23/1995	PPC-4
164	EPPC-9503-403	95-595010	3/23/1995	PPC-6

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164	EPPC-9503-405	95-595012	3/23/1995	PPC-6
75	EPPC-9503-501	95-595014	3/28/1995	PPC-3
111	EPPC-9503-502	95-595015	3/28/1995	PPC-4
164	EPPC-9503-503	95-595016	3/28/1995	PPC-6
181	EPPC-9503-504	95-595017	3/28/1995	PPC-7
164	EPPC-9503-505	95-595018	3/28/1995	PPC-6
75	EPPC-9504-100	95-733001	4/7/1995	PPC-3
111	EPPC-9504-101	95-733002	4/7/1995	PPC-4
164	EPPC-9504-102	95-733003	4/7/1995	PPC-6
181	EPPC-9504-103	95-733004	4/7/1995	PPC-7
164	EPPC-9504-105	95-733006	4/7/1995	PPC-6
75	EPPC-9504-200	95-733007	4/13/1995	PPC-3
111	EPPC-9504-201	95-733008	4/13/1995	PPC-4
165	EPPC-9504-202	95-733009	4/13/1995	PPC-6
181	EPPC-9504-203	95-733010	4/13/1995	PPC-7
165	EPPC-9504-204	95-733011	4/13/1995	PPC-6
77	EPPC-9504-300	95-862001	4/19/1995	PPC-3
111	EPPC-9504-301	95-862002	4/19/1995	PPC-4
165	EPPC-9504-302	95-862003	4/19/1995	PPC-6
181	EPPC-9504-303	95-862004	4/19/1995	PPC-7
77	EPPC-9504-304	95-862005	4/19/1995	PPC-3
77	EPPC-9504-400	95-862007	4/24/1995	PPC-3
111	EPPC-9504-401	95-862008	4/24/1995	PPC-4
165	EPPC-9504-402	95-862009	4/24/1995	PPC-6
181	EPPC-9504-403	95-862010	4/24/1995	PPC-7
165	EPPC-9504-404	95-862011	4/24/1995	PPC-6
183	EPPC-9505-100	95-964002	5/4/1995	PPC-7
165	EPPC-9505-101	95-964004	5/4/1995	PPC-6
112	EPPC-9505-102	95-964005	5/4/1995	PPC-4
77	EPPC-9505-103	95-964003	5/4/1995	PPC-3
112	EPPC-9505-104	95-964006	5/4/1995	PPC-4
79	EPPC-9505-201	95-964012	5/11/1995	PPC-3
112	EPPC-9505-202	95-964011	5/11/1995	PPC-4
166	EPPC-9505-203	95-964010	5/11/1995	PPC-6
183	EPPC-9505-204	95-964008	5/11/1995	PPC-7
183	EPPC-9505-205	95-964009	5/11/1995	PPC-7
79	EPPC-9505-301	95-1075002	5/19/1995	PPC-3
112	EPPC-9505-302	95-1075003	5/19/1995	PPC-4
166	EPPC-9505-303	95-1075004	5/19/1995	PPC-6
183	EPPC-9505-304	95-1075005	5/19/1995	PPC-7
166	EPPC-9505-305	95-1075006	5/19/1995	PPC-6
79	EPPC-9505-401	95-1075008	5/25/1995	PPC-3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

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166	EPPC-9505-403	95-1075010	5/25/1995	PPC-6
183	EPPC-9505-404	95-1075011	5/25/1995	PPC-7
79	EPPC-9505-405	95-1075012	5/25/1995	PPC-3
79	EPPC-9506-101	95-1198002	6/1/1995	PPC-3
112	EPPC-9506-102	95-1198003	6/1/1995	PPC-4
166	EPPC-9506-103	95-1198004	6/1/1995	PPC-6
183	EPPC-9506-104	95-1198005	6/1/1995	PPC-7
113	EPPC-9506-105	95-1198006	6/1/1995	PPC-4
81	EPPC-9506-201	95-1198008	6/8/1995	PPC-3
113	EPPC-9506-202	95-1198009	6/8/1995	PPC-4
166	EPPC-9506-203	95-1198010	6/8/1995	PPC-6
184	EPPC-9506-204	95-1198011	6/8/1995	PPC-7
184	EPPC-9506-205	95-1198012	6/8/1995	PPC-7
81	EPPC-9506-301	95-1329008	6/14/1995	PPC-3
113	EPPC-9506-302	95-1329009	6/14/1995	PPC-4
167	EPPC-9506-303	95-1329010	6/14/1995	PPC-6
184	EPPC-9506-304	95-1329011	6/14/1995	PPC-7
167	EPPC-9506-305	95-1329012	6/14/1995	PPC-6
81	EPPC-9506-401	95-1329002	6/22/1995	PPC-3
113	EPPC-9506-402	95-1329003	6/22/1995	PPC-4
167	EPPC-9506-403	95-1329004	6/22/1995	PPC-6
184	EPPC-9506-404	95-1329005	6/22/1995	PPC-7
184	EPPC-9506-405	95-1329006	6/22/1995	PPC-7
81	EPPC-9506-406	9506-406	6/19/1995	PPC-3
81	EPPC-9506-407	9506-407	6/21/1995	PPC-3
83	EPPC-9506-408	9506-408	6/23/1995	PPC-3
83	EPPC-9506-501	95-1399002	6/29/1995	PPC-3
113	EPPC-9506-502	95-1399003	6/29/1995	PPC-4
167	EPPC-9506-503	95-1399004	6/29/1995	PPC-6
184	EPPC-9506-504	95-1399005	6/29/1995	PPC-7
167	EPPC-9506-505	95-1399006	6/29/1995	PPC-6
83	EPPC-9510-104	9510-104	10/4/1995	PPC-3
113	EPPC-9510-105	95-2299005	10/4/1995	PPC-4
130	EPPC-9510-106	95-2299006	10/4/1995	PPC-5
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85	EPPC-9510-108	9510-108	10/6/1995	PPC-3
115	EPPC-9510-109	9510-109	10/6/1995	PPC-4
132	EPPC-9510-110	9510-110	10/6/1995	PPC-5
115	EPPC-9511-105	95-2578005	11/15/1995	PPC-4
132	EPPC-9511-106	95-2578006	11/15/1995	PPC-5
115	EPPC-9512-106	95-2775006	12/12/1995	PPC-4
132	EPPC-9512-107	95-2775007	12/12/1995	PPC-5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

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134	EPPC-9601-107	96-152007	1/18/1996	PPC-5
115	EPPC-9601-108	96-152008	1/18/1996	PPC-4
116	EPPC-9602-106	96-322006	2/15/1996	PPC-4
134	EPPC-9602-107	96-322007	2/15/1996	PPC-5
116	EPPC-9603-106	96-548006	3/18/1996	PPC-4
134	EPPC-9603-107	96-548007	3/18/1996	PPC-5
116	EPPC-9604-106	96-751008	4/17/1996	PPC-4
134	EPPC-9604-107	96-751004	4/17/1996	PPC-5
134	EPPC-9604-108	96-751005	4/17/1996	PPC-5
116	EPPC-9605-106	96-957006	5/15/1996	PPC-4
136	EPPC-9605-107	96-957007	5/15/1996	PPC-5
116	EPPC-9606-106	96-1136006	6/12/1996	PPC-4
136	EPPC-9606-107	96-1136007	6/12/1996	PPC-5
116	EPPC-9607-106	96-1375006	7/16/1996	PPC-4
136	EPPC-9607-107	96-1375007	7/16/1996	PPC-5
117	EPPC-9608-105	96-1623006	8/15/1996	PPC-4
136	EPPC-9608-106	96-1623007	8/15/1996	PPC-5
117	EPPC-9609-105	96-1853006	9/12/1996	PPC-4
138	EPPC-9609-106	96-1853007	9/12/1996	PPC-5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LL-ID	LL-ID	LL-ID	LL-ID	LL-ID	LL-ID
Water	SAMPLE DATE	8/26/1994	9/2/1994	9/8/1994	9/16/1994	9/27/1994	10/5/1994
	SAMPLE TIME	13:00	12:45	12:30	13:30	15:15	14:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1536002	94-1585010	94-1608010	94-1683010	94-1778009	94-1820008
	SAMPLE NUMBER	AHCL-9408-424	AHCL-9409-109	AHCL-9409-209	AHCL-9409-309	AHCL-9409-429	AHCL-9410-107
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)(D)					40	53
Magnesium (Mg) (DIS)(D)					7.6	9.6
Potassium (K) (DIS)(D)					13	16
Sodium (Na) (DIS)(D)					111	120
Sulfate (SO4) (D)			212		186	175

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	10 J	9	7.4	7.1	7.3	8.1
Arsenic (As) (TOT)(D)	10 J	9.8	9.4	8.3	11	8.3
Arsenic III (dis)(D)	0.2	0.1	0.03	0.3	0.7	0.2 J
Arsenic V (dis)(D)	12 J	11 J	8.3	7.5 J	6.9	7.9 J
Cadmium (Cd) (DIS)(D)	0.006 J	0.006	0.008	0.008	0.003	0.005 U
Cadmium (Cd) (TOT)(D)	0.3 J	0.2	0.2	0.5	2.3	0.4
Copper (Cu) (DIS)(D)	0.006	<0.004	0.008	<0.004	0.009 U	0.01
Copper (Cu) (TOT)(D)	0.1	0.1	0.3	0.4	1.8	0.5
Iron (Fe) (TOT)(D)					11	2.7
Lead (Pb) (DIS)(D)	0.02	<0.005	0.01	0.01	<0.005	<0.005
Lead (Pb) (TOT)(D)	1.6	1	1.7	2.6	11	3.4
Zinc (Zn) (DIS)(D)	0.01 UJ	0.02	0.01 U	0.01 U	0.02 U	0.01 U
Zinc (Zn) (TOT)(D)	0.5 J	0.4	0.6	1	4.2	1.1

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	8.8	6.7	7.8	7.4	7.8	9.1
Eh (millivolts) (D)	191	194	172	149	67	157
pH (Fld) (D)	10.3	9.5	9.5	9.3	9.7	9.5
SC (umhos/cm at 25 C) (Fld) (D)	878	891	872	810	796	830
Total Suspended Solids (D)	71	53	37	74	194	41
TDS (Measured at 180 C) (D)	618	493	658	561	553	516
Water Temperature (C) (Fld) (D)	20.4	17.9	21.8	17.5	20.6	15

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LL-ID	LL-ID	LL-ID	LL-ID	LL-ID	LL-ID
Water	SAMPLE DATE	10/13/1994	10/21/1994	10/28/1994	11/3/1994	3/29/1995	4/25/1995
	SAMPLE TIME	13:45	12:00	15:00	12:20	10:30	11:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1887010	94-1932027	94-1979009	94-2018010	95-616019	95-826019
	SAMPLE NUMBER	AHCL-9410-209	AHCL-9410-329	AHCL-9410-408	AHCL-9411-109	AHCL-9503-122	AHCL-9504-121
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Calcium (Ca) (DIS)(D)	78	67	58	64	250	196	
Magnesium (Mg) (DIS)(D)	11	9.2	9	7.7	7.6	6.5	
Potassium (K) (DIS)(D)	16	16	14	17	36	28.4	
Sodium (Na) (DIS)(D)	111	100	100	92	216	190	
Sulfate (SO4) (D)	228	226	185	173	768	799	
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)(D)	7.2	6.4	6.2	5.6	1.5	1.3	
Arsenic (As) (TOT)(D)	14 A	6.6	7.3	6.1	5.3	1.5	
Arsenic III (dis)(D)	0.8	0.04	0.008 J	<0.3 J	0.4	<0.004	
Arsenic V (dis)(D)	6.8	6.9	7 J	5.9	1.1	1.09	
Cadmium (Cd) (DIS)(D)	0.06	0.02	0.03	0.03	0.008	0.05	
Cadmium (Cd) (TOT)(D)	4.5 A	0.2	0.6	0.1	2	0.09	
Copper (Cu) (DIS)(D)	0.01	0.01	0.01	0.02	0.01	0.01	
Copper (Cu) (TOT)(D)	3.9 A	0.3	0.3	0.08	1.5	0.03	
Iron (Fe) (TOT)(D)	15 A	1.6 J	3.6	1.1		0.8	
Lead (Pb) (DIS)(D)	0.005	<0.005	0.006	0.02	0.01	<0.005	
Lead (Pb) (TOT)(D)	22 A	2.2	2	0.5	9.9	0.09	
Zinc (Zn) (DIS)(D)	0.01	0.02 U	0.02 U	0.02	0.09	0.07	
Zinc (Zn) (TOT)(D)	8 A	0.7	0.8	0.2	4	0.2	
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld) (D)	7.4	7.8	8.1	10.6	12.02	12	
Eh (millivolts) (D)	113	112	159	189	181	-38	
pH (Fld) (D)	7.8	9	8.1	8.3	8.02	8.7	
SC (umhos/cm at 25 C) (Fld) (D)	1013	915	922	1057	1578 J	2254	
Total Suspended Solids (D)	209	34	40	19	176	12	
TDS (Measured at 180 C) (D)	631	627	594	638	1594	1600	
Water Temperature (C) (Fld) (D)	11.4	4.9	5.7	4.5	3.6	8	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LL-ID	LL-ID	LL-ID	LL-ID	LL-ID	LL-ID
Water	SAMPLE DATE	5/24/1995	6/19/1995	7/18/1995	8/16/1995	9/15/1995	10/24/1995
	SAMPLE TIME	10:15	11:25	10:00	13:15	16:30	09:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-1057027	95-1280005	95-1523017	95-1778017	95-2070002	95-2401020
	SAMPLE NUMBER	AHCL-9505-127	AHCL-9506-116	AHCL-9507-116	AHCL-9508-116	AHCL-9509-116	AHCL-9510-116
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)(D)	184	200
Magnesium (Mg) (DIS)(D)	11.6	13
Potassium (K) (DIS)(D)	31.8	36
Sodium (Na) (DIS)(D)	194	195
Sulfate (SO4) (D)	741	202

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.8	1.3	2.8	4.4	7	2.2
Arsenic (As) (TOT)(D)	1.1	1.2 J	2.9	4.6	7.1	3.1
Arsenic III (dis)(D)	0.03	<0.004				
Arsenic V (dis)(D)	0.9	1.5				
Cadmium (Cd) (DIS)(D)	0.04	0.06	0.05	0.01	0.004	0.03
Cadmium (Cd) (TOT)(D)	0.09	0.06	0.07	0.04	0.1	0.1
Copper (Cu) (DIS)(D)	0.007	0.01	<0.008	0.004	0.01	0.008
Copper (Cu) (TOT)(D)	0.06	0.01	0.05	0.03	0.1	0.06
Iron (Fe) (DIS)(D)	<0.02					
Iron (Fe) (TOT)(D)	1.2 J	0.2				
Lead (Pb) (DIS)(D)	<0.005	<0.005	0.01	0.007	0.008	0.02
Lead (Pb) (TOT)(D)	0.3	0.03	0.2	0.3	0.8	0.4
Zinc (Zn) (DIS)(D)	0.05	0.1	0.09	0.02	<0.02	0.08
Zinc (Zn) (TOT)(D)	0.2	0.1	0.2	0.1	0.4	0.2

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	10.3	7.6	6.7	9.5	12.1	9.9
Eh (millivolts) (D)	47	175	16	-33	-96	221
pH (Fld) (D)	7.4	7.2	7.04	8.5	9.3	7.3
SC (umhos/cm at 25 C) (Fld) (D)	2080	2330	2190	2050	1960	1646
Total Suspended Solids (D)	5.3 J	<1	21	25 J	23	34
TDS (Measured at 180 C) (D)	1490	1486	1485	1564	1473	1473
Water Temperature (C) (Fld) (D)	14.7	20.4	21.6	19	18.9	8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LL-ID	LL-ID	LL-ID	LL-ID	LL-ID
Water	SAMPLE DATE	11/7/1995	5/9/1996	6/27/1996	9/18/1996	11/7/1996
	SAMPLE TIME	13:25	11:50	10:30	11:30	13:00
	LAB		TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	AHCL-9511-117	96-911001	96-1243026	96-1924008	96-2338006
	SAMPLE NUMBER	AHCL-9511-117	EHC-9605-301	EHC-9606-116	EHC-9609-116	EHC-9611-301
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.4	2.4	1.3	0.9
Arsenic (As) (TOT)(D)	0.6	2.4	1.5	1.1
Cadmium (Cd) (DIS)(D)	0.1	0.01	0.01	0.02
Cadmium (Cd) (TOT)(D)	0.1	0.05	0.02	0.03
Copper (Cu) (DIS)(D)	0.02	<0.008	0.009	0.02
Copper (Cu) (TOT)(D)	0.03	0.02	0.03	0.04
Lead (Pb) (DIS)(D)	0.005	0.02	0.007	<0.005
Lead (Pb) (TOT)(D)	0.1	0.1	0.08	0.1
Zinc (Zn) (DIS)(D)	0.2	0.08	0.03 U	0.04 U
Zinc (Zn) (TOT)(D)	0.2	0.2	0.08 U	0.07

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)		10.7	7.4	8.05	11
Depth To Water Level (ft) (D)	0.0				
Eh (millivolts) (D)		381	377	279	410
pH (Fld) (D)		8	8.01	7.4	6.7
SC (umhos/cm at 25 C) (Fld) (D)		2860	2720	2710	2730
Total Suspended Solids (D)		23	6.1	16.3	21
TDS (Measured at 180 C) (D)		2195	2218	2263	2408
Water Temperature (C) (Fld) (D)		8.9	19.6	17.3	3.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LL-1S	LL-1S	LL-1S	LL-1S	LL-1S	LL-1S
Water	SAMPLE DATE	3/28/1994	4/11/1994	5/6/1994	5/17/1994	5/19/1994	5/24/1994
	SAMPLE TIME	16:00	15:15	10:40	07:30	08:00	08:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-502010	94-591009	94-747006	94-798006	94-816006	94-831006
	SAMPLE NUMBER	AHCL-9403-116	AHCL-9404-158	AHCL-9405-205	AHCL-9405-220	AHCL-9405-234	AHCL-9405-245
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION REMARKS						

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	13.7	13.5	14.4	13.4	15.6	14.7
Arsenic (As) (TOT)(D)	15.1	15	15.6	17.3	15.5	15
Cadmium (Cd) (DIS)(D)	0.004	0.005 U	0.01	0.008 U	0.01	0.04
Cadmium (Cd) (TOT)(D)	0.04	0.03	0.1	0.04	0.05	0.1
Copper (Cu) (DIS)(D)	0.02	0.02	0.02	0.02 U	0.02	0.02
Copper (Cu) (TOT)(D)	0.05	0.03	0.05	0.03	0.03	0.03
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	<0.005	0.04	0.2 J	0.05	0.1	0.1
Zinc (Zn) (DIS)(D)	<0.02	0.008 U	0.009	0.01 U	0.02	0.03 U
Zinc (Zn) (TOT)(D)	0.06	0.04 U	0.1	0.04 U	0.08	0.2

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)			9.6			
pH (Fld) (D)	9.4	9.8	9.3	9.4	9.09	9.3
SC (umhos/cm at 25 C) (Fld) (D)	1190	1049	927	1110	1145	1059
Total Suspended Solids (D)	15.9	16	14	18	14	13
TDS (Measured at 180 C) (D)	827	789	793	796	757	825
Water Temperature (C) (Fld) (D)	8.1	15.5	15.7	12.9	11.2	14.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LL-1S	LL-1S	LL-1S	LL-1S	LL-1S	LL-1S
Water	SAMPLE DATE	5/26/1994	5/31/1994	6/2/1994	6/6/1994	6/13/1994	7/12/1994
	SAMPLE TIME	08:40	08:45	08:15	08:30	08:30	08:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-851006	94-873006	94-893006	94-917006	94-959006	94-1209006
	SAMPLE NUMBER	AHCL-9405-260	AHCL-9405-105	AHCL-9406-105	AHCL-9406-205	AHCL-9406-305	AHCL-9407-105
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	15	13.4	15	14.9	14.5	14.8
Arsenic (As) (TOT)(D)	15	13.4	15	14.9	14.5	16.3
Cadmium (Cd) (DIS)(D)	0.02	0.005 U	0.007	0.004	0.005	0.001
Cadmium (Cd) (TOT)(D)	0.09	0.04	0.03	0.02	0.02	0.02
Copper (Cu) (DIS)(D)	0.02 U	0.02	0.01	0.009	0.009	0.005
Copper (Cu) (TOT)(D)	0.03 U	0.02	0.02	0.02	0.01	0.02
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.1	0.05	0.07	0.06	0.04	0.1
Zinc (Zn) (DIS)(D)	0.01	0.02	0.01	0.01 U	0.01	0.01 U
Zinc (Zn) (TOT)(D)	0.1	0.05 U	0.04	0.03 U	0.03	0.06

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)		9.1				
pH (Fld) (D)	9.1	9.6	9.2	9.7	9.3	9.7
SC (umhos/cm at 25 C) (Fld) (D)	1160	1120	1073	1135	1098	1077
Total Suspended Solids (D)	18	19	14	17	2.8	7.9
TDS (Measured at 180 C) (D)	811	770	785	777	768	720
Water Temperature (C) (Fld) (D)	17.4	15	13.9	17.9	18.3	17.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LL-1S	LL-1S	LL-1S	LL-1S	LL-1S	LL-1S
Water	SAMPLE DATE	8/10/1994	8/19/1994	8/26/1994	9/2/1994	9/8/1994	9/16/1994
	SAMPLE TIME	11:15	08:30	12:30	12:30	12:15	12:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1418006	94-1504020	94-1536003	94-1585003	94-1608003	94-1683003
	SAMPLE NUMBER	AHCL-9408-105	AHCL-9408-317	AHCL-9408-417	AHCL-9409-102	AHCL-9409-202	AHCL-9409-302
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Sulfate (SO4) (D)					207	196
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)(D)	13.8	12	9.9 J	8.2	7.6	7
	Arsenic (As) (TOT)(D)	14.2	12	10 J	9.6	9.6	7.7
	Arsenic III (dis)(D)			0.02	0.007	0.01	0.01
	Arsenic V (dis)(D)			12 J	11 J	8.7	7.5 J
	Cadmium (Cd) (DIS)(D)	0.002	0.004 U	0.002 J	0.006	0.006	0.001 U
	Cadmium (Cd) (TOT)(D)	0.02	0.03	0.05 J	0.04	0.02	0.05
	Copper (Cu) (DIS)(D)	0.008	0.007	0.006	0.007	0.008	0.006
	Copper (Cu) (TOT)(D)	0.02	0.02	0.03	0.02	0.02	0.04
	Lead (Pb) (DIS)(D)	<0.005	0.006	0.01	<0.005	<0.005	<0.005
	Lead (Pb) (TOT)(D)	0.1 J	0.1	0.2	0.2	0.2	0.3
	Zinc (Zn) (DIS)(D)	0.01	0.008 U	0.02 UJ	0.02 U	0.02 U	0.02 U
	Zinc (Zn) (TOT)(D)	0.04	0.07	0.1 J	0.08 U	0.08	0.1 U
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld) (D)	7.2	6.9	10	6.9	7.8	7.8
	Eh (millivolts) (D)			195	200	177	158
	pH (Fld) (D)	9.9	9.9	10.3	9.6	9.5	9.3
	SC (umhos/cm at 25 C) (Fld) (D)	999	1044	884	882	885	797
	Total Suspended Solids (D)	25	8.8 J	39	105	31	9.3
	TDS (Measured at 180 C) (D)	709	305 J	620	644	656	535
	Water Temperature (C) (Fld) (D)	23.2	17.9	21.1	18.9	21.8	19.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LL-1S	LL-1S	LL-1S	LL-1S	LL-1S	LL-1S
Water	SAMPLE DATE	9/27/1994	10/5/1994	10/13/1994	10/21/1994	10/28/1994	11/3/1994
	SAMPLE TIME	15:00	14:15	13:30	11:00	14:00	12:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1778008	94-1820003	94-1887003	94-1932026	94-1979004	94-2018004
	SAMPLE NUMBER	AHCL-9409-417	AHCL-9410-102	AHCL-9410-202	AHCL-9410-316	AHCL-9410-403	AHCL-9411-103
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Calcium (Ca) (DIS)(D)		41	51	56	66	61	63
Magnesium (Mg) (DIS)(D)		7.9	9.2	8.3	9.1	8.8	7.7
Potassium (K) (DIS)(D)		13	16	14	16	14	17
Sodium (Na) (DIS)(D)		113	115	105	100	100	92
Sulfate (SO4) (D)		178	173	203	269	184	175
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)(D)		6.7	7.4	7	5.8	6.1	5.5
Arsenic (As) (TOT)(D)		7.5	7.7	7.2	6.5	6.6	5.9
Arsenic III (dis)(D)		0.03	<0.005 J	<0.005	<0.005	<0.3 J	<0.005
Arsenic V (dis)(D)		7.5	7.6 J	9.1	6.9	6.8 J	6.2
Cadmium (Cd) (DIS)(D)		0.003	<0.001	<0.001	0.02	0.03	0.03
Cadmium (Cd) (TOT)(D)		0.06	0.02	0.05	0.06	0.09	0.09
Copper (Cu) (DIS)(D)		0.007 U	0.008	0.01	0.01	0.01	0.007
Copper (Cu) (TOT)(D)		0.05	0.02 U	0.02	0.03	0.04	0.05
Iron (Fe) (TOT)(D)		0.7	0.5 UJ	0.5	0.6 J	0.7	0.8
Lead (Pb) (DIS)(D)		<0.005	<0.005	<0.005	<0.005	0.006	0.02
Lead (Pb) (TOT)(D)		0.3	0.1	0.2	0.2	0.3	0.3
Zinc (Zn) (DIS)(D)		<0.008	<0.008	0.01	0.02 U	0.02 U	0.02
Zinc (Zn) (TOT)(D)		0.1	0.05 U	0.1	0.1	0.2	0.2
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld) (D)		9	8.1	8.2	8.1	8.7	10.6
Eh (millivolts) (D)		53	127	104	98	127	194
pH (Fld) (D)		9.6	9.6	8.2	9.1	7.5	8.3
SC (umhos/cm at 25 C) (Fld) (D)		798	793	915	905	881	1038
Total Suspended Solids (D)		42	9.6	23	22	11	
TDS (Measured at 180 C) (D)		579	535	554	616	580	643
Water Temperature (C) (Fld) (D)		21	13.9	10.8	5.9	6.1	4.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LL-1S	LL-1S	LL-1S	LL-1S	LL-1S	LL-1S
Water	SAMPLE DATE	11/3/1994	3/29/1995	4/25/1995	4/25/1995	5/24/1995	6/19/1995
	SAMPLE TIME	13:00	10:15	10:45	11:00	10:00	11:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-2018009	95-616013	95-826009	95-826018	95-1057026	95-1280006
	SAMPLE NUMBER	AHCL-9411-108	AHCL-9503-116	AHCL-9504-111	AHCL-9504-120	AHCL-9505-118	AHCL-9506-117
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)(D)	64	252	209	202	190	203
Magnesium (Mg) (DIS)(D)	7.8	7.6	6.9	6.7	11.9	13
Potassium (K) (DIS)(D)	17	37	31	29.6	32.7	35
Sodium (Na) (DIS)(D)	92	214	205	198	199	189
Sulfate (SO4) (D)	172	760	794	794	746	709

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	5.7	1.3	1.3 J	1 J	0.7	1.3
Arsenic (As) (TOT)(D)	6	1.8	1.6	1.5	1.09	1.1 J
Arsenic III (dis)(D)	0.006	<0.004	0.3 JA	<0.004	0.6 A	<0.004
Arsenic V (dis)(D)	6	1.3	1	1.2	0.8	1.4
Cadmium (Cd) (DIS)(D)	0.03	0.06	0.05	0.05	0.03	0.06
Cadmium (Cd) (TOT)(D)	0.09	0.08	0.1	0.1	0.06	0.06
Copper (Cu) (DIS)(D)	0.009	0.02	0.01	0.01	0.008	0.01
Copper (Cu) (TOT)(D)	0.05	0.02	0.03	0.03	0.02	0.02
Iron (Fe) (DIS)(D)					<0.02	
Iron (Fe) (TOT)(D)	0.9		0.9	0.9	1.07 J	0.2
Lead (Pb) (DIS)(D)	0.01	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.3	0.06	0.09	0.09	0.1	0.03
Zinc (Zn) (DIS)(D)	0.02	0.1	0.07	0.07	0.04	0.1
Zinc (Zn) (TOT)(D)	0.2	0.2	0.2	0.2	0.1	0.1

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	10.6	12.8	12.09	12.05	10.4	7.3
Eh (millivolts) (D)	194	188	-37	-37	143	168
pH (Fld) (D)	8.3	7.9	8.7	8.7	7.2	7.3
SC (umhos/cm at 25 C) (Fld) (D)	1038	1580 J	2254	2254	2250	2150
Total Suspended Solids (D)	8.4	6.2	14	16	2.7 J	<1
TDS (Measured at 180 C) (D)	637	1574	1620	1608	1540	1515
Water Temperature (C) (Fld) (D)	4.5	2.9	7.8	7.9	15.2	18.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LL-1S	LL-1S	LL-1S	LL-1S	LL-1S	LL-1S
Water	SAMPLE DATE	7/18/1995	8/16/1995	9/15/1995	10/24/1995	11/7/1995	5/9/1996
	SAMPLE TIME	09:45	13:00	16:00	09:00	13:20	11:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC		TSC-SLC
	LAB NUMBER	95-1523018	95-1778019	95-2070001	95-2401021	AHCL-9511-118	96-911002
	SAMPLE NUMBER	AHCL-9507-117	AHCL-9508-117	AHCL-9509-117	AHCL-9510-117	AHCL-9511-118	EHC-9605-302
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	2.4	4.5	6.9	2.1	0.4
Arsenic (As) (TOT)(D)	2.8	4.7	6.9	3.2	0.6
Cadmium (Cd) (DIS)(D)	0.05	0.01	0.001	0.03	0.1
Cadmium (Cd) (TOT)(D)	0.06	0.04	0.02	0.1	0.1
Copper (Cu) (DIS)(D)	<0.008	0.006	0.01	0.006	0.02
Copper (Cu) (TOT)(D)	0.04	0.03	0.02	0.06	0.03
Lead (Pb) (DIS)(D)	0.007	<0.005	<0.005	0.008	<0.005
Lead (Pb) (TOT)(D)	0.2	0.3	0.1	0.4	0.1
Zinc (Zn) (DIS)(D)	0.08	<0.02	<0.02	0.07	0.2
Zinc (Zn) (TOT)(D)	0.1	0.1	0.06	0.2	0.2

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	7.5	11.6	12.5	10.3	11.04
Depth To Water Level (ft) (D)					0.0
Eh (millivolts) (D)	-25	-26	-78	224	327
pH (Fld) (D)	7.06	8.2	9.5	7.2	8.2
SC (umhos/cm at 25 C) (Fld) (D)	2220	2080	1940	1654	2790
Total Suspended Solids (D)	7.8	21 J	17.8	29	23
TDS (Measured at 180 C) (D)	1415	1612	1497	1478	2175
Water Temperature (C) (Fld) (D)	22.7	20.3	19.8	7.7	8.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LL-1S	LL-1S	LOWER LAKE	LOWER LAKE	LOWER LAKE
Water	SAMPLE DATE	6/27/1996	9/18/1996	11/7/1984	11/7/1984	4/4/1985
	SAMPLE TIME	10:00	11:45	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	CAL	TSC-SLC
	LAB NUMBER	96-1243025	96-1924007	84-11001	S5454	85-2345
	SAMPLE NUMBER	EHC-9606-117	EHC-9609-117	AEH-8411-37	AEH-8411-37-S	AEH-8504-310
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS				Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	234	249	105
Calcium (Ca) (DIS)(D)	101	65.5	74
Chloride (Cl) (D)	60	160	109
Magnesium (Mg) (DIS)(D)	15	11.1	14
Potassium (K) (DIS)(D)	53	30.1	23
Sodium (Na) (DIS)(D)	320	260	88
Sulfate (SO4) (D)	588	740	384
Total Alkalinity As CaCO3 (D)	192	204	86

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)			<0.2
Aluminum (Al) (TOT)(D)			0.2
Antimony (Sb) (DIS)(D)			0.7
Antimony (Sb) (TOT)(D)			0.3
Arsenic (As) (DIS)(D)	2.2	1.3	24.2
Arsenic (As) (TOT)(D)	2.2	1.5	26.7
Barium (Ba) (DIS)(D)			0.03
Barium (Ba) (TOT)(D)			0.04
Beryllium (Be) (DIS)(D)			<0.0006
Beryllium (Be) (TOT)(D)			<0.0006
Cadmium (Cd) (DIS)(D)	0.03	0.01	0.5
Cadmium (Cd) (TOT)(D)	0.05	0.02	0.8
Chromium (Cr) (DIS)(D)			<0.002
Chromium (Cr) (TOT)(D)			<0.002
Cobalt (Co) (DIS)(D)			0.08
Cobalt (Co) (TOT)(D)			0.1
Copper (Cu) (DIS)(D)	<0.008	0.008	0.1
Copper (Cu) (TOT)(D)	0.02	0.03	0.3
Iron (Fe) (DIS)(D)			0.1
Iron (Fe) (TOT)(D)			1.3
Lead (Pb) (DIS)(D)	0.02	0.006	<0.003
Lead (Pb) (TOT)(D)	0.1	0.07	<0.003
Manganese (Mn) (DIS)(D)			1.4
Manganese (Mn) (TOT)(D)			1.6
Mercury (Hg) (DIS)(D)			0.0003
Mercury (Hg) (TOT)(D)			0.004
Nickel (Ni) (DIS)(D)			0.05
Nickel (Ni) (TOT)(D)			0.06
Selenium (Se) (DIS)(D)			0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LL-1S	LL-1S	LOWER LAKE	LOWER LAKE	LOWER LAKE
Water	SAMPLE DATE	6/27/1996	9/18/1996	11/7/1984	11/7/1984	4/4/1985
	SAMPLE TIME	10:00	11:45	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	CAL	TSC-SLC
	LAB NUMBER	96-1243025	96-1924007	84-11001	S5454	85-2345
	SAMPLE NUMBER	EHC-9606-117	EHC-9609-117	AEH-8411-37	AEH-8411-37-S	AEH-8504-310
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS				Split	

**Metals (mg/L): ppm unless noted**

Selenium (Se) (TOT)(D)					0.009	
Silver (Ag) (DIS)(D)					<0.003	
Silver (Ag) (TOT)(D)					<0.003	
Thallium (Tl) (DIS)(D)					0.2	
Thallium (Tl) (TOT)(D)					0.2	
Tin (Sn) (DIS)(D)					<0.04	
Tin (Sn) (TOT)(D)					<0.04	
Vanadium (V) (DIS)(D)					<0.004	
Vanadium (V) (TOT)(D)					<0.004	
Zinc (Zn) (DIS)(D)	0.09	0.03 U		0.3	0.4	2.4
Zinc (Zn) (TOT)(D)	0.2	0.07 U		1.6	1.3	5.6

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	7.4	8.4				
pH (D)				8.1	8.1	6.7
Eh (millivolts) (D)	388	267				
pH (Fld) (D)	8	8.07				
SC (umhos/cm at 25 C) (Fld) (D)	2900	2710		2102		1371
SC (umhos/cm at 25 C) (D)				1190	1230	1390
Total Suspended Solids (D)	5.3	<1			28	24.5
TDS (Measured at 180 C) (D)	2247	2179		1455	1500	959
Water Temperature (C) (Fld) (D)	21.2	14.3				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE
Water	SAMPLE DATE	6/6/1985	8/6/1985	12/8/1986	12/8/1986	5/8/1987	7/2/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	CHMTC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	85-4091	85-6035	8612-12	86-8133	87-3125	87-5178
	SAMPLE NUMBER	AEH-8506-529	AEH-8508-737	AEH-8612-12	AEH-8612-12	AEH-8705-122	AEH-8707-107
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Split			
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO <sub>3</sub> ) (D)	110	188	97.7	105	98 M	149
	Calcium (Ca) (DIS)(D)	87	88	100	102		104
	Carbonate As CO <sub>3</sub> (D)				<1		<1
	Chloride (Cl) (D)	86	108	137	100		81
	Magnesium (Mg) (DIS)(D)	14.8	15.2	15.2	14		13.5
	Potassium (K) (DIS)(D)	33	36		43		50
	Sodium (Na) (DIS)(D)	196	225	183	215 M		235
	Sulfate (SO <sub>4</sub> ) (D)	412	441	565	537	640	600
	Total Alkalinity As CaCO <sub>3</sub> (D)	89.8	154				
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)(D)	8.3	12.1	18.3	20	14.5	
	Arsenic (As) (TOT)(D)	10.5	13	20.5	20	16.9	22
	Cadmium (Cd) (DIS)(D)	0.4	0.02	0.6	0.8	0.2	
	Cadmium (Cd) (TOT)(D)	1.5	0.2	0.9	1.03	0.9	2.05
	Copper (Cu) (DIS)(D)	0.05	0.02	0.04	0.03		
	Copper (Cu) (TOT)(D)	0.3	0.1	0.2	0.2		12
	Iron (Fe) (DIS)(D)	0.03	0.04	0.2	0.08	0.03	
	Iron (Fe) (TOT)(D)	0.5	0.8	0.6	0.5	1.3	7.1
	Lead (Pb) (DIS)(D)	0.2	<0.005	0.02	0.02	<0.005	
	Lead (Pb) (TOT)(D)	2.3	1.09	1.3	1.4	2.6	24.7
	Manganese (Mn) (DIS)(D)	1.4	0.5	1.7	1.8		
	Manganese (Mn) (TOT)(D)	1.9	1.1	1.7	1.9		3.5
	Zinc (Zn) (DIS)(D)	0.6	0.07	1.8	1.5 M	0.3	
	Zinc (Zn) (TOT)(D)	3.1	0.8	2.09	2	2.6	11
<b>Physical/Fid-Lab: ppm unless noted</b>							
	pH (D)	7.6	8.6		7.4	8.7	8.9
	pH (Fld) (D)			6.8	6.8	6.9	
	SC (umhos/cm at 25 C) (Fld) (D)	1377	1496	1639	1639	1584	
	SC (umhos/cm at 25 C) (D)	1480	1560		1490	1480	1900
	Total Suspended Solids (D)	9.8	12.6				182
	TDS (Measured at 180 C) (D)	1040	1098		1174	1193	1183
	Water Temperature (C) (Fld) (D)			5.1	5.1	21.5	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE
Water	SAMPLE DATE	4/27/1989	10/26/1989	5/3/1990	12/5/1990	5/1/1991	11/6/1991
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-562	89-858	90-1072	90-2278	91-2658	91-3597
	SAMPLE NUMBER	AEH-8904-294	AEH-8910-470	AEH-9005-511	AEH-9011-765	AEH-9105-106	AEH-9111-306
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

  

Common Ions (mg/L): ppm unless noted							
Chloride (Cl) (D)	101	115	144	281 J	235	149	
Sulfate (SO4) (D)	595	675	735	734 J	690	628	

  

Metals (mg/L): ppm unless noted							
Arsenic (As) (DIS)(D)	16	19.06 J	18.8	11.7	13	18.7	
Arsenic (As) (TOT)(D)	16	23		13.3	17.3	19.8	
Arsenic III (dis)(D)			0.06 U	10.8			
Arsenic V (dis)(D)			18.7	0.1			
Cadmium (Cd) (DIS)(D)	0.06 J	0.2	0.1	0.1	0.1	0.09	
Cadmium (Cd) (TOT)(D)	0.3 J	0.4		0.2	1.4	0.2	
Copper (Cu) (DIS)(D)	0.02	0.02	0.01	0.02	0.03	0.04	
Copper (Cu) (TOT)(D)	0.1	0.3		0.06	0.09	0.2	
Lead (Pb) (DIS)(D)	<0.02	0.05	<0.01 UJ	0.02	0.006	0.07	
Lead (Pb) (TOT)(D)	0.7	3.7		0.2	0.6	0.8	
Zinc (Zn) (DIS)(D)	0.09	0.3 J	0.2		0.09	0.2	
Zinc (Zn) (TOT)(D)	0.6	1.1 J			2.05	0.5	

  

Physical/Fld-Lab: ppm unless noted							
Oxygen (O) (DIS) (Fld) (D)				9.1			
pH (D)	7.3 J	8.6	7.9	7.4	8.1	7.1	
Flow (D)						0.0	
pH (Fld) (D)	6.9		8.5	7.6	9.2	7.4	
SC (umhos/cm at 25 C) (Fld) (D)	1496	2021	1998	2284	2290	1867	
SC (umhos/cm at 25 C) (D)	1500	2020	2050	2400	2300	1890	
TDS (Measured at 180 C) (D)	1203 J	1490	1542	1665 J	1689 J	1402 J	
Water Temperature (C) (Fld) (D)	8.4	13.4	13.7	2.3	10.3	25	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE
Water	SAMPLE DATE	4/29/1992	11/21/1992	5/6/1993	11/10/1993	5/6/1994	11/17/1994
	SAMPLE TIME	16:00	17:00	20:30	16:30	10:45	10:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	92-4346	92-6831	93-7840	93-9216	94-1320	94-3394
	SAMPLE NUMBER	AEH-9204-164	EHC-9211-158	EHC-9305-167	EHC-9311-147	EHC-9405-151	EHC-9411-153
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

  

Common Ions (mg/L): ppm unless noted							
Calcium (Ca) (DIS)(D)	128 J	102 J	87				
Chloride (Cl) (D)	107 J	105 J	276	181 J	96	127	
Magnesium (Mg) (DIS)(D)	31	22	19				
Potassium (K) (DIS)(D)	55 J	35	36				
Sodium (Na) (DIS)(D)	231	193	542 J				
Sulfate (SO4) (D)	604	415 J	699	591 J	315 J	321	
Total Hardness As CaCO3 (D)			295				

  

Metals (mg/L): ppm unless noted							
Arsenic (As) (DIS)(D)	18.4	46	87	35	16.9	4.9	
Arsenic (As) (TOT)(D)	18.8	52.5	102	36.5 J	15.1		
Arsenic III (dis)(D)	2.5					0.07	
Arsenic V (dis)(D)	13.6					4.6 J	
Cadmium (Cd) (DIS)(D)	0.01	0.3	3.7	0.02	0.01	0.04	
Cadmium (Cd) (TOT)(D)	0.2	0.8	6.2	0.1	0.09		
Copper (Cu) (DIS)(D)	0.02	0.03	0.03	0.02	0.02	0.02	
Copper (Cu) (TOT)(D)	0.06	0.08	0.1	0.06	0.05		
Lead (Pb) (DIS)(D)	<0.005	0.02 J	0.01	0.01	<0.005	0.03	
Lead (Pb) (TOT)(D)	0.1	0.3	0.3 J	0.3	0.2 J		
Zinc (Zn) (DIS)(D)	0.02 U	0.07	1.2	0.01	0.01 U	0.1	
Zinc (Zn) (TOT)(D)	0.4	0.3 J	2	0.1	0.1		

  

Physical/Fld-Lab: ppm unless noted							
Oxygen (O) (DIS) (Fld) (D)							10.3
pH (D)	8.5	7.3					7.3
pH (Fld) (D)	9.5	7.8	7.1	9.2	9.3	7.6	
SC (umhos/cm at 25 C) (Fld) (D)	1800	1423	2825	1897	1211	1250	
SC (umhos/cm at 25 C) (D)	1820	1500	2830 J	2010 J	1100	1265	
TDS (Measured at 180 C) (D)	1237	1060	1852	1361	802	828 J	
Water Temperature (C) (Fld) (D)	16.1	2.2	11.8	2.4	15.7	1.8	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE
Water	SAMPLE DATE	5/17/1995	11/7/1995	5/9/1996	11/7/1996	11/12/1996	5/5/1997
	SAMPLE TIME	13:50	16:30	12:30	13:30	15:00	16:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-4521	95-5808	96-6791	96-2338003	96-7790	97-959
	SAMPLE NUMBER	EHC-9505-152	EHC-9511-154	EHC-9605-138	EHC-9611-302	EHC-9611-138	EHC-9705-217
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl) (D)	221	194	372		314	353
	Sulfate (SO4) (D)	787	758	1211		1227 J	1352
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)(D)	0.7	1.9	0.4	0.9	0.7	0.4
	Arsenic (As) (TOT)(D)	1.3	2.5	0.6	1.1	1	0.4
	Arsenic III (dis)(D)						<0.005
	Arsenic V (dis)(D)						0.1
	Cadmium (Cd) (DIS)(D)	0.03	0.07	0.1	0.02	0.03	0.04
	Cadmium (Cd) (TOT)(D)	0.05	0.2	0.1	0.03	0.05	0.04
	Copper (Cu) (DIS)(D)	0.01	0.008	0.02	0.02	0.03	0.03
	Copper (Cu) (TOT)(D)	0.04	0.1	0.05 J	0.04	0.1	0.05
	Lead (Pb) (DIS)(D)	<0.005	0.01	0.01	<0.005	<0.005	0.007
	Lead (Pb) (TOT)(D)	0.2	0.6 J	0.1	0.1	0.3	0.1
	Zinc (Zn) (DIS)(D)	0.06 J	0.08	0.2	0.04 U	0.05	0.1
	Zinc (Zn) (TOT)(D)	0.2	0.5	0.2	0.08	0.2	0.2
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld) (D)	12.6		11.3	10.7	9.8	9.7
	pH (D)	4.4	6.7	8.1		6.2	7.7
	Eh (millivolts) (D)				407		108
	pH (Fld) (D)	8.4	6.8	8.2	6.6	8.09	7.5
	SC (umhos/cm at 25 C) (Fld) (D)	2140	1886	2800	2780	3160	3670
	SC (umhos/cm at 25 C) (D)	2160 J	2050	3000		3320	3600
	Total Suspended Solids (D)				19		12
	TDS (Measured at 180 C) (D)	1514 J	1397	2142	2423	2476	2716
	Water Temperature (C) (Fld) (D)	16.6	2	9.8	3	2.4	14.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE
Water	SAMPLE DATE	11/4/1997	5/14/1998	11/18/1998	5/12/1999	11/18/1999	5/10/2000
	SAMPLE TIME	12:40	13:30	15:35	13:35	13:30	12:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	188-2693	264-3821	311-4421	349-4930	L992056003	L000707001
	SAMPLE NUMBER	EHC-9711-138	EHC-9805-215	EHC-9811-215	EHC-9905-215	EHC-9911-154	EHC-0005-152
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3) (D)		81	10	54 J	83	78
	Calcium (Ca) (DIS)(D)		347	544	531	334	228
	Carbonate As CO3 (D)				<1 UJ	<1	<1
	Chloride (Cl) (D)	427	250	221	212	292	349
	Magnesium (Mg) (DIS)(D)		8	6.6	7.9	7.9	9.4
	Potassium (K) (DIS)(D)		60	71	86	88	77
	Sodium (Na) (DIS)(D)		279	314	672	1200	1241
	Sulfate (SO4) (D)	1591	1140	2009	2688	3032	3459
	Total Alkalinity As CaCO3 (D)		66	8	44 J	68	64
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)(D)	0.2	0.05 U	0.1 J	0.07	0.2	0.2
	Arsenic (As) (TOT)(D)	0.3	0.1	0.3	0.1	0.2	0.2
	Arsenic III (dis)(D)	<0.005	<0.005	0.02	0.01	0.007	0.02 U
	Arsenic V (dis)(D)	0.2 J	0.05	0.1	0.07	0.3	0.2
	Cadmium (Cd) (DIS)(D)	0.02	0.01	0.02	0.03	0.03	0.04
	Cadmium (Cd) (TOT)(D)	0.02	0.02	0.02	0.03	0.03	0.04
	Copper (Cu) (DIS)(D)	0.03	0.02	0.02	0.02	0.02	0.05
	Copper (Cu) (TOT)(D)	0.03	0.05	0.03	0.03	0.05	0.07
	Iron (Fe) (DIS)(D)		0.1 UJ	0.09	0.1 UJ	<0.02	0.05 J
	Iron (Fe) (TOT)(D)		1.005	0.3	0.6 J	0.2	0.4 U
	Lead (Pb) (DIS)(D)	<0.005	0.007	0.006	<0.005	0.03	0.03
	Lead (Pb) (TOT)(D)	0.04	0.1	0.04	0.05	0.1	0.09
	Manganese (Mn) (DIS)(D)		1.1	1.04	0.9	0.6	0.4
	Manganese (Mn) (TOT)(D)		1.2	1.2	0.9	0.6	0.4
	Zinc (Zn) (DIS)(D)	0.06	0.07 UJ	0.1	0.1	0.1	0.2
	Zinc (Zn) (TOT)(D)	0.07	0.1 J	0.2	0.2	0.1	0.2
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld) (D)	10.7	10.6	8.3	6.7	8.2	9.03
	pH (D)	7.7	7.6	6.5	7.4	7.7	7.7
	Eh (millivolts) (D)			246	356	494	377
	pH (Fld) (D)	7.8	7.9	7.4	7.4	8.6	7.8
	SC (umhos/cm at 25 C) (Fld) (D)	4040	2870	4800	4850	6350	6625
	SC (umhos/cm at 25 C) (D)	3980	2980	4020	5210	6810	6800
	Total Suspended Solids (D)	8		9	8.8	9.4	
	TDS (Measured at 180 C) (D)	3254	2270	3419	4347	5328	5209
	Water Temperature (C) (Fld) (D)	6.7	13.8	3	11.6	5.6	12.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE
Water	SAMPLE DATE	10/31/2000	5/3/2001	11/16/2001	5/15/2002	11/7/2002	4/30/2003
	SAMPLE TIME	13:00	14:00	12:15	16:45	12:00	15:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001833014	L010608001	L011574001	L020363010	L020938001	L030184007
	SAMPLE NUMBER	EHC-0011-154	EHC-0105-180	EHC-0111-177	EHC-0205-204	EHC-0211-195	EHC-0304-106
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	24	77	44	57	57	76
Calcium (Ca) (DIS)(D)	171	91	98	98	79	70
Carbonate As CO3 (D)	<1	<1	<1	<1	<1	<2
Chloride (Cl) (D)	300 J	331	274	242	160	107
Magnesium (Mg) (DIS)(D)	7.3	6.7	8.2	8.8	7.8	7
Potassium (K) (DIS)(D)	77	67	72	45	31	25
Sodium (Na) (DIS)(D)	1472	1216	1079	856	642	494
Sulfate (SO4) (D)	3214	2715	2370	1871	1451	1152
Total Alkalinity As CaCO3 (D)	20	63	36	47	47	62

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)			<0.05			
Aluminum (Al) (TOT)(D)			0.06			
Arsenic (As) (DIS)(D)	0.1	0.05	0.1		0.2	0.2
Arsenic (As) (TOT)(D)	0.1	0.1	0.09		0.2	0.2
Arsenic (As) (TRC)(D)				0.1		
Arsenic III (dis)(D)	<0.02	0.04	0.04			
Arsenic V (dis)(D)	0.1	<0.005	0.06			
Cadmium (Cd) (DIS)(D)	0.02	0.006	0.01		0.001	<0.001
Cadmium (Cd) (TOT)(D)	0.02	0.02	0.01		0.008	0.007
Cadmium (Cd) (TRC)(D)				0.008		
Copper (Cu) (DIS)(D)	0.02	0.005	0.02		0.02	0.008
Copper (Cu) (TOT)(D)	0.04	0.03	0.02		0.05	0.03
Copper (Cu) (TRC)(D)				0.03		
Iron (Fe) (DIS)(D)	0.08 UJ	<0.05	<0.02		<0.02	0.03
Iron (Fe) (TOT)(D)	0.2 UJ	0.4	0.2		0.4	0.5
Iron (Fe) (TRC)(D)				0.2		
Lead (Pb) (DIS)(D)	0.04	0.01	<0.005		<0.005	<0.005
Lead (Pb) (TOT)(D)	0.08	0.08	0.03		0.1	0.05
Lead (Pb) (TRC)(D)				0.04		
Manganese (Mn) (DIS)(D)	0.4	0.3	0.3		0.2	0.4
Manganese (Mn) (TOT)(D)	0.4	0.3	0.3		0.4	0.5
Manganese (Mn) (TRC)(D)				0.4		
Zinc (Zn) (DIS)(D)	0.1	0.1	0.05		<0.02	<0.02
Zinc (Zn) (TOT)(D)	0.1	0.1	0.06		0.03	0.06
Zinc (Zn) (TRC)(D)				0.05		

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential (D)			158	-95.8		
Oxygen (O) (DIS) (Fld) (D)	8.03	6.7	8.6	9.9	6.09	10.4
pH (D)	7	7.5	7	7.7	6.7	6.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE
Water	SAMPLE DATE	10/31/2000	5/3/2001	11/16/2001	5/15/2002	11/7/2002	4/30/2003
	SAMPLE TIME	13:00	14:00	12:15	16:45	12:00	15:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L001833014	L010608001	L011574001	L020363010	L020938001	L030184007
	SAMPLE NUMBER	EHC-0011-154	EHC-0105-180	EHC-0111-177	EHC-0205-204	EHC-0211-195	EHC-0304-106
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fld-Lab: ppm unless noted**

Silicon+Silica (Si+SiO2) (D)				8.5			
Eh (millivolts) (D)	358	339	366				
pH (Fld) (D)	7.8	8.8	8.01	8.6	8.6	7.03	
SC (umhos/cm at 25 C) (Fld) (D)	6690	5350	3940	4390	3070	2620	
SC (umhos/cm at 25 C) (D)	6780	6111	5300	4370	3390	2560	
Total Suspended Solids (D)	9.5	8.3	17	15	33	21	
TDS (Measured at 180 C) (D)	5191	4536	3999	3202	2436	1826	
Water Temperature (C) (Fld) (D)	7.7	11.9	5.3	14.3	2.9	9.6	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE
Water	SAMPLE DATE	10/22/2003	4/27/2004	4/27/2004	11/4/2004	6/9/2005	11/21/2005
	SAMPLE TIME	11:30	15:30	15:45	12:30	11:30	10:15
	LAB	TSC-SLC	ELI	ELI	ELI	ELI-Hel	ELI-Hel
	LAB NUMBER	I030589-007	H04040214-005	H04040214-002	H04110049-006	H05060096-004	H05110173-002
	SAMPLE NUMBER	EHC-0310-306	AEH-0404-201	AEH-0404-202	AEH-0411-232	AEH-0505-303	AEH-0511-228
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	90	130		130	130 J-	130
Calcium (Ca) (DIS)	71	64		53	50	46
Carbonate As CO3	<2					
Chloride (Cl)	82	62		50	31	30
Magnesium (Mg) (DIS)	8.2	8		7	8	8
Potassium (K) (DIS)	22	20		14	11 J-	10
Sodium (Na) (DIS)	386	293		246	184 J-	200
Sulfate (SO4)	871	750		403	332	394
Total Alkalinity As CaCO3	90	110		100	110 J-	110

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.2	0.083 J	0.085 J	0.124	0.084	0.157
Arsenic (As) (TOT)	0.21	0.086	0.089			0.175
Arsenic (As) (TRC)				0.132	0.102	
Arsenic III (DIS)				<0.001		
Arsenic V (DIS)				0.11		
Cadmium (Cd) (DIS)	0.01	0.007	0.006	0.002	0.006	<0.001
Cadmium (Cd) (TOT)	0.01	0.01	0.011			0.004
Cadmium (Cd) (TRC)				0.003 UJ	0.009	
Copper (Cu) (DIS)	0.026	0.018	0.018	0.01	0.012	0.009
Copper (Cu) (TOT)	0.031	0.052	0.06			0.02
Copper (Cu) (TRC)				0.014	0.023	
Iron (Fe) (DIS)	0.35	0.19	0.17	0.07	<0.02	0.04
Iron (Fe) (TOT)	0.48	0.56	0.66			0.33
Iron (Fe) (TRC)				0.16 J	0.32	
Lead (Pb) (DIS)	0.076	0.02 J	0.02 J	0.008	<0.005	<0.005
Lead (Pb) (TOT)	0.098	0.108	0.124			0.038
Lead (Pb) (TRC)				0.022	0.063	
Manganese (Mn) (DIS)	0.25	0.18	0.15	0.27	0.02	0.09
Manganese (Mn) (TOT)	0.25	0.28	0.25			0.13
Manganese (Mn) (TRC)				0.27	0.16	
Zinc (Zn) (DIS)	0.088	0.03	0.03	0.02	<0.01	<0.02
Zinc (Zn) (TOT)	0.094	0.08	0.08			0.02
Zinc (Zn) (TRC)				0.02	0.05	

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	12.37	10.2		10.19	6.97	10.43
pH	7.7	8.6		8	7.9	8.6
pH (Fld)	7.4	7.62		6.98	8.52	7.33
SC (umhos/cm at 25 C) (Fld)	2310	163 R		1507	1148	1115
SC (umhos/cm at 25 C)	2280	1580		1440	1060	1160

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE
Water	SAMPLE DATE	10/22/2003	4/27/2004	11/4/2004	6/9/2005	11/21/2005
	SAMPLE TIME	11:30	15:30	12:30	11:30	10:15
	LAB	TSC-SLC	ELI	ELI	ELI-Hel	ELI-Hel
	LAB NUMBER	1030589-007	H04040214-005	H04110049-006	H05060096-004	H05110173-002
	SAMPLE NUMBER	EHC-0310-306	AEH-0404-201	AEH-0411-232	AEH-0505-303	AEH-0511-228
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fld-Lab: ppm unless noted**

Total Suspended Solids	3.9	19	<10	10	11
TDS (Measured at 180 C)	1550	1230	964	738	798
Salinity (G/KG) (Fld)	1				
Turbidity (NTU) (Fld)	2	10			
Water Temperature (C) (Fld)	11.5	15.2	5	15.1	1.63

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE
Water	SAMPLE DATE	5/12/2006	12/8/2006	6/6/2007	10/31/2007	4/30/2008	10/24/2008
	SAMPLE TIME	11:30	00:00	12:10	13:35	12:10	11:20
	LAB	ELI-Hel	Hydrometrics	ELI	ELI	ELI	ELI
	LAB NUMBER	H06050154-005	AEH-0611-238	H07060063-006	H07100380-005	H08040470-006	H08100323-006
	SAMPLE NUMBER	AEH-0605-237	AEH-0611-238	AEH-0705-305	AEH-0711-304	AEH-0805-114	AEH-0811-105
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		No Samp-Frozen				Ponded
	REMARKS		No Sample				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	130		130		140	150
Bicarbonate (HCO3) (dis)				160		
Calcium (Ca) (DIS)	38		34	40	47	37
Chloride (Cl)	25		17	19	15	14
Magnesium (Mg) (DIS)	8		7	8	9	8
Potassium (K) (DIS)	10		8	7	6	7
Sodium (Na) (DIS)	196		148	130	116	111
Sulfate (SO4)	312		303	253	240	220
Total Alkalinity As CaCO3	110		110	130	120	130

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.1		<0.1	
Aluminum (Al) (TOT)			<0.1		<0.1	
Antimony (Sb) (DIS)			0.183		0.245	
Antimony (Sb) (TOT)			0.186		0.26	
Arsenic (As) (DIS)	0.132		0.079	0.134	0.041	0.217
Arsenic (As) (TOT)	0.203		0.099	0.145	0.067	0.243
Barium (Ba) (DIS)			<0.1		<0.1	
Barium (Ba) (TOT)			<0.1		<0.1	
Beryllium (Be) (DIS)			<0.001		<0.001	
Beryllium (Be) (TOT)			<0.001		<0.001	
Cadmium (Cd) (DIS)	<0.001		<0.001	0.001	0.002	0.001
Cadmium (Cd) (TOT)	0.007		0.004	0.002	0.004	0.003
Chromium (Cr) (DIS)			<0.001		<0.001	
Chromium (Cr) (TOT)			<0.001		<0.001	
Cobalt (Co) (DIS)			<0.01		<0.01	
Cobalt (Co) (TOT)			<0.01		<0.01	
Copper (Cu) (DIS)	0.004		0.008	0.007	0.011	0.01
Copper (Cu) (TOT)	0.036		0.017	0.01	0.019	0.012
Iron (Fe) (DIS)	<0.02		0.04	0.04	0.04	0.05
Iron (Fe) (TOT)	0.71		0.38	0.24	0.45	0.37
Lead (Pb) (DIS)	<0.005		<0.005	<0.005	<0.005	0.007
Lead (Pb) (TOT)	0.178		0.07	0.012	0.055	0.041
Manganese (Mn) (DIS)	<0.01		<0.01	0.13	0.13	0.13
Manganese (Mn) (TOT)	0.25		0.06	0.14	0.14	0.14
Mercury (Hg) (DIS)			<0.006		<0.006	
Mercury (Hg) (TOT)			<0.006		<0.006	
Nickel (Ni) (DIS)			<0.01		<0.01	
Nickel (Ni) (TOT)			<0.01		<0.01	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE	LOWER LAKE
Water	SAMPLE DATE	5/12/2006	12/8/2006	6/6/2007	10/31/2007	4/30/2008	10/24/2008
	SAMPLE TIME	11:30	00:00	12:10	13:35	12:10	11:20
	LAB	ELI-Hel	Hydrometrics	ELI	ELI	ELI	ELI
	LAB NUMBER	H06050154-005	AEH-0611-238	H07060063-006	H07100380-005	H08040470-006	H08100323-006
	SAMPLE NUMBER	AEH-0605-237	AEH-0611-238	AEH-0705-305	AEH-0711-304	AEH-0805-114	AEH-0811-105
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		No Samp-Frozen				Ponded
	REMARKS		No Sample				

**Metals (mg/L): ppm unless noted**

Selenium (Se) (DIS)				0.042	0.034	0.039
Selenium (Se) (TOT)				0.04	0.034	0.037
Silver (Ag) (DIS)			<0.005		<0.005	
Silver (Ag) (TOT)			<0.005		<0.005	
Thallium (Tl) (DIS)			0.051		0.073	
Thallium (Tl) (TOT)			0.051		0.077	
Tin (Sn) (DIS)			<0.1			
Tin (Sn) (TOT)			<0.1			
Vanadium (V) (DIS)			<0.01		<0.01	
Vanadium (V) (TOT)			<0.01		<0.01	
Zinc (Zn) (DIS)	<0.02		<0.01	<0.01	0.02	<0.02
Zinc (Zn) (TOT)	0.12		0.04	0.01	0.04	<0.02

**Other: ppm unless noted**

No Analysis 0.0

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	7.3		7.87	10.46	9.01	10.2
pH	8.8		8.7	8.6	8.2	8.6
Depth To Water Level (ft)					1.96	
pH (Fld)	8.75		8.77	8.65	7.93	7.86
SC (umhos/cm at 25 C) (Fld)	1097		884	896	822	740
SC (umhos/cm at 25 C)	1060		825	944	779	719
Total Suspended Solids	20		<10	<10	<10	<10
TDS (Measured at 180 C)	733		570	568	523	493
Staff Gage	2.45		2.88	2.43		
Water Temperature (C) (Fld)	13.6		17.72	7.3	10.17	6.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LOWER LAKE	PPC-101	PPC-101	PPC-101	PPC-101
Water	SAMPLE DATE	5/1/2009	8/10/1994	8/19/1994	8/26/1994	9/2/1994
	SAMPLE TIME	11:45	14:00	13:00	10:15	10:00
	LAB	ELI	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050036-007	94-1418009	94-1504021	94-1536004	94-1585004
	SAMPLE NUMBER	AEH-0905-106	AHCL-9408-108	AHCL-9408-318	AHCL-9408-418	AHCL-9409-103
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	150
Calcium (Ca) (DIS)	41
Chloride (Cl)	10
Magnesium (Mg) (DIS)	9
Potassium (K) (DIS)	6
Sodium (Na) (DIS)	79
Sulfate (SO4)	190
Total Alkalinity As CaCO3	120

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05	J								
Aluminum (Al) (TOT)	<0.05									
Aluminum (Al) (TRC)	<0.05									
Antimony (Sb) (DIS)	0.14									
Antimony (Sb) (TOT)	0.144									
Antimony (Sb) (TRC)	0.146									
Arsenic (As) (DIS)	0.051	J								
Arsenic (As) (DIS)(D)			0.01	J	0.03	U	0.02	J	0.02	
Arsenic (As) (TOT)	0.0625									
Arsenic (As) (TOT)(D)			0.02	J	0.03		0.02	J	0.02	
Arsenic (As) (TRC)	0.065									
Arsenic III (dis)(D)							0.006		0.005	
Arsenic V (dis)(D)							0.01		0.01	UJ
Barium (Ba) (DIS)	<0.1									
Barium (Ba) (TOT)	<0.1									
Barium (Ba) (TRC)	<0.1									
Beryllium (Be) (DIS)	<0.001									
Beryllium (Be) (TOT)	<0.001									
Beryllium (Be) (TRC)	<0.001									
Cadmium (Cd) (DIS)	0.0026	UJ								
Cadmium (Cd) (DIS)(D)			0.002		0.004	U	<0.001	J	0.008	
Cadmium (Cd) (TOT)	0.003	UJ								
Cadmium (Cd) (TOT)(D)			0.002		<0.001		0.001	J	<0.001	
Cadmium (Cd) (TRC)	0.0029	J								
Chromium (Cr) (DIS)	<0.001									
Chromium (Cr) (TOT)	0.005	UJ								
Chromium (Cr) (TRC)	0.002									
Cobalt (Co) (DIS)	0.003	UJ								
Cobalt (Co) (TOT)	<0.0005									

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LOWER LAKE	PPC-101	PPC-101	PPC-101	PPC-101
Water	SAMPLE DATE	5/1/2009	8/10/1994	8/19/1994	8/26/1994	9/2/1994
	SAMPLE TIME	11:45	14:00	13:00	10:15	10:00
	LAB	ELI	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050036-007	94-1418009	94-1504021	94-1536004	94-1585004
	SAMPLE NUMBER	AEH-0905-106	AHCL-9408-108	AHCL-9408-318	AHCL-9408-418	AHCL-9409-103
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Metals (mg/L): ppm unless noted**

Cobalt (Co) (TRC)	<0.0005				
Copper (Cu) (DIS)	0.01				
Copper (Cu) (DIS)(D)		<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)	0.015				
Copper (Cu) (TOT)(D)		0.006	0.01	0.005	<0.004
Copper (Cu) (TRC)	0.014				
Gold (Au) (DIS)	<0.01 UJ				
Gold (Au) (TOT)	<0.01				
Gold (Au) (TRC)	<0.01				
Iron (Fe) (DIS)	0.07				
Iron (Fe) (TOT)	0.3				
Iron (Fe) (TRC)	0.3				
Lead (Pb) (DIS)	0.0021				
Lead (Pb) (DIS)(D)		<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	0.0092				
Lead (Pb) (TOT)(D)		0.02 J	0.02	0.03	0.01
Lead (Pb) (TRC)	0.0091				
Manganese (Mn) (DIS)	0.07				
Manganese (Mn) (TOT)	0.07				
Manganese (Mn) (TRC)	0.08				
Mercury (Hg) (DIS)	<0.00001				
Mercury (Hg) (TOT)	0.000015				
Nickel (Ni) (DIS)	<0.01				
Nickel (Ni) (TOT)	<0.01				
Nickel (Ni) (TRC)	<0.01				
Selenium (Se) (DIS)	0.03				
Selenium (Se) (TOT)	0.026				
Selenium (Se) (TRC)	0.028				
Silver (Ag) (DIS)	<0.0005 J				
Silver (Ag) (TOT)	<0.0005				
Silver (Ag) (TRC)	<0.0005				
Tellurium (Te) (DIS)	<0.1				
Tellurium (Te) (TOT)	<0.1				
Tellurium (Te) (TRC)	<0.1				
Thallium (Tl) (DIS)	0.0346				
Thallium (Tl) (TOT)	0.0325				
Thallium (Tl) (TRC)	0.0354				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LOWER LAKE	PPC-101	PPC-101	PPC-101	PPC-101
Water	SAMPLE DATE	5/1/2009	8/10/1994	8/19/1994	8/26/1994	9/2/1994
	SAMPLE TIME	11:45	14:00	13:00	10:15	10:00
	LAB	ELI	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	H09050036-007	94-1418009	94-1504021	94-1536004	94-1585004
	SAMPLE NUMBER	AEH-0905-106	AHCL-9408-108	AHCL-9408-318	AHCL-9408-418	AHCL-9409-103
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Metals (mg/L): ppm unless noted**

Vanadium (V) (DIS)	<0.01				
Vanadium (V) (TOT)	<0.01				
Vanadium (V) (TRC)	<0.01				
Zinc (Zn) (DIS)	<0.01				
Zinc (Zn) (DIS)(D)		<0.008	0.01 U	0.02 UJ	0.03 U
Zinc (Zn) (TOT)	0.01				
Zinc (Zn) (TOT)(D)		0.04	0.03 U	0.07 J	0.03 U
Zinc (Zn) (TRC)	0.02				

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.15				
Oxygen (O) (DIS) (Fld) (D)		7.3	6.8	7.2	8.3
pH	8.3				
Eh (millivolts) (D)				190	246
pH (Fld)	8.09				
pH (Fld) (D)		8.2	8.05	8.7	8.04
SC (umhos/cm at 25 C) (Fld)	654				
SC (umhos/cm at 25 C) (Fld) (D)		279	313	388	338
SC (umhos/cm at 25 C)	662				
Total Suspended Solids	<10				
Total Suspended Solids (D)		1.4	1.4 J	2.6	5.5
TDS (Measured at 180 C)	422				
TDS (Measured at 180 C) (D)		185	199 J	221	196
Water Temperature (C) (Fld)	8.28				
Water Temperature (C) (Fld) (D)		21.5	20.7	16.4	13.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-101	PPC-101	PPC-101	PPC-101	PPC-101	PPC-101
Water	SAMPLE DATE	9/8/1994	9/16/1994	9/27/1994	10/5/1994	10/13/1994	10/21/1994
	SAMPLE TIME	09:45	09:30	17:45	11:00	10:45	10:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1608004	94-1683004	94-1778013	94-1820004	94-1887004	94-1932020
	SAMPLE NUMBER	AHCL-9409-203	AHCL-9409-303	AHCL-9409-418	AHCL-9410-103	AHCL-9410-203	AHCL-9410-317
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

  

Common Ions (mg/L): ppm unless noted							
Calcium (Ca) (DIS)(D)				32	35	31	31
Magnesium (Mg) (DIS)(D)				7.8	8.4	7.5	7.3
Potassium (K) (DIS)(D)				2.2	4.2	2.1	3.7 U
Sodium (Na) (DIS)(D)				17	17	14	12
Sulfate (SO4) (D)	48	45	46	44	46	49	

  

Metals (mg/L): ppm unless noted							
Arsenic (As) (DIS)(D)	0.02	0.01	0.009	0.007	0.006	0.006	
Arsenic (As) (TOT)(D)	0.02	0.02	0.01	0.01	0.009	0.009	
Arsenic III (dis)(D)	<0.005	0.009	<0.005	<0.005 J	<0.005	<0.005	
Arsenic V (dis)(D)	0.01	0.02 J	0.008	0.006 J	<0.005	0.006	
Cadmium (Cd) (DIS)(D)	0.004	0.003	0.001	0.001	<0.001	<0.001	
Cadmium (Cd) (TOT)(D)	<0.001	0.001	0.003	<0.001	<0.001	<0.001	
Copper (Cu) (DIS)(D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Copper (Cu) (TOT)(D)	0.005	<0.004	<0.004	<0.004	<0.004	<0.004	0.007
Iron (Fe) (TOT)(D)			0.3	0.4 J	0.4	0.3 J	
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Lead (Pb) (TOT)(D)	0.01	<0.005	0.006	0.01	0.009	0.02	
Zinc (Zn) (DIS)(D)	0.03	0.03 U	<0.008	0.02	0.02	0.03 U	
Zinc (Zn) (TOT)(D)	0.04	0.04 U	0.03	0.04	0.04	0.06 U	

  

Physical/Fid-Lab: ppm unless noted							
Oxygen (O) (DIS) (Fld) (D)	7.2	8.2	6.7	7.6	9.8	7.7	
Eh (millivolts) (D)	312	258	174	258	230	221	
pH (Fld) (D)	8.1	7.9	8.7	8.3	6.8	8.04	
SC (umhos/cm at 25 C) (Fld) (D)	325	329	287	291	327	241	
Total Suspended Solids (D)	5.6	<1	3	4.8	1.3	4.9 U	
TDS (Measured at 180 C) (D)	262	231	199	194	161	178	
Water Temperature (C) (Fld) (D)	13.9	12.5	17.2	11.5	7.9	7.2	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-101	PPC-101	PPC-101	PPC-101	PPC-101	PPC-101
Water	SAMPLE DATE	10/28/1994	11/3/1994	3/28/1995	4/24/1995	5/23/1995	6/19/1995
	SAMPLE TIME	10:00	09:45	14:15	20:00	17:30	15:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1979005	94-2018005	95-616014	95-826010	95-1057024	95-1280009
	SAMPLE NUMBER	AHCL-9410-404	AHCL-9411-104	AHCL-9503-117	AHCL-9504-112	AHCL-9505-119	AHCL-9506-120
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)(D)	30	28	30	21.5	16	15
Magnesium (Mg) (DIS)(D)	7.2	6.6	7.3	5.1	3.5	2.8
Potassium (K) (DIS)(D)	2	2.8	3.8	2	<2	<2
Sodium (Na) (DIS)(D)	12	11	13	8.6	5.2	4.2
Sulfate (SO4) (D)	49	48	47	35	24	16

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.007	0.005	0.006	0.006	0.01	<0.005 UJ
Arsenic (As) (TOT)(D)	0.009	0.007	0.008	0.008	0.009	<0.005
Arsenic III (dis)(D)	<0.005	<0.005	<0.004	<0.004	0.007	<0.004
Arsenic V (dis)(D)	0.006 J	<0.005	<0.004	<0.004	0.02	0.005 UJ
Cadmium (Cd) (DIS)(D)	<0.001	<0.001	<0.001	<0.001	0.001	<0.001
Cadmium (Cd) (TOT)(D)	0.005	0.001 U	<0.002	0.002	0.003	0.002
Copper (Cu) (DIS)(D)	<0.004	0.004	0.005	0.004	<0.004	0.006
Copper (Cu) (TOT)(D)	0.007	0.005	0.004	0.004	0.008	0.01
Iron (Fe) (DIS)(D)					0.05	
Iron (Fe) (TOT)(D)	0.5	0.3		0.3	0.6 J	0.9
Lead (Pb) (DIS)(D)	0.008	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.05 U	0.009	0.008	0.01	0.009	0.008
Zinc (Zn) (DIS)(D)	0.008 U	0.02	<0.008	0.03	0.03	0.07
Zinc (Zn) (TOT)(D)	0.05 U	0.04	0.04	0.06	0.08	0.08

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	10.08	11.5	13.3	11.2	10.3	8.4
Eh (millivolts) (D)	217	265	261	91	82	180
pH (Fld) (D)	8.4	8.01	8.7	8.4	7.7	7.2
SC (umhos/cm at 25 C) (Fld) (D)	326	329	234	213	172	134
Total Suspended Solids (D)	9.1		<1	1.2	6.6 J	15
TDS (Measured at 180 C) (D)	164	188	195 U	122	107 J	102
Water Temperature (C) (Fld) (D)	0.0	2.8	3.5	8.8	11.8	12.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-101	PPC-101	PPC-101	PPC-101	PPC-101	PPC-101
Water	SAMPLE DATE	7/18/1995	8/16/1995	9/15/1995	10/24/1995	11/7/1995	11/7/1995
	SAMPLE TIME	17:10	17:10	18:00	14:15	13:00	13:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-1523019	95-1778020	95-2070010	95-2401015	95-2532016	95-2532021
	SAMPLE NUMBER	AHCL-9507-118	AHCL-9508-118	AHCL-9509-118	AHCL-9510-118	AHCL-9511-119	AHCL-9511-124
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)(D)	<0.005	0.009	0.01	0.006	0.009	0.006
	Arsenic (As) (TOT)(D)	0.008	0.01	0.01	0.007	0.01	0.01
	Cadmium (Cd) (DIS)(D)	<0.001	<0.001	<0.001	0.002	<0.001 J	0.003 J
	Cadmium (Cd) (TOT)(D)	<0.001	0.002 J	<0.001	0.002	0.001	0.001
	Copper (Cu) (DIS)(D)	<0.008	<0.004	0.004	0.004	<0.008	<0.008
	Copper (Cu) (TOT)(D)	0.01	0.006	0.009	0.008 U	<0.008	<0.008
	Lead (Pb) (DIS)(D)	<0.005	0.006	<0.005	<0.005	<0.005	<0.005
	Lead (Pb) (TOT)(D)	0.01	0.02	0.008	0.005	0.007	0.006
	Zinc (Zn) (DIS)(D)	0.04	0.04	0.04	0.06	0.07	0.07
	Zinc (Zn) (TOT)(D)	0.06	0.05	0.05	0.06	0.07	0.07
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld) (D)	8.1	8.02	9.3	10.7	11.07	11.1
	Eh (millivolts) (D)	23	23	-83	200	188	188
	pH (Fld) (D)	7.7	7.9	8.02	7	7	7
	SC (umhos/cm at 25 C) (Fld) (D)	171	227	295	239	242	244
	Total Suspended Solids (D)	6.4	3.5 UJ	<1	2	<1	<1
	TDS (Measured at 180 C) (D)	123	151	193	174	188	162
	Water Temperature (C) (Fld) (D)	19.8	17.9	16.5	7	2.6	2.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-101	PPC-101	PPC-101	PPC-101	PPC-101	PPC-101
Water	SAMPLE DATE	5/9/1996	6/27/1996	9/18/1996	11/7/1996	5/5/1997	11/4/1997
	SAMPLE TIME	14:00	12:30	15:10	15:20	15:45	12:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-911003	96-1243022	96-1924004	96-2338005	97-966	188-2696
	SAMPLE NUMBER	EHC-9605-303	EHC-9606-118	EHC-9609-118	EHC-9611-303	EHC-9705-303	EHC-9711-301
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl) (D)					2	3
Sulfate (SO4) (D)					37	48

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.007	0.01	0.04 J	0.01	<0.005	<0.005
Arsenic (As) (TOT)(D)	0.008 J	0.01	0.04 J	0.01	0.01	0.006
Cadmium (Cd) (DIS)(D)	0.002	0.002	<0.001	0.001	<0.001	<0.001
Cadmium (Cd) (TOT)(D)	0.001	0.002	<0.001	0.001	<0.001	<0.001
Copper (Cu) (DIS)(D)	0.004	<0.008	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)(D)	0.01	0.01	0.006	<0.004	0.02	<0.004
Lead (Pb) (DIS)(D)	<0.005	0.007	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.02	0.02	0.01	0.009	0.03	0.007
Zinc (Zn) (DIS)(D)	0.1	0.06	0.04 U	0.09	0.1	0.08
Zinc (Zn) (TOT)(D)	0.1	0.09 U	0.07 U	0.07	0.2	0.09

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	10	7.7	9.3	12.3	9.09	10.6
pH (D)					7.7	7.9
Eh (millivolts) (D)	379	318	266	413	58	
pH (Fld) (D)	8.2	8.04	8.03	6.7	7.3	8.3
SC (umhos/cm at 25 C) (Fld) (D)	269	191	337	307	172	240
SC (umhos/cm at 25 C) (D)					181	255
Total Suspended Solids (D)	3.5 J	4.6	<1	1.9	29	1
TDS (Measured at 180 C) (D)	170	136	234	200	135	178
Water Temperature (C) (Fld) (D)	7.9	19.2	11.4	3	12.6	7.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-101	PPC-101	PPC-101	PPC-101	PPC-101	PPC-101
Water	SAMPLE DATE	5/14/1998	11/18/1998	5/12/1999	11/18/1999	5/10/2000	10/31/2000
	SAMPLE TIME	12:45	15:15	14:50	13:00	12:10	12:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	263-3817	311-4425	349-4936	L992056004	L000707002	L001833013
	SAMPLE NUMBER	EHC-9805-301	EHC-9811-301	EHC-9905-301	EHC-9911-155	EHC-0005-153	EHC-0011-155
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3) (D)	52	93	59 J	110	89	107
	Calcium (Ca) (DIS)(D)	16	27	19	29	25	29
	Carbonate As CO3 (D)			<1 UJ	<1	<1	<1
	Chloride (Cl) (D)	1	3.9	3	4.8 J	3.1	5.5 J
	Magnesium (Mg) (DIS)(D)	<5	6.1	<5	6.9	5.8	6.7
	Potassium (K) (DIS)(D)	<5	<5	<5	<5	<5	<5
	Sodium (Na) (DIS)(D)	7 J	11	8.5	15	12	19
	Sulfate (SO4) (D)	24	39	32	46	42	57
	Total Alkalinity As CaCO3 (D)	43	76	48 J	90	73	88
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)(D)	0.05 U	0.007 J	<0.005	0.007	0.005	0.01
	Arsenic (As) (TOT)(D)	<0.005	0.007	0.006	0.007	0.006	0.02
	Arsenic III (dis)(D)				<0.005	0.009 U	<0.02
	Arsenic V (dis)(D)				0.007	0.01 U	<0.02
	Cadmium (Cd) (DIS)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Cadmium (Cd) (TOT)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)(D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
	Copper (Cu) (TOT)(D)	0.005	<0.004	0.004	<0.004	0.005	<0.004
	Iron (Fe) (DIS)(D)	0.1 UJ	0.1	0.1 UJ	0.1	0.1 J	0.1 UJ
	Iron (Fe) (TOT)(D)	0.7	0.3	0.7 J	0.3	0.5 U	0.4 UJ
	Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Lead (Pb) (TOT)(D)	0.02 U	<0.005	0.01	0.008	0.008	<0.005
	Manganese (Mn) (DIS)(D)	0.03 J	0.08	0.03	0.08	0.07	0.09
	Manganese (Mn) (TOT)(D)	0.08	0.09	0.07	0.09	0.09	0.1
	Zinc (Zn) (DIS)(D)	0.04 UJ	0.05	<0.02	0.03	0.03	<0.02
	Zinc (Zn) (TOT)(D)	0.07 J	0.06	0.07	0.04	0.04	0.03
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld) (D)	11.8	13.3	9.5	11.3	10.2	11.8
	pH (D)	7.5	8	8	8	8.1	8
	Eh (millivolts) (D)		254	318	463	318	309
	pH (Fld) (D)	8	8.5	8.5	9.2	8.5	8.2
	SC (umhos/cm at 25 C) (Fld) (D)	157	299	167	286	253	285
	SC (umhos/cm at 25 C) (D)	145	257	182	286	256	290
	Total Suspended Solids (D)		1.7	14	3		2.8
	TDS (Measured at 180 C) (D)	105	166	140	194	161	189
	Water Temperature (C) (Fld) (D)	10.4	2.9	9.7	4.4	10.7	6.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-101	PPC-101	PPC-101	PPC-101	PPC-102
Water	SAMPLE DATE	5/3/2001	11/16/2001	5/15/2002	11/6/2002	8/10/1994
	SAMPLE TIME	13:30	12:00	15:45	16:40	13:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010608002	L011574002	L020363008	L020938002	94-1418008
	SAMPLE NUMBER	EHC-0105-188	EHC-0111-185	EHC-0205-216	EHC-0211-203	AHCL-9408-107
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	61	128	227	223
Calcium (Ca) (DIS)(D)	18	30	67	57
Carbonate As CO3 (D)	<1	<1	<1	<1
Chloride (Cl) (D)	2.4 J	4.6	15	11
Magnesium (Mg) (DIS)(D)	<5	7.3	16	14
Potassium (K) (DIS)(D)	<5	<5	7.3	6.8
Sodium (Na) (DIS)(D)	6.7	18	32	29
Sulfate (SO4) (D)	37	50	94	80
Total Alkalinity As CaCO3 (D)	50	105	186	183

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)		<0.05		
Aluminum (Al) (TOT)(D)		<0.05		
Arsenic (As) (DIS)(D)	<0.005	0.006		0.05
Arsenic (As) (TOT)(D)	<0.005	<0.005		0.04
Arsenic (As) (TRC)(D)			0.03	
Arsenic III (dis)(D)	<0.005	0.006		
Arsenic V (dis)(D)	<0.005	0.005		
Cadmium (Cd) (DIS)(D)	<0.001	<0.001		<0.001
Cadmium (Cd) (TOT)(D)	<0.001	<0.001		<0.001
Cadmium (Cd) (TRC)(D)			<0.001	
Copper (Cu) (DIS)(D)	<0.004	<0.004		<0.004
Copper (Cu) (TOT)(D)	<0.004	<0.004		0.005
Copper (Cu) (TRC)(D)			0.01	
Iron (Fe) (DIS)(D)	<0.05	0.1		<0.02
Iron (Fe) (TOT)(D)	0.4	0.4		<0.02
Iron (Fe) (TRC)(D)			<0.02	
Lead (Pb) (DIS)(D)	<0.005	<0.005		<0.005
Lead (Pb) (TOT)(D)	0.006	<0.005		<0.005
Lead (Pb) (TRC)(D)			<0.005	
Manganese (Mn) (DIS)(D)	0.03	0.09		<0.02
Manganese (Mn) (TOT)(D)	0.07 UJ	0.1		0.02
Manganese (Mn) (TRC)(D)			0.05	
Zinc (Zn) (DIS)(D)	0.03	0.02		<0.02
Zinc (Zn) (TOT)(D)	0.05 U	<0.02		<0.02
Zinc (Zn) (TRC)(D)			0.1	

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential (D)		134.7	-74	
Oxygen (O) (DIS) (Fld) (D)	8.9	11.6	9.6	5.2
pH (D)	7.8	7.9	8	8.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-101	PPC-101	PPC-101	PPC-101	PPC-102
Water	SAMPLE DATE	5/3/2001	11/16/2001	5/15/2002	11/6/2002	8/10/1994
	SAMPLE TIME	13:30	12:00	15:45	16:40	13:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010608002	L011574002	L020363008	L020938002	94-1418008
	SAMPLE NUMBER	EHC-0105-188	EHC-0111-185	EHC-0205-216	EHC-0211-203	AHCL-9408-107
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fld-Lab: ppm unless noted**

Silicon+Silica (Si+SiO2) (D)		19				
Eh (millivolts) (D)	305	343				
Flow (D)				0.0		25.9
pH (Fld) (D)	9.3	8.2		8.6	7.5	8.3
SC (umhos/cm at 25 C) (Fld) (D)	167	314		564	512	271
SC (umhos/cm at 25 C) (D)	181	292		573	531	
Total Suspended Solids (D)	9.4	5.4 J		<1	<1	<1
TDS (Measured at 180 C) (D)	143	189		437	408	208
Water Temperature (C) (Fld) (D)	8.9	5.7		11.1	12.2	21.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-102	PPC-102	PPC-102	PPC-102	PPC-102	PPC-102
Water	SAMPLE DATE	8/19/1994	8/26/1994	9/2/1994	9/8/1994	9/16/1994	9/27/1994
	SAMPLE TIME	12:15	10:40	09:10	09:15	09:00	17:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1504019	94-1536001	94-1585005	94-1608005	94-1683005	94-1778012
	SAMPLE NUMBER	AHCL-9408-319	AHCL-9408-419	AHCL-9409-104	AHCL-9409-204	AHCL-9409-304	AHCL-9409-419
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)(D)							31
Magnesium (Mg) (DIS)(D)							7.8
Potassium (K) (DIS)(D)							<2
Sodium (Na) (DIS)(D)							17
Sulfate (SO4) (D)				50	47		46

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.03 U	0.01 J	0.02	0.02	0.01	0.009
Arsenic (As) (TOT)(D)	0.03	0.02 J	0.02	0.02	0.01	0.01
Arsenic III (dis)(D)		<0.005	0.005	<0.005	0.006	<0.005
Arsenic V (dis)(D)		0.01	0.01 UJ	0.01	0.01 J	<0.005
Cadmium (Cd) (DIS)(D)	0.004 U	<0.001 J	0.01	0.006	0.003	<0.001
Cadmium (Cd) (TOT)(D)	<0.001	<0.001 J	<0.001	<0.001	<0.001	0.003
Copper (Cu) (DIS)(D)	<0.004	<0.004	<0.004	0.005	<0.004	0.009 U
Copper (Cu) (TOT)(D)	<0.004	<0.004	<0.004	0.004	0.004	0.005 U
Iron (Fe) (TOT)(D)						0.8
Lead (Pb) (DIS)(D)	0.005	<0.005	<0.005	<0.005	0.02	<0.005
Lead (Pb) (TOT)(D)	0.02	0.01	0.01	0.009	<0.005	0.006
Zinc (Zn) (DIS)(D)	0.01 U	0.02 UJ	0.04 U	0.04	0.05 U	0.009
Zinc (Zn) (TOT)(D)	0.03 U	0.03 UJ	0.04 U	0.06	0.04 U	0.03

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	5.9	7.3	8.4	7.1	7.6	6.8
Eh (millivolts) (D)		222	229	316	253	173
Flow (D)	19.09	16.3	19.4	20	15.2	10
pH (Fld) (D)	7.7	8.5	7.8	8.1	7.8	8.8
SC (umhos/cm at 25 C) (Fld) (D)	338	348	345	325	335	288
Total Suspended Solids (D)	1.8 J	4.4	5.3	5.3	1	3.8
TDS (Measured at 180 C) (D)	88 J	216	266	237	224	197
Water Temperature (C) (Fld) (D)	19.8	17.1	14	13.9	12.3	17.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-102	PPC-102	PPC-102	PPC-102	PPC-102	PPC-102
Water	SAMPLE DATE	10/5/1994	10/13/1994	10/21/1994	10/28/1994	11/3/1994	3/28/1995
	SAMPLE TIME	10:15	10:00	09:35	10:00	09:15	14:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1820005	94-1887005	94-1932019	94-1979006	94-2018006	95-616015
	SAMPLE NUMBER	AHCL-9410-104	AHCL-9410-204	AHCL-9410-318	AHCL-9410-405	AHCL-9411-105	AHCL-9503-118
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)(D)	36	30	31	29	28	30
Magnesium (Mg) (DIS)(D)	8.4	7.2	7.4	6.9	6.6	7.3
Potassium (K) (DIS)(D)	4	2	3.7 U	<2	2.7	3.6
Sodium (Na) (DIS)(D)	17	14	12	11	11	13
Sulfate (SO4) (D)	44	47	48	46	49	46

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.007	0.007	0.006	0.006	<0.005	0.006
Arsenic (As) (TOT)(D)	0.009	0.009	0.007	0.01	0.006	0.007
Arsenic III (dis)(D)	<0.005 J	<0.005	<0.005	<0.005	<0.005	<0.004
Arsenic V (dis)(D)	<0.005 J	0.006	<0.005	0.006 J	<0.005	0.004
Cadmium (Cd) (DIS)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)(D)	0.001	<0.001	<0.001	0.003	0.001 U	<0.002
Copper (Cu) (DIS)(D)	<0.004	<0.004	0.007	<0.004	<0.004	<0.004
Copper (Cu) (TOT)(D)	<0.004	<0.004	0.009	0.005	0.005	0.004
Iron (Fe) (TOT)(D)	0.4 J	0.4	0.3 J	0.6	0.3	
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.006	0.007	0.01	0.03 U	0.008	0.008
Zinc (Zn) (DIS)(D)	0.02	0.03	0.1	0.008 U	0.02	<0.008
Zinc (Zn) (TOT)(D)	0.04	0.05	0.06 U	0.05	0.05	0.05

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	7.3	7.2	7.1	10.2	11.6	13.2
Eh (millivolts) (D)	260	204	209	212	254	293
Flow (D)	27.7	31.5	38.3	29	34.8	36.2
pH (Fld) (D)	8.07	6.8	8.1	8.4	8.07	8.6
SC (umhos/cm at 25 C) (Fld) (D)	286	327	467 J	282	315	234
Total Suspended Solids (D)	<1	2.6	4.1 U	12	2.5	<1
TDS (Measured at 180 C) (D)	177	153	176	152	188	189 U
Water Temperature (C) (Fld) (D)	9.2	7.5	7	0.0	4.4	3.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-102	PPC-102	PPC-102	PPC-102	PPC-102	PPC-102
Water	SAMPLE DATE	3/28/1995	4/24/1995	5/23/1995	6/19/1995	7/18/1995	8/16/1995
	SAMPLE TIME	15:00	19:25	18:00	14:30	16:50	16:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-616020	95-826011	95-1057022	95-1280010	95-1523020	95-1778021
	SAMPLE NUMBER	AHCL-9503-123	AHCL-9504-113	AHCL-9505-120	AHCL-9506-121	AHCL-9507-119	AHCL-9508-119
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)(D)	30	21.4	16.3	14		
Magnesium (Mg) (DIS)(D)	7.2	5.2	3.6	2.6		
Potassium (K) (DIS)(D)	3.5	2	<2	<2		
Sodium (Na) (DIS)(D)	13	8.5	5.2	4		
Sulfate (SO4) (D)	46	35	24	16		

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.005	0.004	0.005	<0.005 UJ	0.006	0.009
Arsenic (As) (TOT)(D)	0.007	0.006	0.005	<0.005	0.009	0.01
Arsenic III (dis)(D)	<0.004	<0.004	<0.004	<0.004		
Arsenic V (dis)(D)	0.004	<0.004	0.009	0.006 UJ		
Cadmium (Cd) (DIS)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)(D)	<0.002	<0.002	0.002	0.002	<0.001	0.002 J
Copper (Cu) (DIS)(D)	0.004	<0.004	0.004	0.005	<0.008	<0.004
Copper (Cu) (TOT)(D)	<0.004	<0.004	0.007	0.008	<0.008	<0.004
Iron (Fe) (DIS)(D)			0.1			
Iron (Fe) (TOT)(D)		0.4	0.5 J	0.7		
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	0.007
Lead (Pb) (TOT)(D)	0.009	0.007	0.009	0.005	0.02	0.02
Zinc (Zn) (DIS)(D)	<0.008	0.04	0.04	0.07	0.03	0.04
Zinc (Zn) (TOT)(D)	0.04	0.07	0.08	0.07	0.05	0.05

**Physical/Flid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	13.3	11.08	10.7	8.5	8.3	8.1
Eh (millivolts) (D)	293	81	93	188	21	24
Flow (D)	36.2	72.7	238.3	314.7	104.7	34.9
pH (Fld) (D)	8.6	8.3	7.9	7.3	7.8	7.9
SC (umhos/cm at 25 C) (Fld) (D)	234	210	164	125	174	229
Total Suspended Solids (D)	<1	3.9	<1 JU	11	4.9	4.2 UJ
TDS (Measured at 180 C) (D)	179 U	137	114 J	88	121	156
Water Temperature (C) (Fld) (D)	3.3	8.7	11.6	12	20.1	18.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-102	PPC-102	PPC-102	PPC-102	PPC-102	PPC-102
Water	SAMPLE DATE	9/15/1995	10/24/1995	10/24/1995	11/7/1995	5/9/1996	6/27/1996
	SAMPLE TIME	17:30	13:30	13:45	12:40	13:35	11:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-2070016	95-2401022	95-2401026	95-2532017	96-911004	96-1243021
	SAMPLE NUMBER	AHCL-9509-119	AHCL-9510-119	AHCL-9510-124	AHCL-9511-120	EHC-9605-304	EHC-9606-119
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.01	0.008	0.008	0.02	0.02	0.005
Arsenic (As) (TOT)(D)	0.01	0.007	0.008	0.02	0.02 J	0.008
Cadmium (Cd) (DIS)(D)	<0.001	<0.001	<0.001	0.002 J	0.003	0.001
Cadmium (Cd) (TOT)(D)	<0.001	<0.001	0.001	0.002	0.001	<0.001
Copper (Cu) (DIS)(D)	0.007	<0.004	<0.004	<0.008	0.004	<0.008
Copper (Cu) (TOT)(D)	0.01	0.01 U	0.01 U	<0.008	0.009	0.01
Lead (Pb) (DIS)(D)	<0.005	0.006	0.005	<0.005	0.006	<0.005
Lead (Pb) (TOT)(D)	0.009	0.01	0.006	0.007	0.02	0.02
Zinc (Zn) (DIS)(D)	0.03	0.06	0.05	0.06	0.1	0.08
Zinc (Zn) (TOT)(D)	0.06	0.06	0.06	0.06	0.1	0.1

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	9.8	10.6	10.5	11.2	9.8	8.2
Eh (millivolts) (D)	-77	202	204	192	373	289
Flow (D)	42.7	42.4	42.4	39.4	57.6	100.5
pH (Fld) (D)	8.3	6.9	6.9	6.9	8.1	8.3
SC (umhos/cm at 25 C) (Fld) (D)	240	247	242	244	276	209
Total Suspended Solids (D)	4	1.4	1.4	1	3.6 J	9.6
TDS (Measured at 180 C) (D)	167	165	166	187	185	132
Water Temperature (C) (Fld) (D)	17.6	6.5	6.5	2.7	8.6	16.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-102	PPC-102	PPC-102	PPC-102	PPC-102	PPC-102
Water	SAMPLE DATE	6/27/1996	9/18/1996	9/18/1996	11/7/1996	5/5/1997	11/4/1997
	SAMPLE TIME	11:30	14:30	14:45	14:50	15:30	12:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-1243024	96-1924003	96-1924006	96-2338004	97-967	188-2697
	SAMPLE NUMBER	EHC-9606-126	EHC-9609-119	EHC-9609-123	EHC-9611-304	EHC-9705-304	EHC-9711-302
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl) (D)	<1	3
Sulfate (SO4) (D)	35	48

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	<0.005	0.01 J	0.01 J	0.009	<0.005	<0.005
Arsenic (As) (TOT)(D)	0.008	0.01 J	0.01 J	0.008	0.01	0.006
Cadmium (Cd) (DIS)(D)	<0.001	0.001	0.001	0.002	<0.001	<0.001
Cadmium (Cd) (TOT)(D)	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
Copper (Cu) (DIS)(D)	<0.008	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)(D)	0.01	0.006	0.006	<0.004	0.02	0.005
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.02	0.008	0.008	0.009	0.03	0.006
Zinc (Zn) (DIS)(D)	0.08	0.07	0.06	0.09	0.1	0.09
Zinc (Zn) (TOT)(D)	0.1	0.09 U	0.1	0.08	0.2	0.1

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	8.2	9.4	9.4	12.2	9.1	10.6
pH (D)					7.8	7.9
Eh (millivolts) (D)	290	273	272	415	38	
Flow (D)	100.5	25.1	25.1	30.3	118.1	39.05
pH (Fld) (D)	8.2	8.07	8.08	6.7	7.5	8.2
SC (umhos/cm at 25 C) (Fld) (D)	208	310	307	317	170	240
SC (umhos/cm at 25 C) (D)					179	255
Total Suspended Solids (D)	10	<1	<1	<1	23	<1
TDS (Measured at 180 C) (D)	125	198	217	182	141	180
Water Temperature (C) (Fld) (D)	17	12.6	12.6	3.3	11.2	7.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-102	PPC-102	PPC-102	PPC-102	PPC-102	PPC-102
Water	SAMPLE DATE	5/14/1998	11/18/1998	5/12/1999	11/18/1999	5/10/2000	10/31/2000
	SAMPLE TIME	13:00	14:50	13:55	12:45	11:50	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	263-3818	311-4426	349-4937	L992056005	L000707003	L001833012
	SAMPLE NUMBER	EHC-9805-302	EHC-9811-302	EHC-9905-302	EHC-9911-156	EHC-0005-154	EHC-0011-156
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3) (D)	57	93	57 J	111	95	98
	Calcium (Ca) (DIS)(D)	16	25	19	31	25	30
	Carbonate As CO3 (D)			<1 UJ	<1	<1	<1
	Chloride (Cl) (D)	<1	4.3	3.1	3.3 J	3.4	5.6 J
	Magnesium (Mg) (DIS)(D)	<5	5.9	<5	7.2	5.8	7.2
	Potassium (K) (DIS)(D)	<5	<5	<5	<5	<5	<5
	Sodium (Na) (DIS)(D)	7 J	10.7	8.3	15	13	20
	Sulfate (SO4) (D)	25	42	32	49	38	51
	Total Alkalinity As CaCO3 (D)	47	76	47 J	91	78	80
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)(D)	0.06 U	0.006 J	<0.005	0.006	<0.005	0.01
	Arsenic (As) (TOT)(D)	0.005	0.005	0.006	0.007	0.005	0.01
	Arsenic III (dis)(D)				0.02	0.008 U	<0.02
	Arsenic V (dis)(D)				0.007	0.01 U	<0.02
	Cadmium (Cd) (DIS)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Cadmium (Cd) (TOT)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)(D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
	Copper (Cu) (TOT)(D)	0.005	<0.004	0.004	<0.004	<0.004	<0.004
	Iron (Fe) (DIS)(D)	0.1 UJ	0.1	0.1 UJ	0.1	0.07 J	0.1 UJ
	Iron (Fe) (TOT)(D)	0.7	0.3	0.8 J	0.4	0.4 U	0.6
	Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Lead (Pb) (TOT)(D)	0.02 U	<0.005	0.01	0.006	0.005	0.005
	Manganese (Mn) (DIS)(D)	0.04 J	0.07	0.03	0.09	0.06	0.1
	Manganese (Mn) (TOT)(D)	0.09	0.09	0.08	0.1	0.08	0.1
	Zinc (Zn) (DIS)(D)	0.04 UJ	0.04	0.03	0.03	0.03	<0.02
	Zinc (Zn) (TOT)(D)	0.07 J	0.05	0.05	0.04	0.05	0.03
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld) (D)	11.8	13.2	8	11.4	10.4	11.9
	pH (D)	7.8	7.9	8	8.1	8.1	8
	Eh (millivolts) (D)		240	284	469	328	311
	Flow (D)	99.9	34.6	90.9	21.6	22.7	19.06
	pH (Fld) (D)	7.9	7.7	7.5	9.06	8.5	8.2
	SC (umhos/cm at 25 C) (Fld) (D)	156	294	164	316	251	285
	SC (umhos/cm at 25 C) (D)	147	256	183	286	245	287
	Total Suspended Solids (D)		1	16	3.1		3.9
	TDS (Measured at 180 C) (D)	110	170	136	186	176	196

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-102	PPC-102	PPC-102	PPC-102	PPC-102	PPC-102
Water	SAMPLE DATE	5/14/1998	11/18/1998	5/12/1999	11/18/1999	5/10/2000	10/31/2000
	SAMPLE TIME	13:00	14:50	13:55	12:45	11:50	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	263-3818	311-4426	349-4937	L992056005	L000707003	L001833012
	SAMPLE NUMBER	EHC-9805-302	EHC-9811-302	EHC-9905-302	EHC-9911-156	EHC-0005-154	EHC-0011-156
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Water Temperature (C) (Fid) (D)	10.4	3.2	11.2	4.4	10.7	8.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-102	PPC-102	PPC-102	PPC-102	PPC-103
Water	SAMPLE DATE	5/3/2001	11/16/2001	5/15/2002	11/6/2002	8/10/1994
	SAMPLE TIME	13:15	11:50	15:30	16:30	12:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010608003	L011574003	L020363007	L020938003	94-1418007
	SAMPLE NUMBER	EHC-0105-189	EHC-0111-186	EHC-0205-217	EHC-0211-204	AHCL-9408-106
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	55	122	67	105
Calcium (Ca) (DIS)(D)	16	31	24	31
Carbonate As CO3 (D)	<1	<1	<1	<1
Chloride (Cl) (D)	2.5 J	4.6	2.3	4.5
Magnesium (Mg) (DIS)(D)	<5	7.2	5.4	7
Potassium (K) (DIS)(D)	<5	<5	<5	<5
Sodium (Na) (DIS)(D)	5.8	18	9.4	16
Sulfate (SO4) (D)	42	47	40	57
Total Alkalinity As CaCO3 (D)	45	100	55	86

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)		<0.05		
Aluminum (Al) (TOT)(D)		<0.05		
Arsenic (As) (DIS)(D)	<0.005	0.005		0.01 J
Arsenic (As) (TOT)(D)	<0.005	<0.005		0.02 J
Arsenic (As) (TRC)(D)			<0.005	
Arsenic III (dis)(D)	<0.005	<0.005		
Arsenic V (dis)(D)	<0.005	0.005		
Cadmium (Cd) (DIS)(D)	<0.001	<0.001		0.002
Cadmium (Cd) (TOT)(D)	<0.001	<0.001		0.003
Cadmium (Cd) (TRC)(D)			<0.001	
Copper (Cu) (DIS)(D)	<0.004	<0.004		<0.004
Copper (Cu) (TOT)(D)	<0.004	<0.004		0.009
Copper (Cu) (TRC)(D)			0.004	
Iron (Fe) (DIS)(D)	<0.05	0.1		0.04
Iron (Fe) (TOT)(D)	0.5	0.4		0.3
Iron (Fe) (TRC)(D)			0.4	
Lead (Pb) (DIS)(D)	<0.005	<0.005		<0.005
Lead (Pb) (TOT)(D)	0.006	<0.005		0.02 J
Lead (Pb) (TRC)(D)			0.005	
Manganese (Mn) (DIS)(D)	0.03	0.08		0.06
Manganese (Mn) (TOT)(D)	0.07 UJ	0.09		0.08
Manganese (Mn) (TRC)(D)			0.09	
Zinc (Zn) (DIS)(D)	0.03	0.02		<0.008
Zinc (Zn) (TOT)(D)	0.05 U	<0.02		0.04
Zinc (Zn) (TRC)(D)			0.05	

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential (D)		144.4	-54.3	
Oxygen (O) (DIS) (Fld) (D)	9.2	11.5	10.3	6.8
pH (D)	7.8	7.7	6.8	7.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-102	PPC-102	PPC-102	PPC-102	PPC-103
Water	SAMPLE DATE	5/3/2001	11/16/2001	5/15/2002	11/6/2002	8/10/1994
	SAMPLE TIME	13:15	11:50	15:30	16:30	12:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010608003	L011574003	L020363007	L020938003	94-1418007
	SAMPLE NUMBER	EHC-0105-189	EHC-0111-186	EHC-0205-217	EHC-0211-204	AHCL-9408-106
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fld-Lab: ppm unless noted**

Silicon+Silica (Si+SiO2) (D)		19				
Eh (millivolts) (D)	296	353				
Flow (D)	85.8	15.6	54.3			
pH (Fld) (D)	7.5	8.3	8.05	7.2		8.2
SC (umhos/cm at 25 C) (Fld) (D)	167	312	194	293		272
SC (umhos/cm at 25 C) (D)	179	223	205	302		
Total Suspended Solids (D)	8.3	2.3 J	8.2	1.2		<1
TDS (Measured at 180 C) (D)	139	195	159	200		205
Water Temperature (C) (Fld) (D)	8.9	6.1	10.1	3		21.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103
Water	SAMPLE DATE	8/19/1994	8/26/1994	9/2/1994	9/8/1994	9/16/1994	9/27/1994
	SAMPLE TIME	11:40	11:30	08:30	08:30	08:30	17:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1504017	94-1536005	94-1585006	94-1608006	94-1683006	94-1778011
	SAMPLE NUMBER	AHCL-9408-320	AHCL-9408-420	AHCL-9409-105	AHCL-9409-205	AHCL-9409-305	AHCL-9409-420
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)(D)							31
Magnesium (Mg) (DIS)(D)							7.6
Potassium (K) (DIS)(D)							<2
Sodium (Na) (DIS)(D)							17
Sulfate (SO4) (D)		46		49	46		46

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.05 U	0.01 J	0.03	0.02	0.02	0.01
Arsenic (As) (TOT)(D)	0.01	0.02 J	0.02	0.02	0.01	0.02
Arsenic III (dis)(D)		0.005	0.006	0.005	0.006	<0.005
Arsenic V (dis)(D)		0.01	0.01 UJ	0.01	0.01 J	0.01
Cadmium (Cd) (DIS)(D)	0.005 U	<0.001 J	0.02	0.005	0.004	<0.001
Cadmium (Cd) (TOT)(D)	<0.001	0.001 J	<0.001	<0.001	<0.001	0.003
Copper (Cu) (DIS)(D)	<0.004	<0.004	<0.004	0.004	<0.004	0.004 U
Copper (Cu) (TOT)(D)	<0.004	0.009	0.01	0.008	0.004	0.008 U
Iron (Fe) (TOT)(D)						0.4
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.006	0.02	0.03	0.01	<0.005	0.009
Zinc (Zn) (DIS)(D)	0.02 U	0.03 UJ	0.04 U	0.04	0.04 U	<0.008
Zinc (Zn) (TOT)(D)	0.03 U	0.04 UJ	0.06 U	0.05	0.05 U	0.03

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	6.5	7.1	8.7	7.3	7	7.7
Eh (millivolts) (D)		242	192	310	251	190
pH (Fld) (D)	8	8.4	8.04	8.04	7.2	8.7
SC (umhos/cm at 25 C) (Fld) (D)	319	287	418	427	326	292
Total Suspended Solids (D)	1.3 J	4.9	4.2	8.9	1.6	3.4
TDS (Measured at 180 C) (D)	190 J	213	214	249	220	215
Water Temperature (C) (Fld) (D)	18.9	17.7	13.5	13.6	12.2	18

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103
Water	SAMPLE DATE	10/5/1994	10/13/1994	10/21/1994	10/28/1994	11/3/1994	3/28/1995
	SAMPLE TIME	09:45	09:00	09:10	08:45	08:30	15:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1820006	94-1887006	94-1932018	94-1979007	94-2018007	95-616016
	SAMPLE NUMBER	AHCL-9410-105	AHCL-9410-205	AHCL-9410-319	AHCL-9410-406	AHCL-9411-106	AHCL-9503-119
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Calcium (Ca) (DIS)(D)	36	36	31	29	30	30
	Magnesium (Mg) (DIS)(D)	8.5	8.7	7.4	7.1	7.1	7.3
	Potassium (K) (DIS)(D)	3.8	2.4	3.9 U	2.2	2.8	3.2
	Sodium (Na) (DIS)(D)	17	16	12	12	11	13
	Sulfate (SO4) (D)	44	46	47	47	47	47
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)(D)	0.007	0.01	0.005	0.01	0.007	0.006
	Arsenic (As) (TOT)(D)	0.009	0.02	0.009	0.02	0.008	0.008
	Arsenic III (dis)(D)	<0.005 J	<0.005	<0.005	0.006	<0.005	<0.004
	Arsenic V (dis)(D)	0.005 J	0.007	<0.005	0.008 J	<0.005	<0.004
	Cadmium (Cd) (DIS)(D)	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
	Cadmium (Cd) (TOT)(D)	<0.001	<0.001	0.001 U	0.005	0.001 U	<0.002
	Copper (Cu) (DIS)(D)	0.006	<0.004	<0.004	<0.004	<0.004	0.004
	Copper (Cu) (TOT)(D)	<0.004	<0.004	<0.004	0.01	0.008	0.004
	Iron (Fe) (TOT)(D)	0.4 J	0.4	0.3 J	1.3	0.3	
	Lead (Pb) (DIS)(D)	<0.005	0.01	<0.005	<0.005	<0.005	<0.005
	Lead (Pb) (TOT)(D)	0.007	0.01	0.007	0.06 U	0.009	0.009
	Zinc (Zn) (DIS)(D)	0.04	0.03	0.05 U	0.01 U	0.04	<0.008
	Zinc (Zn) (TOT)(D)	0.05	0.05	0.05 U	0.1	0.05	0.04
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld) (D)	7.1	6.8	7	10.1	11.5	13.3
	Eh (millivolts) (D)	240	240	218	249	249	273
	pH (Fld) (D)	7.7	6.9	8.06	7.9	8.1	8.8
	SC (umhos/cm at 25 C) (Fld) (D)	288	339	373	317	361	239
	Total Suspended Solids (D)	3.5	2.9	4.4 U	21	2.1	<1
	TDS (Measured at 180 C) (D)	185	168	174	157	188	178 U
	Water Temperature (C) (Fld) (D)	8.1	7.5	6.9	7	2.4	3.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103
Water	SAMPLE DATE	4/24/1995	5/23/1995	6/19/1995	6/19/1995	7/18/1995	8/16/1995
	SAMPLE TIME	18:40	18:30	13:35	13:50	16:30	16:20
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-826012	95-1057021	95-1280011	95-1280013	95-1523021	95-1778022
	SAMPLE NUMBER	AHCL-9504-114	AHCL-9505-121	AHCL-9506-122	AHCL-9506-124	AHCL-9507-120	AHCL-9508-120
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)(D)	21.4	15.8	15	14		
Magnesium (Mg) (DIS)(D)	5.2	3.5	2.6	2.3		
Potassium (K) (DIS)(D)	2	<2	<2	<2		
Sodium (Na) (DIS)(D)	8.4	5.1	4.1	3.5		
Sulfate (SO4) (D)	35	24	17	17		

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.005	<0.005	0.009 J	0.01 J	0.008	0.009
Arsenic (As) (TOT)(D)	0.006	0.005	0.01	0.01	0.01	0.01
Arsenic III (dis)(D)	<0.004	0.008	<0.004	0.005		
Arsenic V (dis)(D)	<0.004	0.007	0.009 UJ	0.02 UJ		
Cadmium (Cd) (DIS)(D)	0.002	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)(D)	<0.002	0.003	0.002	0.002	<0.001	<0.001 J
Copper (Cu) (DIS)(D)	0.004	0.004	0.007	0.005	<0.008	<0.004
Copper (Cu) (TOT)(D)	0.004	0.008	0.01	0.01	<0.008	0.004
Iron (Fe) (DIS)(D)		0.08				
Iron (Fe) (TOT)(D)	0.4	0.8 J	0.5	0.5		
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	0.006
Lead (Pb) (TOT)(D)	0.008	0.01	0.01	0.01	0.02	0.01
Zinc (Zn) (DIS)(D)	0.03	0.06	0.06	0.06	0.03	0.04
Zinc (Zn) (TOT)(D)	0.05	0.1	0.06	0.06	0.04	0.05

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	11.06	9.5	8.5	8.4	8.4	8
Eh (millivolts) (D)	94	105	172	177	23	23
pH (Fld) (D)	8.2	8.08	7.3	7.2	7.7	7.9
SC (umhos/cm at 25 C) (Fld) (D)	211	153	176	183	173	230
Total Suspended Solids (D)	9.9	9.5 J	5.7	7	1.5	4.4 UJ
TDS (Measured at 180 C) (D)	134	120 J	95	96	104	141
Water Temperature (C) (Fld) (D)	8.4	11.7	12.9	12.9	20.4	19

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103
Water	SAMPLE DATE	8/16/1995	9/15/1995	9/15/1995	10/24/1995	11/7/1995	5/9/1996
	SAMPLE TIME	16:35	17:00	17:15	13:15	12:10	13:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-1778026	95-2070011	95-2070015	95-2401023	95-2532018	96-911005
	SAMPLE NUMBER	AHCL-9508-125	AHCL-9509-120	AHCL-9509-125	AHCL-9510-120	AHCL-9511-121	EHC-9605-305
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate			

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.009	0.009	0.009	0.006	0.008	0.01
Arsenic (As) (TOT)(D)	0.009	0.01	0.01	0.006	0.01	0.01 J
Cadmium (Cd) (DIS)(D)	<0.001	<0.001	<0.001	0.001	0.001 J	0.003
Cadmium (Cd) (TOT)(D)	0.002 J	<0.001	<0.001	0.001	0.001	0.001
Copper (Cu) (DIS)(D)	<0.004	0.004	0.008	0.004	<0.008	0.004
Copper (Cu) (TOT)(D)	<0.004	0.01	0.01	0.02 U	<0.008	0.009
Lead (Pb) (DIS)(D)	0.006	<0.005	0.005	0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.01	0.01	0.009	0.006	0.008	0.02
Zinc (Zn) (DIS)(D)	0.04	0.04	0.03	0.06	0.08	0.1
Zinc (Zn) (TOT)(D)	0.05	0.05	0.05	0.07	0.07	0.1

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	7.9	9.8	9.7	10.7	11.2	10
Eh (millivolts) (D)	23	80	83	259	184	378
pH (Fld) (D)	7.9	8.2	8.2	6.9	6.6	8.2
SC (umhos/cm at 25 C) (Fld) (D)	230	250	247	248	255	281
Total Suspended Solids (D)	1.3 UJ	<1	<1	3.5	<1	4.5 J
TDS (Measured at 180 C) (D)	159	165	171	166	188	179
Water Temperature (C) (Fld) (D)	19.1	17.1	17.1	6.5	2.7	9.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103
Water	SAMPLE DATE	6/27/1996	9/18/1996	11/7/1996	5/5/1997	11/4/1997	5/14/1998
	SAMPLE TIME	09:15	14:05	14:25	15:15	12:00	13:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-1243020	96-1924002	96-2338002	97-968	188-2698	263-3819
	SAMPLE NUMBER	EHC-9606-120	EHC-9609-120	EHC-9611-305	EHC-9705-305	EHC-9711-303	EHC-9805-303
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)							56
Calcium (Ca) (DIS)(D)							16
Chloride (Cl) (D)				<1		3	<1
Magnesium (Mg) (DIS)(D)							<5
Potassium (K) (DIS)(D)							<5
Sodium (Na) (DIS)(D)							7 J
Sulfate (SO4) (D)				38		51	26
Total Alkalinity As CaCO3 (D)							46

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.006	0.01 J	0.007	0.008	0.005	<0.005
Arsenic (As) (TOT)(D)	0.007	0.02 J	0.007	0.01	0.006	0.005
Cadmium (Cd) (DIS)(D)	0.001	<0.001	0.002	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)(D)	<0.001	<0.001	0.002	0.001	<0.001	<0.001
Copper (Cu) (DIS)(D)	<0.008	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)(D)	0.01	0.006	<0.004	0.02	0.004	0.005
Iron (Fe) (DIS)(D)						0.2 UJ
Iron (Fe) (TOT)(D)						0.7
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.02	0.009	0.01	0.03	0.006	0.02 U
Manganese (Mn) (DIS)(D)						0.04 J
Manganese (Mn) (TOT)(D)						0.09
Zinc (Zn) (DIS)(D)	0.08	0.07	0.08	0.08	0.09	0.05 UJ
Zinc (Zn) (TOT)(D)	0.1	0.09 U	0.07	0.2	0.1	0.07 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	8.4	9.5	11.9	9.1	10.6	11.8
pH (D)				7.9	7.9	7.7
Eh (millivolts) (D)	454	272	424	17		
pH (Fld) (D)	7.3	8.07	6.7	7.4	8.2	7.9
SC (umhos/cm at 25 C) (Fld) (D)	192	307	309	186	242	159
SC (umhos/cm at 25 C) (D)				187	254	147
Total Suspended Solids (D)	13	2.6	2.7	17	1	
TDS (Measured at 180 C) (D)	138	204	185	123	172	103
Water Temperature (C) (Fld) (D)	15.6	12.1	3.9	12.5	7.9	10.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103
Water	SAMPLE DATE	11/18/1998	5/12/1999	11/18/1999	5/10/2000	10/31/2000	5/3/2001
	SAMPLE TIME	14:05	13:15	12:20	11:40	12:15	12:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	311-4427	349-4938	L992056006	L000707004	L001833011	L010608008
	SAMPLE NUMBER	EHC-9811-303	EHC-9905-303	EHC-9911-157	EHC-0005-155	EHC-0011-157	EHC-0105-190
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3) (D)	95	61 J	109	89	110	55
	Calcium (Ca) (DIS)(D)	26	19	30	25	29	18
	Carbonate As CO3 (D)		<1 UJ	<1	<1	<1	<1
	Chloride (Cl) (D)	4.9	3.2	3.9 J	3	5.1 J	1.7 J
	Magnesium (Mg) (DIS)(D)	6.1	<5	7.2	5.9	6.8	<5
	Potassium (K) (DIS)(D)	<5	<5	<5	<5	<5	<5
	Sodium (Na) (DIS)(D)	11	8.7	16	13	18	6.8
	Sulfate (SO4) (D)	42	30	50	38	52	33
	Total Alkalinity As CaCO3 (D)	78	50 J	89	73	90	45
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)(D)	0.005 J	<0.005	0.008	<0.005	0.008	<0.005
	Arsenic (As) (TOT)(D)	0.008	0.007	0.007	<0.005	0.01	0.006
	Arsenic III (dis)(D)			<0.005	0.008 U	<0.02	<0.005
	Arsenic V (dis)(D)			0.008	0.01 U	<0.02	<0.005
	Cadmium (Cd) (DIS)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Cadmium (Cd) (TOT)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)(D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
	Copper (Cu) (TOT)(D)	<0.004	0.007	<0.004	<0.004	<0.004	0.004
	Iron (Fe) (DIS)(D)	0.1	0.1 UJ	0.2	0.05 J	0.09 UJ	<0.05
	Iron (Fe) (TOT)(D)	0.3	0.9 J	0.3	0.5 U	0.5 U	0.4
	Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Lead (Pb) (TOT)(D)	<0.005	0.02	0.006	0.005	0.005	0.006
	Manganese (Mn) (DIS)(D)	0.07	0.04	0.09	0.05	0.08	0.03
	Manganese (Mn) (TOT)(D)	0.09	0.08	0.09	0.08	0.1	0.08 UJ
	Zinc (Zn) (DIS)(D)	0.05	0.03	0.03	0.03	0.02	0.03
	Zinc (Zn) (TOT)(D)	0.06	0.06	0.04	0.05	0.03	0.05 U
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld) (D)	13.04	9.2	11.2	10.4	11.9	9.1
	pH (D)	7.9	8	7.9	7.9	8	8
	Eh (millivolts) (D)	275	367	471	333	309	267
	pH (Fld) (D)	8.3	8.3	9	8.4	8.3	7.3
	SC (umhos/cm at 25 C) (Fld) (D)	297	169	282	247	281	170
	SC (umhos/cm at 25 C) (D)	256	185	288	244	284	179
	Total Suspended Solids (D)	1.5	22	1.7		3	7.2
	TDS (Measured at 180 C) (D)	176	114	185	161	182	140
	Water Temperature (C) (Fld) (D)	3.9	8.8	4.8	10.8	7.4	8.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103
Water	SAMPLE DATE	11/16/2001	5/15/2002	11/6/2002	4/30/2003	10/22/2003	4/29/2004
	SAMPLE TIME	11:40	15:15	16:20	13:30	10:45	11:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI
	LAB NUMBER	L011574004	L020363006	L020938004	L030184005	1030589-005	H04040214-009
	SAMPLE NUMBER	EHC-0111-187	EHC-0205-218	EHC-0211-205	EHC-0304-104	EHC-0310-304	AEH-0404-105
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)						100	78
Bicarbonate (HCO3) (D)	106	65	107	68			
Calcium (Ca) (DIS)					35		26
Calcium (Ca) (DIS)(D)	31	24	30	21			
Carbonate As CO3					<2		
Carbonate As CO3 (D)	<1	<1	<1	<2			
Chloride (Cl)					3.3		3
Chloride (Cl) (D)	4.2	2.3	4.5	2.9			
Magnesium (Mg) (DIS)					8		6
Magnesium (Mg) (DIS)(D)	7.4	5.3	7	<5			
Potassium (K) (DIS)					<5		3
Potassium (K) (DIS)(D)	<5	<5	<5	<5			
Sodium (Na) (DIS)					17		10
Sodium (Na) (DIS)(D)	18	8.9	15	8.6			
Sulfate (SO4)					55		42
Sulfate (SO4) (D)	47	37	56	34			
Total Alkalinity As CaCO3					100		64
Total Alkalinity As CaCO3 (D)	87	53	88	56			

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)	<0.05						
Aluminum (Al) (TOT)(D)	<0.05						
Arsenic (As) (DIS)					0.006		<0.005
Arsenic (As) (DIS)(D)	0.005		<0.005	<0.005			
Arsenic (As) (TOT)					0.007		0.005
Arsenic (As) (TOT)(D)	<0.005		<0.005	0.005			
Arsenic (As) (TRC)(D)		<0.005					
Arsenic III (dis)(D)	<0.005						
Arsenic V (dis)(D)	0.005						
Cadmium (Cd) (DIS)					<0.001		<0.001
Cadmium (Cd) (DIS)(D)	<0.001		<0.001	<0.001			
Cadmium (Cd) (TOT)					<0.001		<0.001
Cadmium (Cd) (TOT)(D)	<0.001		<0.001	<0.001			
Cadmium (Cd) (TRC)(D)		<0.001					
Copper (Cu) (DIS)					<0.004		<0.004
Copper (Cu) (DIS)(D)	<0.004		<0.004	<0.004			
Copper (Cu) (TOT)					<0.004		<0.004
Copper (Cu) (TOT)(D)	<0.004		<0.004	<0.004			
Copper (Cu) (TRC)(D)		0.004					

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103
Water	SAMPLE DATE	11/16/2001	5/15/2002	11/6/2002	4/30/2003	10/22/2003	4/29/2004
	SAMPLE TIME	11:40	15:15	16:20	13:30	10:45	11:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI
	LAB NUMBER	L011574004	L020363006	L020938004	L030184005	1030589-005	H04040214-009
	SAMPLE NUMBER	EHC-0111-187	EHC-0205-218	EHC-0211-205	EHC-0304-104	EHC-0310-304	AEH-0404-105
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Metals (mg/L): ppm unless noted**

Iron (Fe) (DIS)						0.065	0.11
Iron (Fe) (DIS)(D)	0.1			0.05	0.07		
Iron (Fe) (TOT)						0.36	0.36
Iron (Fe) (TOT)(D)	0.7			0.3	0.3		
Iron (Fe) (TRC)(D)			0.4				
Lead (Pb) (DIS)						<0.005	<0.005
Lead (Pb) (DIS)(D)	<0.005			<0.005	<0.005		
Lead (Pb) (TOT)						<0.005	<0.005
Lead (Pb) (TOT)(D)	<0.005			<0.005	<0.005		
Lead (Pb) (TRC)(D)			0.006				
Manganese (Mn) (DIS)						0.11	0.07
Manganese (Mn) (DIS)(D)	0.08			0.06	0.06		
Manganese (Mn) (TOT)						0.12	0.07
Manganese (Mn) (TOT)(D)	0.09			0.07	0.06		
Manganese (Mn) (TRC)(D)			0.08				
Zinc (Zn) (DIS)						<0.02	0.03
Zinc (Zn) (DIS)(D)	<0.02			0.02	0.04		
Zinc (Zn) (TOT)						<0.02	0.02 UJ
Zinc (Zn) (TOT)(D)	<0.02			0.03	0.05		
Zinc (Zn) (TRC)(D)			0.05				

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential (D)	150.4	-63.7					
Oxygen (O) (DIS) (Fld)						10.13	8.78
Oxygen (O) (DIS) (Fld) (D)	11.6	10.4		6.8	11.7		
pH						7.9	7.9
pH (D)	8.1	6.8		8	6.9		
Silicon+Silica (Si+SiO2) (D)	19						
Eh (millivolts) (D)	359						
Flow (cfs)						12.84	43.19
Flow (D)		0.0			95.6		
pH (Fld)						7.77	7.17
pH (Fld) (D)	8.3	8.09		7.1	6.6		
SC (umhos/cm at 25 C) (Fld)						325	277
SC (umhos/cm at 25 C) (D)	314	199		285	176		
SC (umhos/cm at 25 C)						333	196
SC (umhos/cm at 25 C) (D)	290	200		301	197		
Total Suspended Solids						4.2	<10
Total Suspended Solids (D)	2.1 J	15		1.1	1.5		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103
Water	SAMPLE DATE	11/16/2001	5/15/2002	11/6/2002	4/30/2003	10/22/2003	4/29/2004
	SAMPLE TIME	11:40	15:15	16:20	13:30	10:45	11:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI
	LAB NUMBER	L011574004	L020363006	L020938004	L030184005	1030589-005	H04040214-009
	SAMPLE NUMBER	EHC-0111-187	EHC-0205-218	EHC-0211-205	EHC-0304-104	EHC-0310-304	AEH-0404-105
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fld-Lab: ppm unless noted**

TDS (Measured at 180 C)						211	158
TDS (Measured at 180 C) (D)	193	160	199	153			
Salinity (G/KG) (Fld)						0.1	
Turbidity (NTU) (Fld)						6	
Water Temperature (C) (Fld)						9.7	7
Water Temperature (C) (Fld) (D)	6.1	10	3.1	7.1			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103
Water	SAMPLE DATE	11/4/2004	6/9/2005	11/21/2005	5/12/2006	12/8/2006	6/6/2007
	SAMPLE TIME	12:00	12:00	14:00	11:40	12:05	12:00
	LAB	ELI	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI
	LAB NUMBER	H04110049-005	H05060096-005	H05110173-007	H06050154-006	H06120060-005	H07060063-005
	SAMPLE NUMBER	AEH-0411-231	AEH-0505-304	AEH-0511-233	AEH-0605-238	AEH-0611-239	AEH-0705-304
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION			No Flow-Too Deep		o Flow-Unreadable	
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	100	45 J-	98	68	99	54
Calcium (Ca) (DIS)	30	15	35	24	37	16
Chloride (Cl)	7 UJ	2	12	3	5	2
Magnesium (Mg) (DIS)	7	3	8	5	7	3
Potassium (K) (DIS)	3	1 J-	2	2	2	2
Sodium (Na) (DIS)	15	5 J-	16	10	14	6
Sulfate (SO4)	39	27	57	33	60	23
Total Alkalinity As CaCO3	82	37 J-	80	55	81	44

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)						<0.1
Aluminum (Al) (TOT)						0.2
Antimony (Sb) (DIS)						<0.005
Antimony (Sb) (TOT)						<0.005
Arsenic (As) (DIS)	<0.005	<0.005	0.006	0.003	0.003	0.005
Arsenic (As) (TOT)			0.007	0.004	0.005	0.008
Arsenic (As) (TRC)	0.006	<0.005				
Arsenic III (Dis)	<0.001					
Arsenic V (Dis)	0.0036					
Barium (Ba) (DIS)						<0.1
Barium (Ba) (TOT)						<0.1
Beryllium (Be) (DIS)						<0.001
Beryllium (Be) (TOT)						<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)			<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TRC)	<0.001	<0.001				
Chromium (Cr) (DIS)						<0.001
Chromium (Cr) (TOT)						<0.001
Cobalt (Co) (DIS)						<0.01
Cobalt (Co) (TOT)						<0.01
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)			<0.004	<0.004	0.004	0.004
Copper (Cu) (TRC)	<0.004	0.005				
Iron (Fe) (DIS)	0.06	0.04	0.11	0.06	0.08	0.07
Iron (Fe) (TOT)			0.26	0.17	0.28	0.38
Iron (Fe) (TRC)	0.27 J	0.67				
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)			<0.005	<0.005	<0.005	0.006
Lead (Pb) (TRC)	<0.005	0.009				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

### Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103
Water	SAMPLE DATE	11/4/2004	6/9/2005	11/21/2005	5/12/2006	12/8/2006	6/6/2007
	SAMPLE TIME	12:00	12:00	14:00	11:40	12:05	12:00
	LAB	ELI	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI
	LAB NUMBER	H04110049-005	H05060096-005	H05110173-007	H06050154-006	H06120060-005	H07060063-005
	SAMPLE NUMBER	AEH-0411-231	AEH-0505-304	AEH-0511-233	AEH-0605-238	AEH-0611-239	AEH-0705-304
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI		RI	RI	RI
	DESCRIPTION			No Flow-Too Deep		o Flow-Unreadable	
	REMARKS						

**Metals (mg/L): ppm unless noted**

Manganese (Mn) (DIS)	0.07	0.02	0.09	0.05	0.08	0.04
Manganese (Mn) (TOT)			0.11	0.06	0.09	0.07
Manganese (Mn) (TRC)	0.08 J	0.06				
Mercury (Hg) (DIS)						<0.006
Mercury (Hg) (TOT)						<0.006
Nickel (Ni) (DIS)						<0.01
Nickel (Ni) (TOT)						<0.01
Silver (Ag) (DIS)						<0.005
Silver (Ag) (TOT)						<0.005
Thallium (Tl) (DIS)						<0.002
Thallium (Tl) (TOT)						<0.002
Tin (Sn) (DIS)						<0.1
Tin (Sn) (TOT)						<0.1
Vanadium (V) (DIS)						<0.01
Vanadium (V) (TOT)						<0.01
Zinc (Zn) (DIS)	0.03	0.03	0.05	0.04	0.06	0.04
Zinc (Zn) (TOT)			0.07	0.05	0.08	0.06
Zinc (Zn) (TRC)	0.03	0.07				

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					58.8	
Oxygen (O) (DIS) (Fld)	11.64	10.22	10.8	7.72	12.21	9.44
pH	7.9	8	8	8.1	7.8	7.7
Flow (cfs)	20.98		28.01	80		
pH (Fld)	6.82	8	7.64	8.1	7.41	7.38
SC (umhos/cm at 25 C) (Fld)	290	129	296	189	301	139
SC (umhos/cm at 25 C)	287	123	306	198	323	137
Total Suspended Solids	<10	11	<10	<10	<10	<10
TDS (Measured at 180 C)	177	92	205	140	218	98
Staff Gage						2.45
Water Temperature (C) (Fld)	3.4	8.2	3.17	10.08	0.33	9.45

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103
Water	SAMPLE DATE	10/31/2007	10/31/2007	4/30/2008	10/24/2008	5/1/2009
	SAMPLE TIME	13:45	14:20	11:55	11:05	10:40
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07100380-006	H07100380-007	H08040470-005	H08100323-005	H09050036-005
	SAMPLE NUMBER	AEH-0711-305	AEH-0711-306	AEH-0805-113	AEH-0811-104	AEH-0905-104
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION			Flow Not Meas	No Flow-Unsafe	
	REMARKS		Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)			91	92	75
Bicarbonate (HCO3) (dis)	120	120			
Calcium (Ca) (DIS)	35	35	32	28	23
Chloride (Cl)	5	5	4	4	3
Magnesium (Mg) (DIS)	8	8	7	6	5
Potassium (K) (DIS)	3	3	2	2	2
Sodium (Na) (DIS)	17	18	12	13	9
Sulfate (SO4)	53	53	43	48	38
Total Alkalinity As CaCO3	100	98	74	76	62

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.1		<0.05 J
Aluminum (Al) (TOT)			<0.1		0.14
Aluminum (Al) (TRC)					0.13
Antimony (Sb) (DIS)			<0.005		<0.003
Antimony (Sb) (TOT)			<0.005		<0.003
Antimony (Sb) (TRC)					<0.003
Arsenic (As) (DIS)	0.008	0.008	0.004	0.005	0.0036 J
Arsenic (As) (TOT)	0.009	0.009	0.006	0.006	0.0039
Arsenic (As) (TRC)					0.004
Barium (Ba) (DIS)			<0.1		<0.1
Barium (Ba) (TOT)			<0.1		<0.1
Barium (Ba) (TRC)					<0.1
Beryllium (Be) (DIS)			<0.001		<0.001
Beryllium (Be) (TOT)			<0.001		<0.001
Beryllium (Be) (TRC)					<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	0.002 UJ
Cadmium (Cd) (TOT)	<0.001	<0.001	<0.001	<0.001	0.0011 UJ
Cadmium (Cd) (TRC)					0.0012 J
Chromium (Cr) (DIS)			<0.001		<0.001
Chromium (Cr) (TOT)			<0.001		0.005 UJ
Chromium (Cr) (TRC)					0.003
Cobalt (Co) (DIS)			<0.01		0.0016 UJ
Cobalt (Co) (TOT)			<0.01		<0.0005
Cobalt (Co) (TRC)					<0.0005
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	0.002
Copper (Cu) (TOT)	<0.004	<0.004	<0.004	<0.004	0.003
Copper (Cu) (TRC)					0.004
Gold (Au) (DIS)					<0.01 UJ

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103
Water	SAMPLE DATE	10/31/2007	10/31/2007	4/30/2008	10/24/2008	5/1/2009
	SAMPLE TIME	13:45	14:20	11:55	11:05	10:40
	LAB	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H07100380-006	H07100380-007	H08040470-005	H08100323-005	H09050036-005
	SAMPLE NUMBER	AEH-0711-305	AEH-0711-306	AEH-0805-113	AEH-0811-104	AEH-0905-104
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION			Flow Not Meas	No Flow-Unsafe	
	REMARKS		Field Duplicate			

**Metals (mg/L): ppm unless noted**

Gold (Au) (TOT)					<0.01
Gold (Au) (TRC)					<0.01
Iron (Fe) (DIS)	0.15	0.16	0.09	0.19	0.07
Iron (Fe) (TOT)	0.33	0.31	0.3	0.33	0.3
Iron (Fe) (TRC)					0.27
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	0.0007
Lead (Pb) (TOT)	<0.005	<0.005	<0.005	<0.005	0.0035
Lead (Pb) (TRC)					0.0026
Manganese (Mn) (DIS)	0.09	0.09	0.06	0.07	0.04
Manganese (Mn) (TOT)	0.1	0.09	0.07	0.08	0.05
Manganese (Mn) (TRC)					0.05
Mercury (Hg) (DIS)			<0.006		<0.0001
Mercury (Hg) (TOT)			<0.006		<0.00001
Nickel (Ni) (DIS)			<0.01		<0.01
Nickel (Ni) (TOT)			<0.01		<0.01
Nickel (Ni) (TRC)					<0.01
Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	0.002
Selenium (Se) (TOT)	<0.005	<0.005	<0.005	<0.005	0.001
Selenium (Se) (TRC)					<0.001
Silver (Ag) (DIS)			<0.005		<0.0005 J
Silver (Ag) (TOT)			<0.005		<0.0005
Silver (Ag) (TRC)					<0.0005
Tellurium (Te) (DIS)					<0.1
Tellurium (Te) (TOT)					<0.1
Tellurium (Te) (TRC)					<0.1
Thallium (Tl) (DIS)			<0.002		<0.0002
Thallium (Tl) (TOT)			<0.002		<0.0002
Thallium (Tl) (TRC)					<0.0002
Vanadium (V) (DIS)			<0.01		<0.01
Vanadium (V) (TOT)			<0.01		<0.01
Vanadium (V) (TRC)					<0.01
Zinc (Zn) (DIS)	0.03	0.03	0.03	0.07	0.05
Zinc (Zn) (TOT)	0.04	0.03	0.04	0.07	0.05
Zinc (Zn) (TRC)					0.07

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	10.35		8.86	11.74	11.4
pH	8	7.9	7.9	8	8
Depth To Water Level (ft)			1.12		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-103	PPC-103	PPC-103	PPC-103	PPC-103
Water	SAMPLE DATE	10/31/2007	10/31/2007	4/30/2008	10/24/2008	5/1/2009
	SAMPLE TIME	13:45	14:20	11:55	11:05	10:40
	LAB	Hydrometrics	ELI	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H07100380-006	H07100380-007	H08040470-005	H08100323-005	H09050036-005
	SAMPLE NUMBER	AEH-0711-305	AEH-0711-306	AEH-0805-113	AEH-0811-104	AEH-0905-104
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION			Flow Not Meas	No Flow-Unsafe	
	REMARKS		Field Duplicate			

**Physical/Fld-Lab: ppm unless noted**

pH (Fld)	8.43		7.64	7.86	7.21
SC (umhos/cm at 25 C) (Fld)	332		258	258	217
SC (umhos/cm at 25 C)	352	349	253	249	222
Total Suspended Solids	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	208	204	173	174	144
Staff Gage	0.83				
Water Temperature (C) (Fld)	5.1		8.06	4.1	3.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-103A	PPC-29A	PPC-29A	PPC-29A	PPC-29A
Water	SAMPLE DATE	5/1/2009	10/15/1986	10/15/1986	5/8/1987	5/8/1987
	SAMPLE TIME	11:15	00:00	00:00	00:00	00:00
	LAB	ELI	RMAL	TSC-SLC	CHMTC	TSC-SLC
	LAB NUMBER	H09050036-006	8610-131	86-6940	8705-101	87-3118
	SAMPLE NUMBER	AEH-0905-105	AEH-8610-131	AEH-8610-131	AEH-8705-101	AEH-8705-101
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Split		Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	75				
Bicarbonate (HCO3) (D)		82	94		67 M
Calcium (Ca) (DIS)	23				
Calcium (Ca) (DIS)(D)		30.4		21.1 M	
Carbonate As CO3 (D)		<5			
Chloride (Cl)	4				
Chloride (Cl) (D)		4		10 M	
Magnesium (Mg) (DIS)	5				
Magnesium (Mg) (DIS)(D)		7.2		4.8 M	
Potassium (K) (DIS)	2				
Potassium (K) (DIS)(D)		2.6		1.6 M	
Sodium (Na) (DIS)	9				
Sodium (Na) (DIS)(D)		12.2		10.4 M	
Sulfate (SO4)	38				
Sulfate (SO4) (D)		45	50	18.9 M	32
Total Alkalinity As CaCO3	62				
Total Alkalinity As CaCO3 (D)				56	

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05 J				
Aluminum (Al) (TOT)	0.21				
Aluminum (Al) (TRC)	0.21				
Antimony (Sb) (DIS)	<0.003				
Antimony (Sb) (TOT)	<0.003				
Antimony (Sb) (TRC)	<0.003				
Arsenic (As) (DIS)	0.0024 J				
Arsenic (As) (DIS)(D)		<0.01	<0.006	<0.009	0.006
Arsenic (As) (TOT)	0.0033				
Arsenic (As) (TOT)(D)		<0.01	<0.006	0.03 M	0.008
Arsenic (As) (TRC)	0.0034				
Barium (Ba) (DIS)	<0.1				
Barium (Ba) (TOT)	<0.1				
Barium (Ba) (TRC)	<0.1				
Beryllium (Be) (DIS)	<0.001				
Beryllium (Be) (TOT)	<0.001				
Beryllium (Be) (TRC)	<0.001				
Cadmium (Cd) (DIS)	0.0016 UJ				
Cadmium (Cd) (DIS)(D)		<0.005	<0.001	<0.004	0.001
Cadmium (Cd) (TOT)	0.0014 UJ				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-103A	PPC-29A	PPC-29A	PPC-29A	PPC-29A
Water	SAMPLE DATE	5/1/2009	10/15/1986	10/15/1986	5/8/1987	5/8/1987
	SAMPLE TIME	11:15	00:00	00:00	00:00	00:00
	LAB	ELI	RMAL	TSC-SLC	CHMTC	TSC-SLC
	LAB NUMBER	H09050036-006	8610-131	86-6940	8705-101	87-3118
	SAMPLE NUMBER	AEH-0905-105	AEH-8610-131	AEH-8610-131	AEH-8705-101	AEH-8705-101
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Split		Split	

**Metals (mg/L): ppm unless noted**

Cadmium (Cd) (TOT)(D)		<0.005	<0.001	<0.004	0.001
Cadmium (Cd) (TRC)	0.0014 J				
Chromium (Cr) (DIS)	<0.001				
Chromium (Cr) (TOT)	0.005 UJ				
Chromium (Cr) (TRC)	0.002				
Cobalt (Co) (DIS)	0.0029 UJ				
Cobalt (Co) (TOT)	<0.0005				
Cobalt (Co) (TRC)	<0.0005				
Copper (Cu) (DIS)	0.003				
Copper (Cu) (DIS)(D)		<0.004		0.03 M	
Copper (Cu) (TOT)	0.003				
Copper (Cu) (TOT)(D)		<0.004		0.03 M	
Copper (Cu) (TRC)	0.003				
Gold (Au) (DIS)	<0.01 UJ				
Gold (Au) (TOT)	<0.01				
Gold (Au) (TRC)	<0.01				
Iron (Fe) (DIS)	0.05				
Iron (Fe) (DIS)(D)		0.07	0.09	<0.1	0.04
Iron (Fe) (TOT)	0.37				
Iron (Fe) (TOT)(D)		0.2	0.3	0.5	0.6 M
Iron (Fe) (TRC)	0.32				
Lead (Pb) (DIS)	<0.0005				
Lead (Pb) (DIS)(D)		<0.005	<0.005	<0.003	<0.005
Lead (Pb) (TOT)	0.0031				
Lead (Pb) (TOT)(D)		0.005	0.005	0.06 M	0.01
Lead (Pb) (TRC)	0.0031				
Manganese (Mn) (DIS)	0.03				
Manganese (Mn) (DIS)(D)		0.05 M		0.02	
Manganese (Mn) (TOT)	0.05				
Manganese (Mn) (TOT)(D)		0.06		0.09	
Manganese (Mn) (TRC)	0.05				
Mercury (Hg) (DIS)	<0.00001				
Mercury (Hg) (TOT)	<0.00001				
Nickel (Ni) (DIS)	<0.01				
Nickel (Ni) (TOT)	<0.01				
Nickel (Ni) (TRC)	<0.01				
Selenium (Se) (DIS)	0.001				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-103A	PPC-29A	PPC-29A	PPC-29A	PPC-29A
Water	SAMPLE DATE	5/1/2009	10/15/1986	10/15/1986	5/8/1987	5/8/1987
	SAMPLE TIME	11:15	00:00	00:00	00:00	00:00
	LAB	ELI	RMAL	TSC-SLC	CHMTC	TSC-SLC
	LAB NUMBER	H09050036-006	8610-131	86-6940	8705-101	87-3118
	SAMPLE NUMBER	AEH-0905-105	AEH-8610-131	AEH-8610-131	AEH-8705-101	AEH-8705-101
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Split		Split	

**Metals (mg/L): ppm unless noted**

Selenium (Se) (TOT)	0.001				
Selenium (Se) (TRC)	<0.001				
Silver (Ag) (DIS)	<0.0005 J				
Silver (Ag) (TOT)	<0.0005				
Silver (Ag) (TRC)	<0.0005				
Tellurium (Te) (DIS)	<0.1				
Tellurium (Te) (TOT)	<0.1				
Tellurium (Te) (TRC)	<0.1				
Thallium (Tl) (DIS)	<0.0002				
Thallium (Tl) (TOT)	<0.0002				
Thallium (Tl) (TRC)	<0.0002				
Vanadium (V) (DIS)	<0.01				
Vanadium (V) (TOT)	<0.01				
Vanadium (V) (TRC)	<0.01				
Zinc (Zn) (DIS)	0.06				
Zinc (Zn) (DIS)(D)		0.07	0.08	0.03	0.03
Zinc (Zn) (TOT)	0.06				
Zinc (Zn) (TOT)(D)		0.04	0.08	0.09	0.08
Zinc (Zn) (TRC)	0.08				

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	11.64				
pH	7.9				
pH (D)			7.8		8.06
Flow (cfs)	69.4				
Flow (D)			26		37.4
pH (Fld)	7.67				
pH (Fld) (D)		8.8	8.8	7.4	7.4
SC (umhos/cm at 25 C) (Fld)	219				
SC (umhos/cm at 25 C) (Fld) (D)		262.7	264	186.8	186.8
SC (umhos/cm at 25 C)	221				
SC (umhos/cm at 25 C) (D)			269		180 M
Total Suspended Solids	<10				
TDS (Measured at 180 C)	144				
TDS (Measured at 180 C) (D)		200	214	138	149
Water Temperature (C) (Fld)	3.79				
Water Temperature (C) (Fld) (D)		6	6	12	12

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-29A	PPC-29A	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	8/18/1987	8/18/1987	11/7/1984	11/7/1984	1/14/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	WYRHR	TSC-SLC	TCS-SLC	CAL	TSC-SLC
	LAB NUMBER	8708-53	87-6857	84-10985	S5482	85-533
	SAMPLE NUMBER	AEH-8708-53	AEH-8708-53	AEH-8411-21	AEH-8411-21-S	AEH-8501-101
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Split			Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	78	101	101	113
Calcium (Ca) (DIS)(D)	26.2		32	23.6
Carbonate As CO3 (D)	<5			
Chloride (Cl) (D)	2		5.9	4.5
Magnesium (Mg) (DIS)(D)	6.3		7.7	5.6
Potassium (K) (DIS)(D)	2.5		2.8	1.6
Sodium (Na) (DIS)(D)	11.6		13	14.9
Sulfate (SO4) (D)	40	33	48	46
Total Alkalinity As CaCO3 (D)			83	93

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)				0.3
Aluminum (Al) (TOT)(D)				<0.2
Antimony (Sb) (DIS)(D)				<0.01
Antimony (Sb) (TOT)(D)				<0.01
Arsenic (As) (DIS)(D)	0.006	0.007	0.005	0.007
Arsenic (As) (TOT)(D)	0.006	0.009		0.006
Barium (Ba) (DIS)(D)				<0.02
Barium (Ba) (TOT)(D)				0.02
Beryllium (Be) (DIS)(D)				<0.0006
Beryllium (Be) (TOT)(D)				<0.0006
Cadmium (Cd) (DIS)(D)	<0.0002	<0.001	<0.001	<0.004
Cadmium (Cd) (TOT)(D)	0.0002	<0.001	0.001	<0.004
Chromium (Cr) (DIS)(D)				0.003
Chromium (Cr) (TOT)(D)				0.003
Cobalt (Co) (DIS)(D)				<0.007
Cobalt (Co) (TOT)(D)				<0.007
Copper (Cu) (DIS)(D)	<0.002		<0.008	0.007
Copper (Cu) (TOT)(D)	0.003		0.008	0.009
Iron (Fe) (DIS)(D)	0.05	0.03	0.1	0.2
Iron (Fe) (TOT)(D)	0.2	0.2	0.2	0.2
Lead (Pb) (DIS)(D)	0.001 M	0.005	<0.006	<0.003
Lead (Pb) (TOT)(D)	0.004	0.01	0.006	<0.003
Manganese (Mn) (DIS)(D)	0.03		0.04	0.03
Manganese (Mn) (TOT)(D)	0.04		0.06	0.05
Mercury (Hg) (DIS)(D)				<0.0002
Mercury (Hg) (TOT)(D)				<0.0002
Nickel (Ni) (DIS)(D)				<0.03
Nickel (Ni) (TOT)(D)				<0.03

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-29A	PPC-29A	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	8/18/1987	8/18/1987	11/7/1984	11/7/1984	1/14/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	WYRHR	TSC-SLC	TCS-SLC	CAL	TSC-SLC
	LAB NUMBER	8708-53	87-6857	84-10985	S5482	85-533
	SAMPLE NUMBER	AEH-8708-53	AEH-8708-53	AEH-8411-21	AEH-8411-21-S	AEH-8501-101
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Split			Split	

**Metals (mg/L): ppm unless noted**

Selenium (Se) (DIS)(D)					<0.002	
Selenium (Se) (TOT)(D)					<0.002	
Silver (Ag) (DIS)(D)					<0.003	
Silver (Ag) (TOT)(D)					<0.003	
Thallium (Tl) (DIS)(D)					<0.002	
Thallium (Tl) (TOT)(D)					<0.002	
Tin (Sn) (DIS)(D)					<0.04	
Tin (Sn) (TOT)(D)					<0.04	
Vanadium (V) (DIS)(D)					<0.004	
Vanadium (V) (TOT)(D)					<0.004	
Zinc (Zn) (DIS)(D)	0.02	0.03		0.04	0.02	0.05
Zinc (Zn) (TOT)(D)	0.04	0.04		0.06	0.04	0.07

**Physical/Fld-Lab: ppm unless noted**

pH (D)		7.9		7.4	8.1	7.9
Flow (D)			16.8	28.6		
pH (Fld) (D)	7.9	7.9				
SC (umhos/cm at 25 C) (Fld) (D)	225.7	224.9		278		303.6
SC (umhos/cm at 25 C) (D)		232		215	170	336
Total Suspended Solids (D)		4.2			7	1
TDS (Measured at 180 C) (D)	160	153.6 M		200	210	204
Water Temperature (C) (Fld) (D)	17	17				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	4/3/1985	5/8/1985	5/8/1985	6/5/1985	7/2/1985	8/6/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	JTC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	85-2347	8505-430	85-3496	85-4093	85-4750	85-6033
	SAMPLE NUMBER	AEH-8504-330	AEH-8505-430	AEH-8505-430	AEH-8506-531	AEH-8507-609	AEH-8508-714
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Split				Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	73	67	79
Calcium (Ca) (DIS)(D)	29	19.6	25
Chloride (Cl) (D)	3.3	2	2.3
Magnesium (Mg) (DIS)(D)	6.8	4.1	6.1
Potassium (K) (DIS)(D)	3.5	1.8	2.3
Sodium (Na) (DIS)(D)	13	6.5	13.4
Sulfate (SO4) (D)	40.8	30.1	36.2
Total Alkalinity As CaCO3 (D)	60	55	64.9

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)		<0.1			
Aluminum (Al) (TOT)(D)		0.6			
Antimony (Sb) (DIS)(D)		<0.05			
Antimony (Sb) (TOT)(D)		<0.05			
Arsenic (As) (DIS)(D)	0.006	<0.007	0.006	<0.004	0.007
Arsenic (As) (TOT)(D)	0.01	<0.007	0.01	0.007	0.01
Barium (Ba) (DIS)(D)		0.02			
Barium (Ba) (TOT)(D)		0.03			
Beryllium (Be) (DIS)(D)		<0.005			
Beryllium (Be) (TOT)(D)		<0.005			
Cadmium (Cd) (DIS)(D)	<0.001	<0.004	<0.001	0.001	<0.001
Cadmium (Cd) (TOT)(D)	0.001	<0.004	<0.001	0.003	<0.001
Chromium (Cr) (DIS)(D)		<0.008			
Chromium (Cr) (TOT)(D)		<0.008			
Cobalt (Co) (DIS)(D)		<0.02			
Cobalt (Co) (TOT)(D)		<0.02			
Copper (Cu) (DIS)(D)	<0.008	<0.02		0.009	
Copper (Cu) (TOT)(D)	0.02	<0.02		0.01	
Iron (Fe) (DIS)(D)	0.09	<0.04		<0.02	
Iron (Fe) (TOT)(D)	1.9	1.1		0.2	
Lead (Pb) (DIS)(D)	<0.005	<0.03	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.03	0.02	0.04	0.007	<0.005
Manganese (Mn) (DIS)(D)	0.03	0.02		0.03	
Manganese (Mn) (TOT)(D)	0.2	0.2		0.05	
Mercury (Hg) (DIS)(D)		0.0001			
Mercury (Hg) (TOT)(D)		0.0001			
Nickel (Ni) (DIS)(D)		<0.02			
Nickel (Ni) (TOT)(D)		<0.02			
Selenium (Se) (DIS)(D)		<0.004			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	4/3/1985	5/8/1985	5/8/1985	6/5/1985	7/2/1985	8/6/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	JTC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	85-2347	8505-430	85-3496	85-4093	85-4750	85-6033
	SAMPLE NUMBER	AEH-8504-330	AEH-8505-430	AEH-8505-430	AEH-8506-531	AEH-8507-609	AEH-8508-714
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Split				Field Duplicate

**Metals (mg/L): ppm unless noted**

Selenium (Se) (TOT)(D)		<0.004					
Silver (Ag) (DIS)(D)		<0.01					
Silver (Ag) (TOT)(D)		<0.01					
Thallium (Tl) (DIS)(D)		<0.1					
Thallium (Tl) (TOT)(D)		<0.003					
Tin (Sn) (DIS)(D)		<0.03					
Tin (Sn) (TOT)(D)		<0.03					
Vanadium (V) (DIS)(D)		<0.03					
Vanadium (V) (TOT)(D)		<0.03					
Zinc (Zn) (DIS)(D)	0.04	0.05	0.04	0.04	0.02	0.02	
Zinc (Zn) (TOT)(D)	0.1	0.2	0.1	0.06	0.03	0.04	

**Physical/Fld-Lab: ppm unless noted**

pH (D)	6.9	7.4	7.7	7.8	7.2	
Flow (D)	55.8		81.3	55.3	17.3	
SC (umhos/cm at 25 C) (Fld) (D)	258.5		189.5	218	301.2	330
SC (umhos/cm at 25 C) (D)	272	92	195	233	330	
Total Suspended Solids (D)	10.1	28	20	4.5	<1	
TDS (Measured at 180 C) (D)	172	100	140	152	205	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	8/6/1985	9/12/1985	9/12/1985	10/15/1986	10/15/1986	10/15/1986
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	RMAL	TSC-SLC	RMAL
	LAB NUMBER	85-6037	85-7013	85-7021	8610-103	86-6931	8610-124
	SAMPLE NUMBER	AEH-8508-739	AEH-8509-810	AEH-8509-820	AEH-8610-103	AEH-8610-103	AEH-8610-124
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate	Field Duplicate	Field Duplicate	Split
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3) (D)	124			82		85
	Calcium (Ca) (DIS)(D)	35			29.3		29.4
	Carbonate As CO3 (D)				<5		<5
	Chloride (Cl) (D)	5.9			<3		3.5
	Magnesium (Mg) (DIS)(D)	8.1			7		7
	Potassium (K) (DIS)(D)	4.2			2.4 M		2.5
	Sodium (Na) (DIS)(D)	21			11.4		11.8
	Sulfate (SO4) (D)	50.7			54		47
	Total Alkalinity As CaCO3 (D)	102					
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)(D)	0.01	0.01	0.009	<0.01	<0.006	<0.01
	Arsenic (As) (TOT)(D)	0.01	0.01	0.01	<0.01	<0.006	<0.01
	Cadmium (Cd) (DIS)(D)	<0.001	<0.001	<0.001	<0.005	0.001	<0.005
	Cadmium (Cd) (TOT)(D)	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005
	Copper (Cu) (DIS)(D)	0.008			<0.004		<0.004
	Copper (Cu) (TOT)(D)	0.008			0.005		<0.004
	Iron (Fe) (DIS)(D)	0.05			0.06	0.09	0.06
	Iron (Fe) (TOT)(D)	0.3			0.2	0.3	0.2
	Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Lead (Pb) (TOT)(D)	<0.005	0.02	0.02	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)(D)	0.04			0.05		0.05
	Manganese (Mn) (TOT)(D)	0.07			0.06		0.06
	Zinc (Zn) (DIS)(D)	0.02	0.03	0.03	0.06	0.08 M	0.06
	Zinc (Zn) (TOT)(D)	0.04	0.1	0.07	0.07	0.08	0.07
<b>Physical/Fld-Lab: ppm unless noted</b>							
	pH (D)	8.2	6.4				
	Flow (D)	14.8	32.7				
	pH (Fld) (D)					8.9	8.9
	SC (umhos/cm at 25 C) (Fld) (D)	331.3	286.1	286.3		261	260.5
	SC (umhos/cm at 25 C) (D)	340	290				
	Total Suspended Solids (D)	2.1	17				
	TDS (Measured at 180 C) (D)	233	203		215		205
	Water Temperature (C) (Fld) (D)					5	5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	10/15/1986	5/8/1987	5/8/1987	8/18/1987	8/18/1987	8/19/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	CHMTC	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC
	LAB NUMBER	86-6955	8705-100	87-3117	8708-52	87-6871	87-6880
	SAMPLE NUMBER	AEH-8610-124	AEH-8705-100	AEH-8705-100	AEH-8708-52	AEH-8708-52	AEH-8708-72
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Split		Split		Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3) (D)	90		70 M	78		98
	Calcium (Ca) (DIS)(D)		20.7 M		26		
	Carbonate As CO3 (D)				<5		
	Chloride (Cl) (D)		10		2.3		
	Magnesium (Mg) (DIS)(D)		4.7 M		6.3		
	Potassium (K) (DIS)(D)		1.6		2.5		
	Sodium (Na) (DIS)(D)		10.3 M		11.6		
	Sulfate (SO4) (D)	48	10.3 M	32	40		35
	Total Alkalinity As CaCO3 (D)		58				
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)(D)	<0.006	<0.009	<0.006	0.006	0.009	
	Arsenic (As) (TOT)(D)	<0.006	<0.009	0.01	0.006	0.009	
	Cadmium (Cd) (DIS)(D)	<0.001	<0.004	0.001	<0.0002	<0.001	
	Cadmium (Cd) (TOT)(D)	<0.001	<0.004	0.001	0.0002	<0.001	
	Copper (Cu) (DIS)(D)		0.03		<0.002		
	Copper (Cu) (TOT)(D)		0.04		0.003		
	Iron (Fe) (DIS)(D)	0.08	<0.1	0.04	0.05	0.05	
	Iron (Fe) (TOT)(D)	0.3	0.6	0.6	0.2	0.2	
	Lead (Pb) (DIS)(D)	<0.005	<0.003	<0.005	<0.001	0.005	
	Lead (Pb) (TOT)(D)	<0.005	0.05 M	0.009	0.003	0.006	
	Manganese (Mn) (DIS)(D)		0.03		0.03		
	Manganese (Mn) (TOT)(D)		0.08		0.04		
	Zinc (Zn) (DIS)(D)	0.06	0.03	0.03	0.02	0.02	
	Zinc (Zn) (TOT)(D)	0.08	0.1	0.07	0.04	0.04	
<b>Physical/Fld-Lab: ppm unless noted</b>							
	pH (D)	7.8		8.08			8
	Flow (D)	40.6		67.8		34.5	
	pH (Fld) (D)	8.9	7.7	7.7	7.7	7.7	7.7
	SC (umhos/cm at 25 C) (Fld) (D)	261	184	184	223.9	223.1	
	SC (umhos/cm at 25 C) (D)	270		178			242
	Total Suspended Solids (D)						2.4
	TDS (Measured at 180 C) (D)	190	150	140	160		172
	Water Temperature (C) (Fld) (D)	5	12	12	17.5	17.5	17.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	4/25/1989	10/26/1989	5/2/1990	11/20/1990	5/1/1991	11/6/1991
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	13:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	89-561	89-857	90-1083	90-2218	91-2657	91-3599
	SAMPLE NUMBER	AEH-8904-285	AEH-8910-469	AEH-9005-507	AEH-9011-705	AEH-9105-105	AEH-9111-327
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Chloride (Cl) (D)	2	2.5	1.9	2.6 J	<2	3.5
	Sulfate (SO4) (D)	40	34	33.2	45 J	36	40
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)(D)	0.008 R	<0.008	<0.008 UJ	0.006	<0.004	0.006
	Arsenic (As) (TOT)(D)	0.03	<0.008	0.01 J	0.008	0.007	0.01
	Cadmium (Cd) (DIS)(D)	<0.002 UJ	<0.001	0.001 U	<0.001	<0.001	0.001
	Cadmium (Cd) (TOT)(D)	<0.002 UJ	<0.001	0.001 U	<0.001	0.001	0.001
	Copper (Cu) (DIS)(D)	<0.008	<0.008	<0.008	<0.008	<0.004	<0.004
	Copper (Cu) (TOT)(D)	<0.008 J	<0.008	0.008	<0.008	<0.004	<0.004
	Lead (Pb) (DIS)(D)	<0.02	<0.005 UJ	<0.005	<0.005 UJ	<0.005	<0.005
	Lead (Pb) (TOT)(D)	<0.02	0.005	0.008 J	<0.005 UJ	<0.005	<0.005
	Zinc (Zn) (DIS)(D)	0.03 J	0.01 J	0.03		0.02	0.02
	Zinc (Zn) (TOT)(D)	0.05	0.03	0.08		0.03	0.03
<b>Physical/Fld-Lab: ppm unless noted</b>							
	pH (D)	7.2 J	8.3	8.05	8.5	7.9	7.3
	Flow (D)		41.04	111.9		46.2	36
	pH (Fld) (D)	7.1	7.8	7.7	8.4	8.4	7.9
	SC (umhos/cm at 25 C) (Fld) (D)	196.1	226.6	181	255.9	233.6	229
	SC (umhos/cm at 25 C) (D)	185	232	171	260	230	221
	TDS (Measured at 180 C) (D)	162 J	146	117 J	167 J	184 J	161 J
	Water Temperature (C) (Fld) (D)	5.8	8.7	9.4	3.1	9.6	2.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	4/29/1992	11/13/1992	4/28/1993	11/2/1993	3/28/1994	4/11/1994
	SAMPLE TIME	15:30	15:00	14:50	16:15	17:30	17:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	92-4288	92-6830	93-7718	93-9139	94-502009	94-591011
	SAMPLE NUMBER	AEH-9204-136	EHC-9211-130	EHC-9305-105	EHC-9311-148	AHCL-9403-117	AHCL-9404-160
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)(D)		29 J	24 J		
Chloride (Cl) (D)	2.3 J	2.9 J	2.1	2.8 J	
Magnesium (Mg) (Dis)(D)		6.5	5.3 J		
Potassium (K) (Dis)(D)		<5	<5		
Sodium (Na) (Dis)(D)		14	8.7 J		
Sulfate (SO4) (D)	43 J	48 J	37	44 J	
Total Hardness As CaCO3 (D)			82		

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.006	0.006 J	0.005	0.004	0.007	0.005
Arsenic (As) (TOT)(D)	0.006	0.006 J	0.006	0.004	0.005	0.008
Cadmium (Cd) (DIS)(D)	0.001	<0.001	<0.001	0.001 U	<0.001	0.002
Cadmium (Cd) (TOT)(D)	0.001	0.001	0.001	0.001 U	<0.001	0.004
Copper (Cu) (DIS)(D)	<0.004	<0.004	<0.004	<0.004	<0.004	0.005
Copper (Cu) (TOT)(D)	<0.004	<0.004	0.004	<0.004	0.004	0.008
Lead (Pb) (DIS)(D)	<0.005	<0.005 UJ	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	<0.005	<0.005 UJ	<0.005	<0.005	0.005	0.01
Zinc (Zn) (DIS)(D)	0.02	<0.006	0.04	0.05	0.03	0.02 U
Zinc (Zn) (TOT)(D)	0.03	0.02	0.05	0.07	0.04	0.1

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)			10.8			
pH (D)	8.04	9.1				
Flow (D)	42.6	28.7	90.7	80.2	42.5	83.8
pH (Fld) (D)	8.4	7.8	8.2	8.2	8.4	8.6
SC (umhos/cm at 25 C) (Fld) (D)	225	248	200	226	263	219
SC (umhos/cm at 25 C) (D)	224	245	175	225 J		
Total Suspended Solids (D)					3.8	11
TDS (Measured at 180 C) (D)	151 J	210	144	148	175	161
Water Temperature (C) (Fld) (D)	11.2	5	7.8	3.7	5.6	9.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	5/5/1994	5/5/1994	5/17/1994	5/19/1994	5/24/1994	5/26/1994
	SAMPLE TIME	16:45	17:00	17:00	14:00	13:45	14:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-747007	94-1110	94-798007	94-816007	94-831007	94-851007
	SAMPLE NUMBER	AHCL-9405-206	EHC-9405-152	AHCL-9405-221	AHCL-9405-235	AHCL-9405-246	AHCL-9405-261
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl) (D)	1.9
Sulfate (SO4) (D)	32 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	<0.005	<0.004	<0.005	<0.005	<0.005	<0.005
Arsenic (As) (TOT)(D)	0.005	0.006	0.007 U	0.008 U	0.005	0.005
Cadmium (Cd) (DIS)(D)	0.001	0.001	0.001 U	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)(D)	0.002	0.002	0.001 U	0.002	<0.001	0.001
Copper (Cu) (DIS)(D)	0.005	0.005	0.005 U	0.005	0.005	0.02 U
Copper (Cu) (TOT)(D)	0.01	0.01	0.01 U	0.01	0.007	0.02 U
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.01 J	0.008 J	0.01	0.02	0.006	0.009
Zinc (Zn) (DIS)(D)	0.07	0.07	0.04 U	0.08	0.04 U	0.04 U
Zinc (Zn) (TOT)(D)	0.1	0.1 J	0.09	0.2	0.09	0.09

**Physical/Fld-Lab: ppm unless noted**

Flow (D)	163.08	163.08	182.8	235.02	310.5	
pH (Fld) (D)	7.9	7.9	7.8	7.5	8.5	8.3
SC (umhos/cm at 25 C) (Fld) (D)	157	245	142	153	143	172
SC (umhos/cm at 25 C) (D)		172 J				
Total Suspended Solids (D)	12		9.3	27	11	7.8
TDS (Measured at 180 C) (D)	120	134 J	122	120	125	135
Water Temperature (C) (Fld) (D)	10.7	10.7	10.2	7.5	12.1	13.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	5/31/1994	6/2/1994	6/6/1994	6/13/1994	7/12/1994	8/19/1994
	SAMPLE TIME	14:15	14:00	14:00	13:45	14:30	14:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-873007	94-893007	94-917007	94-959007	94-1209007	94-1504016
	SAMPLE NUMBER	AHCL-9405-106	AHCL-9406-106	AHCL-9406-206	AHCL-9406-306	AHCL-9407-106	AHCL-9408-321
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)(D)	0.007 U	<0.005	<0.005	<0.005	0.02 U	0.009 U	
Arsenic (As) (TOT)(D)	0.007	0.007	0.005	0.005	0.006	0.006	
Cadmium (Cd) (DIS)(D)	0.001 U	<0.001	0.001	<0.001	0.001 U	0.003 U	
Cadmium (Cd) (TOT)(D)	0.001	0.001	0.001	0.001	0.001	<0.001	
Copper (Cu) (DIS)(D)	0.005	<0.004	<0.004	<0.004	<0.004	<0.004	
Copper (Cu) (TOT)(D)	0.009	0.006	0.007	0.007	<0.004	<0.004	
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Lead (Pb) (TOT)(D)	0.01	0.007	0.006	0.008	<0.005	<0.005	
Zinc (Zn) (DIS)(D)	0.03 U	0.05	0.04 U	0.05	0.05	0.03 U	
Zinc (Zn) (TOT)(D)	0.08	0.07	0.09	0.09	0.07	0.05 U	
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld) (D)							6.9
Eh (millivolts) (D)							0.0
Flow (D)	133.3	135.4	101.8	97.2	58.4		26.02
pH (Fld) (D)	8	7.8	8.02	8.2	8.5		8.2
SC (umhos/cm at 25 C) (Fld) (D)	162	157	185	193	219		303
Total Suspended Solids (D)	16	6.7	20	10	1.7		8.2 J
TDS (Measured at 180 C) (D)	120	125	140	158	156		191 J
Water Temperature (C) (Fld) (D)	11.3	12.2	14.7	12.8	16.9		21.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	9/27/1994	10/21/1994	10/21/1994	11/8/1994	11/8/1994	1/6/1995
	SAMPLE TIME	18:10	12:45	14:00	12:30	12:50	13:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1778014	94-1932024	94-1932025	94-3243	94-3244	95-79005
	SAMPLE NUMBER	AHCL-9409-421	AHCL-9410-320	AHCL-9410-325	EHC-9411-154	EHC-9411-160	EPPC-9501-100
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate		Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)(D)	31	30	31			35
Chloride (Cl) (D)				3.6	3.7	
Magnesium (Mg) (DIS)(D)	7.8	7.1	7.4			8.7
Potassium (K) (DIS)(D)	2.3	3.7 U	3.8 U			
Sodium (Na) (DIS)(D)	17	12	12			
Sulfate (SO4) (D)	48	51	51	53	54	62
Total Hardness As CaCO3 (D)						124

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)(D)						0.1
Arsenic (As) (DIS)(D)	0.006	0.005	<0.005	0.005	0.005	
Arsenic (As) (TOT)(D)	0.007	0.006	0.006	0.005	0.007	
Arsenic (As) (TRC)(D)						<-0.005
Arsenic III (dis)(D)	<0.005	<0.005	<0.005			
Arsenic V (dis)(D)	<0.005	0.006	<0.005			
Beryllium (Be) (TRC)(D)						<-0.001
Cadmium (Cd) (DIS)(D)	<0.001	0.001	<0.001	<0.001	<0.001	
Cadmium (Cd) (TOT)(D)	<0.001	<0.001	<0.001	<0.001	0.001	
Cadmium (Cd) (TRC)(D)						<-0.001
Chromium (Cr) (TRC)(D)						0.001 U
Copper (Cu) (DIS)(D)	<0.004	<0.004	<0.004	<0.004	<0.004	
Copper (Cu) (TOT)(D)	<0.004	<0.004	<0.004	<0.004 J	0.01 J	
Copper (Cu) (TRC)(D)						<-0.008
Iron (Fe) (TOT)(D)	0.1	0.2 J	0.2 J			
Iron (Fe) (TRC)(D)						0.2
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	
Lead (Pb) (TOT)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	
Lead (Pb) (TRC)(D)						<-0.005
Manganese (Mn) (TRC)(D)						0.04
Mercury (Hg) (TRC)(D)						<0.0002
Nickel (Ni) (TRC)(D)						<0.01
Selenium (Se) (TRC)(D)						<0.001
Silver (Ag) (TRC)(D)						<0.002
Thallium (Tl) (TRC)(D)						<0.003
Zinc (Zn) (DIS)(D)	0.02	0.08 U	0.06 U	0.05 U	0.05 U	
Zinc (Zn) (TOT)(D)	0.03	0.06 U	0.06 U	0.07	0.07	
Zinc (Zn) (TRC)(D)						0.06

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N) (D)	<-0.1
Nitrate + Nitrite as N (D)	0.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	9/27/1994	10/21/1994	10/21/1994	11/8/1994	11/8/1994	1/6/1995
	SAMPLE TIME	18:10	12:45	14:00	12:30	12:50	13:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-1778014	94-1932024	94-1932025	94-3243	94-3244	95-79005
	SAMPLE NUMBER	AHCL-9409-421	AHCL-9410-320	AHCL-9410-325	EHC-9411-154	EHC-9411-160	EPPC-9501-100
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate		Field Duplicate	
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld) (D)	6.8	7.9	7.9	12.3	12.3	11.9	
Eh (millivolts) (D)	166	222	222				
Flow (D)	19.3	31.1	31.1	24	24	0.0	
pH (Fld) (D)	8.8	8.4	8.4	8.4	8.4	7.1	
SC (umhos/cm at 25 C) (Fld) (D)	294	239	239	291	291	564	
SC (umhos/cm at 25 C) (D)				296	296		
Total Suspended Solids (D)	3.9	<1	1.4 U				
TDS (Measured at 180 C) (D)	206	192	193	180	186		
Water Temperature (C) (Fld) (D)	15.3	8.8	8.8	2.6	2.6	0.5	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	1/11/1995	1/17/1995	1/19/1995	1/24/1995	1/26/1995	1/30/1995
	SAMPLE TIME	12:20	16:05	13:00	15:15	12:00	15:30
	LAB	TSC-SLC	EL	TSC-SLC	EL	TSC-SLC	EL
	LAB NUMBER	95-79011	9501-306	95-156001	9501-306	95-156008	9501-408
	SAMPLE NUMBER	EPPC-9501-200	EPPC-9501-306	EPPC-9501-300	EPPC-9501-307	EPPC-9501-401	EPPC-9501-408
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Calcium (Ca) (DIS)(D)		30		33		35	
Magnesium (Mg) (DIS)(D)		7.4		8		8.6	
Sulfate (SO4) (D)		54		52		54	
Total Hardness As CaCO3 (D)		106		115		122	
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (TRC)(D)		0.2		<0.1		0.1	
Arsenic (As) (TRC)(D)		<0.005		<0.005		<0.005	
Beryllium (Be) (TRC)(D)		<0.001		<0.001		<0.001	
Cadmium (Cd) (TRC)(D)		<0.001		<0.001		<0.001	
Chromium (Cr) (TRC)(D)		0.002 U		0.001 U		<0.001	
Copper (Cu) (TRC)(D)		<0.008		<0.008		<0.008	
Iron (Fe) (TRC)(D)		0.3		0.1		0.3 J	
Lead (Pb) (TRC)(D)		<0.005		<0.005		0.005	
Manganese (Mn) (TRC)(D)		0.05		0.03		0.05	
Mercury (Hg) (TRC)(D)		<0.0002		<0.0005		<0.0005	
Nickel (Ni) (TRC)(D)		<0.01		<0.01		<0.01	
Selenium (Se) (TRC)(D)		<0.001		0.001 U		<0.001	
Silver (Ag) (TRC)(D)		<0.002		<0.002		<0.002	
Thallium (Tl) (TRC)(D)		<0.003		<0.003		<0.003	
Zinc (Zn) (TRC)(D)		0.06		0.05		0.06	
<b>Nutrients: ppm unless noted</b>							
Total Ammonia (NH3+NH4 as N) (D)		<0.1		<0.1		<0.1	
Nitrate + Nitrite as N (D)		0.3		0.3		0.3	
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld) (D)		12.5	13.4	13.4	14.05	13.4	11.7
Flow (D)		0.0		0.0		0.0	
pH (Fld) (D)		7.01	8.1	8.8	8.3	8.4	8.4
SC (umhos/cm at 25 C) (Fld) (D)		405	350	367	372	302	277
Water Temperature (C) (Fld) (D)		0.1	1.4	2.7	0.2	0.5	2.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	2/1/1995	2/9/1995	2/9/1995	2/15/1995	2/15/1995	2/20/1995
	SAMPLE TIME	16:45	15:00	15:00	11:10	11:10	15:25
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	HYDRO
	LAB NUMBER	95-287005	95-287010	95-287011	95-287016	95-287017	9502-408
	SAMPLE NUMBER	EPPC-9502-101	EPPC-9502-201	EPPC-9502-205	EPPC-9502-301	EPPC-9502-305	EPPC-9502-408
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate		Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
Calcium (Ca) (DIS)(D)		30	32	33	34	34	
Magnesium (Mg) (DIS)(D)		7	7.7	7.9	8.3	8.3	
Sulfate (SO4) (D)		45	55	52	55	54	
Total Hardness As CaCO3 (D)		103	112	114	119	120	
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (TRC)(D)		0.6	0.1	0.2	0.2	0.2	
Arsenic (As) (TRC)(D)		0.01	<0.005	<0.005	<0.005	<0.005	
Beryllium (Be) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	
Cadmium (Cd) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	
Chromium (Cr) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	
Copper (Cu) (TRC)(D)		0.02	<0.008	<0.008	<0.008	0.02	
Iron (Fe) (TRC)(D)		1.2	0.3	0.3	0.3	0.3	
Lead (Pb) (TRC)(D)		0.03	0.007	0.009	0.007	0.008	
Manganese (Mn) (TRC)(D)		0.2	0.06	0.06	0.05	0.05	
Mercury (Hg) (TRC)(D)		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Nickel (Ni) (TRC)(D)		<0.01	<0.01	<0.01	<0.01	<0.01	
Selenium (Se) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	
Silver (Ag) (TRC)(D)		<0.002	<0.002	<0.002	<0.002	<0.002	
Thallium (Tl) (TRC)(D)		<0.003	0.003	<0.003	<0.003	<0.003	
Zinc (Zn) (TRC)(D)		0.2	0.09	0.09	0.08	0.08	
<b>Nutrients: ppm unless noted</b>							
Total Ammonia (NH3+NH4 as N) (D)		<0.1	<0.1	<0.1	<0.1	<0.1	
Nitrate + Nitrite as N (D)		0.3	0.3	0.3	0.3	0.3	
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld) (D)		10.9	11.3	11.3	14.2	14.2	12.7
Flow (D)		45.5	32.5	32.5	0.0	0.0	
pH (Fld) (D)		8.5	8.1	8.1	8.06	8.06	8.2
SC (umhos/cm at 25 C) (Fld) (D)		263	308	308	354	354	240
Water Temperature (C) (Fld) (D)		3.4	-1	-1	-5	-5	4.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	2/22/1995	2/22/1995	2/22/1995	2/24/1995	3/2/1995	3/8/1995
	SAMPLE TIME	14:20	14:20	14:40	14:20	14:05	12:00
	LAB	TSC-SLC	TSC-SLC	HYDRO	HYDRO	TSC-SLC	TSC-SLC
	LAB NUMBER	95-363004	95-363005	9502-409	9502-410	95-491002	95-491008
	SAMPLE NUMBER	EPPC-9502-401	EPPC-9502-405	EPPC-9502-409	EPPC-9502-410	EPPC-9503-101	EPPC-9503-201
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)(D)	28	27		34	34
Magnesium (Mg) (DIS)(D)	6.4	6.4		8.6	8.4
Sulfate (SO4) (D)	43	43		50	53
Total Hardness As CaCO3 (D)	96	94		121	120

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)(D)	0.2	0.2		0.2	0.1
Arsenic (As) (TRC)(D)	0.008	0.007		0.006	<0.005
Beryllium (Be) (TRC)(D)	<0.001	<0.001		<0.001	<0.001
Cadmium (Cd) (TRC)(D)	<0.001	<0.001		<0.001	<0.001
Chromium (Cr) (TRC)(D)	<0.001	<0.001		<0.001	<0.001
Copper (Cu) (TRC)(D)	0.009	0.008		<0.008	<0.008
Iron (Fe) (TRC)(D)	0.6	0.6		0.5	0.3
Lead (Pb) (TRC)(D)	0.01	0.02		0.009	0.007
Manganese (Mn) (TRC)(D)	0.1	0.1		0.08	0.05
Mercury (Hg) (TRC)(D)	<0.0005	<0.0005		<0.0005	<0.0005
Nickel (Ni) (TRC)(D)	<0.01	<0.01		<0.01	<0.01
Selenium (Se) (TRC)(D)	<0.001	<0.001		<0.001	<0.001
Silver (Ag) (TRC)(D)	<0.002	<0.002		<0.002	<0.002
Thallium (Tl) (TRC)(D)	0.003	<0.003		<0.005	<0.005
Zinc (Zn) (TRC)(D)	0.1	0.1		0.08 U	0.07

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N) (D)	<0.1	<0.1		<0.1	<0.1
Nitrate + Nitrite as N (D)	0.2	0.3		0.3	0.3

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	12.4	12.4	12.4	11.6	12.7	12.4
Flow (D)	55.1	55.1	55.1			
pH (Fld) (D)	8.3	8.3	8.3	8.6	8.2	8
SC (umhos/cm at 25 C) (Fld) (D)	178	178	178	274	369	390
Water Temperature (C) (Fld) (D)	3.5	3.5	3.5	5.2	1.5	1.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	3/16/1995	3/23/1995	3/28/1995	3/28/1995	4/7/1995	4/13/1995
	SAMPLE TIME	16:30	14:50	18:00	18:30	15:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-595002	95-595008	95-616017	95-595014	95-733001	95-733007
	SAMPLE NUMBER	EPPC-9503-301	EPPC-9503-401	AHCL-9503-120	EPPC-9503-501	EPPC-9504-100	EPPC-9504-200
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Calcium (Ca) (DIS)(D)		28	29	30	29	25	23
Magnesium (Mg) (DIS)(D)		6.7	6.8	7.1	6.8	5.8	5.4
Potassium (K) (DIS)(D)				3			
Sodium (Na) (DIS)(D)				15			
Sulfate (SO4) (D)		43	44	47	41	37	36
Total Hardness As CaCO3 (D)		98	100		100	87	80
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (TRC)(D)		0.2	<0.1		<0.1	0.3	0.5
Arsenic (As) (DIS)(D)				0.005			
Arsenic (As) (TOT)(D)				0.005			
Arsenic (As) (TRC)(D)		<0.005	<0.005		0.005	<0.005	<0.005
Arsenic III (dis)(D)				<0.004			
Arsenic V (dis)(D)				0.004			
Beryllium (Be) (TRC)(D)		<0.001	<0.001		<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)(D)				<0.001			
Cadmium (Cd) (TOT)(D)				<0.002			
Cadmium (Cd) (TRC)(D)		<0.001	<0.001		<0.001	<0.001	<0.001
Chromium (Cr) (TRC)(D)		<0.001	<0.001		<0.001	<0.001	<0.001
Copper (Cu) (DIS)(D)				0.006			
Copper (Cu) (TOT)(D)				0.004			
Copper (Cu) (TRC)(D)		<0.008	<0.008		<0.008	<0.008	<0.008
Iron (Fe) (TRC)(D)		0.3	0.2		0.2	0.5	0.8
Lead (Pb) (DIS)(D)				<0.005			
Lead (Pb) (TOT)(D)				<0.005			
Lead (Pb) (TRC)(D)		0.005	<0.005		<0.005	0.006	0.007
Manganese (Mn) (TRC)(D)		0.04	0.04		0.04	0.05	0.08
Mercury (Hg) (TOT)(D)		<0.0002	<0.0002		<0.0002	<0.0005	<0.0005
Nickel (Ni) (TRC)(D)		<0.01	<0.01		<0.01	<0.01	<0.01
Selenium (Se) (TRC)(D)		<0.001	<0.001		<0.001	<0.001	<0.001
Silver (Ag) (TRC)(D)		<0.002	<0.002		<0.002	<0.002	<0.002
Thallium (Tl) (TRC)(D)		<0.005	<0.005		<0.005	<0.005	<0.005
Zinc (Zn) (DIS)(D)				<0.008			
Zinc (Zn) (TOT)(D)				0.05			
Zinc (Zn) (TRC)(D)		0.05	0.04		0.04	0.04	0.05
<b>Nutrients: ppm unless noted</b>							
Total Ammonia (NH3+NH4 as N) (D)		<0.1	<0.1		<0.1	0.2	<0.1
Nitrate + Nitrite as N (D)		2.8	0.2		0.2	0.1	0.1
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld) (D)		11.9	12.1	12.7	12.7	10.9	10.3
Eh (millivolts) (D)				346			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	3/16/1995	3/23/1995	3/28/1995	3/28/1995	4/7/1995	4/13/1995
	SAMPLE TIME	16:30	14:50	18:00	18:30	15:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-595002	95-595008	95-616017	95-595014	95-733001	95-733007
	SAMPLE NUMBER	EPPC-9503-301	EPPC-9503-401	AHCL-9503-120	EPPC-9503-501	EPPC-9504-100	EPPC-9504-200
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Flow (D)	42.1	38.2	37.6	37.6	60	74.08
	pH (Fld) (D)	8.09	8.7	8.8	8.8	8.9	8.7
	SC (umhos/cm at 25 C) (Fld) (D)	232	244	240	240	188	185
	Total Suspended Solids (D)			<1			
	TDS (Measured at 180 C) (D)			182 U			
	Water Temperature (C) (Fld) (D)	5.6	5.6	3.2	3.2	8.9	10.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	4/19/1995	4/19/1995	4/24/1995	4/24/1995	5/4/1995	5/4/1995
	SAMPLE TIME	13:05	13:20	15:30	15:45	11:30	11:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-862001	95-862005	95-862007	95-826013	95-4464	95-964003
	SAMPLE NUMBER	EPPC-9504-300	EPPC-9504-304	EPPC-9504-400	AHCL-9504-115	EHC-9505-153	EPPC-9505-103
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)(D)	23	22	22	21.2		23
Chloride (Cl) (D)					2.3	
Magnesium (Mg) (DIS)(D)	5.5	5.2	5.3	5.1		5.6
Potassium (K) (DIS)(D)				2		
Sodium (Na) (DIS)(D)				8.6		
Sulfate (SO4) (D)	35	35	36	35	32	35
Total Hardness As CaCO3 (D)	80	75	77			81

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)(D)	0.2	0.2	0.2			0.3
Arsenic (As) (DIS)(D)				<0.005	0.004	
Arsenic (As) (TOT)(D)				<0.005	0.006 J	
Arsenic (As) (TRC)(D)	<0.005	<0.005	<0.005			0.005
Arsenic III (dis)(D)				<0.004		
Arsenic V (dis)(D)				<0.004		
Beryllium (Be) (TRC)(D)	<0.001	<0.001	<0.001			<0.001
Cadmium (Cd) (DIS)(D)				<0.001	<0.001	
Cadmium (Cd) (TOT)(D)				<0.002	<0.001	
Cadmium (Cd) (TRC)(D)	<0.001	<0.001	<0.001			<0.001
Chromium (Cr) (TRC)(D)	<0.001	<0.001	<0.001			<0.001
Copper (Cu) (DIS)(D)				<0.004	0.005	
Copper (Cu) (TOT)(D)				0.004	0.01	
Copper (Cu) (TRC)(D)						<0.008
Iron (Fe) (TOT)(D)				0.3		
Iron (Fe) (TRC)(D)	0.3	0.3	0.3			0.5
Lead (Pb) (DIS)(D)				<0.005	<0.005	
Lead (Pb) (TOT)(D)				<0.005	0.01	
Lead (Pb) (TRC)(D)	<0.005	<0.005	<0.005			<0.005
Manganese (Mn) (TRC)(D)	0.03	0.04	0.04			0.06
Mercury (Hg) (TOT)(D)	<0.0002	<0.0002	<0.0002			<0.0002
Nickel (Ni) (TRC)(D)	<0.01	<0.01	<0.01			<0.01
Selenium (Se) (TRC)(D)	<0.001	<0.001	<0.001			<0.001
Silver (Ag) (TRC)(D)	<0.002	<0.002	<0.002			<0.002
Thallium (Tl) (TRC)(D)	<0.005	<0.005	<0.005			<0.005
Zinc (Zn) (DIS)(D)				0.04	0.03	
Zinc (Zn) (TOT)(D)				0.05	0.07 J	
Zinc (Zn) (TRC)(D)	0.04	0.04	0.04			0.06

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N) (D)	<0.1	<0.1	<0.1			<0.1
Nitrate + Nitrite as N (D)	0.1	0.1	0.08			0.05

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	4/19/1995	4/19/1995	4/24/1995	4/24/1995	5/4/1995	5/4/1995
	SAMPLE TIME	13:05	13:20	15:30	15:45	11:30	11:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-862001	95-862005	95-862007	95-826013	95-4464	95-964003
	SAMPLE NUMBER	EPPC-9504-300	EPPC-9504-304	EPPC-9504-400	AHCL-9504-115	EHC-9505-153	EPPC-9505-103
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

  

Physical/Fld-Lab: ppm unless noted							
Oxygen (O) (DIS) (Fld) (D)	11.9	11.6	11.6	11.6	10.9	10.9	
pH (D)					7.9		
Eh (millivolts) (D)				0.0			
Flow (D)	68.5	68.5	75.8	75.8	84.03	84.03	
pH (Fld) (D)	8.4	8.4	8.7	8.7	8.4	8.4	
SC (umhos/cm at 25 C) (Fld) (D)	177	181	184	184	198	190	
SC (umhos/cm at 25 C) (D)					194		
Total Suspended Solids (D)				7			
TDS (Measured at 180 C) (D)				143	138		
Water Temperature (C) (Fld) (D)	7.3	7.3	8.2	8.2	8.6	8.6	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	5/11/1995	5/19/1995	5/23/1995	5/25/1995	5/25/1995	6/1/1995
	SAMPLE TIME	15:00	12:10	19:00	14:15	14:30	16:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-964012	95-1075002	95-1057023	95-1075008	95-1075012	95-1198002
	SAMPLE NUMBER	EPPC-9505-201	EPPC-9505-301	AHCL-9505-122	EPPC-9505-401	EPPC-9505-405	EPPC-9506-101
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)(D)	18	13	15.7	14	15	14
Magnesium (Mg) (DIS)(D)	4	3	3.5	3.2	3.4	3
Potassium (K) (DIS)(D)			<2			
Sodium (Na) (DIS)(D)			5.1			
Sulfate (SO4) (D)	25	22	23	23	23	17
Total Hardness As CaCO3 (D)	60	45		47	51	47

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)(D)	1	1.3		0.5	0.6	0.9
Arsenic (As) (DIS)(D)			<0.005			
Arsenic (As) (TOT)(D)			0.005			
Arsenic (As) (TRC)(D)	0.01	0.007 U		<0.005	<0.005	0.006
Arsenic III (dis)(D)			<0.004			
Arsenic V (dis)(D)			0.006			
Beryllium (Be) (TRC)(D)	<0.001	<0.001		<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)(D)			<0.001			
Cadmium (Cd) (TOT)(D)			0.002			
Cadmium (Cd) (TRC)(D)	<0.001	<0.001		<0.001	<0.001	<0.001
Chromium (Cr) (TRC)(D)	<0.001	<0.001		<0.001	<0.001	<0.001
Copper (Cu) (DIS)(D)			<0.004			
Copper (Cu) (TOT)(D)			0.008			
Copper (Cu) (TRC)(D)	0.01	0.01		<0.008	<0.008	0.01
Iron (Fe) (DIS)(D)			0.1			
Iron (Fe) (TOT)(D)			0.8 J			
Iron (Fe) (TRC)(D)	1.7	0.9		0.7	0.7	1.1
Lead (Pb) (DIS)(D)			<0.005			
Lead (Pb) (TOT)(D)			0.008			
Lead (Pb) (TRC)(D)	0.02	0.02		0.009	0.009	0.02
Manganese (Mn) (TRC)(D)	0.2	0.2		0.1	0.1	0.1
Mercury (Hg) (TOT)(D)	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
Nickel (Ni) (TRC)(D)	<0.01	<0.01		<0.01	<0.01	<0.01
Selenium (Se) (TRC)(D)	<0.001	<0.001		<0.001	<0.001	<0.001
Silver (Ag) (TRC)(D)	<0.002	<0.002 J		<0.002	<0.002	<0.002
Thallium (Tl) (TRC)(D)	<0.005	<0.005		<0.005	<0.005	<0.003
Zinc (Zn) (DIS)(D)			0.06			
Zinc (Zn) (TOT)(D)			0.1			
Zinc (Zn) (TRC)(D)	0.1	0.1		0.09	0.09	0.1 U

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N) (D)	<0.1	<0.1		<0.1	<0.1	<0.1
Nitrate + Nitrite as N (D)	0.1	0.1		0.1	0.2	0.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	5/11/1995	5/19/1995	5/23/1995	5/25/1995	5/25/1995	6/1/1995
	SAMPLE TIME	15:00	12:10	19:00	14:15	14:30	16:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-964012	95-1075002	95-1057023	95-1075008	95-1075012	95-1198002
	SAMPLE NUMBER	EPPC-9505-201	EPPC-9505-301	AHCL-9505-122	EPPC-9505-401	EPPC-9505-405	EPPC-9506-101
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld) (D)	11.4	11.3	9.4	10.3	10.3	9.2
	Eh (millivolts) (D)			110			
	Flow (D)	0.0	0.0	0.0	0.0	0.0	
	pH (Fld) (D)	8.3	7.9	7.9	8.5	8.5	7.9
	SC (umhos/cm at 25 C) (Fld) (D)	13.6	128	148	127	127	104
	Total Suspended Solids (D)			1.2 J			
	TDS (Measured at 180 C) (D)			103 J			
	Water Temperature (C) (Fld) (D)	8.5	7.3	11.3	8.8	8.8	15

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	6/8/1995	6/14/1995	6/19/1995	6/19/1995	6/21/1995	6/22/1995
	SAMPLE TIME	14:30	15:15	16:00	16:00	16:50	15:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	HYDRO	HYDRO	TSC-SLC
	LAB NUMBER	95-1198008	95-1329008	95-1280007	9506-406	9506-407	95-1329002
	SAMPLE NUMBER	EPPC-9506-201	EPPC-9506-301	AHCL-9506-118	EPPC-9506-406	EPPC-9506-407	EPPC-9506-401
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Calcium (Ca) (DIS)(D)		15	15	14			16
Magnesium (Mg) (DIS)(D)		3.1	3.5	2.6			3.6
Potassium (K) (DIS)(D)				<2			
Sodium (Na) (DIS)(D)				3.6			
Sulfate (SO4) (D)		18	14	17			17
Total Hardness As CaCO3 (D)		50	51				55
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (TRC)(D)		1.8	1.3				0.8
Arsenic (As) (DIS)(D)				<0.005 UJ			
Arsenic (As) (TOT)(D)				<0.005			
Arsenic (As) (TRC)(D)		0.01	0.008				0.007
Arsenic III (dis)(D)				<0.004			
Arsenic V (dis)(D)				0.005 UJ			
Beryllium (Be) (TRC)(D)		<0.001	<0.001				<0.001
Cadmium (Cd) (DIS)(D)				<0.001			
Cadmium (Cd) (TOT)(D)				0.002			
Cadmium (Cd) (TRC)(D)		<0.001	<0.001				<0.001
Chromium (Cr) (TRC)(D)		0.001	<0.001				0.003
Copper (Cu) (DIS)(D)				0.005			
Copper (Cu) (TOT)(D)				0.02			
Copper (Cu) (TRC)(D)		0.02	0.01				0.01
Iron (Fe) (TOT)(D)				1.2			
Iron (Fe) (TRC)(D)		2.7 J	2				1.2
Lead (Pb) (DIS)(D)				<0.005			
Lead (Pb) (TOT)(D)				0.02			
Lead (Pb) (TRC)(D)		0.04	0.03				0.03
Manganese (Mn) (TRC)(D)		0.2	0.2				0.2
Mercury (Hg) (TOT)(D)		<0.0002	<0.0002				<0.0002
Nickel (Ni) (TRC)(D)		<0.01	<0.01				<0.01
Selenium (Se) (TRC)(D)		<0.001	<0.001				<0.001
Silver (Ag) (TRC)(D)		<0.002	<0.002				<0.002
Thallium (Tl) (TRC)(D)		<0.003	<0.003				<0.003
Zinc (Zn) (DIS)(D)				0.07			
Zinc (Zn) (TOT)(D)				0.1			
Zinc (Zn) (TRC)(D)		0.2	0.1				0.1
<b>Nutrients: ppm unless noted</b>							
Total Ammonia (NH3+NH4 as N) (D)		<0.1	<0.1				<0.1
Nitrate + Nitrite as N (D)		0.2	0.1				0.1
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld) (D)		11	9.2	8.4	9.5	10.2	9.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	6/8/1995	6/14/1995	6/19/1995	6/19/1995	6/21/1995	6/22/1995
	SAMPLE TIME	14:30	15:15	16:00	16:00	16:50	15:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	HYDRO	HYDRO	TSC-SLC
	LAB NUMBER	95-1198008	95-1329008	95-1280007	9506-406	9506-407	95-1329002
	SAMPLE NUMBER	EPPC-9506-201	EPPC-9506-301	AHCL-9506-118	EPPC-9506-406	EPPC-9506-407	EPPC-9506-401
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fld-Lab: ppm unless noted**

Eh (millivolts) (D)				179			
Flow (D)				0.0			
pH (Fld) (D)	7.9	7.7	7.3	7.4	8	8.05	
SC (umhos/cm at 25 C) (Fld) (D)	119	101	159	111	110	120	
Total Suspended Solids (D)			24				
TDS (Measured at 180 C) (D)			93				
Water Temperature (C) (Fld) (D)	6	12.9	12.7	11	11.2	10.2	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	6/23/1995	6/29/1995	7/18/1995	8/16/1995	9/15/1995	10/4/1995
	SAMPLE TIME	15:30	16:30	17:50	18:20	18:30	12:45
	LAB	HYDRO	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	HYDRO
	LAB NUMBER	9506-408	95-1399002	95-1523022	95-1778023	95-2070014	9510-104
	SAMPLE NUMBER	EPPC-9506-408	EPPC-9506-501	AHCL-9507-121	AHCL-9508-121	AHCL-9509-121	EPPC-9510-104
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)(D)	18
Magnesium (Mg) (DIS)(D)	4
Sulfate (SO4) (D)	19
Total Hardness As CaCO3 (D)	60

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)(D)	0.3			
Arsenic (As) (DIS)(D)		<0.005	0.006	0.007
Arsenic (As) (TOT)(D)		0.007	0.008	0.008
Arsenic (As) (TRC)(D)	0.006			
Beryllium (Be) (TRC)(D)	<0.001			
Cadmium (Cd) (DIS)(D)		<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)(D)		<0.001	<0.001 J	<0.001
Cadmium (Cd) (TRC)(D)	<0.001			
Chromium (Cr) (TRC)(D)	<0.001			
Copper (Cu) (DIS)(D)		<0.008	<0.004	0.006
Copper (Cu) (TOT)(D)		0.01	0.005	0.009
Copper (Cu) (TRC)(D)	<0.008			
Iron (Fe) (TRC)(D)	0.6			
Lead (Pb) (DIS)(D)		<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)		0.01	<0.005	0.005
Lead (Pb) (TRC)(D)	0.01 UJ			
Manganese (Mn) (TRC)(D)	0.1			
Mercury (Hg) (TOT)(D)	<0.0002			
Nickel (Ni) (TRC)(D)	<0.01			
Selenium (Se) (TRC)(D)	<0.001			
Silver (Ag) (TRC)(D)	<0.002			
Thallium (Tl) (TRC)(D)	<0.003			
Zinc (Zn) (DIS)(D)		0.05	0.04	0.05
Zinc (Zn) (TOT)(D)		0.06	0.06	0.07
Zinc (Zn) (TRC)(D)	0.09 J			

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N) (D)	<0.1
Nitrate + Nitrite as N (D)	0.09

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	10.1	10.2	8.2	7.7	9.04
Eh (millivolts) (D)			40	29	97
Flow (D)			121.7	43.8	40.8
pH (Fld) (D)	7.8	7.7	7.7	8	8.3
SC (umhos/cm at 25 C) (Fld) (D)	157	125	168	225	246

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	6/23/1995	6/29/1995	7/18/1995	8/16/1995	9/15/1995	10/4/1995
	SAMPLE TIME	15:30	16:30	17:50	18:20	18:30	12:45
	LAB	HYDRO	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	HYDRO
	LAB NUMBER	9506-408	95-1399002	95-1523022	95-1778023	95-2070014	9510-104
	SAMPLE NUMBER	EPPC-9506-408	EPPC-9506-501	AHCL-9507-121	AHCL-9508-121	AHCL-9509-121	EPPC-9510-104
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

Total Suspended Solids (D)				6.5	2.7 UJ	2.4	
TDS (Measured at 180 C) (D)				112	159	148	
Water Temperature (C) (Fid) (D)	11.8	13.9	19.7	17.5	16.4		8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3	PPC-3	PPC-3	PPC-3	PPC-3
Water	SAMPLE DATE	10/6/1995	10/24/1995	11/7/1995	11/7/1995	5/9/1996
	SAMPLE TIME	16:10	15:00	13:30	13:30	15:00
	LAB	HYDRO	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	9510-108	95-2401024	95-2532019	95-5809	96-6741
	SAMPLE NUMBER	EPPC-9510-108	AHCL-9510-121	AHCL-9511-122	EHC-9511-155	EHC-9605-215
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl) (D)	2.8	1.6
Sulfate (SO4) (D)	51	51

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	<0.005	0.006	0.006	<0.005
Arsenic (As) (TOT)(D)	0.005	0.007	0.005	0.008 J
Cadmium (Cd) (DIS)(D)	<0.001	<0.001 J	0.001	0.002
Cadmium (Cd) (TOT)(D)	0.001	<0.001	0.001	<0.001
Copper (Cu) (DIS)(D)	0.004	<0.008	<0.004	0.005
Copper (Cu) (TOT)(D)	0.02 U	<0.008	0.005	0.009
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	<0.005	<0.005	0.006 J	0.01
Zinc (Zn) (DIS)(D)	0.07	0.07	0.08	0.1
Zinc (Zn) (TOT)(D)	0.08	0.07	0.08	0.2

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	10.7	11.3		10.4
pH (D)			7.5	8.2
Eh (millivolts) (D)	188	195		362
Flow (D)	45.4	41		57.7
pH (Fld) (D)	7.05	7.09	7.09	8.3
SC (umhos/cm at 25 C) (Fld) (D)	239	245	245	266
SC (umhos/cm at 25 C) (D)			260	240
Total Suspended Solids (D)	2.3	1.7		5.3 J
TDS (Measured at 180 C) (D)	165	184	159	162
Water Temperature (C) (Fld) (D)	8	7.1	2.6	7.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-30A	PPC-30A	PPC-30A	PPC-30A	PPC-30A
Water	SAMPLE DATE	10/15/1986	10/15/1986	5/8/1987	5/8/1987	8/18/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	RMAL	TSC-SLC	CHMTC	TSC-SLC	TSC-SLC
	LAB NUMBER	8610-132	86-6939	8705-105	87-3120	87-6855
	SAMPLE NUMBER	AEH-8610-132	AEH-8610-132	AEH-8705-105	AEH-8705-105	AEH-8708-55
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Split		Split		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	<5 M	94		70 M	97
Calcium (Ca) (DIS)(D)	29.9		21.4		
Carbonate As CO3 (D)	<5 M				
Chloride (Cl) (D)	4.5		15		
Magnesium (Mg) (DIS)(D)	7.08		5		
Potassium (K) (DIS)(D)	2.6		1.6		
Sodium (Na) (DIS)(D)	11.9		10.6		
Sulfate (SO4) (D)	47	50	10 M	36	34
Total Alkalinity As CaCO3 (D)			60		

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	<0.01	<0.006	<0.009	0.02 M	0.02
Arsenic (As) (TOT)(D)	<0.01	<0.006	<0.009	0.03	0.03
Cadmium (Cd) (DIS)(D)	<0.005	<0.001	<0.004	0.001	0.001
Cadmium (Cd) (TOT)(D)	<0.005	<0.001	<0.004	0.001	0.001
Copper (Cu) (DIS)(D)	<0.004		0.04		
Copper (Cu) (TOT)(D)	0.005		0.03		
Iron (Fe) (DIS)(D)	0.04	0.08	<0.1 M	0.05	0.05
Iron (Fe) (TOT)(D)	0.2	0.3	0.6	0.6	0.6
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.003	<0.005	0.01 M
Lead (Pb) (TOT)(D)	<0.005	0.005	0.05	0.01	0.07
Manganese (Mn) (DIS)(D)	0.07		0.05		
Manganese (Mn) (TOT)(D)	0.07		0.09		
Zinc (Zn) (DIS)(D)	0.05	0.05	0.03	0.03	0.04
Zinc (Zn) (TOT)(D)	0.07	0.07	0.1 M	0.08	0.06

**Physical/Fid-Lab: ppm unless noted**

pH (D)		7.8		8.08 M	7.8
Flow (D)		15.2		24.3	22.6
pH (Fid) (D)	8.3	8.3	7.2	7.2	7.7
SC (umhos/cm at 25 C) (Fid) (D)	261	260	185.2	185.2	226.2
SC (umhos/cm at 25 C) (D)		273		180	231
Total Suspended Solids (D)					6.4
TDS (Measured at 180 C) (D)	205	212	142	147	156.4 M
Water Temperature (C) (Fid) (D)	6.5	6.5	12	12	17

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-31A	PPC-31A	PPC-31A	PPC-31A	PPC-31A	PPC-31A
Water	SAMPLE DATE	10/15/1986	5/8/1987	5/8/1987	5/8/1987	5/8/1987	8/18/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	CHMTC	TSC-SLC	CHMTC	TSC-SLC	TSC-SLC
	LAB NUMBER	86-6938	8705-106	87-3127	8705-126	87-3123	87-6861
	SAMPLE NUMBER	AEH-8610-133	AEH-8705-106	AEH-8705-106	AEH-8705-126	AEH-8705-126	AEH-8708-56
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Split		Field Duplicate	Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3) (D)	96		72 M				98
Calcium (Ca) (DIS)(D)		21.5		22.2			
Chloride (Cl) (D)		10					
Magnesium (Mg) (DIS)(D)		4.9		5.02			
Potassium (K) (DIS)(D)		1.8		1.8			
Sodium (Na) (DIS)(D)		10		10.4			
Sulfate (SO4) (D)	50 M	29.2	32				36
Total Alkalinity As CaCO3 (D)		60					
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)(D)	<0.006	<0.009	0.008 M	0.01	0.01	0.007	
Arsenic (As) (TOT)(D)	0.006	0.02	0.009	0.02 M	0.01	0.008	
Cadmium (Cd) (DIS)(D)	<0.001	<0.004	0.001	<0.004	0.001	<0.001	
Cadmium (Cd) (TOT)(D)	<0.001	0.006 M	0.003 M	<0.004	0.001	<0.001	
Copper (Cu) (DIS)(D)		0.03		0.02			
Copper (Cu) (TOT)(D)		0.03		0.04			
Iron (Fe) (DIS)(D)	0.09	<0.1	0.05 M	<0.1	0.08	0.05	
Iron (Fe) (TOT)(D)	0.3	0.5	0.4	0.4	0.3	0.2	
Lead (Pb) (DIS)(D)	<0.005	0.005	<0.005	0.009	0.008 M	0.005	
Lead (Pb) (TOT)(D)	0.02	0.04	0.02	0.07 M	0.02 M	0.006	
Manganese (Mn) (DIS)(D)		0.1		0.1			
Manganese (Mn) (TOT)(D)		0.1		0.1			
Zinc (Zn) (DIS)(D)	0.04 M	0.02	0.02	0.03	0.03	0.03	
Zinc (Zn) (TOT)(D)	0.06	0.06	0.05	0.1 M	0.05	0.04	
<b>Physical/Fld-Lab: ppm unless noted</b>							
pH (D)	7.8		8.02			7.9	
Flow (D)	24		54.5		54.5	10.2	
pH (Fld) (D)	7.8	7.3	7.3	7.5	7.5	8.2 M	
SC (umhos/cm at 25 C) (Fld) (D)	263 M	192.8	192.8	192.7	192.7	228.4	
SC (umhos/cm at 25 C) (D)	275		185			235	
Total Suspended Solids (D)						4.6	
TDS (Measured at 180 C) (D)	220 M	168	134			144 M	
Water Temperature (C) (Fld) (D)	7					17	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-32A	PPC-32A	PPC-32A	PPC-33A	PPC-33A
Water	SAMPLE DATE	10/15/1986	5/7/1987	8/18/1987	10/15/1986	10/15/1986
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	RMAL	TSC-SLC
	LAB NUMBER	86-6937	87-3037	87-6862	8610-135	86-6957
	SAMPLE NUMBER	AEH-8610-134	AEH-8705-108	AEH-8708-58	AEH-8610-135	AEH-8610-135
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS				Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)(D)	94	72 M	98		99
Calcium (Ca) (DIS)(D)				30.2	
Magnesium (Mg) (DIS)(D)				7.08	
Potassium (K) (DIS)(D)				2.6	
Sodium (Na) (DIS)(D)				12.8	
Sulfate (SO4) (D)	50 M	32	34		76 M

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.009	0.01	0.02 M	0.01	<0.006
Arsenic (As) (TOT)(D)	0.02	0.02	0.02 M	0.01	0.01
Cadmium (Cd) (DIS)(D)	<0.001	<0.001	<0.001	<0.005	<0.001
Cadmium (Cd) (TOT)(D)	0.001	0.001	<0.001	<0.005	<0.001
Copper (Cu) (DIS)(D)				<0.004	
Copper (Cu) (TOT)(D)				0.007	
Iron (Fe) (DIS)(D)	0.05	0.08 M	0.06	<0.03 M	0.08
Iron (Fe) (TOT)(D)	0.3 M	0.3	0.3	0.2	0.3
Lead (Pb) (DIS)(D)	<0.005	<0.005 M	0.01 M	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.01 M	0.03 M	0.02	0.01	0.01
Manganese (Mn) (DIS)(D)				0.08	
Manganese (Mn) (TOT)(D)				0.1	
Zinc (Zn) (DIS)(D)	0.04 M	0.03	0.03	0.04	0.05
Zinc (Zn) (TOT)(D)	0.05	0.09 M	0.05	0.07	0.06

**Physical/Fld-Lab: ppm unless noted**

pH (D)	7.8	8 M	7.8		7.8
Flow (D)	41.1	69.5	34.9		41.7
pH (Fld) (D)	8.1	8.2	7.5 M	8.3	8.3
SC (umhos/cm at 25 C) (Fld) (D)	260	184.7	226.3	263.8	259
SC (umhos/cm at 25 C) (D)	278	192	235		275
Total Suspended Solids (D)			5.7		
TDS (Measured at 180 C) (D)	218 M	163	162 M		186
Water Temperature (C) (Fld) (D)	8 M	17	16	8.5	8.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-33A	PPC-33A	PPC-33A	PPC-34A
Water	SAMPLE DATE	5/7/1987	5/7/1987	8/18/1987	5/7/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00
	LAB	CHMTC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8705-109	87-3038	87-6859	87-3043
	SAMPLE NUMBER	AEH-8705-109	AEH-8705-109	AEH-8708-59	AEH-8705-116
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS	Split			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)		70 M	98	66 M
Calcium (Ca) (DIS)(D)	21.2			
Chloride (Cl) (D)	10			
Magnesium (Mg) (DIS)(D)	4.8			
Potassium (K) (DIS)(D)	1.8			
Sodium (Na) (DIS)(D)	11.1			
Sulfate (SO4) (D)	<10	32	34	32
Total Alkalinity As CaCO3 (D)	62			

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.03 M	0.01	0.02	0.01
Arsenic (As) (TOT)(D)	0.01	0.02	0.03 M	0.01
Cadmium (Cd) (DIS)(D)	0.008 M	0.001	<0.001	0.001
Cadmium (Cd) (TOT)(D)	<0.004	0.002	0.001	0.003
Copper (Cu) (DIS)(D)	0.03			
Copper (Cu) (TOT)(D)	0.03			
Iron (Fe) (DIS)(D)	0.08	0.08	0.07	0.07
Iron (Fe) (TOT)(D)	0.4	0.4	0.3	0.4
Lead (Pb) (DIS)(D)	0.005	<0.005 M	0.01 M	<0.005 M
Lead (Pb) (TOT)(D)	0.06 M	0.03 M	0.02	0.03 M
Manganese (Mn) (DIS)(D)	0.07			
Manganese (Mn) (TOT)(D)	0.1			
Zinc (Zn) (DIS)(D)	0.02	0.03	0.03	0.03
Zinc (Zn) (TOT)(D)	0.07	0.06	0.05 M	0.06

**Physical/Fld-Lab: ppm unless noted**

pH (D)		8.03 M	7.8	7.9
Flow (D)		65.2	37.9	0.01
pH (Fld) (D)	8.3	8.3	7.9 M	8.5
SC (umhos/cm at 25 C) (Fld) (D)	186.6	186.6	224.7	189
SC (umhos/cm at 25 C) (D)		192	235	194
Total Suspended Solids (D)			5.4	
TDS (Measured at 180 C) (D)	193	169	165 M	178
Water Temperature (C) (Fld) (D)	16.5	16.5	15.5	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-35A	PPC-35A	PPC-35A	PPC-35A	PPC-35A
Water	SAMPLE DATE	10/16/1986	10/16/1986	5/7/1987	5/7/1987	8/18/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	RMAL	TSC-SLC	CHMTC	TSC-SLC	TSC-SLC
	LAB NUMBER	8610-137	86-6950	8705-117	87-3116	87-6868
	SAMPLE NUMBER	AEH-8610-137	AEH-8610-137	AEH-8705-117	AEH-8705-117	AEH-8708-66
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Split		Split		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	82	98		63 M	102
Calcium (Ca) (DIS)(D)	31.2		21		
Carbonate As CO3 (D)	<5				
Chloride (Cl) (D)	4		10		
Magnesium (Mg) (DIS)(D)	7.4		4.8		
Potassium (K) (DIS)(D)	2.7		1.8		
Sodium (Na) (DIS)(D)	12.7		10.3		
Sulfate (SO4) (D)	51	48	19.8 M	34	40
Total Alkalinity As CaCO3 (D)			56		

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.01	<0.006	0.02	0.01	0.02
Arsenic (As) (TOT)(D)	0.01	0.009	<0.009	0.01	0.02 M
Cadmium (Cd) (DIS)(D)	<0.005	0.001	<0.004	0.001	0.001
Cadmium (Cd) (TOT)(D)	<0.005	<0.001	<0.004	0.002	0.001
Copper (Cu) (DIS)(D)	<0.004		<0.02		
Copper (Cu) (TOT)(D)	0.006		0.03		
Iron (Fe) (DIS)(D)	0.08	0.09	<0.1	0.06	0.07
Iron (Fe) (TOT)(D)	0.3	0.3	0.5	0.5	0.3
Lead (Pb) (DIS)(D)	<0.005	<0.005	0.004	<0.005	0.009 M
Lead (Pb) (TOT)(D)	0.01	0.01	0.02	0.02	0.02
Manganese (Mn) (DIS)(D)	0.08		0.07		
Manganese (Mn) (TOT)(D)	0.1		0.1		
Zinc (Zn) (DIS)(D)	0.05	0.05	0.03	0.03	0.03
Zinc (Zn) (TOT)(D)	0.07	0.07	0.07	0.06	0.05 M

**Physical/Fid-Lab: ppm unless noted**

pH (D)		7.7		8.1 M	7.8
Flow (D)		2.2		47.8	22.5
pH (Fid) (D)		8.06	8.3	8.3	6.9 M
SC (umhos/cm at 25 C) (Fid) (D)	260.4	262	191.6	191.6	231.5
SC (umhos/cm at 25 C) (D)		275		182 M	235
Total Suspended Solids (D)					4.3
TDS (Measured at 180 C) (D)	190	214	160	138	154
Water Temperature (C) (Fid) (D)	5	5	14.5	14.5	13.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-36A	PPC-36A	PPC-36A	PPC-37A	PPC-37A
Water	SAMPLE DATE	10/16/1986	5/7/1987	8/18/1987	5/7/1987	8/18/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	86-6949	87-3048	87-6867	87-3047	87-6865
	SAMPLE NUMBER	AEH-8610-138	AEH-8705-118	AEH-8708-67	AEH-8705-120	AEH-8708-69
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)(D)	99	76 M	98	76 M	97
Sulfate (SO4)(D)	48 M	32	36	34	38

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.006	0.01	0.02 M	0.01	0.02
Arsenic (As) (TOT)(D)	0.01	0.01	0.02 M	0.01	0.02
Cadmium (Cd) (DIS)(D)	0.001	0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)(D)	0.001	0.001	0.001	<0.001	<0.001
Iron (Fe) (DIS)(D)	0.09 M	0.08	0.07	0.07	0.04
Iron (Fe) (TOT)(D)	0.3	0.4 M	0.3	0.4	0.3
Lead (Pb) (DIS)(D)	<0.005	0.006 M	0.007	<0.005 M	0.006
Lead (Pb) (TOT)(D)	0.02 M	0.03 M	0.03	0.02 M	0.02
Zinc (Zn) (DIS)(D)	0.05 M	0.03	0.03	0.03	0.03
Zinc (Zn) (TOT)(D)	0.06	0.06	0.05	0.05	0.05

**Physical/Fld-Lab: ppm unless noted**

pH (D)	7.9	7.9	7.8 M	7.9	7.8
Flow (D)	37.4	19.9	15.9	9.6	9
pH (Fld) (D)	8.6 M	7.6	7.1	7.6	6.7
SC (umhos/cm at 25 C) (Fld) (D)	263	188.8	230.8	191	230.5
SC (umhos/cm at 25 C) (D)	278	198	238	198	239
Total Suspended Solids (D)			3.9		8.2
TDS (Measured at 180 C) (D)	218 M	183	163 M	158	175 M
Water Temperature (C) (Fld) (D)	5.4 M	14	12.5	13	12

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-38A	PPC-38A	PPC-38A	PPC-38A	PPC-3A
Water	SAMPLE DATE	10/16/1986	5/7/1987	8/18/1987	8/18/1987	6/27/1996
	SAMPLE TIME	00:00	00:00	00:00	00:00	13:30
	LAB	TSC-SLC	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC
	LAB NUMBER	86-6948	87-3046	8708-70	87-6864	96-1243027
	SAMPLE NUMBER	AEH-8610-140	AEH-8705-121	AEH-8708-70	AEH-8708-70	EHC-9606-121
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Split		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	99	73 M	78	97
Calcium (Ca) (DIS)(D)			26.7	
Carbonate As CO3 (D)			<5	
Chloride (Cl) (D)			3.2	
Magnesium (Mg) (DIS)(D)			6.3	
Potassium (K) (DIS)(D)			2.9	
Sodium (Na) (DIS)(D)			13.6	
Sulfate (SO4) (D)	51 M	32	40	41

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.01	0.01	0.04	0.04	<0.005
Arsenic (As) (TOT)(D)	0.02	0.01	0.03	0.04	0.007
Cadmium (Cd) (DIS)(D)	<0.001	0.001	0.0006 M	<0.001	0.003
Cadmium (Cd) (TOT)(D)	<0.001	0.001	0.0008 M	0.001	<0.001
Copper (Cu) (DIS)(D)			0.003		<0.008
Copper (Cu) (TOT)(D)			0.009		0.01
Iron (Fe) (DIS)(D)	0.09	0.07	0.04	0.06	
Iron (Fe) (TOT)(D)	0.4 M	0.3	0.3	0.3	
Lead (Pb) (DIS)(D)	<0.005	<0.005 M	0.002 M	0.006	<0.005
Lead (Pb) (TOT)(D)	0.02	0.02 M	0.02	0.02 M	0.02
Manganese (Mn) (DIS)(D)			0.04		
Manganese (Mn) (TOT)(D)			0.06		
Zinc (Zn) (DIS)(D)	0.04 M	0.02	0.03	0.03	0.08
Zinc (Zn) (TOT)(D)	0.06 M	0.05	0.05	0.04	0.2

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)					8.6
pH (D)	7.9	7.9		7.4 M	
Eh (millivolts) (D)					324
Flow (D)	37	9.3		5.9	108.6
pH (Fld) (D)	8.09	7.8	6.7	6.7	8.4
SC (umhos/cm at 25 C) (Fld) (D)	266	200.8 M		248.6	195
SC (umhos/cm at 25 C) (D)	275	202 M		251	
Total Suspended Solids (D)				6.2	12
TDS (Measured at 180 C) (D)	216 M	183	170	172 M	151
Water Temperature (C) (Fld) (D)	6.5 M	13	11	11	16.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3A	PPC-3A	PPC-3A	PPC-3A	PPC-3A	PPC-3A
Water	SAMPLE DATE	9/18/1996	11/7/1996	5/5/1997	11/4/1997	5/14/1998	11/18/1998
	SAMPLE TIME	16:00	15:40	17:10	13:30	14:00	16:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-1924005	96-7758	97-957	188-2689	264-3822	311-4422
	SAMPLE NUMBER	EHC-9609-121	EHC-9611-215	EHC-9705-215	EHC-9711-215	EHC-9805-216	EHC-9811-216
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3) (D)					52	90
	Calcium (Ca) (DIS)(D)					16	26
	Chloride (Cl) (D)		4	<1	3	2	2.4
	Magnesium (Mg) (DIS)(D)					<5	6.1
	Potassium (K) (DIS)(D)					<5	<5
	Sodium (Na) (DIS)(D)					6 J	11
	Sulfate (SO4) (D)		57	38	46	24	42
	Total Alkalinity As CaCO3 (D)					43	74
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)(D)	0.006 J	0.006	<0.005	<0.005	<0.005	0.005 J
	Arsenic (As) (TOT)(D)	0.007 J	0.006	0.008	<0.005	<0.005	0.006
	Arsenic III (dis)(D)		<0.004	<0.005	<0.005	<0.005	<0.005
	Arsenic V (dis)(D)		0.005	<0.005	0.008	<0.005	<0.005
	Cadmium (Cd) (DIS)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Cadmium (Cd) (TOT)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)(D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
	Copper (Cu) (TOT)(D)	0.007	<0.004	0.02	<0.004	0.006	<0.004
	Iron (Fe) (DIS)(D)					0.1 UJ	0.07
	Iron (Fe) (TOT)(D)					0.9	0.2
	Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	0.005	<0.005
	Lead (Pb) (TOT)(D)	<0.005	<0.005	0.02	<0.005	0.02 U	<0.005
	Manganese (Mn) (DIS)(D)					0.02 J	0.03
	Manganese (Mn) (TOT)(D)					0.09	0.05
	Zinc (Zn) (DIS)(D)	0.1	0.08	0.1	0.08	0.04 UJ	0.05
	Zinc (Zn) (TOT)(D)	0.1	0.1	0.2	0.1	0.08 J	0.06
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld) (D)	9.2	11.8	9.1	10.5	12	12.2
	pH (D)		7.8	7.6	8	7.8	7.9
	Eh (millivolts) (D)	262	418	61			215
	Flow (D)	29.3	30.5	107.1	43.9	114.4	34.3
	pH (Fld) (D)	8.1	6.7	7.9	8.3	7.3	8.4
	SC (umhos/cm at 25 C) (Fld) (D)	297	310	180	260	166	297
	SC (umhos/cm at 25 C) (D)		292	178	250	147	254
	Total Suspended Solids (D)	<1	2.2	19	<1		2.4
	TDS (Measured at 180 C) (D)	204	200	124	176	111	184
	Water Temperature (C) (Fld) (D)	12.9	3.7	10.9	9.4	10.2	3.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3A	PPC-3A	PPC-3A	PPC-3A	PPC-3A	PPC-3A
Water	SAMPLE DATE	5/12/1999	11/18/1999	5/10/2000	10/31/2000	5/3/2001	11/16/2001
	SAMPLE TIME	15:45	14:00	13:20	13:15	14:45	12:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	349-4931	L992056007	L000707005	L001833015	L010608004	L011574005
	SAMPLE NUMBER	EHC-9905-216	EHC-9911-158	EHC-0005-156	EHC-0011-158	EHC-0105-191	EHC-0111-188
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	60 J	100	90	126	56	102
Calcium (Ca) (DIS)(D)	19	29	25	28	18	30
Carbonate As CO3 (D)	<1 UJ	<1	<1	<1	<1	<1
Chloride (Cl) (D)	3.4	3.7 J	3	5.1 J	2.8 J	5.1
Magnesium (Mg) (DIS)(D)	<5	7	5.8	6.6	<5	7.2
Potassium (K) (DIS)(D)	<5	<5	<5	<5	<5	<5
Sodium (Na) (DIS)(D)	8.7	15	12	17	6.5	18
Sulfate (SO4) (D)	31	47	41	51	40	48
Total Alkalinity As CaCO3 (D)	49 J	82	74	103	46	84

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)						<0.05
Aluminum (Al) (TOT)(D)						<0.05
Arsenic (As) (DIS)(D)	<0.005	0.005	<0.005	<0.005	<0.005	<0.005
Arsenic (As) (TOT)(D)	<0.005	0.005	<0.005	<0.005	<0.005	<0.005
Arsenic III (dis)(D)	<0.005	<0.005	0.008 U	<0.02	<0.005	<0.005
Arsenic V (dis)(D)	0.007	0.008	0.01 U	0.02	<0.005	0.005
Cadmium (Cd) (DIS)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)(D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)(D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)(D)	0.1 UJ	0.05	<0.05 J	0.2 UJ	<0.05	0.05
Iron (Fe) (TOT)(D)	0.8 J	0.3	0.7 U	0.3 UJ	0.4	0.2
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.007	0.005	<0.005	<0.005	0.005	<0.005
Manganese (Mn) (DIS)(D)	0.02	0.03	0.03	0.02	0.02	0.02
Manganese (Mn) (TOT)(D)	0.05	0.05	0.06	0.03	0.06 UJ	0.03
Zinc (Zn) (DIS)(D)	0.03	0.04	0.03	<0.02	0.03	0.02
Zinc (Zn) (TOT)(D)	0.05	0.05	0.05	0.03	0.05 U	0.02

**Physical/Fid-Lab: ppm unless noted**

Oxidation Reduction Potential (D)						95
Oxygen (O) (DIS) (Fld) (D)	9	11.6	10.2	12.2	8.8	11.9
pH (D)	8	8.2	8	8.2	7.8	7.4
Silicon+Silica (Si+SiO2) (D)						19
Eh (millivolts) (D)	234	431	319	284	233	303
Flow (D)	89.9	22.03	26.7	22.4	85.7	16.4
pH (Fld) (D)	8.7	9.2	8.3	8.1	8.1	8.7
SC (umhos/cm at 25 C) (Fld) (D)	165	275	254	279	181	316
SC (umhos/cm at 25 C) (D)	191	280	243	283	176	285

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3A	PPC-3A	PPC-3A	PPC-3A	PPC-3A	PPC-3A
Water	SAMPLE DATE	5/12/1999	11/18/1999	5/10/2000	10/31/2000	5/3/2001	11/16/2001
	SAMPLE TIME	15:45	14:00	13:20	13:15	14:45	12:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	349-4931	L992056007	L000707005	L001833015	L010608004	L011574005
	SAMPLE NUMBER	EHC-9905-216	EHC-9911-158	EHC-0005-156	EHC-0011-158	EHC-0105-191	EHC-0111-188
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Total Suspended Solids (D)	13	3.6		3	7.8	1.8 J
	TDS (Measured at 180 C) (D)	138	185	174	172	149	186
	Water Temperature (C) (Fld) (D)	9.1	5.7	10.7	8.1	10.6	6.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3A	PPC-3A	PPC-3A	PPC-3A	PPC-3A	PPC-3A
Water	SAMPLE DATE	5/15/2002	11/7/2002	4/30/2003	10/22/2003	4/29/2004	11/4/2004
	SAMPLE TIME	16:30	11:30	14:15	11:15	12:00	12:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	L020363009	L020938005	L030184006	1030589-006	H04040214-010	H04110049-007
	SAMPLE NUMBER	EHC-0205-219	EHC-0211-206	EHC-0304-105	EHC-0310-305	AEH-0404-106	AEH-0411-233
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)				95	81	95
Bicarbonate (HCO3) (D)	65	105	63			
Calcium (Ca) (DIS)				34	25	31
Calcium (Ca) (DIS)(D)	24	29	21			
Carbonate As CO3				<2		
Carbonate As CO3 (D)	<1	<1	<2			
Chloride (Cl)				3.2	5	5 UJ
Chloride (Cl) (D)	2.6	2.1	2.6			
Magnesium (Mg) (DIS)				8	6	7
Magnesium (Mg) (DIS)(D)	5.2	6.8	<5			
Potassium (K) (DIS)				<5	3	3
Potassium (K) (DIS)(D)	<5	<5	<5			
Sodium (Na) (DIS)				17	10	15
Sodium (Na) (DIS)(D)	9.1	15	8.2			
Sulfate (SO4)				59	43	42
Sulfate (SO4) (D)	41	25	29			
Total Alkalinity As CaCO3				95	66	78
Total Alkalinity As CaCO3 (D)	53	86	52			

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)				<0.005	<0.005	<0.005
Arsenic (As) (DIS)(D)		<0.005	<0.005			
Arsenic (As) (TOT)				0.006	<0.005	
Arsenic (As) (TOT)(D)		<0.005	<0.005			
Arsenic (As) (TRC)						<0.005
Arsenic (As) (TRC)(D)	<0.005					
Arsenic III (Dis)						<0.001
Arsenic V (Dis)						0.0032
Cadmium (Cd) (DIS)				<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)(D)		<0.001	<0.001			
Cadmium (Cd) (TOT)				<0.001	<0.001	
Cadmium (Cd) (TOT)(D)		<0.001	<0.001			
Cadmium (Cd) (TRC)						<0.001
Cadmium (Cd) (TRC)(D)	<0.001					
Copper (Cu) (DIS)				<0.004	<0.004	<0.004
Copper (Cu) (DIS)(D)		<0.004	<0.004			
Copper (Cu) (TOT)				<0.004	<0.004	
Copper (Cu) (TOT)(D)		<0.004	0.004			
Copper (Cu) (TRC)						<0.004

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3A	PPC-3A	PPC-3A	PPC-3A	PPC-3A	PPC-3A
Water	SAMPLE DATE	5/15/2002	11/7/2002	4/30/2003	10/22/2003	4/29/2004	11/4/2004
	SAMPLE TIME	16:30	11:30	14:15	11:15	12:00	12:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	L020363009	L020938005	L030184006	1030589-006	H04040214-010	H04110049-007
	SAMPLE NUMBER	EHC-0205-219	EHC-0211-206	EHC-0304-105	EHC-0310-305	AEH-0404-106	AEH-0411-233
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Metals (mg/L): ppm unless noted**

Copper (Cu) (TRC)(D)	<0.004					
Iron (Fe) (DIS)				<0.02	0.09	0.03
Iron (Fe) (DIS)(D)		0.03	0.06			
Iron (Fe) (TOT)				0.17	0.33	
Iron (Fe) (TOT)(D)		0.2	0.4			
Iron (Fe) (TRC)						0.24 J
Iron (Fe) (TRC)(D)	0.4					
Lead (Pb) (DIS)				<0.005	<0.005	<0.005
Lead (Pb) (DIS)(D)		<0.005	<0.005			
Lead (Pb) (TOT)				<0.005	<0.005	
Lead (Pb) (TOT)(D)		<0.005	<0.005			
Lead (Pb) (TRC)						<0.005
Lead (Pb) (TRC)(D)	<0.005					
Manganese (Mn) (DIS)				0.028	0.03	0.03
Manganese (Mn) (DIS)(D)		0.03	0.03			
Manganese (Mn) (TOT)				0.041	0.06	
Manganese (Mn) (TOT)(D)		0.05	0.05			
Manganese (Mn) (TRC)						0.05 J
Manganese (Mn) (TRC)(D)	0.06					
Zinc (Zn) (DIS)				<0.02	0.02	0.03
Zinc (Zn) (DIS)(D)		0.02	0.04			
Zinc (Zn) (TOT)				<0.02	0.03 UJ	
Zinc (Zn) (TOT)(D)		0.03	0.06			
Zinc (Zn) (TRC)						0.04
Zinc (Zn) (TRC)(D)	0.05					

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential (D)	-79.2					
Oxygen (O) (DIS) (Fld)				11.56	8.3	11.73
Oxygen (O) (DIS) (Fld) (D)	10.1	6.8	11.9			
pH				8	8	8
pH (D)	6.8	7.6	6.6			
Flow (cfs)				16.37	46.53	21.21
Flow (D)	69.06	24.1	97.1			
pH (Fld)				8.01	7.14	7.4
pH (Fld) (D)	8.4	6.2	6.6			
SC (umhos/cm at 25 C) (Fld)				322	276	289
SC (umhos/cm at 25 C) (Fld) (D)	193	275	164			
SC (umhos/cm at 25 C)				330	192	281

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3A	PPC-3A	PPC-3A	PPC-3A	PPC-3A	PPC-3A
Water	SAMPLE DATE	5/15/2002	11/7/2002	4/30/2003	10/22/2003	4/29/2004	11/4/2004
	SAMPLE TIME	16:30	11:30	14:15	11:15	12:00	12:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	ELI	ELI
	LAB NUMBER	L020363009	L020938005	L030184006	1030589-006	H04040214-010	H04110049-007
	SAMPLE NUMBER	EHC-0205-219	EHC-0211-206	EHC-0304-105	EHC-0310-305	AEH-0404-106	AEH-0411-233
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fld-Lab: ppm unless noted**

DESCRIPTION	PPC-3A	PPC-3A	PPC-3A	PPC-3A	PPC-3A	PPC-3A
SC (umhos/cm at 25 C) (D)	199	292	191			
Total Suspended Solids				6.5	<10	<10
Total Suspended Solids (D)	5	<1	3.9			
TDS (Measured at 180 C)				209	160	180
TDS (Measured at 180 C) (D)	149	189	148			
Salinity (G/KG) (Fld)				0.1		
Turbidity (NTU) (Fld)				2		
Water Temperature (C) (Fld)				9	7.5	4.3
Water Temperature (C) (Fld) (D)	10.3	3	6.9			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3A	PPC-3A	PPC-3A	PPC-3A	PPC-3A	PPC-3A
Water	SAMPLE DATE	6/9/2005	6/9/2005	11/21/2005	5/12/2006	12/8/2006	6/6/2007
	SAMPLE TIME	12:15	12:30	14:20	12:00	12:30	12:30
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI
	LAB NUMBER	H05060096-006	H05060096-007	H05110173-008	H06050154-007	H06120060-006	H07060063-007
	SAMPLE NUMBER	AEH-0505-305	AEH-0505-306	AEH-0511-234	AEH-0605-239	AEH-0611-240	AEH-0705-306
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION					No Flow-Ice	
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	38 J-	44 J-	95	64	99	51
Calcium (Ca) (DIS)	16	15	35	23	36	15
Chloride (Cl)	1	2	11	3	4	1
Magnesium (Mg) (DIS)	3	3	8	5	7	3
Potassium (K) (DIS)	1 J-	1 J-	2	2	3	2
Sodium (Na) (DIS)	5 J-	5 J-	16	8	15	6
Sulfate (SO4)	26	24	55	32	58	24
Total Alkalinity As CaCO3	31 J-	36 J-	78	52	81	42

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)						<0.1
Aluminum (Al) (TOT)						0.3
Antimony (Sb) (DIS)						<0.005
Antimony (Sb) (TOT)						<0.005
Arsenic (As) (DIS)	<0.005	<0.005	<0.005	<0.002	0.003	<0.005
Arsenic (As) (TOT)			<0.005	0.004	0.004	<0.005
Arsenic (As) (TRC)	<0.005	<0.005				
Barium (Ba) (DIS)						<0.1
Barium (Ba) (TOT)						<0.1
Beryllium (Be) (DIS)						<0.001
Beryllium (Be) (TOT)						<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)			<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TRC)	<0.001	<0.001				
Chromium (Cr) (DIS)						<0.001
Chromium (Cr) (TOT)						<0.001
Cobalt (Co) (DIS)						<0.01
Cobalt (Co) (TOT)						<0.01
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)			<0.004	<0.004	<0.004	0.004
Copper (Cu) (TRC)	0.005	0.005				
Iron (Fe) (DIS)	0.04	0.03	0.05	0.04	0.05	0.06
Iron (Fe) (TOT)			0.24	0.17	0.19	0.53
Iron (Fe) (TRC)	0.65	0.59				
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)			<0.005	<0.005	<0.005	0.007
Lead (Pb) (TRC)	0.009	0.009				
Manganese (Mn) (DIS)	0.02	0.02	0.04	0.03	0.04	0.02
Manganese (Mn) (TOT)			0.06	0.04	0.05	0.06

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3A	PPC-3A	PPC-3A	PPC-3A	PPC-3A	PPC-3A
Water	SAMPLE DATE	6/9/2005	6/9/2005	11/21/2005	5/12/2006	12/8/2006	6/6/2007
	SAMPLE TIME	12:15	12:30	14:20	12:00	12:30	12:30
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI
	LAB NUMBER	H05060096-006	H05060096-007	H05110173-008	H06050154-007	H06120060-006	H07060063-007
	SAMPLE NUMBER	AEH-0505-305	AEH-0505-306	AEH-0511-234	AEH-0605-239	AEH-0611-240	AEH-0705-306
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION					No Flow-Ice	
	REMARKS		Field Duplicate				

**Metals (mg/L): ppm unless noted**

Manganese (Mn) (TRC)	0.06	0.06					
Mercury (Hg) (DIS)							<0.006
Mercury (Hg) (TOT)							<0.006
Nickel (Ni) (DIS)							<0.01
Nickel (Ni) (TOT)							<0.01
Silver (Ag) (DIS)							<0.005
Silver (Ag) (TOT)							<0.005
Thallium (Tl) (DIS)							<0.002
Thallium (Tl) (TOT)							<0.002
Tin (Sn) (DIS)							<0.1
Tin (Sn) (TOT)							<0.1
Vanadium (V) (DIS)							<0.01
Vanadium (V) (TOT)							<0.01
Zinc (Zn) (DIS)	0.04	0.03	0.07	0.04	0.07	0.04	0.04
Zinc (Zn) (TOT)			0.08	0.06	0.08		0.07
Zinc (Zn) (TRC)	0.07	0.07					

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential					94.7		
Oxygen (O) (DIS) (Fld)	10.06		10.85	7.98	12.47		10.27
pH	7.9	7.8	8.1	8	8		7.4
Flow (cfs)				107			
Flow (feet)							236.25
pH (Fld)	7.96		7.67	7.71	7.74		7.75
SC (umhos/cm at 25 C) (Fld)	125		297	183	297		136
SC (umhos/cm at 25 C)	124	124	308	191	319		133
Total Suspended Solids	14	12	<10	<10	<10		<10
TDS (Measured at 180 C)	96	82	206	130	209		103
Water Temperature (C) (Fld)	8.2		3.85	9.17	0.95		9.59

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3A	PPC-3A	PPC-3A	PPC-3A	PPC-4
Water	SAMPLE DATE	10/31/2007	4/30/2008	4/30/2008	10/24/2008	11/6/1984
	SAMPLE TIME	13:00	12:30	12:35	12:15	00:00
	LAB	ELI	ELI	ELI	ELI	TSC-SLC
	LAB NUMBER	H07100380-004	H08040470-007	H08040470-008	H08100323-007	84-10987
	SAMPLE NUMBER	AEH-0711-303	AEH-0805-115	AEH-0805-116	AEH-0811-106	AEH-8411-22
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)		78	78	90	
Bicarbonate (HCO3) (D)					105
Bicarbonate (HCO3) (dis)	120				
Calcium (Ca) (DIS)	33	29	29	27	
Calcium (Ca) (DIS)(D)					32
Chloride (Cl)	5	3	4	4	
Chloride (Cl) (D)					4.9
Magnesium (Mg) (DIS)	8	6	6	6	
Magnesium (Mg) (DIS)(D)					7.8
Potassium (K) (DIS)	3	2	2	2	
Potassium (K) (DIS)(D)					2.6
Sodium (Na) (DIS)	16	11	11	13	
Sodium (Na) (DIS)(D)					13
Sulfate (SO4)	55	39	39	46	
Sulfate (SO4) (D)					48
Total Alkalinity As CaCO3	95	64	64	74	
Total Alkalinity As CaCO3 (D)					86

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		<0.1	<0.1		
Aluminum (Al) (TOT)		0.1	0.1		
Antimony (Sb) (DIS)		<0.005	<0.005		
Antimony (Sb) (TOT)		<0.005	<0.005		
Arsenic (As) (DIS)	<0.005	0.003	0.003	0.004	
Arsenic (As) (DIS)(D)					0.005
Arsenic (As) (TOT)	<0.005	0.004	0.005	0.004	
Arsenic (As) (TOT)(D)					0.008
Barium (Ba) (DIS)		<0.1	<0.1		
Barium (Ba) (TOT)		<0.1	<0.1		
Beryllium (Be) (DIS)		<0.001	<0.001		
Beryllium (Be) (TOT)		<0.001	<0.001		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	
Cadmium (Cd) (DIS)(D)					0.001
Cadmium (Cd) (TOT)	<0.001	<0.001	<0.001	<0.001	
Cadmium (Cd) (TOT)(D)					0.003
Chromium (Cr) (DIS)		<0.001	<0.001		
Chromium (Cr) (TOT)		<0.001	<0.001		
Cobalt (Co) (DIS)		<0.01	<0.01		
Cobalt (Co) (TOT)		<0.01	<0.01		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3A	PPC-3A	PPC-3A	PPC-3A	PPC-4
Water	SAMPLE DATE	10/31/2007	4/30/2008	4/30/2008	10/24/2008	11/6/1984
	SAMPLE TIME	13:00	12:30	12:35	12:15	00:00
	LAB	ELI	ELI	ELI	ELI	TSC-SLC
	LAB NUMBER	H07100380-004	H08040470-007	H08040470-008	H08100323-007	84-10987
	SAMPLE NUMBER	AEH-0711-303	AEH-0805-115	AEH-0805-116	AEH-0811-106	AEH-8411-22
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Field Duplicate		
<b>Metals (mg/L): ppm unless noted</b>						
	Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	
	Copper (Cu) (DIS)(D)					<0.008
	Copper (Cu) (TOT)	<0.004	<0.004	<0.004	<0.004	
	Copper (Cu) (TOT)(D)					0.01
	Iron (Fe) (DIS)	0.07	0.09	0.08	0.07	
	Iron (Fe) (DIS)(D)					0.1
	Iron (Fe) (TOT)	0.13	0.38	0.4	0.15	
	Iron (Fe) (TOT)(D)					0.2
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	
	Lead (Pb) (DIS)(D)					<0.005
	Lead (Pb) (TOT)	<0.005	<0.005	0.007	<0.005	
	Lead (Pb) (TOT)(D)					<0.005
	Manganese (Mn) (DIS)	0.02	0.03	0.02	0.03	
	Manganese (Mn) (DIS)(D)					0.04
	Manganese (Mn) (TOT)	0.02	0.06	0.06	0.04	
	Manganese (Mn) (TOT)(D)					0.05
	Mercury (Hg) (DIS)	<0.006	<0.006	<0.006		
	Mercury (Hg) (TOT)	<0.006	<0.006	<0.006		
	Nickel (Ni) (DIS)		<0.01	<0.01		
	Nickel (Ni) (TOT)		<0.01	<0.01		
	Selenium (Se) (DIS)	<0.005	<0.005	<0.005	<0.005	
	Selenium (Se) (TOT)	<0.005	<0.005	<0.005	<0.005	
	Silver (Ag) (DIS)		<0.005	<0.005		
	Silver (Ag) (TOT)		<0.005	<0.005		
	Thallium (Tl) (DIS)		<0.002	<0.002		
	Thallium (Tl) (TOT)		<0.002	<0.002		
	Vanadium (V) (DIS)		<0.01	<0.01		
	Vanadium (V) (TOT)		<0.01	<0.01		
	Zinc (Zn) (DIS)	0.04	0.03	0.03	0.05	
	Zinc (Zn) (DIS)(D)					0.08
	Zinc (Zn) (TOT)	0.04	0.05	0.05	0.06	
	Zinc (Zn) (TOT)(D)					0.08
<b>Physical/Fid-Lab: ppm unless noted</b>						
	Oxygen (O) (DIS) (Fld)	10.58	9.19	9.19	12.02	
	pH	8	8.1	8	8.2	
	pH (D)					7.9
	Flow (cfs)	20.83	50.03		36.46	
	Flow (D)					32.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-3A	PPC-3A	PPC-3A	PPC-3A	PPC-4
Water	SAMPLE DATE	10/31/2007	4/30/2008	4/30/2008	10/24/2008	11/6/1984
	SAMPLE TIME	13:00	12:30	12:35	12:15	00:00
	LAB	Hydrometrics	Hydrometrics	Hydrometrics	Hydrometrics	TSC-SLC
	LAB NUMBER	H07100380-004	H08040470-007	H08040470-008	H08100323-007	84-10987
	SAMPLE NUMBER	AEH-0711-303	AEH-0805-115	AEH-0805-116	AEH-0811-106	AEH-8411-22
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Field Duplicate		

**Physical/Fid-Lab: ppm unless noted**

pH (Fld)	8	7.82	7.82	7.97	
SC (umhos/cm at 25 C) (Fld)	323	231	231	253	
SC (umhos/cm at 25 C) (Fld) (D)					293.2
SC (umhos/cm at 25 C)	352	223	224	247	
SC (umhos/cm at 25 C) (D)					190
Total Suspended Solids	<10	<10	<10	<10	
TDS (Measured at 180 C)	204	154	158	167	
TDS (Measured at 180 C) (D)					204
Water Temperature (C) (Fld)	5.2	7.41	7.41	4.7	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4
Water	SAMPLE DATE	11/6/1984	1/14/1985	4/3/1985	4/3/1985	5/7/1985	6/5/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	CAL	TSC-SLC	JTC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	S5399	85-534	8504-331	85-2348	85-3497	85-4094
	SAMPLE NUMBER	AEH-8411-22-S	AEH-8501-102	AEH-8504-331	AEH-8504-331	AEH-8505-431	AEH-8506-532
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split		Split			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	116	90
Calcium (Ca) (DIS)(D)	20.8	27.7
Chloride (Cl) (D)	4	2.5
Magnesium (Mg) (DIS)(D)	4.6	5.8
Potassium (K) (DIS)(D)	2.5	2.6
Sodium (Na) (DIS)(D)	22.1	10.8
Sulfate (SO4) (D)	45	42.1
Total Alkalinity As CaCO3 (D)	95	74

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)	0.5	<0.1				
Aluminum (Al) (TOT)(D)	0.2	0.7				
Antimony (Sb) (DIS)(D)	<0.01	<0.04				
Antimony (Sb) (TOT)(D)	<0.01	<0.04				
Arsenic (As) (DIS)(D)	<0.004	0.006	0.007	0.006	0.006	<0.004
Arsenic (As) (TOT)(D)	0.005	0.03	0.01	0.01	0.02	0.007
Barium (Ba) (DIS)(D)	<0.02	0.02				
Barium (Ba) (TOT)(D)	0.02	0.04				
Beryllium (Be) (DIS)(D)	<0.0006	<0.004				
Beryllium (Be) (TOT)(D)	<0.0006	<0.004				
Cadmium (Cd) (DIS)(D)	<0.004	0.005	<0.004	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)(D)	<0.004	0.02	<0.004	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)(D)	0.005	<0.009				
Chromium (Cr) (TOT)(D)	<0.002	<0.009				
Cobalt (Co) (DIS)(D)	<0.007	<0.01				
Cobalt (Co) (TOT)(D)	<0.007	<0.01				
Copper (Cu) (DIS)(D)	<0.001	<0.02				
Copper (Cu) (TOT)(D)	0.005	<0.02				
Iron (Fe) (DIS)(D)	0.4	<0.04				
Iron (Fe) (TOT)(D)	0.3	1.5				
Lead (Pb) (DIS)(D)	<0.003	<0.005	<0.002	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	<0.003	0.1	0.007	0.04	0.01	0.007
Manganese (Mn) (DIS)(D)	0.04	<0.04				
Manganese (Mn) (TOT)(D)	0.05	0.2				
Mercury (Hg) (DIS)(D)	<0.0002	<0.0001				
Mercury (Hg) (TOT)(D)	0.0003	<0.0001				
Nickel (Ni) (DIS)(D)	<0.03	<0.02				
Nickel (Ni) (TOT)(D)	<0.03	<0.02				
Selenium (Se) (DIS)(D)	<0.002	<0.004				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4
Water	SAMPLE DATE	11/6/1984	1/14/1985	4/3/1985	4/3/1985	5/7/1985	6/5/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	CAL	TSC-SLC	JTC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	S5399	85-534	8504-331	85-2348	85-3497	85-4094
	SAMPLE NUMBER	AEH-8411-22-S	AEH-8501-102	AEH-8504-331	AEH-8504-331	AEH-8505-431	AEH-8506-532
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split		Split			

### Metals (mg/L): ppm unless noted

Selenium (Se) (TOT)(D)	<0.002		<0.003			
Silver (Ag) (DIS)(D)	<0.003		<0.007			
Silver (Ag) (TOT)(D)	<0.003		0.008			
Thallium (Tl) (DIS)(D)	<0.002		<0.003			
Thallium (Tl) (TOT)(D)	<0.002		<0.003			
Tin (Sn) (DIS)(D)	<0.04		<0.03			
Tin (Sn) (TOT)(D)	<0.04		<0.03			
Vanadium (V) (DIS)(D)	0.004		<0.02			
Vanadium (V) (TOT)(D)	<0.004		<0.02			
Zinc (Zn) (DIS)(D)	<0.003	0.06	0.02	0.02	0.03	0.04
Zinc (Zn) (TOT)(D)	<0.003	0.2	0.1	0.1	0.1	0.07

### Physical/Fld-Lab: ppm unless noted

pH (D)	8.1	7.7	7.6	7	7.7	7.8
Flow (D)				42.3	25.7	12.5
SC (umhos/cm at 25 C) (Fld) (D)		303		259.9	209.1	220.1
SC (umhos/cm at 25 C) (D)	187	328	217	272	215	237
Total Suspended Solids (D)	4	20	53	44.6	15	6.3
TDS (Measured at 180 C) (D)	190	203	260	172	205	151

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4	
Water	SAMPLE DATE	7/2/1985	7/2/1985	8/5/1985	9/13/1985	9/13/1985	10/15/1986	
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00	
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	
	LAB NUMBER	85-4749	85-4571	85-6038	85-7020	85-7024	86-6924	
	SAMPLE NUMBER	AEH-8507-606	AEH-8507-610	AEH-8508-740	AEH-8509-817	AEH-8509-823	AEH-8610-125	
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	
	GROUP	RI	RI	RI	RI	RI	RI	
	DESCRIPTION							
	REMARKS	Field Duplicate				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)							94
Sulfate (SO4) (D)							48

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.007	0.01	0.02	0.007	0.008	<0.006
Arsenic (As) (TOT)(D)	0.008	0.04	0.02	0.01	0.01	<0.006
Cadmium (Cd) (DIS)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)(D)	<0.001	<0.001	0.001	0.001	0.001	<0.001
Iron (Fe) (DIS)(D)						0.06
Iron (Fe) (TOT)(D)						0.2
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	<0.005	<0.005	0.01	0.02	0.02	<0.005
Zinc (Zn) (DIS)(D)	0.02	0.02	0.05	0.05	0.03	0.05
Zinc (Zn) (TOT)(D)	0.03	0.04	0.08	0.07	0.07	0.07

**Physical/Fld-Lab: ppm unless noted**

pH (D)		8.1	7.7	7.4		7.8 M
Flow (D)		1.9	0.2	15		17
pH (Fld) (D)						8.4
SC (umhos/cm at 25 C) (Fld) (D)		301.9	340.2	274.2	274.4	262
SC (umhos/cm at 25 C) (D)		313	348	257		270
Total Suspended Solids (D)		<1	4.9	6.7		
TDS (Measured at 180 C) (D)		200	237	185		220
Water Temperature (C) (Fld) (D)						6.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4
Water	SAMPLE DATE	5/8/1987	8/18/1987	8/18/1987	1/6/1995	1/11/1995	1/19/1995
	SAMPLE TIME	00:00	00:00	00:00	13:00	12:00	12:30
	LAB	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-3119	8708-54	87-6856	95-79004	95-79010	95-156002
	SAMPLE NUMBER	AEH-8705-104	AEH-8708-54	AEH-8708-54	EPPC-9501-101	EPPC-9501-201	EPPC-9501-301
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Split				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	63 M	78	93			
Calcium (Ca) (DIS)(D)		26.1		36	30	33
Carbonate As CO3 (D)		<5				
Chloride (Cl) (D)		2				
Magnesium (Mg) (DIS)(D)		6.3		8.8	7.4	8
Potassium (K) (DIS)(D)		2.4				
Sodium (Na) (DIS)(D)		11.6				
Sulfate (SO4) (D)	32	40	36	62	54	52
Total Hardness As CaCO3 (D)				125	97	116

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)(D)				0.1	0.1	<0.1
Arsenic (As) (DIS)(D)	0.01	0.006	0.007			
Arsenic (As) (TOT)(D)	0.01	0.006	0.008			
Arsenic (As) (TRC)(D)				<0.005	<0.005	<0.005
Beryllium (Be) (TRC)(D)				<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)(D)	0.001	<0.0002	<0.001			
Cadmium (Cd) (TOT)(D)	0.002	0.0002	<0.001			
Cadmium (Cd) (TRC)(D)				<0.001	<0.001	<0.001
Chromium (Cr) (TRC)(D)				0.002 U	0.002 U	0.001 U
Copper (Cu) (DIS)(D)		<0.002				
Copper (Cu) (TOT)(D)		0.004				
Copper (Cu) (TRC)(D)				<0.008	<0.008	<0.008
Iron (Fe) (DIS)(D)	0.04	0.05	0.04			
Iron (Fe) (TOT)(D)	0.4	0.2	0.2			
Iron (Fe) (TRC)(D)				0.2	0.3	0.2
Lead (Pb) (DIS)(D)	<0.005	0.002 M	0.006			
Lead (Pb) (TOT)(D)	0.01	0.005	0.01			
Lead (Pb) (TRC)(D)				0.005	<0.005	<0.005
Manganese (Mn) (DIS)(D)		0.03 M				
Manganese (Mn) (TOT)(D)		0.05				
Manganese (Mn) (TRC)(D)				0.05	0.05	0.03
Mercury (Hg) (TRC)(D)				<0.0002	<0.0002	<0.0005
Nickel (Ni) (TRC)(D)				<0.01	<0.01	<0.01
Selenium (Se) (TRC)(D)				<0.001	<0.001	<0.001
Silver (Ag) (TRC)(D)				<0.002	<0.002	<0.002
Thallium (Tl) (TRC)(D)				<0.003	<0.003	<0.003
Zinc (Zn) (DIS)(D)	0.03	0.02	0.03 M			
Zinc (Zn) (TOT)(D)	0.07	0.05	0.04			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4
Water	SAMPLE DATE	5/8/1987	8/18/1987	8/18/1987	1/6/1995	1/11/1995	1/19/1995
	SAMPLE TIME	00:00	00:00	00:00	13:00	12:00	12:30
	LAB	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-3119	8708-54	87-6856	95-79004	95-79010	95-156002
	SAMPLE NUMBER	AEH-8705-104	AEH-8708-54	AEH-8708-54	EPPC-9501-101	EPPC-9501-201	EPPC-9501-301
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Split				
<b>Metals (mg/L): ppm unless noted</b>							
	Zinc (Zn) (TRC)(D)				0.07	0.06	0.05
<b>Nutrients: ppm unless noted</b>							
	Total Ammonia (NH3+NH4 as N) (D)				<0.1	<0.1	<0.1
	Nitrate + Nitrite as N (D)				0.3	0.3	0.3
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld) (D)				12	12.7	13.3
	pH (D)	8.1		7.9			
	Flow (D)	31.4		22	0.0	0.0	0.0
	pH (Fld) (D)	7.6 M	8.07	8.07	7.4	7	8.8
	SC (umhos/cm at 25 C) (Fld) (D)	186.9	225.9	225.1	529	355	398
	SC (umhos/cm at 25 C) (D)	180		232			
	Total Suspended Solids (D)			5.04			
	TDS (Measured at 180 C) (D)	153	160	159 M			
	Water Temperature (C) (Fld) (D)	11.4	19.5	17.5	-1	0.4	2.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4
Water	SAMPLE DATE	1/19/1995	1/26/1995	1/26/1995	2/1/1995	2/1/1995	2/9/1995
	SAMPLE TIME	12:30	11:30	11:30	15:40	15:40	14:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-156005	95-156009	95-156012	95-287003	95-287004	95-287009
	SAMPLE NUMBER	EPPC-9501-304	EPPC-9501-402	EPPC-9501-405	EPPC-9502-102	EPPC-9502-105	EPPC-9502-202
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate		Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
Calcium (Ca) (DIS)(D)		33	35	34	30	30	33
Magnesium (Mg) (DIS)(D)		8	8.7	8.5	7.3	7.1	7.7
Sulfate (SO4) (D)		50	54	54	45	46	51
Total Hardness As CaCO3 (D)		115	124	120	105	103	113
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (TRC)(D)		<0.1	0.2	<0.1	0.8	0.8	0.2
Arsenic (As) (TRC)(D)		<0.005	0.005	<0.005	0.008	0.007	<0.005
Beryllium (Be) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (TRC)(D)		<0.001	0.001	0.001	<0.001	<0.001	<0.001
Copper (Cu) (TRC)(D)		<0.008	<0.008	<0.008	0.01	0.01	<0.008
Iron (Fe) (TRC)(D)		0.2	0.3 J	0.2	1.4	1.4	0.4
Lead (Pb) (TRC)(D)		<0.005	0.007	0.01	0.03	0.03	0.007
Manganese (Mn) (TRC)(D)		0.04	0.05	0.05	0.1	0.1	0.06
Mercury (Hg) (TRC)(D)		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel (Ni) (TRC)(D)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver (Ag) (TRC)(D)		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium (Tl) (TRC)(D)		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Zinc (Zn) (TRC)(D)		0.05	0.07	0.06	0.1	0.1	0.08
<b>Nutrients: ppm unless noted</b>							
Total Ammonia (NH3+NH4 as N) (D)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate + Nitrite as N (D)		0.3	0.3	0.3	0.3	0.3	0.3
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld) (D)		13.3	13.4	13.4	11.4	11.4	11.3
Flow (D)		0.0	0.0	0.0	0.0	0.0	0.0
pH (Fld) (D)		8.8	9.2	9.2	8.4	8.4	7.8
SC (umhos/cm at 25 C) (Fld) (D)		398	328	328	268	268	303
Water Temperature (C) (Fld) (D)		2.7	0.1	0.1	4	4	2.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4
Water	SAMPLE DATE	2/15/1995	2/22/1995	3/2/1995	3/2/1995	3/8/1995	3/16/1995
	SAMPLE TIME	10:40	13:20	13:30	13:30	11:40	15:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-287015	95-363003	95-491003	95-491006	95-491009	95-595003
	SAMPLE NUMBER	EPPC-9502-302	EPPC-9502-402	EPPC-9503-102	EPPC-9503-105	EPPC-9503-202	EPPC-9503-302
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
Calcium (Ca) (DIS)(D)		34	28	32	32	35	29
Magnesium (Mg) (DIS)(D)		8.5	6.4	8.2	8.2	8.5	6.8
Sulfate (SO4) (D)		54	44	48	45	53	43
Total Hardness As CaCO3 (D)		121	96	115	115	121	100
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (TRC)(D)		0.1	0.4	0.4	0.4	0.2	0.3
Arsenic (As) (TRC)(D)		<0.005	<0.005	0.007	0.008	0.006	0.005
Beryllium (Be) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (TRC)(D)		<0.008	0.009	<0.008	<0.008	<0.008	<0.008
Iron (Fe) (TRC)(D)		0.3	0.8	0.9	0.8	0.3	0.6
Lead (Pb) (TRC)(D)		0.005	0.02	0.02	0.02	0.008	0.01
Manganese (Mn) (TRC)(D)		0.04	0.1	0.1	0.1	0.05	0.08
Mercury (Hg) (TOT)(D)							<0.0002
Mercury (Hg) (TRC)(D)		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Nickel (Ni) (TRC)(D)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver (Ag) (TRC)(D)		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium (Tl) (TRC)(D)		0.006	<0.003	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (TRC)(D)		0.07	0.1	0.1 U	0.09	0.07	0.07
<b>Nutrients: ppm unless noted</b>							
Total Ammonia (NH3+NH4 as N) (D)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate + Nitrite as N (D)		0.3	0.2	0.3	0.3	0.3	0.2
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld) (D)		14.01	12.4	12.6	12.6	12.4	12.03
Flow (D)		0.0	35.05			0.0	30.6
pH (Fld) (D)		7.1	8.3	8.5	8.5	8.02	8.2
SC (umhos/cm at 25 C) (Fld) (D)		361	187	404	404	384	229
Water Temperature (C) (Fld) (D)		0.0	3.5	0.8	0.8	0.6	6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4
Water	SAMPLE DATE	3/23/1995	3/28/1995	4/7/1995	4/13/1995	4/19/1995	4/24/1995
	SAMPLE TIME	14:00	17:00	14:15	13:00	12:00	14:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-595009	95-595015	95-733002	95-733008	95-862002	95-862008
	SAMPLE NUMBER	EPPC-9503-402	EPPC-9503-502	EPPC-9504-101	EPPC-9504-201	EPPC-9504-301	EPPC-9504-401
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Calcium (Ca) (DIS)(D)		29	29	25	23	22	22
Magnesium (Mg) (DIS)(D)		6.8	7	6	5.4	5.3	5.3
Sulfate (SO4) (D)		43	42	38	36	35	37
Total Hardness As CaCO3 (D)		100	101	87	79	78	76
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (TRC)(D)		<0.1	<0.1	0.3	0.5	0.3	0.3
Arsenic (As) (TRC)(D)		<0.005	<0.005	<0.005	0.01	<0.005	<0.005
Beryllium (Be) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (TRC)(D)		<0.001	<0.001	<0.001	0.001	<0.001	<0.001
Copper (Cu) (TRC)(D)		<0.008	<0.008	<0.008	0.009		
Iron (Fe) (TRC)(D)		0.2	0.2	0.5	0.8	0.3	0.4
Lead (Pb) (TRC)(D)		<0.005	<0.005	0.008	0.009	<0.005	<0.005
Manganese (Mn) (TRC)(D)		0.04	0.04	0.05	0.09	0.04	0.04
Mercury (Hg) (TOT)(D)		<0.0002	<0.0002	<0.0005	<0.0005	<0.0002	<0.0002
Nickel (Ni) (TRC)(D)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver (Ag) (TRC)(D)		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium (Tl) (TRC)(D)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (TRC)(D)		0.04	0.04	0.04	0.05	0.04	0.04
<b>Nutrients: ppm unless noted</b>							
Total Ammonia (NH3+NH4 as N) (D)		<0.1	0.2	0.2	<0.1	<0.1	<0.1
Nitrate + Nitrite as N (D)		0.2	0.2	0.1	0.1	0.1	0.08
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld) (D)		11.9	12.6	11.2	10.4	11.6	12
Flow (D)		27.2	28.5	47.1	58.4	62.9	67.7
pH (Fld) (D)		8.8	8.7	8.9	8.7	8.5	8.8
SC (umhos/cm at 25 C) (Fld) (D)		256	264	193	181	191	188
Water Temperature (C) (Fld) (D)		6	3.4	8.5	10.2	6.3	7.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4
Water	SAMPLE DATE	5/4/1995	5/4/1995	5/11/1995	5/19/1995	5/25/1995	6/1/1995
	SAMPLE TIME	14:25	14:40	14:20	11:25	13:30	15:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-964005	95-964006	95-964011	95-1075003	95-1075009	95-1198003
	SAMPLE NUMBER	EPPC-9505-102	EPPC-9505-104	EPPC-9505-202	EPPC-9505-302	EPPC-9505-402	EPPC-9506-102
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)(D)	24	25	18	14	13	14
Magnesium (Mg) (DIS)(D)	5.6	5.7	4	3.3	3.1	3
Sulfate (SO4) (D)	35	35	25	22	23	17
Total Hardness As CaCO3 (D)	83	86	61	49	46	47

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)(D)	0.3	0.3	1.1	1.3	0.5	0.9
Arsenic (As) (TRC)(D)	0.005	0.007	0.01	0.01 U	<0.005	0.005
Beryllium (Be) (TRC)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TRC)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (TRC)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (TRC)(D)	<0.008	<0.008	0.01	0.01	<0.008	0.01
Iron (Fe) (TRC)(D)	0.5	0.6	1.7	1.4	0.6	1.1
Lead (Pb) (TRC)(D)	0.006	<0.005	0.02	0.02	0.01	0.02
Manganese (Mn) (TRC)(D)	0.06	0.06	0.2	0.2	0.09	0.1
Mercury (Hg) (TOT)(D)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Nickel (Ni) (TRC)(D)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (TRC)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver (Ag) (TRC)(D)	<0.002	<0.002	<0.002	<0.002 J	<0.002	<0.002
Thallium (Tl) (TRC)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (TRC)(D)	0.06	0.06	0.1	0.1	0.09	0.1 U

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N) (D)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate + Nitrite as N (D)	<0.05	<0.05	0.1	0.1	0.2	0.2

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	11.4	11.4	11.5	11.5	10.4	9.3
Flow (D)	77.5	77.5	0.0	0.0	0.0	
pH (Fld) (D)	8.3	8.3	8.3	7.7	8.09	8.01
SC (umhos/cm at 25 C) (Fld) (D)	180	180	135	147	130	111
Water Temperature (C) (Fld) (D)	9.7	9.7	8.7	7.3	9.4	16

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4
Water	SAMPLE DATE	6/1/1995	6/8/1995	6/14/1995	6/22/1995	6/29/1995	10/4/1995
	SAMPLE TIME	15:45	11:30	14:50	15:15	15:45	15:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-1198006	95-1198009	95-1329009	95-1329003	95-1399003	95-2299005
	SAMPLE NUMBER	EPPC-9506-105	EPPC-9506-202	EPPC-9506-302	EPPC-9506-402	EPPC-9506-502	EPPC-9510-105
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)(D)	14	14	14	16	20	28
Magnesium (Mg) (DIS)(D)	2.9	3.1	3.1	3.6	4.5	6.5
Sulfate (SO4) (D)	16	18	14	17	20	40
Total Hardness As CaCO3 (D)	47	48	48	54	68	97

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)(D)	0.9	1.7	1.2	0.8	0.5	0.1
Antimony (Sb) (TRC)(D)						<0.02
Arsenic (As) (DIS)(D)						<0.005
Arsenic (As) (TOT)(D)						0.006
Arsenic (As) (TRC)(D)	0.006	0.01	0.008	<0.005	<0.005	
Beryllium (Be) (TRC)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)(D)						<0.001
Cadmium (Cd) (TOT)(D)						<0.001
Cadmium (Cd) (TRC)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	
Chromium (Cr) (TRC)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper (Cu) (DIS)(D)						<0.008
Copper (Cu) (TOT)(D)						0.008
Copper (Cu) (TRC)(D)	0.01	0.02	0.01	0.01	<0.008	
Iron (Fe) (TRC)(D)	1.2	2.6 J	1.7	1.1	0.7	0.3
Lead (Pb) (DIS)(D)						<0.005
Lead (Pb) (TOT)(D)						0.007
Lead (Pb) (TRC)(D)	0.02	0.04	0.03	0.02	0.02 UJ	
Manganese (Mn) (TRC)(D)	0.1	0.2	0.2	0.2	0.1	0.07
Mercury (Hg) (TOT)(D)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Nickel (Ni) (TRC)(D)	<0.01	<0.01	<0.01	<0.01	<0.01	
Selenium (Se) (TRC)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver (Ag) (TRC)(D)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001
Thallium (Tl) (TRC)(D)	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Zinc (Zn) (DIS)(D)						0.06
Zinc (Zn) (TOT)(D)						0.09
Zinc (Zn) (TRC)(D)	0.1	0.2	0.1	0.1	0.1 J	

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N) (D)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
Nitrate + Nitrite as N (D)	0.2	0.2	0.1	0.1	0.09	0.2

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	9.3	10.9	9.4	9.4	10.2	
Flow (D)					151.5	37

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4
Water	SAMPLE DATE	6/1/1995	6/8/1995	6/14/1995	6/22/1995	6/29/1995	10/4/1995
	SAMPLE TIME	15:45	11:30	14:50	15:15	15:45	15:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-1198006	95-1198009	95-1329009	95-1329003	95-1399003	95-2299005
	SAMPLE NUMBER	EPPC-9506-105	EPPC-9506-202	EPPC-9506-302	EPPC-9506-402	EPPC-9506-502	EPPC-9510-105
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Physical/Fld-Lab: ppm unless noted**

pH (Fld) (D)	8.01	8.1	7.6	8.3	7.7	8.4
SC (umhos/cm at 25 C) (Fld) (D)	115	122	97	124	123	
Water Temperature (C) (Fld) (D)	16.1	6.5	15	10.2	15.8	8.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4	
Water	SAMPLE DATE	10/4/1995	10/6/1995	11/15/1995	12/12/1995	1/18/1996	1/18/1996	
	SAMPLE TIME	16:00	15:50	16:15	13:15	15:00	15:15	
	LAB	TSC-SLC	HYDRO	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	
	LAB NUMBER	95-2299007	9510-109	95-2578005	95-2775006	96-152006	96-152008	
	SAMPLE NUMBER	EPPC-9510-107	EPPC-9510-109	EPPC-9511-105	EPPC-9512-106	EPPC-9601-106	EPPC-9601-108	
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	
	GROUP	RI	RI	RI	RI	RI	RI	
	DESCRIPTION							
	REMARKS	Field Duplicate					Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>								
	Calcium (Ca) (DIS)(D)	27		29				
	Magnesium (Mg) (DIS)(D)	6.1		6.6				
	Sulfate (SO4) (D)	41		47	53	45	53	
	Total Hardness As CaCO3 (D)	92		100				
<b>Metals (mg/L): ppm unless noted</b>								
	Aluminum (Al) (TRC)(D)	0.1		0.2	0.6	0.1	0.1	
	Antimony (Sb) (TRC)(D)	<0.02		<0.1	<0.05	<0.05	<0.05	
	Arsenic (As) (DIS)(D)	0.005		<0.005	0.007	0.005	<0.005	
	Arsenic (As) (TOT)(D)	0.006		0.04	0.006	<0.005	<0.005	
	Beryllium (Be) (TRC)(D)	<0.001		<0.001	<0.001	<0.001	<0.001	
	Cadmium (Cd) (DIS)(D)	<0.001		<0.001	0.001	<0.001	<0.001	
	Cadmium (Cd) (TOT)(D)	<0.001		<0.001	<0.001	<0.001	<0.001	
	Copper (Cu) (DIS)(D)	<0.008		<0.008	<0.008	<0.008	<0.008	
	Copper (Cu) (TOT)(D)	<0.008		<0.008	<0.008	<0.008	<0.008	
	Iron (Fe) (TRC)(D)	0.3		0.3	0.9	0.2	0.2	
	Lead (Pb) (DIS)(D)	<0.005		<0.005	<0.005	<0.005	<0.005	
	Lead (Pb) (TOT)(D)	0.007		0.005	0.02	<0.005	<0.005	
	Manganese (Mn) (TRC)(D)	0.06		0.05	0.1	0.04	0.04	
	Mercury (Hg) (TOT)(D)	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	
	Selenium (Se) (TRC)(D)	<0.001		0.006	<0.001	<0.001	0.001	
	Silver (Ag) (TRC)(D)	<0.001		<0.002	<0.002	<0.002	<0.002	
	Thallium (Tl) (TRC)(D)	<0.003		<0.003	<0.003	<0.001	<0.001	
	Zinc (Zn) (DIS)(D)	<0.02		0.06	0.08	0.08	0.07	
	Zinc (Zn) (TOT)(D)	<0.02		0.07	0.1	0.07	0.07	
<b>Nutrients: ppm unless noted</b>								
	Total Ammonia (NH3+NH4 as N) (D)	<0.05		<0.1	<0.05	0.08	0.1	
	Nitrate + Nitrite as N (D)	0.1		<0.05	0.3	0.3	0.3	
<b>Physical/Fld-Lab: ppm unless noted</b>								
	Flow (D)	37		21.8	17	8	8	
	pH (Fld) (D)	8.4		7.8	7.7	8.4	8.4	
	Water Temperature (C) (Fld) (D)	8.4	8	5.1	0.6	0.1	0.1	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4	PPC-4
Water	SAMPLE DATE	2/15/1996	3/18/1996	4/17/1996	5/15/1996	6/12/1996	7/16/1996
	SAMPLE TIME	12:30	16:00	14:15	19:30	10:45	14:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-322006	96-548006	96-751008	96-957006	96-1136006	96-1375006
	SAMPLE NUMBER	EPPC-9602-106	EPPC-9603-106	EPPC-9604-106	EPPC-9605-106	EPPC-9606-106	EPPC-9607-106
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
	Sulfate (SO4) (D)	56	56	39	32	26	51
<b>Metals (mg/L): ppm unless noted</b>							
	Aluminum (Al) (TRC)(D)	0.5	0.6	1.2	1.2	1	0.2
	Antimony (Sb) (TRC)(D)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.001
	Arsenic (As) (DIS)(D)	0.006	0.007	<0.005	<0.005	0.006	0.007
	Arsenic (As) (TOT)(D)	0.009	0.01	0.01	0.01	0.01	0.007
	Beryllium (Be) (TRC)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Cadmium (Cd) (DIS)(D)	<0.001	0.001	0.004	<0.001	<0.001	0.003
	Cadmium (Cd) (TOT)(D)	<0.001	<0.001	<0.001	<0.001	0.001	<0.001
	Copper (Cu) (DIS)(D)	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	Copper (Cu) (TOT)(D)	0.009	0.009	0.02	0.02	0.01	<0.008
	Iron (Fe) (TRC)(D)	0.6	0.8	2	2	1.3	0.4
	Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Lead (Pb) (TOT)(D)	0.03	0.03	0.04	0.04	0.04	0.008
	Manganese (Mn) (TRC)(D)	0.2	0.1	0.3	0.2	0.2	0.1
	Mercury (Hg) (TOT)(D)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	Selenium (Se) (TRC)(D)	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
	Silver (Ag) (TRC)(D)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	Thallium (Tl) (TRC)(D)	<0.003	<0.001	<0.003	<0.003	<0.003	<0.003
	Zinc (Zn) (DIS)(D)	0.2	0.09	0.1	0.08	0.1	0.09
	Zinc (Zn) (TOT)(D)	0.2	0.1	0.2	0.2	0.3	0.1
<b>Nutrients: ppm unless noted</b>							
	Total Ammonia (NH3+NH4 as N) (D)	0.06	<0.05	<0.1	0.1	<0.05	<0.05
	Nitrate + Nitrite as N (D)	0.4	0.3	0.2	0.1	0.1	0.1
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Flow (D)	30.4	45.7	99.3	102.5	155	33.2
	pH (Fld) (D)	8.06	8.1	8.1	7.8	7.9	8.06
	Water Temperature (C) (Fld) (D)	3.4	6.5	8.5	11	10.5	20.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-4	PPC-4	PPC-40A	PPC-40A
Water	SAMPLE DATE	8/15/1996	9/12/1996	5/7/1987	8/18/1987
	SAMPLE TIME	15:45	12:30	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-1623006	96-1853006	87-3041	87-6870
	SAMPLE NUMBER	EPPC-9608-105	EPPC-9609-105	AEH-8705-114	AEH-8708-65
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)			72	98
Sulfate (SO4) (D)	55	58	34	38

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)(D)	<0.1	<0.1		
Antimony (Sb) (TRC)(D)	<0.001	<0.001		
Arsenic (As) (DIS)(D)	0.007	0.008	0.01	0.02
Arsenic (As) (TOT)(D)	0.01	0.007	0.01	0.02
Beryllium (Be) (TRC)(D)	<0.001	<0.001		
Cadmium (Cd) (DIS)(D)	<0.001	<0.001	0.001	0.001
Cadmium (Cd) (TOT)(D)	<0.001	<0.001	0.003	0.001
Copper (Cu) (DIS)(D)	<0.008	<0.008		
Copper (Cu) (TOT)(D)	<0.008	<0.008		
Iron (Fe) (DIS)(D)			0.07	0.07
Iron (Fe) (TOT)(D)			0.4	0.3
Iron (Fe) (TRC)(D)	0.1	0.2		
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005 M	0.01
Lead (Pb) (TOT)(D)	0.006	0.006	0.03 M	0.03
Manganese (Mn) (TRC)(D)	0.08	0.08		
Mercury (Hg) (TOT)(D)	<0.0002	<0.0002		
Selenium (Se) (TRC)(D)	<0.001	<0.001		
Silver (Ag) (TRC)(D)	<0.002	<0.002		
Thallium (Tl) (TRC)(D)	<0.003	<0.003		
Zinc (Zn) (DIS)(D)	0.06	0.09	0.02	0.03
Zinc (Zn) (TOT)(D)	0.08	0.07	0.06	0.05

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N) (D)	0.1	0.05		
Nitrate + Nitrite as N (D)	0.1	0.2		

**Physical/Fld-Lab: ppm unless noted**

pH (D)			7.8	7.8
Flow (D)	11.5	9.7		
pH (Fld) (D)	8.4	8	8.7	7.9
SC (umhos/cm at 25 C) (Fld) (D)			188.7	228.3
SC (umhos/cm at 25 C) (D)			196	238
TDS (Measured at 180 C) (D)			166	159.6
Water Temperature (C) (Fld) (D)	22	14.2	15.5	14.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	11/6/1984	11/6/1984	11/6/1984	11/6/1984	1/11/1985	4/3/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	CAL	TSC-SLC	CAL	TSC-SLC	JTC
	LAB NUMBER	84-10989	S5416	84-11005	S5413	85-535	8504-332
	SAMPLE NUMBER	AEH-8411-23	AEH-8411-23-S	AEH-8411-39	AEH-8411-39-S	AEH-8501-103	AEH-8504-332
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Split		Split		Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	105	113	106	116	93
Calcium (Ca) (DIS)(D)	32	28.2	33	20	28.4
Chloride (Cl) (D)	5.3	4	6.6	4	2.5
Magnesium (Mg) (DIS)(D)	7.8	6.3	7.9	4.5	5.9
Potassium (K) (DIS)(D)	2.7	0.6	2.7	<0.5	3.07
Sodium (Na) (DIS)(D)	13	18.6	13	13.3	10.7
Sulfate (SO4) (D)	51	45	552	43	42.1
Total Alkalinity As CaCO3 (D)	86	93	87	95	76

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)		<0.2		<0.2	<0.1
Aluminum (Al) (TOT)(D)		<0.2		0.2	0.9
Antimony (Sb) (DIS)(D)		<0.01		<0.01	<0.04
Antimony (Sb) (TOT)(D)		<0.01		<0.01	<0.04
Arsenic (As) (DIS)(D)	0.008	0.005	<0.004	0.006	0.02
Arsenic (As) (TOT)(D)	0.009	0.004	0.008	<0.004	0.04
Barium (Ba) (DIS)(D)		0.02		<0.02	0.02
Barium (Ba) (TOT)(D)		0.02		0.02	0.04
Beryllium (Be) (DIS)(D)		<0.0006		<0.0006	<0.004
Beryllium (Be) (TOT)(D)		<0.0006		<0.0006	<0.004
Cadmium (Cd) (DIS)(D)	0.001	<0.004	0.001	<0.004	<0.001
Cadmium (Cd) (TOT)(D)	0.003	<0.004	0.003	<0.004	<0.001
Chromium (Cr) (DIS)(D)		<0.002		<0.002	<0.009
Chromium (Cr) (TOT)(D)		<0.002		<0.002	<0.009
Cobalt (Co) (DIS)(D)		<0.007		<0.007	<0.01
Cobalt (Co) (TOT)(D)		<0.007		<0.007	<0.01
Copper (Cu) (DIS)(D)	<0.008	0.04	<0.008	0.003	<0.02
Copper (Cu) (TOT)(D)	<0.008	0.03	<0.008	<0.001	0.03
Iron (Fe) (DIS)(D)	0.1	0.2	0.06	0.07	<0.04
Iron (Fe) (TOT)(D)	0.2	0.2	0.2	0.2	2.1
Lead (Pb) (DIS)(D)	0.007	<0.003	<0.005	<0.003	<0.005
Lead (Pb) (TOT)(D)	0.01	<0.003	<0.005	<0.003	0.01
Manganese (Mn) (DIS)(D)	0.07	0.08	0.07	0.05	0.09
Manganese (Mn) (TOT)(D)	0.08	0.08	0.08	0.07	0.3
Mercury (Hg) (DIS)(D)		<0.0002		<0.0002	<0.01
Mercury (Hg) (TOT)(D)		<0.0002		<0.0002	<0.0001
Nickel (Ni) (DIS)(D)		<0.03		<0.03	<0.02
Nickel (Ni) (TOT)(D)		<0.03		<0.03	<0.02
Selenium (Se) (DIS)(D)		<0.002		<0.002	<0.05

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	11/6/1984	11/6/1984	11/6/1984	11/6/1984	1/11/1985	4/3/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	CAL	TSC-SLC	CAL	TSC-SLC	JTC
	LAB NUMBER	84-10989	S5416	84-11005	S5413	85-535	8504-332
	SAMPLE NUMBER	AEH-8411-23	AEH-8411-23-S	AEH-8411-39	AEH-8411-39-S	AEH-8501-103	AEH-8504-332
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Split		Split		Split

**Metals (mg/L): ppm unless noted**

Selenium (Se) (TOT)(D)		<0.002		<0.002		<0.003
Silver (Ag) (DIS)(D)		<0.003		<0.003		<0.007
Silver (Ag) (TOT)(D)		<0.003		<0.003		0.01
Thallium (Tl) (DIS)(D)		<0.002		<0.002		<0.003
Thallium (Tl) (TOT)(D)		<0.002		<0.002		<0.003
Tin (Sn) (DIS)(D)		<0.04		<0.04		<0.03
Tin (Sn) (TOT)(D)		<0.04		<0.04		<0.03
Vanadium (V) (DIS)(D)		<0.004		<0.004		<0.02
Vanadium (V) (TOT)(D)		<0.004		<0.004		<0.02
Zinc (Zn) (DIS)(D)	0.04	0.01	0.04	0.1	0.05	0.04
Zinc (Zn) (TOT)(D)	0.05	0.006	0.05	<0.003	0.07	0.1

**Physical/Fld-Lab: ppm unless noted**

pH (D)	7.9	8	8.1	8	7.8	7.5
Flow (D)	33.1				23.7	
SC (umhos/cm at 25 C) (Fld) (D)	288.2		286.4		304.1	
SC (umhos/cm at 25 C) (D)	155	180	153	170	340	225
Total Suspended Solids (D)		8		8	1.5	52
TDS (Measured at 180 C) (D)	210	210	188	180	205	250

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	4/3/1985	5/7/1985	6/5/1985	7/2/1985	7/2/1985	8/5/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	JTC	TSC-SLC	JTC
	LAB NUMBER	85-2349	85-3498	85-4095	73-2106	85-4752	73-2179
	SAMPLE NUMBER	AEH-8504-332	AEH-8505-432	AEH-8506-533	AEH-8507-611	AEH-8507-611	AEH-8508-741
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Split		Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	78		86	118		126
Calcium (Ca) (DIS)(D)	30		26	36.8		32.4
Chloride (Cl) (D)	4.9		<2	2.2		5.6
Magnesium (Mg) (DIS)(D)	7		6.3	7.9		7.7
Potassium (K) (DIS)(D)	3.4		2.4	2.9		4.1
Sodium (Na) (DIS)(D)	14		14.7	17		13.8
Sulfate (SO4) (D)	39.8		35.1	74.4		87.9
Total Alkalinity As CaCO3 (D)	64		70.2	97		103

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)				<0.2		<0.2
Aluminum (Al) (TOT)(D)				<0.2		<0.2
Antimony (Sb) (DIS)(D)				<0.05		<0.05
Antimony (Sb) (TOT)(D)				<0.05		<0.05
Arsenic (As) (DIS)(D)	0.01	0.01	0.006	<0.05	0.02	0.06
Arsenic (As) (TOT)(D)	0.02	0.02	0.008	0.03	0.02	0.08
Barium (Ba) (DIS)(D)				<0.05		<0.05
Barium (Ba) (TOT)(D)				<0.05		<0.05
Beryllium (Be) (DIS)(D)				<0.004		<0.004
Beryllium (Be) (TOT)(D)				<0.004		<0.004
Cadmium (Cd) (DIS)(D)	0.001	<0.001	<0.001	<0.004	<0.001	<0.004
Cadmium (Cd) (TOT)(D)	0.003	0.003	<0.001	<0.004	0.001	<0.004
Chromium (Cr) (DIS)(D)				<0.008		<0.008
Chromium (Cr) (TOT)(D)				<0.008		<0.008
Cobalt (Co) (DIS)(D)				0.009		<0.008
Cobalt (Co) (TOT)(D)				<0.008		<0.008
Copper (Cu) (DIS)(D)	<0.008		<0.008	<0.02		<0.02
Copper (Cu) (TOT)(D)	0.02		0.01	<0.02		<0.02
Iron (Fe) (DIS)(D)	0.08		<0.02	0.08		<0.05
Iron (Fe) (TOT)(D)	2.4		0.2	0.4		0.4
Lead (Pb) (DIS)(D)	<0.005	0.005	<0.005	<0.002	0.005	<0.002
Lead (Pb) (TOT)(D)	0.08	0.04	0.02	<0.008	0.05	0.02
Manganese (Mn) (DIS)(D)	0.08		0.08	0.2		0.3
Manganese (Mn) (TOT)(D)	0.3		0.09	0.2		0.4
Mercury (Hg) (DIS)(D)				<0.0001		<0.0001
Mercury (Hg) (TOT)(D)				0.0002		<0.0001
Nickel (Ni) (DIS)(D)				<0.02		<0.02
Nickel (Ni) (TOT)(D)				<0.02		<0.02
Selenium (Se) (DIS)(D)				<0.004		0.007

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	4/3/1985	5/7/1985	6/5/1985	7/2/1985	7/2/1985	8/5/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	JTC	TSC-SLC	JTC
	LAB NUMBER	85-2349	85-3498	85-4095	73-2106	85-4752	73-2179
	SAMPLE NUMBER	AEH-8504-332	AEH-8505-432	AEH-8506-533	AEH-8507-611	AEH-8507-611	AEH-8508-741
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Split		Split

**Metals (mg/L): ppm unless noted**

Selenium (Se) (TOT)(D)					<0.004		0.009
Silver (Ag) (DIS)(D)					<0.006		<0.006
Silver (Ag) (TOT)(D)					<0.006		<0.006
Thallium (Tl) (DIS)(D)					<0.002		<0.002
Thallium (Tl) (TOT)(D)					0.0002		<0.002
Tin (Sn) (DIS)(D)					<0.03		<0.03
Tin (Sn) (TOT)(D)					<0.03		<0.03
Vanadium (V) (DIS)(D)					<0.03		<0.03
Vanadium (V) (TOT)(D)					<0.03		<0.03
Zinc (Zn) (DIS)(D)	0.05	0.04	0.05	0.02	0.01		<0.01
Zinc (Zn) (TOT)(D)	0.1	0.08	0.05	0.02	0.04		0.03

**Physical/Fld-Lab: ppm unless noted**

pH (D)	7.1	7.9	7.8	7.9	8		8.06
Flow (D)	63	73.7	57.1		16.2		
SC (umhos/cm at 25 C) (Fld) (D)	257.7	211	224.8		299.5		
SC (umhos/cm at 25 C) (D)	272	222	242	282	309		309
Total Suspended Solids (D)	45.4	12.1	6.2	14	2.6		8
TDS (Measured at 180 C) (D)	165	155	154	176	200		222

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	8/5/1985	9/13/1985	9/13/1985	10/15/1986	10/15/1986	5/7/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	JTC	TSC-SLC	RMAL	TSC-SLC	CHMTC
	LAB NUMBER	85-6039	8509-816	85-7019	8610-126	86-6941	8705-107
	SAMPLE NUMBER	AEH-8508-741	AEH-8509-816	AEH-8509-816	AEH-8610-126	AEH-8610-126	AEH-8705-107
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Split		Split		Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	121	102		83	93	
Calcium (Ca) (DIS)(D)	33	24.7		30.1		21.1
Carbonate As CO3 (D)				<5		
Chloride (Cl) (D)	3.3	2.4		3.5		10 M
Magnesium (Mg) (DIS)(D)	7.7	6.1		7.1		5
Potassium (K) (DIS)(D)	4.3	2.3		2.6		1.6
Sodium (Na) (DIS)(D)	19.4	9.7		12		8.9
Sulfate (SO4) (D)	47.7	33.6		49	50	14.4 M
Total Alkalinity As CaCO3 (D)	98.9	83.5				62

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)		<0.2				
Aluminum (Al) (TOT)(D)		0.2				
Antimony (Sb) (DIS)(D)		0.05				
Antimony (Sb) (TOT)(D)		<0.005				
Arsenic (As) (DIS)(D)	0.08	<0.006	0.01	<0.01	<0.006	<0.009
Arsenic (As) (TOT)(D)	0.08	0.009	0.01	0.01	0.008	0.01
Barium (Ba) (DIS)(D)		<0.05				
Barium (Ba) (TOT)(D)		<0.05				
Beryllium (Be) (DIS)(D)		<0.004				
Beryllium (Be) (TOT)(D)		<0.004				
Cadmium (Cd) (DIS)(D)	0.001	<0.004	<0.001	<0.005	<0.001	<0.004
Cadmium (Cd) (TOT)(D)	0.003	<0.004	<0.001	<0.005	<0.001	<0.004
Chromium (Cr) (DIS)(D)		<0.008				
Chromium (Cr) (TOT)(D)		<0.008				
Cobalt (Co) (DIS)(D)		<0.008				
Cobalt (Co) (TOT)(D)		<0.008				
Copper (Cu) (DIS)(D)	0.009	<0.02		<0.004		<0.02
Copper (Cu) (TOT)(D)	0.01	0.02		0.005		0.02
Iron (Fe) (DIS)(D)	0.05	<0.05		0.05	0.09	<0.1
Iron (Fe) (TOT)(D)	0.5	0.5		0.3	0.3	0.4
Lead (Pb) (DIS)(D)	<0.005	<0.03	<0.005	<0.005	<0.005	0.005
Lead (Pb) (TOT)(D)	0.04	<0.03	0.02	0.02	0.02	0.1 M
Manganese (Mn) (DIS)(D)	0.3	0.06		0.09		0.07
Manganese (Mn) (TOT)(D)	0.3	0.1		0.09		0.1
Mercury (Hg) (DIS)(D)		<0.0001				
Mercury (Hg) (TOT)(D)		<0.0001				
Nickel (Ni) (DIS)(D)		<0.02				
Nickel (Ni) (TOT)(D)		<0.02				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	8/5/1985	9/13/1985	9/13/1985	10/15/1986	10/15/1986	5/7/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	JTC	TSC-SLC	RMAL	TSC-SLC	CHMTC
	LAB NUMBER	85-6039	8509-816	85-7019	8610-126	86-6941	8705-107
	SAMPLE NUMBER	AEH-8508-741	AEH-8509-816	AEH-8509-816	AEH-8610-126	AEH-8610-126	AEH-8705-107
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Split		Split		Split

**Metals (mg/L): ppm unless noted**

Selenium (Se) (DIS)(D)		<0.004				
Selenium (Se) (TOT)(D)		<0.004				
Silver (Ag) (DIS)(D)		<0.006				
Silver (Ag) (TOT)(D)		<0.006				
Thallium (Tl) (DIS)(D)		0.003				
Thallium (Tl) (TOT)(D)		0.004				
Tin (Sn) (DIS)(D)		<0.03				
Tin (Sn) (TOT)(D)		<0.03				
Vanadium (V) (DIS)(D)		<0.03				
Vanadium (V) (TOT)(D)		<0.03				
Zinc (Zn) (DIS)(D)	0.02	<0.01	0.03	0.04	0.04	<0.02
Zinc (Zn) (TOT)(D)	0.03	0.05	0.07	0.06	0.06	0.1 M

**Physical/Fld-Lab: ppm unless noted**

pH (D)	8	7.8	7.4		7.8	
Flow (D)	14.5		38.2		43.2	
pH (Fld) (D)				8.04	8.04	7.5
SC (umhos/cm at 25 C) (Fld) (D)	318.5		276.9	260.7	260	186.1
SC (umhos/cm at 25 C) (D)	330	260	260		269	
Total Suspended Solids (D)	1.1	3	4.8			
TDS (Measured at 180 C) (D)	216	120	181	195	214	169
Water Temperature (C) (Fld) (D)				7.5	7.5	17

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	5/7/1987	8/18/1987	8/18/1987	4/25/1989	10/26/1989	5/2/1990
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-3036	8708-57	87-6860	89-560	89-856	90-1084
	SAMPLE NUMBER	AEH-8705-107	AEH-8708-57	AEH-8708-57	AEH-8904-284	AEH-8910-468	AEH-9005-508
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Split				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	73	78	98			
Calcium (Ca) (DIS)(D)		26.3				
Carbonate As CO3 (D)		<5				
Chloride (Cl) (D)		2		2	2.5	1.9
Magnesium (Mg) (DIS)(D)		6.3				
Potassium (K) (DIS)(D)		2.4				
Sodium (Na) (DIS)(D)		11.5				
Sulfate (SO4) (D)	31	40	36	38	35	32.7

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.01	0.01	0.02	<0.004	0.008	0.008 J
Arsenic (As) (TOT)(D)	0.02	0.02	0.02	0.01	0.01	0.01 J
Cadmium (Cd) (DIS)(D)	<0.001	0.0003	<0.001	<0.002 UJ	<0.001	0.001 U
Cadmium (Cd) (TOT)(D)	0.001	0.001	<0.001	<0.002 UJ	<0.001	0.001 U
Copper (Cu) (DIS)(D)		<0.002		<0.008	<0.008	<0.008
Copper (Cu) (TOT)(D)		0.007		0.02	<0.008	0.01
Iron (Fe) (DIS)(D)	0.06	0.06	0.07			
Iron (Fe) (TOT)(D)	0.3	0.3	0.3			
Lead (Pb) (DIS)(D)	<0.005 M	0.004	0.01	<0.02	<0.005 UJ	<0.005 UJ
Lead (Pb) (TOT)(D)	0.02 M	0.03	0.02	<0.02	0.01	0.01 J
Manganese (Mn) (DIS)(D)		0.08				
Manganese (Mn) (TOT)(D)		0.1				
Zinc (Zn) (DIS)(D)	0.02	0.02	0.02	0.03 J	0.02	0.03
Zinc (Zn) (TOT)(D)	0.06	0.04	0.04	0.05	0.03	0.06

**Physical/Fld-Lab: ppm unless noted**

pH (D)	7.8		7.8	7.6	7.9	8
Flow (D)	66.3		40.4		44.3	136.8
pH (Fld) (D)	7.5	7.3	7.3	7.4	7.9	7.8
SC (umhos/cm at 25 C) (Fld) (D)	186.1	228.7	228	197.1	234.2	178.9
SC (umhos/cm at 25 C) (D)	195		235	185	240	176
Total Suspended Solids (D)			5.9			
TDS (Measured at 180 C) (D)	166	160	147 M	186 R	142	129 J
Water Temperature (C) (Fld) (D)	17	16.5	16.5	5.3	7.6	8.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	11/20/1990	5/1/1991	11/6/1991	4/14/1992	11/13/1992	4/28/1993
	SAMPLE TIME	00:00	00:00	12:45	14:30	14:00	13:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	90-2217	91-2655	91-3602	92-4289	92-6829	93-7715
	SAMPLE NUMBER	AEH-9011-704	AEH-9105-103	AEH-9111-337	AEH-9204-141	EHC-9211-112	EHC-9305-102
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)(D)					29 J	24 J
Chloride (Cl) (D)	3.1 J	<2	2.7	2.3 J	3.4 J	2.3
Magnesium (Mg) (Dis)(D)					6.7	5.4 J
Potassium (K) (Dis)(D)					<5	<5
Sodium (Na) (Dis)(D)					14	8.9 J
Sulfate (SO4) (D)	44 J	36	44	44 J	49 J	37
Total Hardness As CaCO3 (D)						82

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.007	0.005	0.007	0.005	0.008 J	0.005
Arsenic (As) (TOT)(D)	0.009	0.01	0.008	0.007	0.01 J	0.007
Cadmium (Cd) (DIS)(D)	0.001 U	<0.001	<0.001	0.001	0.001	<0.001
Cadmium (Cd) (TOT)(D)	0.001 U	<0.002	0.001	0.001	0.001	0.001
Copper (Cu) (DIS)(D)	<0.008	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)(D)	<0.008	<0.004	<0.004	<0.004	<0.004	0.005
Lead (Pb) (DIS)(D)	<0.005	<0.005 UJ	<0.005 J	<0.005	<0.005 JU	<0.005
Lead (Pb) (TOT)(D)	0.005 J	0.01	<0.005	0.007	0.008 J	0.006 J
Zinc (Zn) (DIS)(D)		0.02	0.02	0.02	<0.006	0.04
Zinc (Zn) (TOT)(D)		0.04	0.03	0.03	0.02	0.05

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)						10.4
pH (D)	8.6	7.9	7.2	8.08	9	
Flow (D)		51.06	39.8	44.3	31.6	99.8
pH (Fld) (D)	8	8.4	7.6	8.6	8.3	8.2
SC (umhos/cm at 25 C) (Fld) (D)	257.1	233.6	234	227	254	201
SC (umhos/cm at 25 C) (D)	265	230	223	228	250	170
TDS (Measured at 180 C) (D)	169 J	190 J	162 J	151 J	210	149
Water Temperature (C) (Fld) (D)	3	9.3	2.3	10.8	4.1	8.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	11/2/1993	3/28/1994	4/11/1994	5/5/1994	5/5/1994	5/17/1994
	SAMPLE TIME	15:20	16:45	16:00	15:15	15:20	15:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-9140	94-502011	94-591010	94-747008	94-1107	94-798008
	SAMPLE NUMBER	EHC-9311-149	AHCL-9403-118	AHCL-9404-159	AHCL-9405-207	EHC-9405-153	AHCL-9405-222
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl) (D)	3.3 J		2.2
Sulfate (SO4) (D)	43 J		34 J

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.009	0.02	0.01	0.009	0.008	0.01 U
Arsenic (As) (TOT)(D)	0.01	0.02	0.01	0.007	0.009	0.01 U
Cadmium (Cd) (DIS)(D)	0.001 U	0.001	0.002	0.001	0.002	<0.001
Cadmium (Cd) (TOT)(D)	0.001 U	0.001	0.004	0.002	0.002	0.001 U
Copper (Cu) (DIS)(D)	<0.004	0.004	0.004	0.005	0.005	0.005 U
Copper (Cu) (TOT)(D)	<0.004	0.005	0.01	0.01	0.01	0.01 U
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.005	0.02	0.03	0.01 J	0.01 J	0.02
Zinc (Zn) (DIS)(D)	0.05	0.02	0.02 U	0.07	0.06	0.04 U
Zinc (Zn) (TOT)(D)	0.07	0.05	0.1	0.1	0.1 J	0.1

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)				10.6		
Flow (D)	80.7	47	82.3	153.8	153.8	199.3
pH (Fld) (D)	8.3	8.6	8.9	8.3	8.3	7.7
SC (umhos/cm at 25 C) (Fld) (D)	228	278	217	165	187	135
SC (umhos/cm at 25 C) (D)	230 J				176 J	
Total Suspended Solids (D)		4.6	13	13		16
TDS (Measured at 180 C) (D)	154	176	160	121	124 J	117
Water Temperature (C) (Fld) (D)	3.9	6	9.5	11	11	11.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	5/19/1994	5/24/1994	5/26/1994	5/31/1994	6/2/1994	6/6/1994
	SAMPLE TIME	13:00	12:45	13:30	13:00	12:40	13:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-816008	94-831008	94-851008	94-873008	94-893008	94-917008
	SAMPLE NUMBER	AHCL-9405-236	AHCL-9405-247	AHCL-9405-262	AHCL-9405-107	AHCL-9406-107	AHCL-9406-207
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.006 U	0.01	0.005	0.005 U	0.005	<0.005
Arsenic (As) (TOT)(D)	0.01 U	0.01	0.006	0.008	0.008	0.006
Cadmium (Cd) (DIS)(D)	0.001	<0.001	<0.001	0.001 U	0.001	0.001
Cadmium (Cd) (TOT)(D)	0.001	0.001	0.001	0.002	0.001	0.001
Copper (Cu) (DIS)(D)	0.005	0.004	0.02 U	0.005	0.004	<0.004
Copper (Cu) (TOT)(D)	0.01	0.009	0.02 U	0.009	0.007	0.007
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.02	0.01	0.01	0.02	0.01	0.01
Zinc (Zn) (DIS)(D)	0.09	0.05 U	0.04 U	0.04 U	0.04	0.03 U
Zinc (Zn) (TOT)(D)	0.2	0.1	0.09	0.08	0.07	0.09

**Physical/Fld-Lab: ppm unless noted**

Flow (D)	241.6	190.9		129.4	144.1	115.2
pH (Fld) (D)	8.4	8.3	8.3	7.7	7.5	7.8
SC (umhos/cm at 25 C) (Fld) (D)	153	142	164	157	166	189
Total Suspended Solids (D)	18	14	14	17	11	17
TDS (Measured at 180 C) (D)	120	127	137	124	128	135
Water Temperature (C) (Fld) (D)	8	12.1	12.9	12.5	11.8	14.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	6/13/1994	7/12/1994	8/19/1994	9/27/1994	10/21/1994	11/8/1994
	SAMPLE TIME	12:45	13:00	11:15	16:10	08:10	11:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	94-959008	94-1209008	94-1504018	94-1778010	94-1932017	94-3242
	SAMPLE NUMBER	AHCL-9406-307	AHCL-9407-107	AHCL-9408-322	AHCL-9409-422	AHCL-9410-321	EHC-9411-155
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)(D)				31	32	
Chloride (Cl) (D)						3.3
Magnesium (Mg) (DIS)(D)				7.6	7.3	
Potassium (K) (DIS)(D)				<2	4.2 U	
Sodium (Na) (DIS)(D)				17	12	
Sulfate (SO4) (D)				46	47	50

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.005	0.02 U	0.01 U	0.01	0.006	0.006
Arsenic (As) (TOT)(D)	0.007	0.009	0.02	0.01	0.007	0.01
Arsenic III (dis)(D)				<0.005	<0.005	
Arsenic V (dis)(D)				<0.005	0.006	
Cadmium (Cd) (DIS)(D)	0.001	0.001 U	<0.001	<0.001	0.001	<0.001
Cadmium (Cd) (TOT)(D)	0.001	0.001	<0.001	0.003	0.001 U	0.001
Copper (Cu) (DIS)(D)	<0.004	0.004	<0.004	0.004 U	<0.004	<0.004
Copper (Cu) (TOT)(D)	0.007	0.005	<0.004	0.004 U	<0.004	<0.004 J
Iron (Fe) (TOT)(D)				0.3	0.4 J	
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.01	0.009	0.01	0.007	0.01	0.005 J
Zinc (Zn) (DIS)(D)	0.03	0.04 U	0.008 U	0.009	0.05 U	0.04 U
Zinc (Zn) (TOT)(D)	0.08	0.06	0.04 U	0.03	0.08	0.06

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)			7	7.9	7.4	12.3
Eh (millivolts) (D)				158	243	
Flow (D)	102.2	59.5	18.6	21.4	40.9	25.1
pH (Fld) (D)	7.9	8.2	7.9	8.7	7.9	8.3
SC (umhos/cm at 25 C) (Fld) (D)	196	228	319	345	464 J	285
SC (umhos/cm at 25 C) (D)						290
Total Suspended Solids (D)	11	2.6	1.8 J	2.7	3.9 U	
TDS (Measured at 180 C) (D)	154	155	199 J	202	173	194
Water Temperature (C) (Fld) (D)	13.2	17.6	19.4	18.9	6.9	1.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	3/28/1995	4/24/1995	5/4/1995	5/4/1995	5/23/1995	5/23/1995
	SAMPLE TIME	13:30	18:15	10:15	10:30	16:30	16:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-616018	95-826014	95-4465	95-4468	95-1057020	95-1057025
	SAMPLE NUMBER	AHCL-9503-121	AHCL-9504-116	EHC-9505-154	EHC-9505-159	AHCL-9505-123	AHCL-9505-126
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Calcium (Ca) (DIS)(D)	30	22			15.9	16.2
	Chloride (Cl) (D)			2.5	2.2		
	Magnesium (Mg) (DIS)(D)	7.2	5.3			3.5	3.6
	Potassium (K) (DIS)(D)	3.3	2.1			<2	<2
	Sodium (Na) (DIS)(D)	13	8.7			5.1	5.2
	Sulfate (SO4) (D)	46	36	33	32	25	23
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)(D)	0.01	0.01	0.005	0.005	0.005	0.005
	Arsenic (As) (TOT)(D)	0.01	0.008	0.009 J	0.007	0.006	0.007
	Arsenic III (dis)(D)	<0.004	<0.004			0.006	<0.004
	Arsenic V (dis)(D)	0.005	<0.004			0.009	0.009
	Cadmium (Cd) (DIS)(D)	<0.001	0.002	0.001	0.001	<0.001	0.001
	Cadmium (Cd) (TOT)(D)	0.002	0.002	<0.001	<0.001	<0.001	0.002
	Copper (Cu) (DIS)(D)	0.005	0.005	0.005	0.005	0.004	0.004
	Copper (Cu) (TOT)(D)	0.004	0.004	0.01	0.01	0.009	0.009
	Iron (Fe) (DIS)(D)					0.1	0.09
	Iron (Fe) (TOT)(D)		0.5			0.7 J	0.7 J
	Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Lead (Pb) (TOT)(D)	0.01	0.008	0.01 J	0.009 J	0.009	0.01
	Zinc (Zn) (DIS)(D)	<0.008	0.03	0.03	0.03	0.06	0.06
	Zinc (Zn) (TOT)(D)	0.03	0.06	0.07 J	0.06 J	0.1	0.1
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld) (D)	12.9	11	10.3	10.3	10.1	10.2
	pH (D)			7.8	7.8		
	Eh (millivolts) (D)	259	118			44	45
	Flow (D)	33.4	83.4	88.9	88.9	0.0	0.0
	pH (Fld) (D)	8.7	8.3	8.6	8.5	7.5	7.5
	SC (umhos/cm at 25 C) (Fld) (D)	237	205	207	211	166	165
	SC (umhos/cm at 25 C) (D)			198	199		
	Total Suspended Solids (D)	<1	8.8			1 J	3.7 J
	TDS (Measured at 180 C) (D)	179 U	120	149	134	168 J	80 UJ
	Water Temperature (C) (Fld) (D)	3.7	8.6	8.4	8.4	10.9	10.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	6/19/1995	7/18/1995	7/18/1995	8/16/1995	9/15/1995	10/4/1995
	SAMPLE TIME	12:45	15:30	15:45	15:50	10:30	14:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-1280008	95-1523023	95-1523026	95-1778024	95-2070012	95-2299006
	SAMPLE NUMBER	AHCL-9506-119	AHCL-9507-122	AHCL-9507-125	AHCL-9508-122	AHCL-9509-122	EPPC-9510-106
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)(D)	14						28
Magnesium (Mg) (DIS)(D)	2.7						6.5
Potassium (K) (DIS)(D)	<2						
Sodium (Na) (DIS)(D)	4						
Sulfate (SO4) (D)	17						40
Total Hardness As CaCO3 (D)							97

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)(D)							0.1
Antimony (Sb) (TRC)(D)							<0.02
Arsenic (As) (DIS)(D)	0.005 J	0.006	0.006	0.01	0.01		
Arsenic (As) (TOT)(D)	0.005	0.008	0.009	0.01	0.02		0.01
Arsenic III (dis)(D)	<0.004						
Arsenic V (dis)(D)	0.006 UJ						
Beryllium (Be) (TRC)(D)							<0.001
Cadmium (Cd) (DIS)(D)	<0.001	0.001	<0.001	<0.001	<0.001		
Cadmium (Cd) (TOT)(D)	0.002	<0.001	<0.001	0.002 J	<0.001		<0.001
Copper (Cu) (DIS)(D)	0.007	<0.008	0.008	<0.004	0.005		
Copper (Cu) (TOT)(D)	0.008	0.01	0.008	<0.004	0.01		<0.008
Iron (Fe) (TOT)(D)	0.09						
Iron (Fe) (TRC)(D)							0.4
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	0.007	<0.005		
Lead (Pb) (TOT)(D)	0.02	0.02	0.02	0.01	0.01		0.005
Manganese (Mn) (TRC)(D)							0.09
Mercury (Hg) (TOT)(D)							<0.0002
Selenium (Se) (TRC)(D)							<0.001
Silver (Ag) (TRC)(D)							<0.001
Thallium (Tl) (TRC)(D)							<0.003
Zinc (Zn) (DIS)(D)	0.06	0.04	0.04	0.04	0.03		
Zinc (Zn) (TOT)(D)	0.08	0.06	0.06	0.05	0.06		0.07

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	9.06	8.4	8.4	7.8	10.04		
Eh (millivolts) (D)	174	6	6	10	107		
Flow (D)	0.0	109.8	109.8	37.05	38.2		
pH (Fld) (D)	7.2	7.4	7.4	7.8	7.8		
SC (umhos/cm at 25 C) (Fld) (D)	134	186	186	233	265		247
Total Suspended Solids (D)	16	6.3	6.1	3.9 UJ	<1		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	6/19/1995	7/18/1995	7/18/1995	8/16/1995	9/15/1995	10/4/1995
	SAMPLE TIME	12:45	15:30	15:45	15:50	10:30	14:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-1280008	95-1523023	95-1523026	95-1778024	95-2070012	95-2299006
	SAMPLE NUMBER	AHCL-9506-119	AHCL-9507-122	AHCL-9507-125	AHCL-9508-122	AHCL-9509-122	EPPC-9510-106
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate			
<b>Physical/Fid-Lab: ppm unless noted</b>							
	TDS (Measured at 180 C) (D)	96	106	112	164	170	
	Water Temperature (C) (Fld) (D)	10.8	19.8	19.9	19.2	15.6	8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	10/6/1995	10/24/1995	11/7/1995	11/7/1995	11/15/1995	12/12/1995
	SAMPLE TIME	15:45	12:30	10:50	10:50	15:00	12:30
	LAB	HYDRO	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	9510-110	95-2401025	95-2532020	95-5810	95-2578006	95-2775007
	SAMPLE NUMBER	EPPC-9510-110	AHCL-9510-122	AHCL-9511-123	EHC-9511-156	EPPC-9511-106	EPPC-9512-107
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)							71
Calcium (Ca) (DIS)(D)						29	33
Carbonate As CO3 (D)							<1
Chloride (Cl) (D)					2.7		
Magnesium (Mg) (DIS)(D)						6.7	7.9
Potassium (K) (DIS)(D)							3.7
Sodium (Na) (DIS)(D)							14
Sulfate (SO4) (D)					51	45	56
Total Alkalinity As CaCO3 (D)							71
Total Hardness As CaCO3 (D)						101	115

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)(D)						0.2	0.3
Antimony (Sb) (TRC)(D)						<0.1	<0.05
Arsenic (As) (DIS)(D)		0.01	0.01	0.01		0.008	0.008
Arsenic (As) (TOT)(D)		0.01	0.02	0.01		0.008	0.01
Beryllium (Be) (TRC)(D)						<0.001	<0.001
Cadmium (Cd) (DIS)(D)		<0.001	<0.001 J	0.001		<0.001	<0.001
Cadmium (Cd) (TOT)(D)		<0.001	0.001	0.002		<0.001	<0.001
Copper (Cu) (DIS)(D)		<0.004	<0.008	<0.004		<0.008	<0.008
Copper (Cu) (TOT)(D)		0.02 U	<0.008	0.005		<0.008	<0.008
Iron (Fe) (TRC)(D)						0.3	0.7
Lead (Pb) (DIS)(D)		<0.005	<0.005	<0.005		<0.005	<0.005
Lead (Pb) (TOT)(D)		0.005	0.01	0.009 J		0.01	0.01
Manganese (Mn) (TRC)(D)						0.08	0.1
Mercury (Hg) (TOT)(D)						<0.0002	<0.0002
Selenium (Se) (TRC)(D)						<0.002	<0.001
Silver (Ag) (TRC)(D)						<0.002	<0.002
Thallium (Tl) (TRC)(D)						<0.003	<0.003
Zinc (Zn) (DIS)(D)		0.06	0.08	0.07		0.05	0.09
Zinc (Zn) (TOT)(D)		0.07	0.07	0.08		0.07	0.1

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N) (D)						<0.1	<0.05
Nitrate + Nitrite as N (D)						<0.05	0.3

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)		11.9	12.01				
pH (D)					7.4 J		
Eh (millivolts) (D)		202	178				
Flow (D)		44.8	40.7			48.07	44.1
pH (Fld) (D)		6.9	6.4		6.4	7.8	7.4
SC (umhos/cm at 25 C) (Fld) (D)		256	264		264	252	273

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	10/6/1995	10/24/1995	11/7/1995	11/7/1995	11/15/1995	12/12/1995
	SAMPLE TIME	15:45	12:30	10:50	10:50	15:00	12:30
	LAB	HYDRO	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	9510-110	95-2401025	95-2532020	95-5810	95-2578006	95-2775007
	SAMPLE NUMBER	EPPC-9510-110	AHCL-9510-122	AHCL-9511-123	EHC-9511-156	EPPC-9511-106	EPPC-9512-107
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fld-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (D)				262			
Total Suspended Solids (D)		1.9	1.7				
TDS (Measured at 180 C) (D)		165	185	140			
Water Temperature (C) (Fld) (D)	8	6.3	2.6	2.6	5.7	0.1	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	1/18/1996	2/15/1996	3/18/1996	4/17/1996	4/17/1996	5/9/1996
	SAMPLE TIME	13:30	10:10	14:45	12:15	12:30	10:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-152007	96-322007	96-548007	96-751004	96-751005	96-6742
	SAMPLE NUMBER	EPPC-9601-107	EPPC-9602-107	EPPC-9603-107	EPPC-9604-107	EPPC-9604-108	EHC-9605-216
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3) (D)	89	69	73	57	52		
Calcium (Ca) (DIS)(D)	41	31	32	23	23		
Carbonate As CO3 (D)	<1	<1	<1	<1	<1		
Chloride (Cl) (D)	3.2	3	4.1	2.3	3		4.6
Magnesium (Mg) (DIS)(D)	10	7.2	7.7	5.4	5.4		
Potassium (K) (DIS)(D)	4.5	4.6	4.6	2.7	2.6		
Sodium (Na) (DIS)(D)	18	12	13	7.9	7.8		
Sulfate (SO4) (D)	51	71	55	38	38		51
Total Alkalinity As CaCO3 (D)	89	69	73	57	52		
Total Hardness As CaCO3 (D)	144	108	112	81	80		
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (TRC)(D)	0.1	0.5	0.6	1.5	1.3		
Antimony (Sb) (TRC)(D)	<0.05	<0.05	<0.05	<0.05	<0.05		
Arsenic (As) (DIS)(D)	0.01	0.008	0.01	0.006	0.006		0.009
Arsenic (As) (TOT)(D)	0.008	0.009	0.01	0.01	0.01		0.02 J
Beryllium (Be) (TRC)(D)	<0.001	<0.001	<0.001	<0.001	<0.001		
Cadmium (Cd) (DIS)(D)	<0.001	<0.001	<0.001	0.002	0.002		0.001
Cadmium (Cd) (TOT)(D)	<0.001	0.001	<0.001	0.001	0.002		0.001
Copper (Cu) (DIS)(D)	<0.008	<0.008	<0.008	<0.008	<0.008		0.004
Copper (Cu) (TOT)(D)	<0.008	0.009	0.008	0.02	0.02		0.009
Iron (Fe) (TRC)(D)	0.3	0.6	0.8	2.2	2		
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
Lead (Pb) (TOT)(D)	0.007	0.03	0.02	0.05	0.05		0.02
Manganese (Mn) (TRC)(D)	0.08	0.2	0.1	0.3	0.3		
Mercury (Hg) (TOT)(D)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
Selenium (Se) (TRC)(D)	<0.001	<0.001	<0.001	<0.001	<0.001		
Silver (Ag) (TRC)(D)	<0.002	<0.002	<0.002	<0.002	<0.002		
Thallium (Tl) (TRC)(D)	<0.001	<0.003	<0.001	<0.003	<0.003		
Zinc (Zn) (DIS)(D)	0.07	0.2	0.09	0.1	0.1		0.1
Zinc (Zn) (TOT)(D)	0.07	0.2	0.09	0.2	0.2		0.2
<b>Nutrients: ppm unless noted</b>							
Total Ammonia (NH3+NH4 as N) (D)	0.07	0.06	<0.05	<0.1	<0.1		
Nitrate + Nitrite as N (D)	0.3	0.3	0.3	0.2	0.2		
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld) (D)							10.3
pH (D)							8
Eh (millivolts) (D)							544
Flow (D)	15.5	45.9	49.9	112.6	112.6		58.6
pH (Fld) (D)	8.1	7.8	8.09	8.2	8.2		7.3
SC (umhos/cm at 25 C) (Fld) (D)	357	350	256	188	191		276

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	1/18/1996	2/15/1996	3/18/1996	4/17/1996	4/17/1996	5/9/1996
	SAMPLE TIME	13:30	10:10	14:45	12:15	12:30	10:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-152007	96-322007	96-548007	96-751004	96-751005	96-6742
	SAMPLE NUMBER	EPPC-9601-107	EPPC-9602-107	EPPC-9603-107	EPPC-9604-107	EPPC-9604-108	EHC-9605-216
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Physical/Fld-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (D)							250
Total Suspended Solids (D)							3.9 J
TDS (Measured at 180 C) (D)							171
Water Temperature (C) (Fld) (D)	0.0	1.8	6.8	6.8	6.8	6.8	6.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	5/9/1996	5/15/1996	6/12/1996	6/27/1996	7/16/1996	8/15/1996
	SAMPLE TIME	10:45	17:00	08:45	08:10	13:25	14:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-6744	96-957007	96-1136007	96-1243019	96-1375007	96-1623007
	SAMPLE NUMBER	EHC-9605-244	EPPC-9605-107	EPPC-9606-107	EHC-9606-122	EPPC-9607-107	EPPC-9608-106
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)		47	41		66	89
Calcium (Ca) (DIS)(D)		22	19		28	34
Carbonate As CO3 (D)		<1	<1		<1	<1
Chloride (Cl) (D)	4	2.4	1.2		2.6	3.5
Magnesium (Mg) (DIS)(D)		4.9	4		6.4	7.9
Potassium (K) (DIS)(D)		3.1	3.5		3.6	3.8
Sodium (Na) (DIS)(D)		7.3	5.9		10	15
Sulfate (SO4) (D)	47	33	26		40	49
Total Alkalinity As CaCO3 (D)		47	41		66	89
Total Hardness As CaCO3 (D)		75	63		96	117

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)(D)		0.9	0.8		0.2	<0.1
Antimony (Sb) (TRC)(D)		<0.05	<0.05		0.001	0.002
Arsenic (As) (DIS)(D)	0.009	0.007	0.007	0.02	0.01	0.02
Arsenic (As) (TOT)(D)	0.01 J	0.01	0.01	0.009	0.01	0.02
Beryllium (Be) (TRC)(D)		<0.001	<0.001		<0.001	<0.001
Cadmium (Cd) (DIS)(D)	<0.005	0.001	0.001	0.002	<0.001	0.002
Cadmium (Cd) (TOT)(D)	<0.005	0.002	<0.001	<0.001	<0.001	0.001
Copper (Cu) (DIS)(D)	0.004	<0.008	<0.008	<0.008	<0.008	<0.008
Copper (Cu) (TOT)(D)	0.009	0.02	0.01	0.01	<0.008	<0.008
Iron (Fe) (TRC)(D)		1.6	1.1		0.4	0.4
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.03	0.04	0.04	0.02	0.02	0.02
Manganese (Mn) (TRC)(D)		0.2	0.2		0.2	0.2
Mercury (Hg) (TOT)(D)		<0.0002	<0.0002		<0.0002	<0.0002
Selenium (Se) (TRC)(D)		<0.001	<0.001		<0.001	<0.001
Silver (Ag) (TRC)(D)		<0.002	<0.002		<0.002	<0.002
Thallium (Tl) (TRC)(D)		<0.003	<0.003		<0.003	<0.003
Zinc (Zn) (DIS)(D)	0.1	0.09	0.1	0.08	0.09	0.06
Zinc (Zn) (TOT)(D)	0.2	0.2	0.2	0.1	0.1	0.06

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N) (D)		0.07	<0.05		11	0.06
Nitrate + Nitrite as N (D)		<0.05	0.1		0.1	0.1

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	10.3			8.4		
pH (D)	7.8					
Eh (millivolts) (D)	540			527		
Flow (D)	58.6	149	183.2	99.2	44.3	18.8
pH (Fld) (D)	7.2	7.9	7.7	7.02	7.7	8.04
SC (umhos/cm at 25 C) (Fld) (D)	276	184	149	196	237	297

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	5/9/1996	5/15/1996	6/12/1996	6/27/1996	7/16/1996	8/15/1996
	SAMPLE TIME	10:45	17:00	08:45	08:10	13:25	14:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-6744	96-957007	96-1136007	96-1243019	96-1375007	96-1623007
	SAMPLE NUMBER	EHC-9605-244	EPPC-9605-107	EPPC-9606-107	EHC-9606-122	EPPC-9607-107	EPPC-9608-106
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate					

**Physical/Fld-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (D)	250						
Total Suspended Solids (D)	6 J				12		
TDS (Measured at 180 C) (D)	174				132		
Water Temperature (C) (Fld) (D)	6.5	11.2	11.1	15.3	20.2	21.8	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	9/12/1996	9/18/1996	11/7/1996	11/7/1996	5/5/1997	5/5/1997
	SAMPLE TIME	12:00	13:15	15:35	15:50	14:15	14:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-1853007	96-1924001	96-7759	96-7760	97-958	97-960
	SAMPLE NUMBER	EPPC-9609-106	EHC-9609-122	EHC-9611-216	EHC-9611-222	EHC-9705-216	EHC-9705-218
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		Field Duplicate

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	92						
Calcium (Ca) (DIS)(D)	36						
Carbonate As CO3 (D)	<1						
Chloride (Cl) (D)	4.2			3.7	3.5	<1	<1
Magnesium (Mg) (DIS)(D)	8.3						
Potassium (K) (DIS)(D)	17						
Sodium (Na) (DIS)(D)	16						
Sulfate (SO4) (D)	61			60	59	38	36
Total Alkalinity As CaCO3 (D)	92						
Total Hardness As CaCO3 (D)	123						

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)(D)	0.1						
Antimony (Sb) (TRC)(D)	0.001						
Arsenic (As) (DIS)(D)	0.02	0.01 J	0.01	0.01	0.005	0.006	
Arsenic (As) (TOT)(D)	0.02	0.01 J	0.01	0.01	0.01	0.01	
Arsenic III (dis)(D)			0.006	0.005	<0.005	<0.005	
Arsenic V (dis)(D)			0.007	0.007	<0.005	<0.005	
Beryllium (Be) (TRC)(D)	<0.001						
Cadmium (Cd) (DIS)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Cadmium (Cd) (TOT)(D)	<0.001	<0.001	0.002	0.002	0.001	0.001	
Copper (Cu) (DIS)(D)	<0.008	<0.004	<0.004	<0.004	<0.004	<0.004	
Copper (Cu) (TOT)(D)	<0.008	0.006	0.004	0.004	0.02	0.02	
Iron (Fe) (TRC)(D)	0.4						
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Lead (Pb) (TOT)(D)	0.01	0.008	0.01	0.01	0.03	0.03	
Manganese (Mn) (TRC)(D)	0.2						
Mercury (Hg) (TOT)(D)	<0.0002						
Selenium (Se) (TRC)(D)	<0.001						
Silver (Ag) (TRC)(D)	<0.002						
Thallium (Tl) (TRC)(D)	<0.003						
Zinc (Zn) (DIS)(D)	0.06	0.07	0.06	0.06	0.1	0.09	
Zinc (Zn) (TOT)(D)	0.04	0.1 U	0.09	0.08	0.2	0.2	

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N) (D)	0.07
Nitrate + Nitrite as N (D)	0.2

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)		9.9	11.6	11.7	9.04	9
pH (D)			7.8	7.7	7.7	7.7
Eh (millivolts) (D)		259	401	400	32	3
Flow (D)	18.5	24.9	30.1	30.08	109.4	109.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	9/12/1996	9/18/1996	11/7/1996	11/7/1996	5/5/1997	5/5/1997
	SAMPLE TIME	12:00	13:15	15:35	15:50	14:15	14:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-1853007	96-1924001	96-7759	96-7760	97-958	97-960
	SAMPLE NUMBER	EPPC-9609-106	EHC-9609-122	EHC-9611-216	EHC-9611-222	EHC-9705-216	EHC-9705-218
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		Field Duplicate
	<b>Physical/Fld-Lab: ppm unless noted</b>						
	pH (Fld) (D)	7.6	8	6.6	6.6	7.8	7.8
	SC (umhos/cm at 25 C) (Fld) (D)	319	306	298	298	177	182
	SC (umhos/cm at 25 C) (D)			302	300	183	183
	Total Suspended Solids (D)		1.3	2	2.1	26	27
	TDS (Measured at 180 C) (D)		221	189	193	129	133
	Water Temperature (C) (Fld) (D)	15.4	13.1	2.9	2.9	13.8	13.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	11/4/1997	11/4/1997	5/14/1998	5/14/1998	11/18/1998	11/18/1998
	SAMPLE TIME	11:00	11:15	12:00	12:15	13:40	13:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	188-2690	188-2691	264-3823	264-3825	311-4423	311-4424
	SAMPLE NUMBER	EHC-9711-216	EHC-9711-217	EHC-9805-217	EHC-9805-219	EHC-9811-217	EHC-9811-219
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3) (D)			51	56	94	93
	Calcium (Ca) (DIS)(D)			16	16	27	27
	Chloride (Cl) (D)	3	3	2	2	2	2.1
	Magnesium (Mg) (DIS)(D)			<5	<5	6.3	6.1
	Potassium (K) (DIS)(D)			<5	<5	<5	<5
	Sodium (Na) (DIS)(D)			7 J	7 J	12	11
	Sulfate (SO4) (D)	50	47	24	25	41	40
	Total Alkalinity As CaCO3 (D)			42	46	77	76
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	0.005 J	0.005 J
	Arsenic (As) (TOT)(D)	0.005	0.006	0.006	0.006	0.009	0.009
	Arsenic III (dis)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Arsenic V (dis)(D)	0.006	0.007	<0.005	<0.005	<0.005	<0.005
	Cadmium (Cd) (DIS)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Cadmium (Cd) (TOT)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)(D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
	Copper (Cu) (TOT)(D)	0.004	0.004	0.006	0.006	<0.004	<0.004
	Iron (Fe) (DIS)(D)			0.2 UJ	0.1 UJ	0.1	0.09
	Iron (Fe) (TOT)(D)			0.9	0.9	0.3	0.3
	Lead (Pb) (DIS)(D)	<0.005	<0.005	0.006	0.007	<0.005	<0.005
	Lead (Pb) (TOT)(D)	0.006	0.006	0.02 U	0.02 U	0.005	0.005
	Manganese (Mn) (DIS)(D)			0.04 J	0.04 J	0.07	0.07
	Manganese (Mn) (TOT)(D)			0.1	0.1	0.1	0.1
	Zinc (Zn) (DIS)(D)	0.08	0.09	0.04 UJ	0.04 UJ	0.05	0.05
	Zinc (Zn) (TOT)(D)	0.1	0.1	0.08 J	0.08 J	0.06	0.06
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld) (D)	10.8	10.8	12.04	12.03	13.09	13.07
	pH (D)	7.9	7.8	7.5	7.3	7.9	7.9
	Eh (millivolts) (D)					266	266
	Flow (D)	42.2	42.2	107.7		35.7	
	pH (Fld) (D)	7.9	7.9	7.7	7.7	8	8
	SC (umhos/cm at 25 C) (Fld) (D)	246	244	155	160	275	272
	SC (umhos/cm at 25 C) (D)	251	254	148	148	258	255
	Total Suspended Solids (D)	<1	1			2.4	2.1
	TDS (Measured at 180 C) (D)	181	177	113	113	179	175
	Water Temperature (C) (Fld) (D)	9.5	9.6	10.2	9.8	3.1	3.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	5/12/1999	11/18/1999	5/10/2000	5/10/2000	10/31/2000	5/3/2001
	SAMPLE TIME	11:20	11:40	11:10	11:25	11:45	12:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	349-4932	L992056008	L000707006	L000707009	L001833010	L010608005
	SAMPLE NUMBER	EHC-9905-217	EHC-9911-159	EHC-0005-157	EHC-0005-173	EHC-0011-159	EHC-0105-192
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3) (D)	62 J	107	98	98	104	54
	Calcium (Ca) (DIS)(D)	19	31	25	26	29	18
	Carbonate As CO3 (D)	<1 UJ	<1	<1	<1	<1	<1
	Chloride (Cl) (D)	3.3	3.3 J	3.2	3.3	4.8 J	2.6 J
	Magnesium (Mg) (DIS)(D)	<5	7.1	5.9	5.9	6.8	<5
	Potassium (K) (DIS)(D)	<5	<5	<5	<5	<5	<5
	Sodium (Na) (DIS)(D)	8.7	16	13	13	18	6.7
	Sulfate (SO4) (D)	30	49	42	39	47	42
	Total Alkalinity As CaCO3 (D)	51 J	88	80	80	85	44
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)(D)	<0.005	0.007	<0.005	<0.005	0.006	<0.005
	Arsenic (As) (TOT)(D)	0.007	0.007	0.006	0.005	0.008	0.005
	Arsenic III (dis)(D)	<0.005	<0.005	0.009 U	0.007 U	<0.02	<0.005
	Arsenic V (dis)(D)	0.008	<0.005	0.01 U	0.01 U	<0.02	<0.005
	Cadmium (Cd) (DIS)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Cadmium (Cd) (TOT)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)(D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
	Copper (Cu) (TOT)(D)	0.006	<0.004	<0.004	<0.004	0.004	<0.004
	Iron (Fe) (DIS)(D)	0.1 UJ	0.1	0.2 J	0.5 J	0.2 UJ	<0.05
	Iron (Fe) (TOT)(D)	1 J	0.3	0.6 U	0.5 U	0.4 UJ	0.5
	Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Lead (Pb) (TOT)(D)	0.01	0.007	0.008	0.007	0.01	0.007
	Manganese (Mn) (DIS)(D)	0.03	0.09	0.07	0.07	0.07	0.03
	Manganese (Mn) (TOT)(D)	0.1	0.09	0.09	0.09	0.08	0.07 UJ
	Zinc (Zn) (DIS)(D)	0.03	0.03	0.04	0.03	0.02	0.03
	Zinc (Zn) (TOT)(D)	0.07	0.04	0.05	0.05	0.03	0.05 U
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld) (D)	9.4	11.6	10.2	10.2	11.8	9.05
	pH (D)	7.8	8.1	8.1	8	7.9	8
	Eh (millivolts) (D)	363	472	363	363	321	295
	Flow (D)	87.6	21.7	21.7			79.9
	pH (Fld) (D)	6.7	9	8.3	8.3	8.3	7.9
	SC (umhos/cm at 25 C) (Fld) (D)	163	281	253	253	284	168
	SC (umhos/cm at 25 C) (D)	180	286	248	249	280	178
	Total Suspended Solids (D)	19	1.3			1.3	8.5
	TDS (Measured at 180 C) (D)	149	186	165	165	189	147

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	5/12/1999	11/18/1999	5/10/2000	5/10/2000	10/31/2000	5/3/2001
	SAMPLE TIME	11:20	11:40	11:10	11:25	11:45	12:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	349-4932	L992056008	L000707006	L000707009	L001833010	L010608005
	SAMPLE NUMBER	EHC-9905-217	EHC-9911-159	EHC-0005-157	EHC-0005-173	EHC-0011-159	EHC-0105-192
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Water Temperature (C) (Fld) (D)	7.3	4.7	10.6	10.6	8.3	7.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	11/16/2001	5/15/2002	11/6/2002	11/6/2002	4/30/2003	4/30/2003
	SAMPLE TIME	11:20	15:00	15:50	15:55	12:45	13:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011574006	L020363005	L020928001	L020928004	L030184003	L030184004
	SAMPLE NUMBER	EHC-0111-189	EHC-0205-220	EHC-0211-207	EHC-0211-223	EHC-0304-102	EHC-0304-103
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3)(D)	126	63	110	107	65	63
	Calcium (Ca) (DIS)(D)	31	23	32	32	21	21
	Carbonate As CO3 (D)	<1	<1	<1	<1	<2	<2
	Chloride (Cl) (D)	4.2	1.7	4.8	4.5	2.7	3.4
	Magnesium (Mg) (DIS)(D)	7.4	5.2	7.3	7.4	<5	<5
	Potassium (K) (DIS)(D)	<5	<5	<5	<5	<5	<5
	Sodium (Na) (DIS)(D)	18	8.7	16	16	8.4	8.2
	Sulfate (SO4) (D)	48	40	51	51	32	33
	Total Alkalinity As CaCO3 (D)	103	52	90	88	53	52
<b>Metals (mg/L): ppm unless noted</b>							
	Aluminum (Al) (DIS)(D)	<0.05					
	Aluminum (Al) (TOT)(D)	<0.05					
	Arsenic (As) (DIS)(D)	0.006		<0.005	<0.005	<0.005	<0.005
	Arsenic (As) (TOT)(D)	<0.005		<0.005	<0.005	<0.005	<0.005
	Arsenic (As) (TRC)(D)		<0.005				
	Arsenic III (dis)(D)	0.005					
	Arsenic V (dis)(D)	0.006					
	Cadmium (Cd) (DIS)(D)	<0.001		<0.001	<0.001	<0.001	<0.001
	Cadmium (Cd) (TOT)(D)	<0.001		<0.001	<0.001	<0.001	<0.001
	Cadmium (Cd) (TRC)(D)		<0.001				
	Copper (Cu) (DIS)(D)	<0.004		<0.004	<0.004	<0.004	<0.004
	Copper (Cu) (TOT)(D)	<0.004		<0.004	<0.004	0.004	0.004
	Copper (Cu) (TRC)(D)		0.004				
	Iron (Fe) (DIS)(D)	0.1		0.04	0.04	0.07	0.07
	Iron (Fe) (TOT)(D)	0.5		0.4	0.3	0.4	0.4
	Iron (Fe) (TRC)(D)		0.4				
	Lead (Pb) (DIS)(D)	<0.005		<0.005	<0.005	<0.005	<0.005
	Lead (Pb) (TOT)(D)	<0.005		<0.005	<0.005	<0.005	<0.005
	Lead (Pb) (TRC)(D)		0.006				
	Manganese (Mn) (DIS)(D)	0.09		0.06	0.06	0.04	0.04
	Manganese (Mn) (TOT)(D)	0.1		0.08	0.07	0.06	0.06
	Manganese (Mn) (TRC)(D)		0.08				
	Zinc (Zn) (DIS)(D)	0.02		<0.02	<0.02	0.04	0.04
	Zinc (Zn) (TOT)(D)	0.02		0.04	0.04	0.06	0.06
	Zinc (Zn) (TRC)(D)		0.05				
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Oxidation Reduction Potential (D)	155.8	-52.8				
	Oxygen (O) (DIS) (Fid) (D)	11.4	10.2	6.8	6.8	11.8	
	pH (D)	8.1	6.7	7	6.9	6.5	6.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	11/16/2001	5/15/2002	11/6/2002	11/6/2002	4/30/2003	4/30/2003
	SAMPLE TIME	11:20	15:00	15:50	15:55	12:45	13:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011574006	L020363005	L020928001	L020928004	L030184003	L030184004
	SAMPLE NUMBER	EHC-0111-189	EHC-0205-220	EHC-0211-207	EHC-0211-223	EHC-0304-102	EHC-0304-103
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		Field Duplicate

**Physical/Fld-Lab: ppm unless noted**

Silicon+Silica (Si+SiO2) (D)	19						
Eh (millivolts) (D)	364						
Flow (D)	14.9	55.7	24.9				
pH (Fld) (D)	8.4	7.9	7	7	6.6		
SC (umhos/cm at 25 C) (Fld) (D)	313	198	285	289	165		
SC (umhos/cm at 25 C) (D)	290	201	303	300	193	193	
Total Suspended Solids (D)	2.3 J	10	2.4	2	3.2	2.8	
TDS (Measured at 180 C) (D)	188	161	201	190	155	153	
Water Temperature (C) (Fld) (D)	5.3	10	3.2	3.2	6.8		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	10/22/2003	10/22/2003	4/29/2004	11/4/2004	6/9/2005	11/21/2005
	SAMPLE TIME	10:00	10:15	10:30	11:30	11:10	13:15
	LAB	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Hel	ELI-Hel
	LAB NUMBER	1030589-003	1030589-004	H04040214-008	H04110049-004	H05060096-003	H05110173-005
	SAMPLE NUMBER	EHC-0310-302	EHC-0310-303	AEH-0404-104	AEH-0411-230	AEH-0505-302	AEH-0511-231
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	101	99	78	98	44 J-	98
Calcium (Ca) (DIS)	35	35	25	30	15	35
Carbonate As CO3	<2	<2				
Chloride (Cl)	3.4	3.5	3	5 UJ	2	9
Magnesium (Mg) (DIS)	8.1	8.1	6	7	3	8
Potassium (K) (DIS)	<5	<5	3	3	1 J-	2
Sodium (Na) (DIS)	17	18	10	16	5 J-	15
Sulfate (SO4)	59	58	43	42	24	57
Total Alkalinity As CaCO3	101	99	64	80	36 J-	80

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.011	0.011	<0.005	0.005	<0.005	0.005
Arsenic (As) (TOT)	0.014	0.014	0.007			0.006
Arsenic (As) (TRC)				0.005	0.005	
Arsenic III (Dis)				<0.001		
Arsenic V (Dis)				0.004		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)	<0.001	<0.001	<0.001			<0.001
Cadmium (Cd) (TRC)				<0.001	<0.001	
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)	0.005	0.004	<0.004			<0.004
Copper (Cu) (TRC)				<0.004	0.005	
Iron (Fe) (DIS)	0.049	0.051	0.09	0.07	0.04	0.09
Iron (Fe) (TOT)	0.38	0.39	0.38			0.27
Iron (Fe) (TRC)				0.2 J	0.55	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	0.005	0.005	0.006			<0.005
Lead (Pb) (TRC)				<0.005	0.008	
Manganese (Mn) (DIS)	0.11	0.11	0.06	0.06	0.02	0.09
Manganese (Mn) (TOT)	0.13	0.13	0.09			0.11
Manganese (Mn) (TRC)				0.06 J	0.05	
Zinc (Zn) (DIS)	<0.02	<0.02	0.03	0.02	0.03	0.05
Zinc (Zn) (TOT)	<0.02	<0.02	0.03 UJ			0.08
Zinc (Zn) (TRC)				0.02	0.06	

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	10.96		8.81	12.06	10.39	11.07
pH	7.9	7.9	7.9	7.9	7.5	8
Flow (cfs)	13.79		49.21	21.4	611 E	28.5
pH (Fld)	7.82		7.1	6.6	7.77	7.4
SC (umhos/cm at 25 C) (Fld)	338		287	290	122	297

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	10/22/2003	10/22/2003	4/29/2004	11/4/2004	6/9/2005	11/21/2005
	SAMPLE TIME	10:00	10:15	10:30	11:30	11:10	13:15
	LAB	TSC-SLC	TSC-SLC	ELI	ELI	ELI-Hel	ELI-Hel
	LAB NUMBER	1030589-003	1030589-004	H04040214-008	H04110049-004	H05060096-003	H05110173-005
	SAMPLE NUMBER	EHC-0310-302	EHC-0310-303	AEH-0404-104	AEH-0411-230	AEH-0505-302	AEH-0511-231
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Physical/Fld-Lab: ppm unless noted**

SC (umhos/cm at 25 C)	334	333	197	285	123	308
Total Suspended Solids	4.8	3.9	<10	<10	<10	<10
TDS (Measured at 180 C)	218	212	161	176	87	205
Salinity (G/KG) (Fld)	0.1					
Turbidity (NTU) (Fld)	2					
Water Temperature (C) (Fld)	9.2		6.9	3	8.1	3.03

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	11/21/2005	5/12/2006	5/12/2006	12/8/2006	12/8/2006	6/6/2007
	SAMPLE TIME	13:20	10:40	10:50	11:15	11:35	11:15
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI	EPA-R8
	LAB NUMBER	H05110173-006	H06050154-003	H06050154-004	H06120060-003	H06120060-004	8705007-18
	SAMPLE NUMBER	AEH-0511-232	AEH-0605-235	AEH-0605-236	AEH-0611-236	AEH-0611-237	AEH-0705-302
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						AEH-0705-302-S
	REMARKS	Field Duplicate		Field Duplicate		Field Duplicate	Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	100	70	69	100	100
Calcium (Ca) (DIS)	35	24	24	37	37
Chloride (Cl)	9	4	3	5	5
Magnesium (Mg) (DIS)	8	6	5	7	7
Potassium (K) (DIS)	2	2	2	3	3
Sodium (Na) (DIS)	16	9	9	15	15
Sulfate (SO4)	54	32	31	58	56
Total Alkalinity As CaCO3	84	57	56	85	83

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)						<0.1
Aluminum (Al) (TOT)						0.298
Antimony (Sb) (DIS)						<0.001
Antimony (Sb) (TOT)						<0.001
Arsenic (As) (DIS)	0.005	0.004	0.003	0.004	0.004	0.0051
Arsenic (As) (TOT)	0.006	0.004	0.004	0.005	0.005	<0.004
Barium (Ba) (DIS)						0.013
Barium (Ba) (TOT)						0.016
Beryllium (Be) (DIS)						<0.001
Beryllium (Be) (TOT)						<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	0.0002
Cadmium (Cd) (TOT)	<0.001	<0.001	<0.001	<0.001	<0.001	0.0003
Chromium (Cr) (DIS)						<0.002
Chromium (Cr) (TOT)						<0.002
Cobalt (Co) (DIS)						<0.002
Cobalt (Co) (TOT)						<0.002
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.01
Copper (Cu) (TOT)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.01
Iron (Fe) (DIS)	0.09	0.06	0.06	0.07	0.07	<0.1
Iron (Fe) (TOT)	0.26	0.18	0.18	0.26	0.26	0.492
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	0.0016
Lead (Pb) (TOT)	<0.005	<0.005	<0.005	<0.005	<0.005	0.0081
Manganese (Mn) (DIS)	0.09	0.04	0.04	0.09	0.09	0.036
Manganese (Mn) (TOT)	0.11	0.06	0.06	0.1	0.1	0.067
Mercury (Hg) (DIS)						<0.0001
Mercury (Hg) (TOT)						<0.0001
Nickel (Ni) (DIS)						0.001
Nickel (Ni) (TOT)						0.001
Selenium (Se) (DIS)						<0.001

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	11/21/2005	5/12/2006	5/12/2006	12/8/2006	12/8/2006	6/6/2007
	SAMPLE TIME	13:20	10:40	10:50	11:15	11:35	11:15
	LAB	ELI-Hel	ELI-Hel	ELI-Hel	ELI	ELI	EPA-R8
	LAB NUMBER	H05110173-006	H06050154-003	H06050154-004	H06120060-003	H06120060-004	8705007-18
	SAMPLE NUMBER	AEH-0511-232	AEH-0605-235	AEH-0605-236	AEH-0611-236	AEH-0611-237	AEH-0705-302
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						AEH-0705-302-S
	REMARKS	Field Duplicate		Field Duplicate		Field Duplicate	Split

**Metals (mg/L): ppm unless noted**

Selenium (Se) (TOT)							<0.001
Silver (Ag) (DIS)							<0.0005
Silver (Ag) (TOT)							<0.0005
Thallium (Tl) (DIS)							<0.0003
Thallium (Tl) (TOT)							<0.0003
Tin (Sn) (DIS)							<0.2
Tin (Sn) (TOT)							<0.2
Vanadium (V) (DIS)							<0.01
Vanadium (V) (TOT)							<0.01
Zinc (Zn) (DIS)	0.05	0.04	0.04	0.07	0.06		<0.04
Zinc (Zn) (TOT)	0.07	0.05	0.05	0.07	0.07		0.057

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential				55.5			
Oxygen (O) (DIS) (Fld)		8.3		12.57			
pH	8.1	7.6	7.7	7.9	7.8		
Flow (cfs)				0.12			
Flow (feet)		81.3					
pH (Fld)		7.72		7.48			
SC (umhos/cm at 25 C) (Fld)		181		309			
SC (umhos/cm at 25 C)	302	199	200	333	329		
Total Suspended Solids	<10	<10	<10	<10	<10		
TDS (Measured at 180 C)	239	134	130	211	212		
Water Temperature (C) (Fld)		9.65		0.35			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	6/6/2007	6/6/2007	6/6/2007	10/31/2007	4/30/2008	10/24/2008
	SAMPLE TIME	11:15	11:20	11:20	12:20	11:35	10:40
	LAB	ELI	EPA-R8	ELI	ELI	ELI	ELI
	LAB NUMBER	H07060063-003	8705007-19	H07060063-004	H07100380-003	H08040470-004	H08100323-004
	SAMPLE NUMBER	AEH-0705-302	AEH-0705-303	AEH-0705-303	AEH-0711-302	AEH-0805-112	AEH-0811-103
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	EPA Split	AEH-0705-303-S	EPA Split			
	REMARKS		Split	Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	51		54			88	91
Bicarbonate (HCO3) (dis)					120		
Calcium (Ca) (DIS)	16		16		35	32	28
Chloride (Cl)	2		2		5	4	4
Magnesium (Mg) (DIS)	3		3		8	7	6
Potassium (K) (DIS)	2		2		3	2	3
Sodium (Na) (DIS)	6		6		16	12	13
Sulfate (SO4)	23		25		55	43	48
Total Alkalinity As CaCO3	42		44		98	72	75

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.1	<0.1	<0.1			<0.1	
Aluminum (Al) (TOT)	0.3	0.272	0.2			<0.1	
Antimony (Sb) (DIS)	<0.005	<0.001	<0.005			<0.005	
Antimony (Sb) (TOT)	<0.005	<0.001	<0.005			<0.005	
Arsenic (As) (DIS)	<0.005	0.005	<0.005	0.009		0.005	0.005
Arsenic (As) (TOT)	0.005	<0.004	0.006	0.01		0.006	0.006
Barium (Ba) (DIS)	<0.1	0.013	<0.1			<0.1	
Barium (Ba) (TOT)	<0.1	0.016	<0.1			<0.1	
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001			<0.001	
Beryllium (Be) (TOT)	<0.001	<0.001	<0.001			<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.0002	0.002	<0.001		<0.001	<0.001
Cadmium (Cd) (TOT)	<0.001	0.0003	<0.001	<0.001		<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.002	<0.001			<0.001	
Chromium (Cr) (TOT)	<0.001	<0.002	<0.001			<0.001	
Cobalt (Co) (DIS)	<0.01	<0.002	<0.01			<0.01	
Cobalt (Co) (TOT)	<0.01	<0.002	<0.01			<0.01	
Copper (Cu) (DIS)	<0.004	<0.01	<0.004	<0.004		<0.004	<0.004
Copper (Cu) (TOT)	<0.004	<0.01	0.005	<0.004		0.005	<0.004
Iron (Fe) (DIS)	0.07	<0.1	0.07	0.14		0.08	0.19
Iron (Fe) (TOT)	0.45	0.471	0.41	0.29		0.32	0.35
Lead (Pb) (DIS)	<0.005	<0.001	<0.005	<0.005		<0.005	<0.005
Lead (Pb) (TOT)	0.008	0.0078	0.007	<0.005		0.005	<0.005
Manganese (Mn) (DIS)	0.04	0.036	0.04	0.09		0.06	0.08
Manganese (Mn) (TOT)	0.07	0.068	0.07	0.09		0.07	0.09
Mercury (Hg) (DIS)	<0.006	<0.0001	<0.006			<0.006	
Mercury (Hg) (TOT)	<0.006	<0.0001	<0.006			<0.006	
Nickel (Ni) (DIS)	<0.01	0.001	<0.01			<0.01	
Nickel (Ni) (TOT)	<0.01	0.001	<0.01			<0.01	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5	PPC-5
Water	SAMPLE DATE	6/6/2007	6/6/2007	6/6/2007	10/31/2007	4/30/2008	10/24/2008
	SAMPLE TIME	11:15	11:20	11:20	12:20	11:35	10:40
	LAB	ELI	EPA-R8	ELI	ELI	ELI	ELI
	LAB NUMBER	H07060063-003	8705007-19	H07060063-004	H07100380-003	H08040470-004	H08100323-004
	SAMPLE NUMBER	AEH-0705-302	AEH-0705-303	AEH-0705-303	AEH-0711-302	AEH-0805-112	AEH-0811-103
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION	EPA Split	AEH-0705-303-S	EPA Split			
	REMARKS		Split	Field Duplicate			

**Metals (mg/L): ppm unless noted**

Selenium (Se) (DIS)		<0.001		<0.005	<0.005	<0.005
Selenium (Se) (TOT)		<0.001		<0.005	<0.005	<0.005
Silver (Ag) (DIS)	<0.005	<0.0005	<0.005		<0.005	
Silver (Ag) (TOT)	<0.005	<0.0005	<0.005		<0.005	
Thallium (Tl) (DIS)	<0.002	<0.0003	<0.002		<0.002	
Thallium (Tl) (TOT)	<0.002	<0.0003	<0.002		<0.002	
Tin (Sn) (DIS)	<0.1	<0.2	<0.1			
Tin (Sn) (TOT)	<0.1	<0.2	<0.1			
Vanadium (V) (DIS)	<0.01	<0.01	<0.01		<0.01	
Vanadium (V) (TOT)	<0.01	<0.01	<0.01		<0.01	
Zinc (Zn) (DIS)	0.04	<0.04	0.05	0.03	0.03	0.06
Zinc (Zn) (TOT)	0.06	0.057	0.06	0.03	0.04	0.07

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	9.97			10.5	8.97	12.1
pH	7.8		7.8	7.9	7.8	8
Flow (cfs)	237.6			22.27	47.69	22.65
pH (Fld)	7.33			7.86	7.63	7.75
SC (umhos/cm at 25 C) (Fld)	133			328	258	258
SC (umhos/cm at 25 C)	136		137	358	252	249
Total Suspended Solids	<10		<10	<10	<10	<10
TDS (Measured at 180 C)	99		101	208	165	167
Water Temperature (C) (Fld)	10.45			4.8	7.96	4.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-6	PPC-6	PPC-6	PPC-6
Water	SAMPLE DATE	5/1/2009	11/6/1984	11/6/1984	1/11/1985	1/11/1985
	SAMPLE TIME	10:05	00:00	00:00	00:00	00:00
	LAB	ELI	TSC-SLC	CAL	TSC-SLC	CAL
	LAB NUMBER	H09050036-004	84-10991	S5407	85-536	S5665
	SAMPLE NUMBER	AEH-0905-103	AEH-8411-24	AEH-8411-24-S	AEH-8501-104	AEH-8501-104
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Split		Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	75			
Bicarbonate (HCO3) (D)		106	117	122
Calcium (Ca) (DIS)	23			
Calcium (Ca) (DIS)(D)		32	26.4	24.5
Chloride (Cl)	4			
Chloride (Cl) (D)		6.9	4	4.6
Magnesium (Mg) (DIS)	5			
Magnesium (Mg) (DIS)(D)		7.9	5.8	5.9
Potassium (K) (DIS)	2			
Potassium (K) (DIS)(D)		2.8	1.1	3.5
Sodium (Na) (DIS)	9			
Sodium (Na) (DIS)(D)		13	17.2	15.7
Sulfate (SO4)	37			
Sulfate (SO4) (D)		49	48	55
Total Alkalinity As CaCO3	62			
Total Alkalinity As CaCO3 (D)		87	96	100

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05 J			
Aluminum (Al) (DIS)(D)			0.2	<0.2
Aluminum (Al) (TOT)	0.12			
Aluminum (Al) (TOT)(D)			0.2	<0.2
Aluminum (Al) (TRC)	0.12			
Antimony (Sb) (DIS)	<0.003			
Antimony (Sb) (DIS)(D)			<0.01	<0.01
Antimony (Sb) (TOT)	<0.003			
Antimony (Sb) (TOT)(D)			<0.01	<0.01
Antimony (Sb) (TRC)	<0.003			
Arsenic (As) (DIS)	0.0036 J			
Arsenic (As) (DIS)(D)		0.02	0.02	0.03
Arsenic (As) (TOT)	0.0039			
Arsenic (As) (TOT)(D)		0.02	0.008	0.04
Arsenic (As) (TRC)	0.0046			
Barium (Ba) (DIS)	<0.1			
Barium (Ba) (DIS)(D)			0.02	0.02
Barium (Ba) (TOT)	<0.1			
Barium (Ba) (TOT)(D)			0.02	0.02
Barium (Ba) (TRC)	<0.1			
Beryllium (Be) (DIS)	<0.001			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-6	PPC-6	PPC-6	PPC-6
Water	SAMPLE DATE	5/1/2009	11/6/1984	11/6/1984	1/11/1985	1/11/1985
	SAMPLE TIME	10:05	00:00	00:00	00:00	00:00
	LAB	ELI	TSC-SLC	CAL	TSC-SLC	CAL
	LAB NUMBER	H09050036-004	84-10991	S5407	85-536	S5665
	SAMPLE NUMBER	AEH-0905-103	AEH-8411-24	AEH-8411-24-S	AEH-8501-104	AEH-8501-104
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Split		Split

**Metals (mg/L): ppm unless noted**

Beryllium (Be) (DIS)(D)			<0.0006		<0.0006
Beryllium (Be) (TOT)	<0.001				
Beryllium (Be) (TOT)(D)			<0.0006		<0.0006
Beryllium (Be) (TRC)	<0.001				
Cadmium (Cd) (DIS) UJ	0.0018				
Cadmium (Cd) (DIS)(D)		0.003	<0.004	<0.001	<0.004
Cadmium (Cd) (TOT) UJ	0.0002				
Cadmium (Cd) (TOT)(D)		0.004	<0.004	0.001	<0.004
Cadmium (Cd) (TRC) UJ	<0.0001				
Chromium (Cr) (DIS)	<0.001				
Chromium (Cr) (DIS)(D)			<0.002		<0.002
Chromium (Cr) (TOT) UJ	0.005				
Chromium (Cr) (TOT)(D)			<0.002		<0.002
Chromium (Cr) (TRC)	0.002				
Cobalt (Co) (DIS) UJ	0.0019				
Cobalt (Co) (DIS)(D)			0.007		<0.007
Cobalt (Co) (TOT)	<0.0005				
Cobalt (Co) (TOT)(D)			<0.007		<0.007
Cobalt (Co) (TRC)	<0.0005				
Copper (Cu) (DIS)	0.002				
Copper (Cu) (DIS)(D)		0.008	0.03		0.001
Copper (Cu) (TOT)	0.003				
Copper (Cu) (TOT)(D)		0.01	0.003		0.004
Copper (Cu) (TRC)	0.004				
Gold (Au) (DIS) UJ	<0.01				
Gold (Au) (TOT)	<0.01				
Gold (Au) (TRC)	<0.01				
Iron (Fe) (DIS)	0.08				
Iron (Fe) (DIS)(D)		0.09	0.2		0.09
Iron (Fe) (TOT)	0.29				
Iron (Fe) (TOT)(D)		0.3	0.3		0.3
Iron (Fe) (TRC)	0.27				
Lead (Pb) (DIS)	0.0005				
Lead (Pb) (DIS)(D)		0.009	<0.003	<0.005	<0.003
Lead (Pb) (TOT)	0.0028				
Lead (Pb) (TOT)(D)		0.009	0.004	0.009	<0.003
Lead (Pb) (TRC)	0.0026				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-6	PPC-6	PPC-6	PPC-6
Water	SAMPLE DATE	5/1/2009	11/6/1984	11/6/1984	1/11/1985	1/11/1985
	SAMPLE TIME	10:05	00:00	00:00	00:00	00:00
	LAB	ELI	TSC-SLC	CAL	TSC-SLC	CAL
	LAB NUMBER	H09050036-004	84-10991	S5407	85-536	S5665
	SAMPLE NUMBER	AEH-0905-103	AEH-8411-24	AEH-8411-24-S	AEH-8501-104	AEH-8501-104
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Split		Split

**Metals (mg/L): ppm unless noted**

Manganese (Mn) (DIS)	0.04			
Manganese (Mn) (DIS)(D)		0.07	0.06	0.09
Manganese (Mn) (TOT)	0.05			
Manganese (Mn) (TOT)(D)		0.08	0.08	0.1
Manganese (Mn) (TRC)	0.05			
Mercury (Hg) (DIS)	<0.00001			
Mercury (Hg) (DIS)(D)			<0.0002	<0.0002
Mercury (Hg) (TOT)	<0.00001			
Mercury (Hg) (TOT)(D)			<0.0002	<0.0002
Nickel (Ni) (DIS)	<0.01			
Nickel (Ni) (DIS)(D)			<0.03	<0.03
Nickel (Ni) (TOT)	<0.01			
Nickel (Ni) (TOT)(D)			<0.03	<0.03
Nickel (Ni) (TRC)	<0.01			
Selenium (Se) (DIS)	0.002			
Selenium (Se) (DIS)(D)			<0.002	<0.002
Selenium (Se) (TOT)	<0.001			
Selenium (Se) (TOT)(D)			<0.002	<0.002
Selenium (Se) (TRC)	<0.001			
Silver (Ag) (DIS)	<0.0005 J			
Silver (Ag) (DIS)(D)			<0.003	<0.003
Silver (Ag) (TOT)	<0.0005			
Silver (Ag) (TOT)(D)			<0.003	<0.003
Silver (Ag) (TRC)	<0.0005			
Tellurium (Te) (DIS)	<0.1			
Tellurium (Te) (TOT)	<0.1			
Tellurium (Te) (TRC)	<0.1			
Thallium (Tl) (DIS)	<0.0002			
Thallium (Tl) (DIS)(D)			<0.002	<0.002
Thallium (Tl) (TOT)	<0.0002			
Thallium (Tl) (TOT)(D)			0.002	<0.002
Thallium (Tl) (TRC)	<0.0002			
Tin (Sn) (DIS)(D)			<0.04	<0.04
Tin (Sn) (TOT)(D)			<0.04	<0.04
Vanadium (V) (DIS)	<0.01			
Vanadium (V) (DIS)(D)			<0.004	<0.004
Vanadium (V) (TOT)	<0.01			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-5	PPC-6	PPC-6	PPC-6	PPC-6
Water	SAMPLE DATE	5/1/2009	11/6/1984	11/6/1984	1/11/1985	1/11/1985
	SAMPLE TIME	10:05	00:00	00:00	00:00	00:00
	LAB	ELI	TSC-SLC	CAL	TSC-SLC	CAL
	LAB NUMBER	H09050036-004	84-10991	S5407	85-536	S5665
	SAMPLE NUMBER	AEH-0905-103	AEH-8411-24	AEH-8411-24-S	AEH-8501-104	AEH-8501-104
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Split		Split
<b>Metals (mg/L): ppm unless noted</b>						
	Vanadium (V) (TOT)(D)			<0.004		<0.004
	Vanadium (V) (TRC)	<0.01				
	Zinc (Zn) (DIS)	0.05				
	Zinc (Zn) (DIS)(D)		0.06	<0.003	0.06	0.06
	Zinc (Zn) (TOT)	0.05				
	Zinc (Zn) (TOT)(D)		0.1	0.02	0.08	0.07
	Zinc (Zn) (TRC)	0.06				
<b>Physical/Fld-Lab: ppm unless noted</b>						
	Oxygen (O) (DIS) (Fld)	11.5				
	pH	7.9				
	pH (D)		7.9	7.9	7.8	7.9
	Flow (cfs)	68.35				
	Flow (D)		30.7		21.4	
	pH (Fld)	7.5				
	SC (umhos/cm at 25 C) (Fld)	218				
	SC (umhos/cm at 25 C) (D)		286.5		310.5	
	SC (umhos/cm at 25 C)	221				
	SC (umhos/cm at 25 C) (D)		153	183	338	200
	Total Suspended Solids	<10				
	Total Suspended Solids (D)			9	<1	7
	TDS (Measured at 180 C)	140				
	TDS (Measured at 180 C) (D)		196	190	212	210
	Water Temperature (C) (Fld)	3.3				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6
Water	SAMPLE DATE	1/11/1985	4/2/1985	5/7/1985	6/5/1985	6/5/1985	7/1/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	CAL	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	JTC
	LAB NUMBER	S5667	85-2350	85-3499	85-4088	85-4096	73-2096
	SAMPLE NUMBER	AEH-8501-104	AEH-8504-333	AEH-8505-433	AEH-8506-506	AEH-8506-534	AEH-8507-612
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate		Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	122	117
Calcium (Ca) (DIS)(D)	28.2	36.4
Chloride (Cl) (D)	5.6	3.5
Magnesium (Mg) (DIS)(D)	6.9	7.9
Potassium (K) (DIS)(D)	1.9	2.9
Sodium (Na) (DIS)(D)	21.2	23
Sulfate (SO4) (D)	55	68.9
Total Alkalinity As CaCO3 (D)	100	96

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)	0.5	<0.2
Aluminum (Al) (TOT)(D)	<0.2	0.4
Antimony (Sb) (DIS)(D)	<0.01	<0.05
Antimony (Sb) (TOT)(D)	<0.01	<0.05
Arsenic (As) (DIS)(D)	0.02	0.02
Arsenic (As) (TOT)(D)	0.02	0.03
Barium (Ba) (DIS)(D)	0.03	<0.05
Barium (Ba) (TOT)(D)	0.02	<0.05
Beryllium (Be) (DIS)(D)	<0.0006	<0.004
Beryllium (Be) (TOT)(D)	<0.0006	<0.004
Cadmium (Cd) (DIS)(D)	<0.004	0.001
Cadmium (Cd) (TOT)(D)	<0.004	0.004
Chromium (Cr) (DIS)(D)	<0.002	<0.001
Chromium (Cr) (TOT)(D)	<0.002	<0.001
Cobalt (Co) (DIS)(D)	<0.007	<0.008
Cobalt (Co) (TOT)(D)	<0.007	<0.008
Copper (Cu) (DIS)(D)	0.008	<0.02
Copper (Cu) (TOT)(D)	0.005	<0.02
Iron (Fe) (DIS)(D)	0.3	<0.05
Iron (Fe) (TOT)(D)	0.2	0.5
Lead (Pb) (DIS)(D)	<0.003	<0.005
Lead (Pb) (TOT)(D)	<0.003	0.02
Manganese (Mn) (DIS)(D)	0.1	0.007
Manganese (Mn) (TOT)(D)	0.1	0.03
Mercury (Hg) (DIS)(D)	<0.0002	<0.0001
Mercury (Hg) (TOT)(D)	<0.0002	0.0002
Nickel (Ni) (DIS)(D)	<0.03	<0.02
Nickel (Ni) (TOT)(D)	<0.03	<0.02
Selenium (Se) (DIS)(D)	<0.002	<0.004

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6
Water	SAMPLE DATE	1/11/1985	4/2/1985	5/7/1985	6/5/1985	6/5/1985	7/1/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	CAL	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	JTC
	LAB NUMBER	S5667	85-2350	85-3499	85-4088	85-4096	73-2096
	SAMPLE NUMBER	AEH-8501-104	AEH-8504-333	AEH-8505-433	AEH-8506-506	AEH-8506-534	AEH-8507-612
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate		Split

**Metals (mg/L): ppm unless noted**

Selenium (Se) (TOT)(D)	<0.002						<0.004
Silver (Ag) (DIS)(D)	<0.003						<0.006
Silver (Ag) (TOT)(D)	<0.003						<0.006
Thallium (Tl) (DIS)(D)	<0.002						<0.002
Thallium (Tl) (TOT)(D)	<0.002						0.002
Tin (Sn) (DIS)(D)	<0.04						<0.03
Tin (Sn) (TOT)(D)	<0.04						<0.03
Vanadium (V) (DIS)(D)	<0.004						<0.03
Vanadium (V) (TOT)(D)	<0.004						<0.03
Zinc (Zn) (DIS)(D)	0.06	0.04	0.03	0.06	0.04		0.02
Zinc (Zn) (TOT)(D)	0.07	0.1	0.1	0.07	0.07		0.07

**Physical/Fld-Lab: ppm unless noted**

pH (D)	7.9	7.4	8		7.8	7.9
Flow (D)		39.1	62.3		48.6	
SC (umhos/cm at 25 C) (Fld) (D)		289.4	211.2		225.3	308.4
SC (umhos/cm at 25 C) (D)	190	302	217		244	273
Total Suspended Solids (D)	8	8.2	2.8		5	12
TDS (Measured at 180 C) (D)	220	185	156		162	185

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6
Water	SAMPLE DATE	7/1/1985	8/5/1985	8/5/1985	8/5/1985	9/13/1985	9/13/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	JTC	TSC-SLC	JTC	TSC-SLC
	LAB NUMBER	85-4753	85-6032	73-2175	85-6040	8509-815	85-7018
	SAMPLE NUMBER	AEH-8507-612	AEH-8508-713	AEH-8508-742	AEH-8508-742	AEH-8509-815	AEH-8509-815
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Split		Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	125
Calcium (Ca) (DIS)(D)	39.1
Chloride (Cl) (D)	5.05
Magnesium (Mg) (DIS)(D)	8.7
Potassium (K) (DIS)(D)	3.8
Sodium (Na) (DIS)(D)	22.7
Sulfate (SO4) (D)	78.1
Total Alkalinity As CaCO3 (D)	102.5

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)	<0.2				
Aluminum (Al) (TOT)(D)	<0.2				
Antimony (Sb) (DIS)(D)	<0.05				
Antimony (Sb) (TOT)(D)	<0.05				
Arsenic (As) (DIS)(D)	0.03	0.1	0.07	0.08	0.02
Arsenic (As) (TOT)(D)	0.03	0.1	0.07	0.09	0.02
Barium (Ba) (DIS)(D)	<0.05				
Barium (Ba) (TOT)(D)	<0.05				
Beryllium (Be) (DIS)(D)	<0.004				
Beryllium (Be) (TOT)(D)	<0.004				
Cadmium (Cd) (DIS)(D)	<0.001	<0.001	<0.004	0.001	<0.001
Cadmium (Cd) (TOT)(D)	0.008	0.003	<0.004	0.003	<0.001
Chromium (Cr) (DIS)(D)	<0.008				
Chromium (Cr) (TOT)(D)	<0.008				
Cobalt (Co) (DIS)(D)	<0.008				
Cobalt (Co) (TOT)(D)	<0.008				
Copper (Cu) (DIS)(D)	<0.02				
Copper (Cu) (TOT)(D)	<0.02				
Iron (Fe) (DIS)(D)	<0.05				
Iron (Fe) (TOT)(D)	0.4				
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.002	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.05	0.04	<0.03	0.04	0.02
Manganese (Mn) (DIS)(D)	0.3				
Manganese (Mn) (TOT)(D)	0.3				
Mercury (Hg) (DIS)(D)	0.0002				
Mercury (Hg) (TOT)(D)	<0.0001				
Nickel (Ni) (DIS)(D)	<0.02				
Nickel (Ni) (TOT)(D)	<0.02				
Selenium (Se) (DIS)(D)	0.008				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6
Water	SAMPLE DATE	7/1/1985	8/5/1985	8/5/1985	8/5/1985	9/13/1985	9/13/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	JTC	TSC-SLC	JTC	TSC-SLC
	LAB NUMBER	85-4753	85-6032	73-2175	85-6040	8509-815	85-7018
	SAMPLE NUMBER	AEH-8507-612	AEH-8508-713	AEH-8508-742	AEH-8508-742	AEH-8509-815	AEH-8509-815
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Split		Split

**Metals (mg/L): ppm unless noted**

Selenium (Se) (TOT)(D)				0.008		
Silver (Ag) (DIS)(D)				<0.006		
Silver (Ag) (TOT)(D)				<0.006		
Thallium (Tl) (DIS)(D)				<0.002		
Thallium (Tl) (TOT)(D)				<0.002		
Tin (Sn) (DIS)(D)				<0.03		
Tin (Sn) (TOT)(D)				<0.03		
Vanadium (V) (DIS)(D)				<0.03		
Vanadium (V) (TOT)(D)				<0.03		
Zinc (Zn) (DIS)(D)	0.02	0.03		<0.01	0.03	0.03
Zinc (Zn) (TOT)(D)	0.08	0.05		0.06	0.05	0.08

**Physical/Fld-Lab: ppm unless noted**

pH (D)	7.9			8.08	8	7.4
Flow (D)	14.3				11.8	27.5
SC (umhos/cm at 25 C) (Fld) (D)		318.9			319.4	274.1
SC (umhos/cm at 25 C) (D)	324			312	331	260
Total Suspended Solids (D)	1.3			8	1	5.9
TDS (Measured at 180 C) (D)	205			188	223	165

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6
Water	SAMPLE DATE	9/13/1985	10/15/1986	5/7/1987	8/18/1987	8/18/1987	1/6/1995
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	12:00
	LAB	JTC	TSC-SLC	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC
	LAB NUMBER	8509-815SD	86-6944	87-3039	8708-60	87-6858	95-79002
	SAMPLE NUMBER	AEH-8509-815 SD	AEH-8610-127	AEH-8705-110	AEH-8708-60	AEH-8708-60	EPPC-9501-102
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Split		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	102	98	76	78	101	
Calcium (Ca) (DIS)(D)	30.8			26.3		37
Carbonate As CO3 (D)				<5		
Chloride (Cl) (D)	1.8			2		
Magnesium (Mg) (DIS)(D)	6.9			6.3		9.1
Potassium (K) (DIS)(D)	2.7			2.5		
Sodium (Na) (DIS)(D)	11.3			11.6		
Sulfate (SO4) (D)	19.6	50	32	40	33	63
Total Alkalinity As CaCO3 (D)	84					
Total Hardness As CaCO3 (D)						131

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)	<0.2					
Aluminum (Al) (TOT)(D)	0.2					
Aluminum (Al) (TRC)(D)						<0.1
Antimony (Sb) (DIS)(D)	0.08					
Antimony (Sb) (TOT)(D)	<0.05					
Arsenic (As) (DIS)(D)	0.04	0.02	0.01	0.02	0.02	
Arsenic (As) (TOT)(D)	0.009	0.02	0.01	0.02	0.03	
Arsenic (As) (TRC)(D)						0.007
Barium (Ba) (DIS)(D)	<0.05					
Barium (Ba) (TOT)(D)	<0.05					
Beryllium (Be) (DIS)(D)	<0.004					
Beryllium (Be) (TOT)(D)	<0.004					
Beryllium (Be) (TRC)(D)						<0.001
Cadmium (Cd) (DIS)(D)	<0.004	0.001	<0.001	0.0003	<0.001	
Cadmium (Cd) (TOT)(D)	<0.004	<0.001	0.001	0.0009	0.001	
Cadmium (Cd) (TRC)(D)						<0.001
Chromium (Cr) (DIS)(D)	<0.008					
Chromium (Cr) (TOT)(D)	<0.008					
Chromium (Cr) (TRC)(D)						0.001 U
Cobalt (Co) (DIS)(D)	<0.008					
Cobalt (Co) (TOT)(D)	<0.008					
Copper (Cu) (DIS)(D)	<0.02			<0.002		
Copper (Cu) (TOT)(D)	<0.02			0.005		
Copper (Cu) (TRC)(D)						<0.008
Iron (Fe) (DIS)(D)	0.07	0.09	0.06	0.05	0.05	
Iron (Fe) (TOT)(D)	0.4	0.3	0.4	0.3	0.3	
Iron (Fe) (TRC)(D)						0.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6
Water	SAMPLE DATE	9/13/1985	10/15/1986	5/7/1987	8/18/1987	8/18/1987	1/6/1995
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	12:00
	LAB	JTC	TSC-SLC	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC
	LAB NUMBER	8509-815SD	86-6944	87-3039	8708-60	87-6858	95-79002
	SAMPLE NUMBER	AEH-8509-815 SD	AEH-8610-127	AEH-8705-110	AEH-8708-60	AEH-8708-60	EPPC-9501-102
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate				Split	

**Metals (mg/L): ppm unless noted**

Lead (Pb) (DIS)(D)	<0.002	<0.005	0.006 M	0.003	0.01 M	
Lead (Pb) (TOT)(D)	<0.03	0.01	0.02 M	0.03	0.02	
Lead (Pb) (TRC)(D)						<0.005
Manganese (Mn) (DIS)(D)	0.06			0.07		
Manganese (Mn) (TOT)(D)	0.1			0.1		
Manganese (Mn) (TRC)(D)						0.09
Mercury (Hg) (DIS)(D)	<0.0001					
Mercury (Hg) (TOT)(D)	0.005					
Mercury (Hg) (TRC)(D)						<0.0002
Nickel (Ni) (DIS)(D)	<0.02					
Nickel (Ni) (TOT)(D)	<0.02					
Nickel (Ni) (TRC)(D)						<0.01
Selenium (Se) (DIS)(D)	<0.004					
Selenium (Se) (TOT)(D)	<0.004					
Selenium (Se) (TRC)(D)						<0.001
Silver (Ag) (DIS)(D)	0.02					
Silver (Ag) (TOT)(D)	<0.006					
Silver (Ag) (TRC)(D)						<0.002
Thallium (Tl) (DIS)(D)	0.004					
Thallium (Tl) (TOT)(D)	0.004					
Thallium (Tl) (TRC)(D)						<0.003
Tin (Sn) (DIS)(D)	<0.03					
Tin (Sn) (TOT)(D)	<0.03					
Vanadium (V) (DIS)(D)	<0.03					
Vanadium (V) (TOT)(D)	<0.03					
Zinc (Zn) (DIS)(D)	0.02	0.05	0.03	0.03	0.03	
Zinc (Zn) (TOT)(D)	0.07	0.06	0.06	0.05	0.05	
Zinc (Zn) (TRC)(D)						0.07

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N) (D)						<0.1
Nitrate + Nitrite as N (D)						0.3

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)						12
pH (D)	7.8	7.7	8.01		7.8	
Flow (D)		41.9	65.7		39.5	0.0
pH (Fld) (D)			8.2 M	7.8	7.9	6.8
SC (umhos/cm at 25 C) (Fld) (D)		262	188.4	226.9	226.1	433
SC (umhos/cm at 25 C) (D)	230	273	194		235	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6
Water	SAMPLE DATE	9/13/1985	10/15/1986	5/7/1987	8/18/1987	8/18/1987	1/6/1995
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	12:00
	LAB	JTC	TSC-SLC	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC
	LAB NUMBER	8509-815SD	86-6944	87-3039	8708-60	87-6858	95-79002
	SAMPLE NUMBER	AEH-8509-815 SD	AEH-8610-127	AEH-8705-110	AEH-8708-60	AEH-8708-60	EPPC-9501-102
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Split		

**Physical/Fld-Lab: ppm unless noted**

Total Suspended Solids (D)	8					5.6	
TDS (Measured at 180 C) (D)	140	196	187	150	161.2 M		
Water Temperature (C) (Fld) (D)		9	16	15.5	15.5		0.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6
Water	SAMPLE DATE	1/6/1995	1/11/1995	1/11/1995	1/19/1995	1/26/1995	2/1/1995
	SAMPLE TIME	13:15	11:00	11:15	10:55	11:00	15:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-79003	95-79008	95-79009	95-156003	95-156010	95-287002
	SAMPLE NUMBER	EPPC-9501-104	EPPC-9501-202	EPPC-9501-205	EPPC-9501-302	EPPC-9501-403	EPPC-9502-103
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)(D)	38	31	31	34	36	31
Magnesium (Mg) (DIS)(D)	9.4	7.7	7.6	8	8.9	7.4
Sulfate (SO4) (D)	62	53	54	52	55	45
Total Hardness As CaCO3 (D)	133	110	110	117	126	109

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)(D)	<0.1	116	0.1	<0.1	<0.1	0.3
Arsenic (As) (TRC)(D)	0.009	0.006	0.007	0.01 U	0.01	0.007
Beryllium (Be) (TRC)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TRC)(D)	<0.001	0.001	0.001	<0.001	<0.001	<0.001
Chromium (Cr) (TRC)(D)	0.002	0.001 U	0.002	0.001 U	0.005	<0.001
Copper (Cu) (TRC)(D)	<0.008	<0.008	<0.008	<0.008	<0.008	0.008
Iron (Fe) (TRC)(D)	0.2	0.3	0.3	0.2	0.2 J	0.6
Lead (Pb) (TRC)(D)	<0.005	0.005	<0.005	0.006	<0.005	0.02
Manganese (Mn) (TRC)(D)	0.09	0.07	0.07	0.07	0.06	0.07
Mercury (Hg) (TRC)(D)	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005
Nickel (Ni) (TRC)(D)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (TRC)(D)	<0.001	<0.001	<0.001	0.001 U	<0.001	<0.001
Silver (Ag) (TRC)(D)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium (Tl) (TRC)(D)	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Zinc (Zn) (TRC)(D)	0.06	0.07	0.06	0.06	0.05	0.08

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N) (D)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate + Nitrite as N (D)	0.3	0.3	0.3	0.3	0.3	0.2

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	12	12.8	12.8	13.7	13.6	11.8
Flow (D)	0.0	0.0	0.0	25.8	0.0	39.8
pH (Fld) (D)	6.8	6.8	6.8	8.8	8.6	8.4
SC (umhos/cm at 25 C) (Fld) (D)	433	352	352	363	317	267
Water Temperature (C) (Fld) (D)	0.3	0.4	0.4	1.8	0.6	3.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6
Water	SAMPLE DATE	2/9/1995	2/15/1995	2/22/1995	3/2/1995	3/8/1995	3/16/1995
	SAMPLE TIME	13:15	10:15	12:15	13:00	11:15	15:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-287008	95-287014	95-363002	95-491004	95-491010	95-595004
	SAMPLE NUMBER	EPPC-9502-203	EPPC-9502-303	EPPC-9502-403	EPPC-9503-103	EPPC-9503-203	EPPC-9503-303
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Calcium (Ca) (DIS)(D)		32	36	28	34	35	28
Magnesium (Mg) (DIS)(D)		7.5	8.7	6.3	8.4	8.4	6.5
Sulfate (SO4) (D)		50	55	43	49	53	42
Total Hardness As CaCO3 (D)		110	125	96	120	121	97
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (TRC)(D)		<0.1	<0.1	0.3	0.8	<0.1	0.1
Arsenic (As) (TRC)(D)		0.009	0.008	0.01	0.02	0.009	0.006
Beryllium (Be) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TRC)(D)		<0.001	<0.001	0.001	0.002	<0.001	<0.001
Chromium (Cr) (TRC)(D)		<0.001	0.002	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (TRC)(D)		<0.008	<0.008	0.01	0.02	<0.008	<0.008
Iron (Fe) (TRC)(D)		0.4	0.3	0.7	1.8	0.3	0.3
Lead (Pb) (TRC)(D)		0.007	0.009	0.02	0.05	0.009	0.006
Manganese (Mn) (TRC)(D)		0.08	0.07	0.1	0.3	0.08	0.06
Mercury (Hg) (TOT)(D)							<0.0002
Mercury (Hg) (TRC)(D)		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Nickel (Ni) (TRC)(D)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver (Ag) (TRC)(D)		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium (Tl) (TRC)(D)		<0.003	<0.003	<0.003	<0.005	<0.005	<0.005
Zinc (Zn) (TRC)(D)		0.07	0.07	0.1	0.2	0.08	0.05
<b>Nutrients: ppm unless noted</b>							
Total Ammonia (NH3+NH4 as N) (D)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate + Nitrite as N (D)		0.2	0.3	0.2	0.2	0.3	0.1
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld) (D)		11.5	14.2	12.4	12.6	12.09	11.9
Flow (D)		24.9	0.0	58.6	23	25.9	44
pH (Fld) (D)		7.4	7.8	8.3	8.7	8.07	8.5
SC (umhos/cm at 25 C) (Fld) (D)		286	366	186	368	395	226
Water Temperature (C) (Fld) (D)		2.7	-0.1	3	2.6	0.9	5.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6
Water	SAMPLE DATE	3/23/1995	3/23/1995	3/28/1995	3/28/1995	4/7/1995	4/7/1995
	SAMPLE TIME	12:50	13:00	12:00	12:15	13:00	13:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-595010	95-595012	95-595016	95-595018	95-733003	95-733006
	SAMPLE NUMBER	EPPC-9503-403	EPPC-9503-405	EPPC-9503-503	EPPC-9503-505	EPPC-9504-102	EPPC-9504-105
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Calcium (Ca) (DIS)(D)	29	29	29	29	25	25
	Magnesium (Mg) (DIS)(D)	6.8	6.7	6.9	6.9	6.1	5.9
	Sulfate (SO4) (D)	41	40	41	43	39	39
	Total Hardness As CaCO3 (D)	100	100	101	101	89	87
<b>Metals (mg/L): ppm unless noted</b>							
	Aluminum (Al) (TRC)(D)	<0.1	<0.1	<0.1	<0.1	0.2	0.2
	Arsenic (As) (TRC)(D)	0.007	0.008	0.007	0.007	0.006	<0.005
	Beryllium (Be) (TRC)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Cadmium (Cd) (TRC)(D)	<0.001	<0.001	<0.001	<0.001	0.001	<0.001
	Chromium (Cr) (TRC)(D)	<0.001	<0.001	<0.001	<0.001	0.001	<0.001
	Copper (Cu) (TRC)(D)	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	Iron (Fe) (TRC)(D)	0.2	0.2	0.2	0.2	0.5	0.5
	Lead (Pb) (TRC)(D)	0.008	0.005	0.005	<0.005	0.009	0.01
	Manganese (Mn) (TRC)(D)	0.05	0.06	0.06	0.06	0.08	0.08
	Mercury (Hg) (TOT)(D)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005
	Nickel (Ni) (TRC)(D)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Selenium (Se) (TRC)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Silver (Ag) (TRC)(D)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	Thallium (Tl) (TRC)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Zinc (Zn) (TRC)(D)	0.04	0.04	0.03	0.04	0.04	0.04
<b>Nutrients: ppm unless noted</b>							
	Total Ammonia (NH3+NH4 as N) (D)	<0.1	<0.1	0.1	<0.1	<0.1	0.3
	Nitrate + Nitrite as N (D)	0.1	0.1	0.1	0.1	0.09	0.1
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld) (D)	12.04	12.04	13.1	13.1	10.8	10.8
	Flow (D)	39.5	39.5	33.04	33.04	66.6	66.6
	pH (Fld) (D)	8.9	8.9	8.5	8.5	8.8	8.8
	SC (umhos/cm at 25 C) (Fld) (D)	244	244	240	241	208	201
	Water Temperature (C) (Fld) (D)	6.3	6.3	2.8	2.9	8.1	8.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6
Water	SAMPLE DATE	4/13/1995	4/13/1995	4/19/1995	4/24/1995	4/24/1995	5/4/1995
	SAMPLE TIME	12:00	12:15	10:45	13:00	13:15	13:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-733009	95-733011	95-862003	95-862009	95-862011	95-964004
	SAMPLE NUMBER	EPPC-9504-202	EPPC-9504-204	EPPC-9504-302	EPPC-9504-402	EPPC-9504-404	EPPC-9505-101
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
	Calcium (Ca) (DIS)(D)	24	24	19	22	22	24
	Magnesium (Mg) (DIS)(D)	5.6	5.5	4.5	5.2	5.3	5.7
	Sulfate (SO4) (D)	37	38	35	36	36	36
	Total Hardness As CaCO3 (D)	82	82	67	77	77	83
<b>Metals (mg/L): ppm unless noted</b>							
	Aluminum (Al) (TRC)(D)	0.4	0.5	0.2	0.2	0.2	0.3
	Arsenic (As) (TRC)(D)	0.01	<0.005	0.007	0.007	0.007	0.006
	Beryllium (Be) (TRC)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Cadmium (Cd) (TRC)(D)	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
	Chromium (Cr) (TRC)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Cu) (TRC)(D)	<0.008	<0.008				<0.008
	Iron (Fe) (TRC)(D)	0.7	0.8	0.4	0.4	0.4	0.5
	Lead (Pb) (TRC)(D)	0.01	0.02	0.005	0.005	0.005	0.008
	Manganese (Mn) (TRC)(D)	0.1	0.1	0.05	0.05	0.06	0.07
	Mercury (Hg) (TOT)(D)	<0.0005	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	Nickel (Ni) (TRC)(D)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Selenium (Se) (TRC)(D)	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
	Silver (Ag) (TRC)(D)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	Thallium (Tl) (TRC)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Zinc (Zn) (TRC)(D)	0.05	0.06	0.04	0.04	0.05	0.06
<b>Nutrients: ppm unless noted</b>							
	Total Ammonia (NH3+NH4 as N) (D)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Nitrate + Nitrite as N (D)	0.09	0.1	0.08	0.06	0.06	<0.05
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld) (D)	10.08	10.08	11.3	11.6	11.6	10.6
	Flow (D)	79.7	79.7	71.6	81.5	81.5	91.9
	pH (Fld) (D)	8.8	8.8	8.6	8.6	8.7	8.3
	SC (umhos/cm at 25 C) (Fld) (D)	199	199	189	196	196	280
	Water Temperature (C) (Fld) (D)	8.2	8.2	6.1	7.7	7.6	9.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6
Water	SAMPLE DATE	5/11/1995	5/19/1995	5/19/1995	5/25/1995	6/1/1995	6/8/1995
	SAMPLE TIME	13:25	10:50	11:05	12:45	15:00	11:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-964010	95-1075004	95-1075006	95-1075010	95-1198004	95-1198010
	SAMPLE NUMBER	EPPC-9505-203	EPPC-9505-303	EPPC-9505-305	EPPC-9505-403	EPPC-9506-103	EPPC-9506-203
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		
<b>Common Ions (mg/L): ppm unless noted</b>							
Calcium (Ca) (DIS)(D)		18	13	12	14	14	14
Magnesium (Mg) (DIS)(D)		4.1	3.1	3	3.3	2.9	3
Sulfate (SO4) (D)		25	23	22	23	17	18
Total Hardness As CaCO3 (D)		62	46	43	49	47	47
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (TRC)(D)		1.2	1.1	1.2	0.6	0.8	1.6
Arsenic (As) (TRC)(D)		0.02	0.01 U	0.01	0.007	0.007	0.01
Beryllium (Be) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TRC)(D)		0.001	<0.001	<0.001	<0.001	<0.001	0.001
Chromium (Cr) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (TRC)(D)		0.02	0.01	0.01	<0.008	0.01	0.02
Iron (Fe) (TRC)(D)		2	1.2	1.1	0.7	1.1	2.3 J
Lead (Pb) (TRC)(D)		0.02	0.02	0.03	0.01	0.02	0.05
Manganese (Mn) (TRC)(D)		0.2	0.1	0.2	0.1	0.1	0.2
Mercury (Hg) (TOT)(D)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Nickel (Ni) (TRC)(D)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver (Ag) (TRC)(D)		<0.002	<0.002 J	0.01	<0.002	<0.002	<0.002
Thallium (Tl) (TRC)(D)		<0.005	<0.005	<0.005	<0.005	<0.003	<0.003
Zinc (Zn) (TRC)(D)		0.2	0.1	0.1	0.09	0.1 U	0.2
<b>Nutrients: ppm unless noted</b>							
Total Ammonia (NH3+NH4 as N) (D)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate + Nitrite as N (D)		0.1	0.1	0.1	0.1	0.2	0.09
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld) (D)		11.5	11.4	11.3	10.2	10	10.9
Flow (D)		0.0	0.0	0.0	0.0		
pH (Fld) (D)		8.3	7.7	7.6	8.1	8.3	8.2
SC (umhos/cm at 25 C) (Fld) (D)		140	139	135	128	106	117
Water Temperature (C) (Fld) (D)		8.4	7.3	7.4	10.9	14.7	6.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-6	PPC-6	PPC-6	PPC-6	PPC-6
Water	SAMPLE DATE	6/14/1995	6/14/1995	6/22/1995	6/29/1995	6/29/1995
	SAMPLE TIME	14:30	14:45	14:40	15:00	15:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-1329010	95-1329012	95-1329004	95-1399004	95-1399006
	SAMPLE NUMBER	EPPC-9506-303	EPPC-9506-305	EPPC-9506-403	EPPC-9506-503	EPPC-9506-505
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Field Duplicate			Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>						
Calcium (Ca) (DIS)(D)		14	15	17	19	17
Magnesium (Mg) (DIS)(D)		3.3	3.3	3.7	4.1	3.8
Sulfate (SO4) (D)		14	14	18	19	19
Total Hardness As CaCO3 (D)		50	50	57	63	58
<b>Metals (mg/L): ppm unless noted</b>						
Aluminum (Al) (TRC)(D)		1.1	1	0.7	0.3	0.4
Arsenic (As) (TRC)(D)		0.01	0.009	0.008	0.006	0.007
Beryllium (Be) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (TRC)(D)		0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (TRC)(D)		0.01	0.01	0.01	<0.008	<0.008
Iron (Fe) (TRC)(D)		1.5	1.5	1	0.5	0.5
Lead (Pb) (TRC)(D)		0.02	0.02	0.02	0.02 UJ	0.009
Manganese (Mn) (TRC)(D)		0.2	0.2	0.1	0.1	0.1
Mercury (Hg) (TOT)(D)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Nickel (Ni) (TRC)(D)		<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001
Silver (Ag) (TRC)(D)		<0.002	<0.002	<0.002	<0.002	<0.002
Thallium (Tl) (TRC)(D)		<0.003	<0.003	<0.003	<0.003	<0.003
Zinc (Zn) (TRC)(D)		0.1	0.1	0.1	0.2 J	0.08
<b>Nutrients: ppm unless noted</b>						
Total Ammonia (NH3+NH4 as N) (D)		<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate + Nitrite as N (D)		0.1	0.1	0.1	0.09	0.09
<b>Physical/Fid-Lab: ppm unless noted</b>						
Oxygen (O) (DIS) (Fld) (D)		8.9	8.9	9.5	10.4	10.4
pH (Fld) (D)		7.4	7.3	8.2	8.3	7.8
SC (umhos/cm at 25 C) (Fld) (D)		102	102	133	127	128
Water Temperature (C) (Fld) (D)		13.5	13.5	10.3	13.4	13.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-6A	PPC-6A	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	5/15/2002	11/6/2002	11/5/1984	11/5/1984	1/10/1985
	SAMPLE TIME	14:00	14:30	00:00	00:00	00:00
	LAB	TSC-SLC	ASARCO	TSC-SLC	CAL	TSC-SLC
	LAB NUMBER	L020363004	0211-208	84-10993	S5404	85-537
	SAMPLE NUMBER	EHC-0205-228A	EHC-0211-208	AEH-8411-25	AEH-8411-25-S	AEH-8501-105
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS				Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	65	106	115
Calcium (Ca) (DIS)(D)	24	31	28.8
Carbonate As CO3 (D)	<1		
Chloride (Cl) (D)	2.1	6.6	4.5
Magnesium (Mg) (DIS)(D)	5.4	7.9	6.4
Potassium (K) (DIS)(D)	<5	2.8	0.9
Sodium (Na) (DIS)(D)	9.4	13	12.5
Sulfate (SO4) (D)	42	49	46
Total Alkalinity As CaCO3 (D)	53	87	94

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)			<0.2	
Aluminum (Al) (TOT)(D)			0.2	
Antimony (Sb) (DIS)(D)			<0.01	
Antimony (Sb) (TOT)(D)			<0.01	
Arsenic (As) (DIS)(D)		0.02	0.01	0.03
Arsenic (As) (TOT)(D)		0.02	0.01	0.04
Arsenic (As) (TRC)(D)	<0.005			
Barium (Ba) (DIS)(D)			0.02	
Barium (Ba) (TOT)(D)			0.02	
Beryllium (Be) (DIS)(D)			<0.0006	
Beryllium (Be) (TOT)(D)			<0.0006	
Cadmium (Cd) (DIS)(D)		<0.001	<0.004	0.001
Cadmium (Cd) (TOT)(D)		<0.001	<0.004	0.003
Cadmium (Cd) (TRC)(D)	<0.001			
Chromium (Cr) (DIS)(D)			<0.002	
Chromium (Cr) (TOT)(D)			<0.002	
Cobalt (Co) (DIS)(D)			<0.007	
Cobalt (Co) (TOT)(D)			<0.007	
Copper (Cu) (DIS)(D)		<0.008	0.02	
Copper (Cu) (TOT)(D)		<0.008	0.04	
Copper (Cu) (TRC)(D)	0.005			
Iron (Fe) (DIS)(D)		0.006	0.05	
Iron (Fe) (TOT)(D)		0.2	0.4	
Iron (Fe) (TRC)(D)	0.5			
Lead (Pb) (DIS)(D)		0.006	<0.003	<0.005
Lead (Pb) (TOT)(D)		0.009	0.004	0.02
Lead (Pb) (TRC)(D)	0.007			
Manganese (Mn) (DIS)(D)		0.07	0.06	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-6A	PPC-6A	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	5/15/2002	11/6/2002	11/5/1984	11/5/1984	1/10/1985
	SAMPLE TIME	14:00	14:30	00:00	00:00	00:00
	LAB	TSC-SLC	ASARCO	TSC-SLC	CAL	TSC-SLC
	LAB NUMBER	L020363004	0211-208	84-10993	S5404	85-537
	SAMPLE NUMBER	EHC-0205-228A	EHC-0211-208	AEH-8411-25	AEH-8411-25-S	AEH-8501-105
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS				Split	

**Metals (mg/L): ppm unless noted**

Manganese (Mn) (TOT)(D)			0.08	0.09	
Manganese (Mn) (TRC)(D)	0.09				
Mercury (Hg) (DIS)(D)				<0.0002	
Mercury (Hg) (TOT)(D)				<0.0002	
Nickel (Ni) (DIS)(D)				<0.03	
Nickel (Ni) (TOT)(D)				<0.03	
Selenium (Se) (DIS)(D)				<0.002	
Selenium (Se) (TOT)(D)				<0.002	
Silver (Ag) (DIS)(D)				<0.003	
Silver (Ag) (TOT)(D)				<0.003	
Thallium (Tl) (DIS)(D)				<0.002	
Thallium (Tl) (TOT)(D)				<0.002	
Tin (Sn) (DIS)(D)				<0.04	
Tin (Sn) (TOT)(D)				<0.04	
Vanadium (V) (DIS)(D)				<0.004	
Vanadium (V) (TOT)(D)				<0.004	
Zinc (Zn) (DIS)(D)			0.05	1.1	0.06
Zinc (Zn) (TOT)(D)			0.06	0.05	0.09
Zinc (Zn) (TRC)(D)	0.06				

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential (D)	-37.7				
Oxygen (O) (DIS) (Fld) (D)	10	6.7			
pH (D)	6.8		8	8.1	7.9
Flow (D)	58.8	25	29.1		
pH (Fld) (D)	7.9	6.3			
SC (umhos/cm at 25 C) (Fld) (D)	198	287	284.3		308.8
SC (umhos/cm at 25 C) (D)	203		155	180	340
Total Suspended Solids (D)	11			11	<1
TDS (Measured at 180 C) (D)	163		206	230	216
Water Temperature (C) (Fld) (D)	10.4	3.7			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	4/2/1985	5/7/1985	6/4/1985	6/4/1985	6/4/1985	6/4/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	JTC	TSC-SLC	JTC	TSC-SLC
	LAB NUMBER	85-2351	85-3500	73-1985	85-4087	73-1983	85-4097
	SAMPLE NUMBER	AEH-8504-334	AEH-8505-434	AEH-8506-505	AEH-8506-505	AEH-8506-535	AEH-8506-535
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate	Field Duplicate	Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)							85
Calcium (Ca) (DIS)(D)				28.7			28.7
Chloride (Cl) (D)							2.5
Magnesium (Mg) (DIS)(D)				6.03			6
Potassium (K) (DIS)(D)				<1.2			<1.2
Sodium (Na) (DIS)(D)				11.6			10.2
Sulfate (SO4) (D)							34.7
Total Alkalinity As CaCO3 (D)							70

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)				<0.1			<0.1
Aluminum (Al) (TOT)(D)				<0.1			<0.1
Antimony (Sb) (DIS)(D)				<0.05			<0.05
Antimony (Sb) (TOT)(D)				<0.05			<0.05
Arsenic (As) (DIS)(D)	0.01	0.01		<0.007	0.01		0.01
Arsenic (As) (TOT)(D)	0.03	0.02		0.01	0.01		0.02
Barium (Ba) (DIS)(D)				0.02			0.03
Barium (Ba) (TOT)(D)				0.03			0.03
Beryllium (Be) (DIS)(D)				<0.005			<0.005
Beryllium (Be) (TOT)(D)				<0.005			<0.005
Cadmium (Cd) (DIS)(D)	0.001	<0.001		<0.004	<0.001		<0.004
Cadmium (Cd) (TOT)(D)	0.003	0.001		<0.004	<0.001		<0.004
Chromium (Cr) (DIS)(D)				<0.008			<0.008
Chromium (Cr) (TOT)(D)				<0.008			<0.008
Cobalt (Co) (DIS)(D)				<0.02			<0.02
Cobalt (Co) (TOT)(D)				<0.02			<0.02
Copper (Cu) (DIS)(D)				<0.02			<0.02
Copper (Cu) (TOT)(D)				0.03			<0.02
Iron (Fe) (DIS)(D)				<0.04			<0.04
Iron (Fe) (TOT)(D)				0.3			0.4
Lead (Pb) (DIS)(D)	<0.005	0.006		<0.002	0.02		<0.002
Lead (Pb) (TOT)(D)	0.04	0.02		0.02	0.02		0.02
Manganese (Mn) (DIS)(D)				0.08			0.08
Manganese (Mn) (TOT)(D)				0.1			0.1
Mercury (Hg) (DIS)(D)				<0.0001			<0.0001
Mercury (Hg) (TOT)(D)				<0.0001			<0.0001
Nickel (Ni) (DIS)(D)				<0.02			0.05
Nickel (Ni) (TOT)(D)				<0.02			<0.02
Selenium (Se) (DIS)(D)				<0.004			<0.004

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	4/2/1985	5/7/1985	6/4/1985	6/4/1985	6/4/1985	6/4/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	JTC	TSC-SLC	JTC	TSC-SLC
	LAB NUMBER	85-2351	85-3500	73-1985	85-4087	73-1983	85-4097
	SAMPLE NUMBER	AEH-8504-334	AEH-8505-434	AEH-8506-505	AEH-8506-505	AEH-8506-535	AEH-8506-535
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate	Field Duplicate	Split	

**Metals (mg/L): ppm unless noted**

Selenium (Se) (TOT)(D)			<0.004		<0.004	
Silver (Ag) (DIS)(D)			<0.01		<0.01	
Silver (Ag) (TOT)(D)			0.01		0.01	
Thallium (Tl) (DIS)(D)			<0.003		<0.003	
Thallium (Tl) (TOT)(D)			<0.003		<0.003	
Tin (Sn) (DIS)(D)			<0.03		<0.03	
Tin (Sn) (TOT)(D)			<0.03		<0.03	
Vanadium (V) (DIS)(D)			<0.03		<0.03	
Vanadium (V) (TOT)(D)			<0.03		<0.03	
Zinc (Zn) (DIS)(D)	0.05	0.04	0.03	0.04	0.05	0.03
Zinc (Zn) (TOT)(D)	0.08	0.08	0.08	0.07	0.08	0.05

**Physical/Fld-Lab: ppm unless noted**

pH (D)	7.4	7.8		8	7.8
Flow (D)	37.8	67.5			46.5
SC (umhos/cm at 25 C) (Fld) (D)	289	211.8		223.6	223.6
SC (umhos/cm at 25 C) (D)	303	216		225	242
Total Suspended Solids (D)	8.5	7.2		6	3.9
TDS (Measured at 180 C) (D)	184	155		128	159

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	7/1/1985	7/1/1985	7/1/1985	7/1/1985	8/6/1985	9/12/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	JTC	TSC-SLC	JTC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	73-2102	85-4748	73-2101	85-4754	85-6041	85-7015
	SAMPLE NUMBER	AEH-8507-605	AEH-8507-605	AEH-8507-613	AEH-8507-613	AEH-8508-743	AEH-8509-812
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate	Field Duplicate	Split			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)		117
Calcium (Ca) (DIS)(D)	36.9	36.3
Chloride (Cl) (D)		3
Magnesium (Mg) (DIS)(D)	7.7	7.6
Potassium (K) (DIS)(D)	2.9	2.9
Sodium (Na) (DIS)(D)	20.7	17.9
Sulfate (SO4) (D)		56.8
Total Alkalinity As CaCO3 (D)		96

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)	<0.2		<0.2			
Aluminum (Al) (TOT)(D)	<0.2		<0.2			
Antimony (Sb) (DIS)(D)	<0.05		<0.05			
Antimony (Sb) (TOT)(D)	<0.05		<0.05			
Arsenic (As) (DIS)(D)	0.02	0.006	0.03	0.03	0.05	0.02
Arsenic (As) (TOT)(D)	0.03	0.03	0.03	0.04	0.08	0.04
Barium (Ba) (DIS)(D)	<0.05		<0.05			
Barium (Ba) (TOT)(D)	<0.05		<0.05			
Beryllium (Be) (DIS)(D)	<0.004		0.004			
Beryllium (Be) (TOT)(D)	<0.004		<0.004			
Cadmium (Cd) (DIS)(D)	<0.004	<0.001	<0.004	0.001	<0.001	<0.001
Cadmium (Cd) (TOT)(D)	<0.004	0.001	0.004	0.005	<0.001	<0.001
Chromium (Cr) (DIS)(D)	<0.008		<0.008			
Chromium (Cr) (TOT)(D)	<0.008		<0.008			
Cobalt (Co) (DIS)(D)	<0.008		<0.008			
Cobalt (Co) (TOT)(D)	<0.008		<0.008			
Copper (Cu) (DIS)(D)	<0.02		<0.02			
Copper (Cu) (TOT)(D)	<0.02		<0.02			
Iron (Fe) (DIS)(D)	<0.04		<0.04			
Iron (Fe) (TOT)(D)	0.4		0.4			
Lead (Pb) (DIS)(D)	<0.002	<0.005	<0.002	0.01	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.01	0.04	0.1	0.05	0.03	0.02
Manganese (Mn) (DIS)(D)	0.08		0.1			
Manganese (Mn) (TOT)(D)	0.1		0.1			
Mercury (Hg) (DIS)(D)	<0.0001		<0.0001			
Mercury (Hg) (TOT)(D)	<0.0001		<0.0001			
Nickel (Ni) (DIS)(D)	<0.002		<0.02			
Nickel (Ni) (TOT)(D)	<0.02		<0.02			
Selenium (Se) (DIS)(D)	<0.004		<0.004			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	7/1/1985	7/1/1985	7/1/1985	7/1/1985	8/6/1985	9/12/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	JTC	TSC-SLC	JTC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	73-2102	85-4748	73-2101	85-4754	85-6041	85-7015
	SAMPLE NUMBER	AEH-8507-605	AEH-8507-605	AEH-8507-613	AEH-8507-613	AEH-8508-743	AEH-8509-812
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate	Field Duplicate	Split			

**Metals (mg/L): ppm unless noted**

Selenium (Se) (TOT)(D)	<0.004		<0.004			
Silver (Ag) (DIS)(D)	<0.006		<0.006			
Silver (Ag) (TOT)(D)	<0.006		<0.006			
Thallium (Tl) (DIS)(D)	<0.002		<0.002			
Thallium (Tl) (TOT)(D)	<0.002		0.002			
Tin (Sn) (DIS)(D)	<0.03		<0.03			
Tin (Sn) (TOT)(D)	0.03		<0.03			
Vanadium (V) (DIS)(D)	<0.03		<0.03			
Vanadium (V) (TOT)(D)	<0.03		<0.03			
Zinc (Zn) (DIS)(D)	0.02	0.02	<0.01	0.03	0.02	0.04
Zinc (Zn) (TOT)(D)	0.06	0.05	0.06	0.05	0.04	0.07

**Physical/Fld-Lab: ppm unless noted**

pH (D)			8.1	8.1	8.2	7
Flow (D)				13.9	9.8	25.7
SC (umhos/cm at 25 C) (Fld) (D)		297.4		297.9	320.7	299.8
SC (umhos/cm at 25 C) (D)			281	307	333	276
Total Suspended Solids (D)			8	1.3	1.8	4.8
TDS (Measured at 180 C) (D)			78	202	217	204

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	10/15/1986	10/15/1986	5/7/1987	5/7/1987	8/18/1987	4/25/1989
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	RMAL	TSC-SLC	CHMTC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8610-128	86-6943	8705-111	87-3040	87-6863	89-558
	SAMPLE NUMBER	AEH-8610-128	AEH-8610-128	AEH-8705-111	AEH-8705-111	AEH-8708-62	AEH-8904-282
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split		Split			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	82	98		72	98	
Calcium (Ca) (DIS)(D)	31		21.4			
Carbonate As CO3 (D)	<5					
Chloride (Cl) (D)	7.6		5			2
Magnesium (Mg) (DIS)(D)	7.3		4.9			
Potassium (K) (DIS)(D)	2.7		1.7			
Sodium (Na) (DIS)(D)	12.7		10.4			
Sulfate (SO4) (D)	44	50	28	32	36 M	41
Total Alkalinity As CaCO3 (D)			60			

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.01	0.01	<0.009	0.01	0.02	<0.004
Arsenic (As) (TOT)(D)	0.01	0.01	0.04	0.01	0.03	0.009
Cadmium (Cd) (DIS)(D)	<0.005	<0.001	<0.004	<0.001	<0.001	<0.002 UJ
Cadmium (Cd) (TOT)(D)	<0.005	<0.001	<0.004	0.001	<0.001	<0.002 UJ
Copper (Cu) (DIS)(D)	<0.004 M		<0.02			<0.008
Copper (Cu) (TOT)(D)	0.005		0.04			0.02
Iron (Fe) (DIS)(D)	0.07	0.1	<0.1	0.07	0.07	
Iron (Fe) (TOT)(D)	0.2	0.3	0.4	0.4	0.3	
Lead (Pb) (DIS)(D)	<0.005	<0.005	0.004	0.02 M	0.01	<0.02
Lead (Pb) (TOT)(D)	0.001	0.02	0.02	0.03 M	0.03	<0.02
Manganese (Mn) (DIS)(D)	0.07		0.07			
Manganese (Mn) (TOT)(D)	0.09		0.1			
Zinc (Zn) (DIS)(D)	0.04	0.05	0.03	0.03	0.04	0.03 J
Zinc (Zn) (TOT)(D)	0.06	0.06	0.1 M	0.06	0.05	0.06

**Physical/Fid-Lab: ppm unless noted**

pH (D)		7.9		7.6	7.8	7.5
Flow (D)		41		74.9	36.9	
pH (Fid) (D)	8.8	8.8	8.01	8.01	7.8	7.4
SC (umhos/cm at 25 C) (Fid) (D)	262.4	261	187.9	187.9	227.5	197.5
SC (umhos/cm at 25 C) (D)		275		193	239	187
Total Suspended Solids (D)					6.8	
TDS (Measured at 180 C) (D)	200	216	159	185	164 M	183 R
Water Temperature (C) (Fid) (D)	9	9	15.5	15.5	15	5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	
Water	SAMPLE DATE	4/25/1989	10/26/1989	5/2/1990	11/20/1990	5/1/1991	5/1/1991	
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00	
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	
	LAB NUMBER	89-559	89-855	90-1085	90-2215	91-2654	91-2656	
	SAMPLE NUMBER	AEH-8904-292	AEH-8910-467	AEH-9005-509	AEH-9011-702	AEH-9105-102	AEH-9105-104	
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	
	GROUP	RI	RI	RI	RI	RI	RI	
	DESCRIPTION							
	REMARKS	Field Duplicate					Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>								
	Chloride (Cl) (D)	2	2.5	1.9	3 J	<2	<2	
	Sulfate (SO4) (D)	39	35	32.7	42 J	36	36	
<b>Metals (mg/L): ppm unless noted</b>								
	Arsenic (As) (DIS)(D)	0.007 J	0.008	0.008 J	0.009	<0.004	0.004	
	Arsenic (As) (TOT)(D)	0.009	0.008	0.01 J	0.009	0.01	0.01	
	Cadmium (Cd) (DIS)(D)	<0.002 UJ	<0.001	0.001 U	<0.001	<0.001	<0.001	
	Cadmium (Cd) (TOT)(D)	<0.002 UJ	<0.001	0.003 U	0.001 UJ	<0.002	<0.002	
	Copper (Cu) (DIS)(D)	0.008	<0.008	<0.008	<0.008	<0.004	<0.004	
	Copper (Cu) (TOT)(D)	0.02	<0.008	0.01	<0.008	0.02	<0.004	
	Lead (Pb) (DIS)(D)	<0.02	<0.005 UJ	<0.005 UJ	<0.005	<0.005 UJ	<0.005	
	Lead (Pb) (TOT)(D)	<0.02	0.01	0.03	0.007 J	0.01	0.01	
	Zinc (Zn) (DIS)(D)	0.04 J	0.02 J	0.04		0.02	0.02	
	Zinc (Zn) (TOT)(D)	0.06	0.04 J	0.07		0.04	0.04	
<b>Physical/Fld-Lab: ppm unless noted</b>								
	pH (D)	7.5	7.9	8	8.3	7.9	7.9	
	Flow (D)		42.5	106.2		49.3	49.3	
	pH (Fld) (D)		7.7	7.8	8.09	8.4	8.4	
	SC (umhos/cm at 25 C) (Fld) (D)		230.5	181	258.9	232.6	231.6	
	SC (umhos/cm at 25 C) (D)	190	242	177	270	230	228	
	TDS (Measured at 180 C) (D)	177 R	154	122 J	171 J	184 J	185 J	
	Water Temperature (C) (Fld) (D)		7.4	7.8	2.8	9	9	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	11/6/1991	11/6/1991	4/14/1992	11/13/1992	11/13/1992	4/28/1993
	SAMPLE TIME	10:30	10:40	13:30	12:30	13:15	11:50
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	91-3600	91-3598	92-4281	92-6827	92-6828	93-7713
	SAMPLE NUMBER	AEH-91111-353	AEH-91111-311	AEH-9204-174	EHC-9211-108	EHC-9211-110	EHC-9305-100
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)(D)				29 J	29 J	24 J
Chloride (Cl) (D)	2.9	3.5	2.2 J	2.9 J	3.2 J	1.8
Magnesium (Mg) (Dis)(D)				6.8	6.8	5.4 J
Potassium (K) (Dis)(D)				<5	<5	<5
Sodium (Na) (Dis)(D)				14	14	8.7 J
Sulfate (SO4) (D)	45	41	43 J	48 J	48 J	38
Total Hardness As CaCO3 (D)						82

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.008	0.01	0.007	0.009 J	0.009 J	0.007
Arsenic (As) (TOT)(D)	0.01	0.01	0.008	0.01 J	0.02 J	0.008
Cadmium (Cd) (DIS)(D)	0.001	0.001	0.001	0.001	<0.001	0.001
Cadmium (Cd) (TOT)(D)	0.001	0.001	0.002	0.001	0.001	0.001
Copper (Cu) (DIS)(D)	<0.004	<0.004	<0.004	<0.004	<0.004	0.004
Copper (Cu) (TOT)(D)	0.004	<0.004	0.004	0.004	0.005	0.005
Lead (Pb) (DIS)(D)	<0.005 J	<0.005	<0.005	<0.005 UJ	<0.005 UJ	<0.005
Lead (Pb) (TOT)(D)	0.006	<0.005	0.009 J	0.007 J	0.008 J	0.008
Zinc (Zn) (DIS)(D)	0.03	0.03	0.02	0.008	0.006	0.04
Zinc (Zn) (TOT)(D)	0.04	0.03	0.04	0.03	0.03	0.06

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)						10.7
pH (D)	7.2	7.3	8.5	8.4	8.8	
Air Temperature (D)	2	2				
Flow (D)	38.1	38.1	46.5	27.8	27.8	101.7
pH (Fld) (D)	7.9	7.9	8.5	8.1	8.1	7.9
SC (umhos/cm at 25 C) (Fld) (D)	253	253	233	255	255	203
SC (umhos/cm at 25 C) (D)	231	231	232	245	250	185
TDS (Measured at 180 C) (D)	167 J	167 J	209 J	210	215	155
Water Temperature (C) (Fld) (D)	1	1	10.6	4.6	4.6	8.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	11/2/1993	5/5/1994	5/5/1994	11/8/1994	1/6/1995	1/11/1995
	SAMPLE TIME	14:10	14:10	18:00	10:45	11:30	10:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-9141	94-1322	94-1108	94-3241	95-79001	95-79007
	SAMPLE NUMBER	EHC-9311-150	EHC-9405-165	EHC-9405-154	EHC-9411-156	EPPC-9501-103	EPPC-9501-203
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (DIS)(D)					38	31
Chloride (Cl) (D)	2.8 J	1.7	2	3.5		
Magnesium (Mg) (DIS)(D)					9.2	7.6
Sulfate (SO4) (D)	42 J	26 J	33 J	51	63	55
Total Hardness As CaCO3 (D)					132	109

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (TRC)(D)					<0.1	0.1
Arsenic (As) (DIS)(D)	0.007	0.004	0.006	0.008		
Arsenic (As) (TOT)(D)	0.009	0.008	0.009	0.01		
Arsenic (As) (TRC)(D)					0.007	0.006
Beryllium (Be) (TRC)(D)					<0.001	<0.001
Cadmium (Cd) (DIS)(D)	0.001 U	0.002	0.001	<0.001		
Cadmium (Cd) (TOT)(D)	0.001 U	0.002	0.002	0.001		
Cadmium (Cd) (TRC)(D)					<0.001	<0.001
Chromium (Cr) (TRC)(D)					0.001 U	0.001 U
Copper (Cu) (DIS)(D)	<0.004	0.005	0.005	<0.004		
Copper (Cu) (TOT)(D)	<0.004	0.01	0.01	<0.004 J		
Copper (Cu) (TRC)(D)					<0.008	<0.008
Iron (Fe) (TRC)(D)					0.2	0.4
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005		
Lead (Pb) (TOT)(D)	0.005	0.02 J	0.02 J	0.005 J		
Lead (Pb) (TRC)(D)					<0.005	0.008
Manganese (Mn) (TRC)(D)					0.09	0.07
Mercury (Hg) (TRC)(D)					<0.0002	<0.0002
Nickel (Ni) (TRC)(D)					<0.01	<0.01
Selenium (Se) (TRC)(D)					<0.001	<0.001
Silver (Ag) (TRC)(D)					<0.002	<0.002
Thallium (Tl) (TRC)(D)					<0.003	<0.003
Zinc (Zn) (DIS)(D)	0.05	0.06	0.07	0.04 U		
Zinc (Zn) (TOT)(D)	0.07	0.1 J	0.3 J	0.07		
Zinc (Zn) (TRC)(D)					0.07	0.08

**Nutrients: ppm unless noted**

Total Ammonia (NH3+NH4 as N) (D)					<0.1	<0.1
Nitrate + Nitrite as N (D)					0.3	0.3

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)				12.7	13	13
Flow (D)	82.4	194.9	194.9	28.7	0.0	0.0
pH (Fld) (D)	8.3	8.2	8.2	8.07	6.6	6.04
SC (umhos/cm at 25 C) (Fld) (D)	226	189	189	282	463	344

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	11/2/1993	5/5/1994	5/5/1994	11/8/1994	1/6/1995	1/11/1995
	SAMPLE TIME	14:10	14:10	18:00	10:45	11:30	10:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-9141	94-1322	94-1108	94-3241	95-79001	95-79007
	SAMPLE NUMBER	EHC-9311-150	EHC-9405-165	EHC-9405-154	EHC-9411-156	EPPC-9501-103	EPPC-9501-203
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Physical/Fld-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (D)	230 J	126 J	174 J	287			
TDS (Measured at 180 C) (D)	155	175 J	123 J	188			
Water Temperature (C) (Fld) (D)	3.4	11.2	11.2	1	0.2		0.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	1/19/1995	1/26/1995	2/1/1995	2/9/1995	2/15/1995	2/22/1995
	SAMPLE TIME	10:30	10:30	14:00	12:00	09:50	10:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-156004	95-156011	95-287001	95-287007	95-287013	95-363001
	SAMPLE NUMBER	EPPC-9501-303	EPPC-9501-404	EPPC-9502-104	EPPC-9502-204	EPPC-9502-304	EPPC-9502-404
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Calcium (Ca) (DIS)(D)		34	35	31	31	35	28
Magnesium (Mg) (DIS)(D)		8.1	8.8	7.5	7.5	8.7	6.4
Sulfate (SO4) (D)		52	55	45	49	56	42
Total Hardness As CaCO3 (D)		118	125	109	109	124	96
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (TRC)(D)		<0.1	<0.1	0.2	<0.1	<0.1	0.4
Arsenic (As) (TRC)(D)		0.008 U	0.01	0.008	0.008	0.008	0.01
Beryllium (Be) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TRC)(D)		<0.001	<0.001	0.001	<0.001	<0.001	0.003
Chromium (Cr) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (TRC)(D)		<0.008	<0.008	0.01	0.01	<0.008	0.01
Iron (Fe) (TRC)(D)		0.2	0.2 J	0.5	0.3	0.2	0.8
Lead (Pb) (TRC)(D)		<0.005	<0.005	0.02	0.01	<0.005	0.02
Manganese (Mn) (TRC)(D)		0.07	0.06	0.07	0.08	0.06	0.1
Mercury (Hg) (TRC)(D)		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel (Ni) (TRC)(D)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (TRC)(D)		<0.001	0.001 U	<0.001	<0.001	<0.001	<0.001
Silver (Ag) (TRC)(D)		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium (Tl) (TRC)(D)		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Zinc (Zn) (TRC)(D)		0.06	0.05	0.08	0.09	0.07	0.1
<b>Nutrients: ppm unless noted</b>							
Total Ammonia (NH3+NH4 as N) (D)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate + Nitrite as N (D)		0.3	0.3	0.2	0.2	0.3	0.2
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld) (D)		13.9	13.6	11.4	11.6	14.6	12.05
Flow (D)		0.0	0.0	40.4	28.3	0.0	63.8
pH (Fld) (D)		8.6	8.6	8	7.2	8.1	8.2
SC (umhos/cm at 25 C) (Fld) (D)		366	325	263	289	346	201
Water Temperature (C) (Fld) (D)		0.9	0.9	3.5	2	0.0	2.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	3/2/1995	3/8/1995	3/8/1995	3/16/1995	3/16/1995	3/23/1995
	SAMPLE TIME	11:45	10:05	10:05	12:40	12:40	10:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-491005	95-491011	95-491012	95-595005	95-595006	95-595011
	SAMPLE NUMBER	EPPC-9503-104	EPPC-9503-204	EPPC-9503-205	EPPC-9503-304	EPPC-9503-305	EPPC-9503-404
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate		Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
Calcium (Ca) (DIS)(D)		35	35	34	28	28	29
Magnesium (Mg) (DIS)(D)		8.5	8.5	8.4	6.5	6.5	6.8
Sulfate (SO4) (D)		52	53	53	42	41	41
Total Hardness As CaCO3 (D)		122	122	121	97	97	100
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (TRC)(D)		<0.1	0.2	0.2	0.1	0.1	<0.1
Arsenic (As) (TRC)(D)		0.02	0.01	0.01	0.006	0.006	0.007
Beryllium (Be) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (TRC)(D)		<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Iron (Fe) (TRC)(D)		0.5	0.5	0.5	0.3	0.3	0.3
Lead (Pb) (TRC)(D)		0.007	0.01	0.02	0.01	0.007	0.006
Manganese (Mn) (TRC)(D)		0.1	0.1	0.1	0.06	0.06	0.06
Mercury (Hg) (TOT)(D)					<0.0002	<0.0002	<0.0002
Mercury (Hg) (TRC)(D)		<0.0005	<0.0005	<0.0005			
Nickel (Ni) (TRC)(D)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver (Ag) (TRC)(D)		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium (Tl) (TRC)(D)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (TRC)(D)		0.07 U	0.09	0.09	0.05	0.05	0.04
<b>Nutrients: ppm unless noted</b>							
Total Ammonia (NH3+NH4 as N) (D)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate + Nitrite as N (D)		0.2	0.3	0.3	0.1	0.1	0.1
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld) (D)		12.6	11.6	11.6	12.2	12.2	12.4
Flow (D)		11.5	0.0	0.0	41.7	41.7	41.8
pH (Fld) (D)		8.9	8.2	8.2	8.1	8.1	8.6
SC (umhos/cm at 25 C) (Fld) (D)		356	383	383	228	228	241
Water Temperature (C) (Fld) (D)		2.9	0.5	0.5	5.3	5.3	4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	3/28/1995	4/7/1995	4/13/1995	4/19/1995	4/24/1995	5/4/1995
	SAMPLE TIME	10:30	11:00	10:50	09:50	12:10	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-595017	95-733004	95-733010	95-862004	95-862010	95-4466
	SAMPLE NUMBER	EPPC-9503-504	EPPC-9504-103	EPPC-9504-203	EPPC-9504-303	EPPC-9504-403	EHC-9505-155
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Common Ions (mg/L): ppm unless noted</b>							
Calcium (Ca) (DIS)(D)		29	25	24	22	22	
Chloride (Cl) (D)							2.3
Magnesium (Mg) (DIS)(D)		6.9	6	5.6	5.3	5.3	
Sulfate (SO4) (D)		41	40	37	35	37	33
Total Hardness As CaCO3 (D)		101	88	82	77	78	
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (TRC)(D)		<0.1	0.2	0.4	0.2	0.2	
Arsenic (As) (DIS)(D)							0.006 J
Arsenic (As) (TOT)(D)							0.008
Arsenic (As) (TRC)(D)		0.008	0.005	0.008	0.006	0.007	
Beryllium (Be) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	
Cadmium (Cd) (DIS)(D)							0.001
Cadmium (Cd) (TOT)(D)							<0.001
Cadmium (Cd) (TRC)(D)		<0.001	<0.001	0.001	<0.001	<0.001	
Chromium (Cr) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	
Copper (Cu) (DIS)(D)							0.005
Copper (Cu) (TOT)(D)							0.01
Copper (Cu) (TRC)(D)		<0.008	<0.008	<0.008			
Iron (Fe) (TRC)(D)		0.2	0.4	0.7	0.4	0.4	
Lead (Pb) (DIS)(D)							<0.005 J
Lead (Pb) (TOT)(D)							0.008 J
Lead (Pb) (TRC)(D)		0.006	0.009	0.02	0.005	0.005	
Manganese (Mn) (TRC)(D)		0.06	0.08	0.1	0.05	0.05	
Mercury (Hg) (TOT)(D)		<0.0002	<0.0005	<0.0005	<0.0002	<0.0002	
Nickel (Ni) (TRC)(D)		<0.01	<0.01	<0.01	<0.01	<0.01	
Selenium (Se) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	
Silver (Ag) (TRC)(D)		<0.002	<0.002	<0.002	<0.002	<0.002	
Thallium (Tl) (TRC)(D)		<0.005	<0.005	<0.005	<0.005	<0.005	
Zinc (Zn) (DIS)(D)							0.04
Zinc (Zn) (TOT)(D)							0.07 J
Zinc (Zn) (TRC)(D)		0.04	0.04	0.05	0.04	0.04	
<b>Nutrients: ppm unless noted</b>							
Total Ammonia (NH3+NH4 as N) (D)		<0.1	0.3	<0.1	<0.1	<0.1	
Nitrate + Nitrite as N (D)		0.1	0.1	0.1	0.08	0.06	
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld) (D)		13.5	11.1	10.3	11.4	11.8	10.6
pH (D)							7.8
Flow (D)		33.3	66.8	78.3	76.9	81.8	92.04
pH (Fld) (D)		8.9	8.9	8.9	8.5	8.5	8.5
SC (umhos/cm at 25 C) (Fld) (D)		271	220	203	183	192	205

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	3/28/1995	4/7/1995	4/13/1995	4/19/1995	4/24/1995	5/4/1995
	SAMPLE TIME	10:30	11:00	10:50	09:50	12:10	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-595017	95-733004	95-733010	95-862004	95-862010	95-4466
	SAMPLE NUMBER	EPPC-9503-504	EPPC-9504-103	EPPC-9504-203	EPPC-9504-303	EPPC-9504-403	EHC-9505-155
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fld-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (D)							198
TDS (Measured at 180 C) (D)							132
Water Temperature (C) (Fld) (D)	1.9	6.9	8	5.4	7.2		8.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	5/4/1995	5/11/1995	5/11/1995	5/19/1995	5/25/1995	6/1/1995
	SAMPLE TIME	09:15	11:00	11:15	10:30	12:30	14:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-964002	95-964008	95-964009	95-1075005	95-1075011	95-1198005
	SAMPLE NUMBER	EPPC-9505-100	EPPC-9505-204	EPPC-9505-205	EPPC-9505-304	EPPC-9505-404	EPPC-9506-104
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		
<b>Common Ions (mg/L): ppm unless noted</b>							
Calcium (Ca) (DIS)(D)		24	18	18	14	15	14
Magnesium (Mg) (DIS)(D)		5.8	4	4.1	3.3	3.4	3
Sulfate (SO4) (D)		35	25	25	23	23	18
Total Hardness As CaCO3 (D)		85	62	62	48	50	47
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (TRC)(D)		0.3	1.3	1.4	1.1	0.6	1
Arsenic (As) (TRC)(D)		0.007	0.01	0.02	0.01 U	0.005	0.009
Beryllium (Be) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TRC)(D)		<0.001	0.001	0.001	<0.001	<0.001	<0.001
Chromium (Cr) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (TRC)(D)		<0.008	0.02	0.02	0.01	0.008	0.01
Iron (Fe) (TRC)(D)		0.5	2.2	2.3	1.2	0.7	1.3
Lead (Pb) (TRC)(D)		0.007	0.04	0.04	0.03	0.01	0.02
Manganese (Mn) (TRC)(D)		0.07	0.2	0.2	0.2	0.1	0.1
Mercury (Hg) (TOT)(D)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Nickel (Ni) (TRC)(D)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (TRC)(D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver (Ag) (TRC)(D)		<0.002	<0.002	<0.002	<0.002 J	<0.002	<0.002
Thallium (Tl) (TRC)(D)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Zn) (TRC)(D)		0.06	0.2	0.2	0.1	0.09	0.1
<b>Nutrients: ppm unless noted</b>							
Total Ammonia (NH3+NH4 as N) (D)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate + Nitrite as N (D)		<0.05	0.1	0.1	0.1	0.1	0.2
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld) (D)		10.6	11.1	11.1	10.9	10.2	9.8
Flow (D)		92.04	277.7	277.7	0.0	0.0	349.9
pH (Fld) (D)		8.5	8.3	8.2	8	8.3	8
SC (umhos/cm at 25 C) (Fld) (D)		210	144	137	134	134	202
Water Temperature (C) (Fld) (D)		8.4	8.1	8.1	7.3	10.6	12.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	6/8/1995	6/8/1995	6/14/1995	6/22/1995	6/22/1995	6/29/1995
	SAMPLE TIME	10:15	10:30	13:30	13:50	14:05	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-1198011	95-1198012	95-1329011	95-1329005	95-1329006	95-1399005
	SAMPLE NUMBER	EPPC-9506-204	EPPC-9506-205	EPPC-9506-304	EPPC-9506-404	EPPC-9506-405	EPPC-9506-504
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
Calcium (Ca) (DIS)(D)	14	14	13	16	16	18	
Magnesium (Mg) (DIS)(D)	3.1	3	3.1	3.6	3.6	4.1	
Sulfate (SO4) (D)	18	19	14	18	18	19	
Total Hardness As CaCO3 (D)	48	47	46	55	54	62	
<b>Metals (mg/L): ppm unless noted</b>							
Aluminum (Al) (TRC)(D)	1.8	1.5	1	0.7	0.6	0.4	
Arsenic (As) (TRC)(D)	0.02	0.02	0.009	0.008	0.009	0.007	
Beryllium (Be) (TRC)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Cadmium (Cd) (TRC)(D)	0.001	0.001	<0.001	<0.001	<0.001	<0.001	
Chromium (Cr) (TRC)(D)	0.001	<0.001	0.001	<0.001	<0.001	<0.001	
Copper (Cu) (TRC)(D)	0.02	0.02	0.01	0.01	0.01	<0.008	
Iron (Fe) (TRC)(D)	2.6 J	2.1	1.4	1	0.9	0.6	
Lead (Pb) (TRC)(D)	0.05	0.05	0.02	0.02	0.02	0.02 UJ	
Manganese (Mn) (TRC)(D)	0.2	0.2	0.1	0.1	0.1	0.1	
Mercury (Hg) (TOT)(D)	<0.0002	<0.0002	<0.0002	<0.0002	0.0003	<0.0002	
Nickel (Ni) (TRC)(D)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Selenium (Se) (TRC)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Silver (Ag) (TRC)(D)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Thallium (Tl) (TRC)(D)	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
Zinc (Zn) (TRC)(D)	0.2	0.1	0.1	0.1	0.1	0.1 J	
<b>Nutrients: ppm unless noted</b>							
Total Ammonia (NH3+NH4 as N) (D)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Nitrate + Nitrite as N (D)	0.08	0.1	0.1	0.1	0.1	0.08	
<b>Physical/Fid-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld) (D)	10.8	10.9	9.02	9.8	9.6		
Flow (D)	536.6	536.6	361.05	213.7	213.7		
pH (Fld) (D)	8.5	8.5	7.8	8.02	8		
SC (umhos/cm at 25 C) (Fld) (D)	115	117	101	127	132		
Water Temperature (C) (Fld) (D)	6.3	6.3	13.5	10.2	10.2		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	11/7/1995	5/9/1996	11/7/1996	5/5/1997	11/4/1997	5/14/1998
	SAMPLE TIME	09:50	09:40	10:20	13:20	10:00	11:10
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	95-5811	96-6792	96-7752	97-920	188-2694	262-3794
	SAMPLE NUMBER	EHC-9511-157	EHC-9605-139	EHC-9611-139	EHC-9705-136	EHC-9711-139	EHC-9805-139
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)							56
Calcium (Ca) (DIS)(D)							17
Chloride (Cl) (D)	2.6	4.2	3.6	2	3		2
Magnesium (Mg) (DIS)(D)							<5
Potassium (K) (DIS)(D)							<5
Sodium (Na) (DIS)(D)							7
Sulfate (SO4) (D)	51	49	56	34	47		27
Total Alkalinity As CaCO3 (D)							46

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.02	<0.005	0.01 J	0.006	0.007		<0.005
Arsenic (As) (TOT)(D)	0.01	0.01 J	0.01 J	0.01	0.006		0.005
Arsenic III (dis)(D)				<0.005	<0.005		<0.005
Arsenic V (dis)(D)				<0.005	<0.005		<0.005
Cadmium (Cd) (DIS)(D)	0.001	<0.005	0.001	<0.001	<0.001		<0.001
Cadmium (Cd) (TOT)(D)	0.002	<0.005	0.002	0.001	<0.001		<0.001
Copper (Cu) (DIS)(D)	<0.004	0.005	<0.004	0.004	<0.004		<0.004
Copper (Cu) (TOT)(D)	0.005	0.01	0.009	0.02	0.005		0.005
Iron (Fe) (DIS)(D)							0.06 UJ
Iron (Fe) (TOT)(D)							0.7
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
Lead (Pb) (TOT)(D)	0.01 J	0.02	0.02	0.02	0.006		0.02 U
Manganese (Mn) (DIS)(D)							0.03
Manganese (Mn) (TOT)(D)							0.09
Zinc (Zn) (DIS)(D)	0.08	0.1	0.08	0.1	0.09		0.05 U
Zinc (Zn) (TOT)(D)	0.08	0.2	0.1	0.2 J	0.1		0.08 J

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)		10.8	12.6	9	10.8		12.04
pH (D)	7.5 J	7.9	7.8	7.7	8		7.5
Flow (D)		64.5	29.5	115.9	43.08		100.9
pH (Fld) (D)	6.2	7.09	8.2	7.3	8.1		7.6
SC (umhos/cm at 25 C) (Fld) (D)	284	270	303	172	253		155
SC (umhos/cm at 25 C) (D)	263	250	301	181	257		149
Total Suspended Solids (D)					1		
TDS (Measured at 180 C) (D)	164	176	204	140	179		121
Water Temperature (C) (Fld) (D)	1.9	5.3	1.9	12.9	7.2		10.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	11/18/1998	5/12/1999	11/18/1999	11/18/1999	5/10/2000	10/31/2000
	SAMPLE TIME	12:10	10:20	10:45	11:00	00:00	10:05
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	311-4419	348-4911	L992056009	L992056015	L000707007	L001833007
	SAMPLE NUMBER	EHC-9811-138	EHC-9905-138	EHC-9911-160	EHC-9911-183	EHC-0005-158	EHC-0011-160
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3) (D)	90	61 J	105	109	94	109
	Calcium (Ca) (DIS)(D)	27	20	32	31	25	29
	Carbonate As CO3 (D)		<1 UJ	<1	<1	<1	<1
	Chloride (Cl) (D)	3.6	2.2	3.4 J	5.1 J	3.5	5.4 J
	Magnesium (Mg) (DIS)(D)	6.2	<5	7.4	7.3	5.8	6.7
	Potassium (K) (DIS)(D)	<5	<5	<5	<5	<5	<5
	Sodium (Na) (DIS)(D)	11	8.5	17	16	13	17
	Sulfate (SO4) (D)	45	32	53	55	39	54
	Total Alkalinity As CaCO3 (D)	74	50 J	86	89	77	89
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)(D)	0.006 J	<0.005	0.01	0.01	<0.005	0.008
	Arsenic (As) (TOT)(D)	0.008	0.007	0.01	0.01	0.006	0.01
	Arsenic III (dis)(D)	<0.005	<0.005	<0.005	<0.005	0.008 U	<0.02
	Arsenic V (dis)(D)	0.005	0.007	0.01	<0.005	0.01 U	<0.02
	Cadmium (Cd) (DIS)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Cadmium (Cd) (TOT)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Cu) (DIS)(D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
	Copper (Cu) (TOT)(D)	<0.004	0.006	<0.004	<0.004	0.004	<0.004
	Iron (Fe) (DIS)(D)	0.1	0.1 UJ	0.1	0.1	<0.05 J	0.2 UJ
	Iron (Fe) (TOT)(D)	0.3	1 J	0.3	0.3	0.6 U	0.5 UJ
	Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Lead (Pb) (TOT)(D)	<0.005	0.01	0.006	0.006	0.009	0.02
	Manganese (Mn) (DIS)(D)	0.07	0.03	0.1	0.1	0.06	0.06
	Manganese (Mn) (TOT)(D)	0.08	0.08	0.1	0.1	0.09	0.07
	Zinc (Zn) (DIS)(D)	0.05	0.04	0.07	0.07	0.04	0.04
	Zinc (Zn) (TOT)(D)	0.07	0.07	0.07	0.07	0.06	0.05
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Oxygen (O) (DIS) (Fld) (D)	13.2	9.3	11.7	11.7	10.4	12.8
	pH (D)	7.8	8	8.1	7.9	8.1	7.9
	Eh (millivolts) (D)	293	421	483	483	383	412
	Flow (D)	36.02	92.2	21.1		21	22.4
	pH (Fld) (D)	7.8	8.1	9.07	9.06	8.1	9.6
	SC (umhos/cm at 25 C) (Fld) (D)	297	168	291	293	261	313
	SC (umhos/cm at 25 C) (D)	257	180	297	296	252	285
	Total Suspended Solids (D)	3.6	20	1.8	1.6		<1
	TDS (Measured at 180 C) (D)	179	134	207	204	174	196

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	11/18/1998	5/12/1999	11/18/1999	11/18/1999	5/10/2000	10/31/2000
	SAMPLE TIME	12:10	10:20	10:45	11:00	00:00	10:05
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	311-4419	348-4911	L992056009	L992056015	L000707007	L001833007
	SAMPLE NUMBER	EHC-9811-138	EHC-9905-138	EHC-9911-160	EHC-9911-183	EHC-0005-158	EHC-0011-160
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Water Temperature (C) (Fld) (D)	3.4	7.3	4.7	4.7	10.4	6.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	5/3/2001	5/3/2001	11/16/2001	5/15/2002	11/6/2002	4/30/2003
	SAMPLE TIME	11:00	11:15	10:50	13:00	13:40	11:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010608006	L010608009	L011574007	L020363003	L020928002	L030184002
	SAMPLE NUMBER	EHC-0105-193	EHC-0105-210	EHC-0111-190	EHC-0205-221	EHC-0211-209	EHC-0304-101
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)(D)	54	59	106	66	109	63
Calcium (Ca) (DIS)(D)	18	18	31	24	32	21
Carbonate As CO3 (D)	<1	<1	<1	<1	<1	<2
Chloride (Cl) (D)	3.3 J	2 J	5	2.8	5.5	3
Magnesium (Mg) (DIS)(D)	<5	<5	7.4	5.3	7.3	<5
Potassium (K) (DIS)(D)	<5	<5	<5	<5	<5	<5
Sodium (Na) (DIS)(D)	6.9	6.7	18	9.4	16	8.3
Sulfate (SO4) (D)	44	47	47	43	58	30
Total Alkalinity As CaCO3 (D)	44	48	87	54	89	52

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)			<0.05			
Aluminum (Al) (TOT)(D)			<0.05			
Arsenic (As) (DIS)(D)	<0.005	<0.005	0.007		<0.005	<0.005
Arsenic (As) (TOT)(D)	0.005	0.006	0.008		<0.005	0.005
Arsenic (As) (TRC)(D)				0.005		
Arsenic III (dis)(D)	<0.005	<0.005	0.006			
Arsenic V (dis)(D)	<0.005	<0.005	0.006			
Cadmium (Cd) (DIS)(D)	<0.001	<0.001	<0.001		<0.001	<0.001
Cadmium (Cd) (TOT)(D)	<0.001	<0.001	<0.001		<0.001	<0.001
Cadmium (Cd) (TRC)(D)				<0.001		
Copper (Cu) (DIS)(D)	<0.004	<0.004	<0.004		<0.004	<0.004
Copper (Cu) (TOT)(D)	<0.004	0.007	<0.004		<0.004	0.004
Copper (Cu) (TRC)(D)				0.005		
Iron (Fe) (DIS)(D)	<0.05	<0.05	0.09		0.03	0.07
Iron (Fe) (TOT)(D)	0.5	0.5	0.4		0.3	0.4
Iron (Fe) (TRC)(D)				0.5		
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005		<0.005	<0.005
Lead (Pb) (TOT)(D)	0.008	0.007	<0.005		<0.005	<0.005
Lead (Pb) (TRC)(D)				0.007		
Manganese (Mn) (DIS)(D)	0.03	0.03	0.08		0.06	0.04
Manganese (Mn) (TOT)(D)	0.07 UJ	0.09 UJ	0.09		0.06	0.06
Manganese (Mn) (TRC)(D)				0.09		
Zinc (Zn) (DIS)(D)	0.03	0.03	0.03		0.03	0.04
Zinc (Zn) (TOT)(D)	0.06 U	0.06 U	0.04		0.04	0.06
Zinc (Zn) (TRC)(D)				0.06		

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential (D)			171.1	-29.1		
Oxygen (O) (DIS) (Fld) (D)	9	9	11.6	10.7	6.7	11.4
pH (D)	7.9	8	8.1	7	7	6.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	5/3/2001	5/3/2001	11/16/2001	5/15/2002	11/6/2002	4/30/2003
	SAMPLE TIME	11:00	11:15	10:50	13:00	13:40	11:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010608006	L010608009	L011574007	L020363003	L020928002	L030184002
	SAMPLE NUMBER	EHC-0105-193	EHC-0105-210	EHC-0111-190	EHC-0205-221	EHC-0211-209	EHC-0304-101
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				

**Physical/Fld-Lab: ppm unless noted**

Silicon+Silica (Si+SiO2) (D)				19			
Eh (millivolts) (D)	285	279	379				
Flow (D)	89.6		17	61.01	21.2	96.3	
pH (Fld) (D)	7.9	7.8	8.3	7.3	6.2	6.5	
SC (umhos/cm at 25 C) (Fld) (D)	171	171	321	207	290	166	
SC (umhos/cm at 25 C) (D)	180	180	295	204	304	193	
Total Suspended Solids (D)	8.8	9	2.8 J	11	<1	4.5	
TDS (Measured at 180 C) (D)	150	156	190	170	206	151	
Water Temperature (C) (Fld) (D)	6.7	6.7	5	9.9	3.5	6.2	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	10/22/2003	4/29/2004	11/4/2004	11/4/2004	6/9/2005	11/21/2005
	SAMPLE TIME	09:30	10:00	10:45	11:00	10:15	12:30
	LAB	TSC-SLC	ELI	ELI	ELI	ELI-Hel	ELI-Hel
	LAB NUMBER	1030589-002	H04040214-007	H04110049-002	H04110049-003	H05060096-002	H05110173-004
	SAMPLE NUMBER	EHC-0310-301	AEH-0404-103	AEH-0411-228	AEH-0411-229	AEH-0505-301	AEH-0511-230
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	100	81	99	100	45 J-	98
Calcium (Ca) (DIS)	34	25	29	29	16	35
Carbonate As CO3	<2					
Chloride (Cl)	3.6	3	8 UJ	7 UJ	1	9
Magnesium (Mg) (DIS)	8	6	7	7	3	8
Potassium (K) (DIS)	<5	3	3	3	1 J-	2
Sodium (Na) (DIS)	18	10	16	16	5 J-	16
Sulfate (SO4)	61	43	42	42	24	57
Total Alkalinity As CaCO3	100	66	81	82	37 J-	80

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.011	0.006	0.007	0.007	<0.005	0.006
Arsenic (As) (TOT)	0.013	0.007				0.006
Arsenic (As) (TRC)			0.009	0.01	0.006	
Arsenic III (Dis)			<0.001	<0.001		
Arsenic V (Dis)			0.0052	0.0057		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)	<0.001	<0.001				<0.001
Cadmium (Cd) (TRC)			<0.001	<0.001	<0.001	
Copper (Cu) (DIS)	<0.004	0.005	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)	0.007	<0.004				<0.004
Copper (Cu) (TRC)			<0.004	<0.004	0.006	
Iron (Fe) (DIS)	0.024	0.1	0.04	0.04	0.04	0.09
Iron (Fe) (TOT)	0.33	0.39				0.25
Iron (Fe) (TRC)			0.25 J	0.05 J	0.58	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	0.007	0.006				<0.005
Lead (Pb) (TRC)			<0.005	<0.005	0.009	
Manganese (Mn) (DIS)	0.062	0.06	0.06	0.05	0.03	0.08
Manganese (Mn) (TOT)	0.087	0.08				0.08
Manganese (Mn) (TRC)			0.07 J	0.09 J	0.05	
Zinc (Zn) (DIS)	0.044	0.04	0.05	0.04	0.04	0.06
Zinc (Zn) (TOT)	0.054	0.03 UJ				0.06
Zinc (Zn) (TRC)			0.05	0.07	0.07	

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	11.91	8.81	12.38		10.51	11
pH	8	7.9	7.9	7.9	7.4	8
Flow (cfs)	12.94	58.13	23.11			26.5
pH (Fld)	7.98	6.26	6.55		7.85	7.44
SC (umhos/cm at 25 C) (Fld)	332	290	296		122	295

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	10/22/2003	4/29/2004	11/4/2004	11/4/2004	6/9/2005	11/21/2005
	SAMPLE TIME	09:30	10:00	10:45	11:00	10:15	12:30
	LAB	TSC-SLC	ELI	ELI	ELI	ELI-Hel	ELI-Hel
	LAB NUMBER	1030589-002	H04040214-007	H04110049-002	H04110049-003	H05060096-002	H05110173-004
	SAMPLE NUMBER	EHC-0310-301	AEH-0404-103	AEH-0411-228	AEH-0411-229	AEH-0505-301	AEH-0511-230
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Physical/Fld-Lab: ppm unless noted**

SC (umhos/cm at 25 C)	337	196	289	289	124	311
Total Suspended Solids	7.2	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	227	170	185	180	87	207
Salinity (G/KG) (Fld)	0.1					
Turbidity (NTU) (Fld)	2					
Water Temperature (C) (Fld)	9	6.4	2.7		8	2.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	5/12/2006	12/8/2006	6/6/2007	10/31/2007	4/30/2008	10/24/2008
	SAMPLE TIME	10:00	11:00	10:45	11:30	10:20	09:45
	LAB	ELI-Hel	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06050154-002	H06120060-002	H07060063-002	H07100380-002	H08040470-002	H08100323-002
	SAMPLE NUMBER	AEH-0605-234	AEH-0611-235	AEH-0705-301	AEH-0711-301	AEH-0805-110	AEH-0811-101
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		No Flow-Ice				
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	70	100	54		91	91
Bicarbonate (HCO3) (dis)				120		
Calcium (Ca) (DIS)	24	38	16	35	32	28
Chloride (Cl)	3	5	2	6	4	4
Magnesium (Mg) (DIS)	5	8	3	8	7	6
Potassium (K) (DIS)	2	3	2	3	2	2
Sodium (Na) (DIS)	9	15	6	17	12	12
Sulfate (SO4)	32	61	24	53	44	48
Total Alkalinity As CaCO3	57	83	44	98	74	75

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.1		<0.1	
Aluminum (Al) (TOT)			0.3		<0.1	
Antimony (Sb) (DIS)			<0.005		<0.005	
Antimony (Sb) (TOT)			<0.005		<0.005	
Arsenic (As) (DIS)	0.006	0.006	<0.005	0.011	0.006	0.007
Arsenic (As) (TOT)	0.007	0.007	0.006	0.012	0.007	0.008
Barium (Ba) (DIS)			<0.1		<0.1	
Barium (Ba) (TOT)			<0.1		<0.1	
Beryllium (Be) (DIS)			<0.001		<0.001	
Beryllium (Be) (TOT)			<0.001		<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)			<0.001		<0.001	
Chromium (Cr) (TOT)			<0.001		<0.001	
Cobalt (Co) (DIS)			<0.01		<0.01	
Cobalt (Co) (TOT)			<0.01		<0.01	
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)	<0.004	<0.004	0.004	<0.004	<0.004	<0.004
Iron (Fe) (DIS)	0.07	0.07	0.07	0.13	0.09	0.16
Iron (Fe) (TOT)	0.19	0.34	0.45	0.28	0.33	0.31
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	<0.005	0.006	0.008	<0.005	0.006	<0.005
Manganese (Mn) (DIS)	0.04	0.09	0.04	0.08	0.05	0.07
Manganese (Mn) (TOT)	0.06	0.1	0.07	0.09	0.07	0.08
Mercury (Hg) (DIS)			<0.006		<0.006	
Mercury (Hg) (TOT)			<0.006		<0.006	
Nickel (Ni) (DIS)			<0.01		<0.01	
Nickel (Ni) (TOT)			<0.01		<0.01	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7	PPC-7
Water	SAMPLE DATE	5/12/2006	12/8/2006	6/6/2007	10/31/2007	4/30/2008	10/24/2008
	SAMPLE TIME	10:00	11:00	10:45	11:30	10:20	09:45
	LAB	ELI-Hel	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06050154-002	H06120060-002	H07060063-002	H07100380-002	H08040470-002	H08100323-002
	SAMPLE NUMBER	AEH-0605-234	AEH-0611-235	AEH-0705-301	AEH-0711-301	AEH-0805-110	AEH-0811-101
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		No Flow-Ice				
	REMARKS						

**Metals (mg/L): ppm unless noted**

Selenium (Se) (DIS)				<0.005	<0.005	<0.005
Selenium (Se) (TOT)				<0.005	<0.005	<0.005
Silver (Ag) (DIS)			<0.005		<0.005	
Silver (Ag) (TOT)			<0.005		<0.005	
Thallium (Tl) (DIS)			<0.002		<0.002	
Thallium (Tl) (TOT)			<0.002		<0.002	
Tin (Sn) (DIS)			<0.1			
Tin (Sn) (TOT)			<0.1			
Vanadium (V) (DIS)			<0.01		<0.01	
Vanadium (V) (TOT)			<0.01		<0.01	
Zinc (Zn) (DIS)	0.04	0.07	0.05	0.03	0.03	0.06
Zinc (Zn) (TOT)	0.06	0.09	0.06	0.03	0.04	0.07

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential		88.1				
Oxygen (O) (DIS) (Fld)	9.05	12.91	9.92	10.76	9.05	11.95
pH	7.6	7.9	7.7	7.9	8	8
Flow (cfs)			302.21	24.18	49.51	36.38
Flow (feet)	91.2					
pH (Fld)	7.44	7.45	6.81	7.98	7.65	7.53
SC (umhos/cm at 25 C) (Fld)	170	295	140	334	264	259
SC (umhos/cm at 25 C)	200	333	136	358	257	250
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	134	211	102	207	169	170
Water Temperature (C) (Fld)	9.45	0.0	10.54	4.5	7.5	4.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-8	PPC-8	PPC-8
Water	SAMPLE DATE	10/24/2008	5/1/2009	11/5/1984	11/5/1984	1/10/1985
	SAMPLE TIME	10:05	09:25	00:00	00:00	00:00
	LAB	ELI	ELI	TSC-SLC	CAL	TSC-SLC
	LAB NUMBER	H08100323-003	H09050036-003	84-10995	S5402	85-538
	SAMPLE NUMBER	AEH-0811-102	AEH-0905-102	AEH-8411-26	AEH-8411-26-S	AEH-8501-106
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Field Duplicate			Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	92	75		
Bicarbonate (HCO3) (D)			102	111
Calcium (Ca) (DIS)	28	23		
Calcium (Ca) (DIS)(D)			31	28.4
Chloride (Cl)	4	3		
Chloride (Cl) (D)			4.9	4
Magnesium (Mg) (DIS)	6	5		
Magnesium (Mg) (DIS)(D)			7.8	6.4
Potassium (K) (DIS)	2	2		
Potassium (K) (DIS)(D)			2.7	2.7
Sodium (Na) (DIS)	13	9		
Sodium (Na) (DIS)(D)			13	18.3
Sulfate (SO4)	48	37		
Sulfate (SO4) (D)			48	46
Total Alkalinity As CaCO3	76	62		
Total Alkalinity As CaCO3 (D)			84	91

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		<0.05 J		
Aluminum (Al) (DIS)(D)				<0.2
Aluminum (Al) (TOT)		0.14		
Aluminum (Al) (TOT)(D)				0.3
Aluminum (Al) (TRC)		0.13		
Antimony (Sb) (DIS)		<0.003		
Antimony (Sb) (DIS)(D)				<0.01
Antimony (Sb) (TOT)		<0.003		
Antimony (Sb) (TOT)(D)				<0.01
Antimony (Sb) (TRC)		<0.003		
Arsenic (As) (DIS)	0.007	0.004 J		
Arsenic (As) (DIS)(D)			0.01	0.02
Arsenic (As) (TOT)	0.008	0.0052		
Arsenic (As) (TOT)(D)			0.02	0.01
Arsenic (As) (TRC)		0.0052		
Barium (Ba) (DIS)		<0.1		
Barium (Ba) (DIS)(D)				0.02
Barium (Ba) (TOT)		<0.1		
Barium (Ba) (TOT)(D)				0.02
Barium (Ba) (TRC)		<0.1		
Beryllium (Be) (DIS)		<0.001		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-8	PPC-8	PPC-8
Water	SAMPLE DATE	10/24/2008	5/1/2009	11/5/1984	11/5/1984	1/10/1985
	SAMPLE TIME	10:05	09:25	00:00	00:00	00:00
	LAB	ELI	ELI	TSC-SLC	CAL	TSC-SLC
	LAB NUMBER	H08100323-003	H09050036-003	84-10995	S5402	85-538
	SAMPLE NUMBER	AEH-0811-102	AEH-0905-102	AEH-8411-26	AEH-8411-26-S	AEH-8501-106
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Field Duplicate			Split	

**Metals (mg/L): ppm unless noted**

Beryllium (Be) (DIS)(D)					<0.0006	
Beryllium (Be) (TOT)			<0.001			
Beryllium (Be) (TOT)(D)					<0.0006	
Beryllium (Be) (TRC)			<0.001			
Cadmium (Cd) (DIS)	<0.001		0.0021 UJ			
Cadmium (Cd) (DIS)(D)				0.003	<0.004	0.001
Cadmium (Cd) (TOT)	<0.001		0.0003 UJ			
Cadmium (Cd) (TOT)(D)				0.003	<0.004	0.003
Cadmium (Cd) (TRC)			0.0002 J			
Chromium (Cr) (DIS)			<0.001			
Chromium (Cr) (DIS)(D)					<0.002	
Chromium (Cr) (TOT)			0.005 UJ			
Chromium (Cr) (TOT)(D)					<0.002	
Chromium (Cr) (TRC)			0.002			
Cobalt (Co) (DIS)			0.0015 UJ			
Cobalt (Co) (DIS)(D)					<0.007	
Cobalt (Co) (TOT)			<0.0005			
Cobalt (Co) (TOT)(D)					<0.007	
Cobalt (Co) (TRC)			<0.0005			
Copper (Cu) (DIS)	<0.004		0.002			
Copper (Cu) (DIS)(D)				<0.008	0.04	
Copper (Cu) (TOT)	<0.004		0.003			
Copper (Cu) (TOT)(D)				0.009	0.03	
Copper (Cu) (TRC)			0.004			
Gold (Au) (DIS)			<0.01 UJ			
Gold (Au) (TOT)			<0.01			
Gold (Au) (TRC)			<0.01			
Iron (Fe) (DIS)	0.16		0.08			
Iron (Fe) (DIS)(D)				0.1	0.1	
Iron (Fe) (TOT)	0.3		0.29			
Iron (Fe) (TOT)(D)				0.2	0.3	
Iron (Fe) (TRC)			0.26			
Lead (Pb) (DIS)	<0.005		0.0006			
Lead (Pb) (DIS)(D)				<0.005	0.003	<0.005
Lead (Pb) (TOT)	<0.005		0.0031			
Lead (Pb) (TOT)(D)				0.008	0.005	0.01
Lead (Pb) (TRC)			0.0029			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-8	PPC-8	PPC-8
Water	SAMPLE DATE	10/24/2008	5/1/2009	11/5/1984	11/5/1984	1/10/1985
	SAMPLE TIME	10:05	09:25	00:00	00:00	00:00
	LAB	ELI	ELI	TSC-SLC	CAL	TSC-SLC
	LAB NUMBER	H08100323-003	H09050036-003	84-10995	S5402	85-538
	SAMPLE NUMBER	AEH-0811-102	AEH-0905-102	AEH-8411-26	AEH-8411-26-S	AEH-8501-106
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Field Duplicate			Split	

**Metals (mg/L): ppm unless noted**

Manganese (Mn) (DIS)	0.07	0.04		
Manganese (Mn) (DIS)(D)			0.06	0.06
Manganese (Mn) (TOT)	0.08	0.05		
Manganese (Mn) (TOT)(D)			0.08	0.08
Manganese (Mn) (TRC)		0.05		
Mercury (Hg) (DIS)		<0.00001		
Mercury (Hg) (DIS)(D)				<0.0002
Mercury (Hg) (TOT)		<0.00001		
Mercury (Hg) (TOT)(D)				0.0003
Nickel (Ni) (DIS)		<-0.01		
Nickel (Ni) (DIS)(D)				<-0.03
Nickel (Ni) (TOT)		<-0.01		
Nickel (Ni) (TOT)(D)				<-0.03
Nickel (Ni) (TRC)		<-0.01		
Selenium (Se) (DIS)	<0.005	0.002		
Selenium (Se) (DIS)(D)				<0.002
Selenium (Se) (TOT)	<0.005	<0.001		
Selenium (Se) (TOT)(D)				<0.002
Selenium (Se) (TRC)		<0.001		
Silver (Ag) (DIS)		<-0.0005 J		
Silver (Ag) (DIS)(D)				0.004
Silver (Ag) (TOT)		<-0.0005		
Silver (Ag) (TOT)(D)				0.003
Silver (Ag) (TRC)		<-0.0005		
Tellurium (Te) (DIS)		<0.1		
Tellurium (Te) (TOT)		<0.1		
Tellurium (Te) (TRC)		<0.1		
Thallium (Tl) (DIS)		<-0.0002		
Thallium (Tl) (DIS)(D)				<0.002
Thallium (Tl) (TOT)		<-0.0002		
Thallium (Tl) (TOT)(D)				<0.002
Thallium (Tl) (TRC)		<-0.0002		
Tin (Sn) (DIS)(D)				<0.04
Tin (Sn) (TOT)(D)				<0.04
Vanadium (V) (DIS)		<-0.01		
Vanadium (V) (DIS)(D)				<0.004
Vanadium (V) (TOT)		<-0.01		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-7	PPC-7	PPC-8	PPC-8	PPC-8
Water	SAMPLE DATE	10/24/2008	5/1/2009	11/5/1984	11/5/1984	1/10/1985
	SAMPLE TIME	10:05	09:25	00:00	00:00	00:00
	LAB	ELI	ELI	TSC-SLC	CAL	TSC-SLC
	LAB NUMBER	H08100323-003	H09050036-003	84-10995	S5402	85-538
	SAMPLE NUMBER	AEH-0811-102	AEH-0905-102	AEH-8411-26	AEH-8411-26-S	AEH-8501-106
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Field Duplicate			Split	

### Metals (mg/L): ppm unless noted

Vanadium (V) (TOT)(D)					<0.004	
Vanadium (V) (TRC)			<0.01			
Zinc (Zn) (DIS)	0.06		0.06			
Zinc (Zn) (DIS)(D)				0.05	0.05	0.06
Zinc (Zn) (TOT)	0.07		0.05			
Zinc (Zn) (TOT)(D)				0.07	0.8	0.08
Zinc (Zn) (TRC)			0.06			

### Physical/Fld-Lab: ppm unless noted

pH	8		7.9			
pH (D)				8	8.1	7.9
Flow (cfs)			74.69			
Flow (D)				28.2		
SC (umhos/cm at 25 C) (Fld) (D)				282.1	282.1	305.7
SC (umhos/cm at 25 C)	250		220			
SC (umhos/cm at 25 C) (D)				153	170	340
Total Suspended Solids	<10		<10			
Total Suspended Solids (D)					19	1.5
TDS (Measured at 180 C)	170		141			
TDS (Measured at 180 C) (D)				197	210	204

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8
Water	SAMPLE DATE	1/10/1985	4/2/1985	5/7/1985	5/7/1985	6/4/1985	6/4/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	CAL	TSC-SLC	TSC-SLC	TSC-SLC	JTC	TSC-SLC
	LAB NUMBER	S5661	85-2352	85-3494	85-3501	73-1981	85-4098
	SAMPLE NUMBER	AEH-8501-106	AEH-8504-335	AEH-8505-405	AEH-8505-435	AEH-8506-536	AEH-8506-536
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split		Field Duplicate		Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	121	76			85	
Calcium (Ca) (DIS)(D)	24.7	32			26.3	
Chloride (Cl) (D)	4.6	<2			3	
Magnesium (Mg) (DIS)(D)	6	7.5			5.4	
Potassium (K) (DIS)(D)	1.9	3.3			<1.2	
Sodium (Na) (DIS)(D)	14.9	15			9.9	
Sulfate (SO4) (D)	54	49			37.8	
Total Alkalinity As CaCO3 (D)	99	62			69.5	

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)	<0.2				<0.1	
Aluminum (Al) (TOT)(D)	<0.2				<0.1	
Antimony (Sb) (DIS)(D)	<0.01				<0.05	
Antimony (Sb) (TOT)(D)	<0.01				<0.05	
Arsenic (As) (DIS)(D)	0.02	0.01	0.01	0.01	0.01	0.02
Arsenic (As) (TOT)(D)	0.03	0.02	0.02	0.02	0.03	0.03
Barium (Ba) (DIS)(D)	0.02				0.02	
Barium (Ba) (TOT)(D)	0.02				0.02	
Beryllium (Be) (DIS)(D)	<0.0006				<0.005	
Beryllium (Be) (TOT)(D)	<0.0006				<0.005	
Cadmium (Cd) (DIS)(D)	<0.004	<0.001	<0.001	<0.001	0.01	<0.001
Cadmium (Cd) (TOT)(D)	<0.004	0.001	<0.001	<0.001	<0.004	<0.001
Chromium (Cr) (DIS)(D)	<0.002				<0.008	
Chromium (Cr) (TOT)(D)	<0.002				<0.008	
Cobalt (Co) (DIS)(D)	<0.007				<0.02	
Cobalt (Co) (TOT)(D)	<0.007				<0.02	
Copper (Cu) (DIS)(D)	0.004	<0.008			<0.02	0.009
Copper (Cu) (TOT)(D)	0.009	0.01			<0.02	0.01
Iron (Fe) (DIS)(D)	0.03	0.08			<0.04	0.02
Iron (Fe) (TOT)(D)	0.3	0.6			0.3	0.3
Lead (Pb) (DIS)(D)	<0.003	<0.005	<0.005	<0.005	<0.002	<0.005
Lead (Pb) (TOT)(D)	0.03	0.04	0.03	0.02	0.02	0.03
Manganese (Mn) (DIS)(D)	0.08	0.06			0.07	0.06
Manganese (Mn) (TOT)(D)	0.1	0.1			0.1	0.08
Mercury (Hg) (DIS)(D)	<0.0002				<0.0001	
Mercury (Hg) (TOT)(D)	<0.0002				<0.0001	
Nickel (Ni) (DIS)(D)	<0.03				<0.02	
Nickel (Ni) (TOT)(D)	<0.03				<0.02	
Selenium (Se) (DIS)(D)	<0.002				<0.04	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8
Water	SAMPLE DATE	1/10/1985	4/2/1985	5/7/1985	5/7/1985	6/4/1985	6/4/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	CAL	TSC-SLC	TSC-SLC	TSC-SLC	JTC	TSC-SLC
	LAB NUMBER	S5661	85-2352	85-3494	85-3501	73-1981	85-4098
	SAMPLE NUMBER	AEH-8501-106	AEH-8504-335	AEH-8505-405	AEH-8505-435	AEH-8506-536	AEH-8506-536
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split		Field Duplicate		Split	

### Metals (mg/L): ppm unless noted

Selenium (Se) (TOT)(D)	<0.002					<0.004	
Silver (Ag) (DIS)(D)	<0.003					0.02	
Silver (Ag) (TOT)(D)	<0.003					<0.01	
Thallium (Tl) (DIS)(D)	<0.002					<0.003	
Thallium (Tl) (TOT)(D)	<0.002					<0.003	
Tin (Sn) (DIS)(D)	<0.04					<0.03	
Tin (Sn) (TOT)(D)	<0.04					<0.03	
Vanadium (V) (DIS)(D)	<0.004					<0.03	
Vanadium (V) (TOT)(D)	<0.004					<0.03	
Zinc (Zn) (DIS)(D)	0.05	0.04	0.06	0.04	0.03	0.03	0.03
Zinc (Zn) (TOT)(D)	0.07	0.07	0.09	0.1	0.07	0.06	0.06

### Physical/Fld-Lab: ppm unless noted

pH (D)	7.9	7.5		7.9	8	7.8
Flow (D)		37.7		64.7		46
SC (umhos/cm at 25 C) (Fld) (D)		284.9	213	212.1		223.8
SC (umhos/cm at 25 C) (D)	210	294		220	232	235
Total Suspended Solids (D)	1	7.6		9.5	6	3.4
TDS (Measured at 180 C) (D)	210	202		157	124	155

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8
Water	SAMPLE DATE	7/1/1985	8/6/1985	9/12/1985	10/16/1986	5/7/1987	8/18/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	WYRHR
	LAB NUMBER	85-4755	85-6042	85-7016	86-6952	87-3042	8708-50
	SAMPLE NUMBER	AEH-8507-614	AEH-8508-744	AEH-8509-813	AEH-8610-129	AEH-8705-115	AEH-8708-50
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3) (D)		127		100	76	
	Calcium (Ca) (DIS)(D)		33				26.6
	Chloride (Cl) (D)		5.9				
	Magnesium (Mg) (DIS)(D)		7.9				6.3
	Potassium (K) (DIS)(D)		4.2				2.6
	Sodium (Na) (DIS)(D)		19.5				11.5
	Sulfate (SO4) (D)		46		56	32	
	Total Alkalinity As CaCO3 (D)		104				
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)(D)	0.03	0.08	0.01	0.01	0.01	0.02
	Arsenic (As) (TOT)(D)	0.03	0.09	0.02	0.008	0.02	0.02
	Cadmium (Cd) (DIS)(D)	0.001	<0.001	<0.001	<0.001	<0.001	0.0005
	Cadmium (Cd) (TOT)(D)	0.003	0.003	<0.001	<0.001	0.001	0.001
	Copper (Cu) (DIS)(D)		<0.008				<0.002
	Copper (Cu) (TOT)(D)		0.009				0.006
	Iron (Fe) (DIS)(D)		0.05		0.1	0.07	0.05
	Iron (Fe) (TOT)(D)		0.4		0.3	0.4	0.3
	Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005 M	0.003
	Lead (Pb) (TOT)(D)	0.05	0.03	0.02	0.02	0.03 M	0.03
	Manganese (Mn) (DIS)(D)		0.1				0.07
	Manganese (Mn) (TOT)(D)		0.2				0.09
	Zinc (Zn) (DIS)(D)	0.02	0.01	0.03	0.05	0.03	0.04
	Zinc (Zn) (TOT)(D)	0.06	0.04	0.06	0.06	0.06	0.05
<b>Physical/Fid-Lab: ppm unless noted</b>							
	pH (D)	8	8.4	7.2	7.9	7.9	
	Flow (D)	12.4	9.7	24.9	41	69.9	
	pH (Fld) (D)				7.7	8.1 M	
	SC (umhos/cm at 25 C) (Fld) (D)	303.1	321.5	298	264	188.7	
	SC (umhos/cm at 25 C) (D)	283	336	322	275	196	
	Total Suspended Solids (D)	1.9	1.7	4.2			
	TDS (Measured at 180 C) (D)	203	222	191	212	164	
	Water Temperature (C) (Fld) (D)				5	15	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8
Water	SAMPLE DATE	8/18/1987	8/18/1987	8/18/1987	4/25/1989	10/26/1989	10/26/1989
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-6877	8708-64	87-6869	89-557	89-839	89-854
	SAMPLE NUMBER	AEH-8708-50	AEH-8708-64	AEH-8708-64	AEH-8904-281	AEH-8910-455	AEH-8910-466
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate	Split			Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)		76	102			
Calcium (Ca) (DIS)(D)		26.4				
Carbonate As CO3 (D)		<5				
Chloride (Cl) (D)		1.9		2.3		2.5
Magnesium (Mg) (DIS)(D)		6.3				
Potassium (K) (DIS)(D)		2.5				
Sodium (Na) (DIS)(D)		11.6				
Sulfate (SO4) (D)		36	38	39		34

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.02	0.02	0.02	<0.004	0.02	0.008 J
Arsenic (As) (TOT)(D)	0.02	0.02	0.02	0.009	0.02	0.008 J
Cadmium (Cd) (DIS)(D)	<0.001	0.0003	<0.001	<0.002 UJ	<0.001	<0.001
Cadmium (Cd) (TOT)(D)	<0.001	0.001	0.001	<0.002 UJ	<0.001	<0.003
Copper (Cu) (DIS)(D)		0.002		<0.008	0.009	<0.008
Copper (Cu) (TOT)(D)		0.005		0.02	<0.008	<0.008
Iron (Fe) (DIS)(D)	0.08	0.06	0.07			
Iron (Fe) (TOT)(D)	0.3	0.3	0.3			
Lead (Pb) (DIS)(D)	0.008	0.004	0.009 M	<0.02	<0.005 UJ	<0.005 UJ
Lead (Pb) (TOT)(D)	0.03	0.03	0.03	0.03	0.01 J	0.01
Manganese (Mn) (DIS)(D)		0.07				
Manganese (Mn) (TOT)(D)		0.09				
Zinc (Zn) (DIS)(D)	0.04	0.03	0.04	0.03 J	0.02 J	0.03 J
Zinc (Zn) (TOT)(D)	0.05	0.05	0.05	0.08	0.04 J	0.04 J

**Physical/Fid-Lab: ppm unless noted**

pH (D)			7.8	7.3		8
Flow (D)			40.4		40.1	40.1
pH (Fld) (D)	7.9	7.9	7.9	7.9	7.7	7.7
SC (umhos/cm at 25 C) (Fld) (D)			235.7	195.1		238
SC (umhos/cm at 25 C) (D)			235	190		241
Total Suspended Solids (D)			4.3			
TDS (Measured at 180 C) (D)		150	155	185 R		158
Water Temperature (C) (Fld) (D)	13.5	13.5	13.5	6.8	6.8	6.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8
Water	SAMPLE DATE	5/2/1990	5/2/1990	11/20/1990	11/20/1990	5/1/1991	11/6/1991
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	09:45
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	90-1077	90-1086	90-2214	90-2216	91-2652	91-3603
	SAMPLE NUMBER	AEH-9005-431	AEH-9005-510	AEH-9011-701	AEH-9011-703	AEH-9105-100	AEH-9111-347
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl) (D)	2.1	3 J	3 J	<2	3
Sulfate (SO4) (D)	32.8	43 J	43 J	36	45

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.02	0.01 J	0.007	<0.006	0.007	0.005
Arsenic (As) (TOT)(D)	0.02 J	0.02 J	0.01	0.008	0.01	0.01
Cadmium (Cd) (DIS)(D)	0.001 U	0.001 U	0.001 U	0.001 U	<0.001	<0.001
Cadmium (Cd) (TOT)(D)	0.001 U	0.001 U	0.001 U	0.001 U	<0.002	0.001
Copper (Cu) (DIS)(D)	<0.008	<0.008	<0.008	<0.008	<0.004	<0.004
Copper (Cu) (TOT)(D)	<0.008	0.009	<0.008	<0.008	0.005 U	0.004
Lead (Pb) (DIS)(D)	<0.005	<0.005 UJ	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.01	0.03 J	0.008	0.007 J	0.01	0.005
Zinc (Zn) (DIS)(D)	0.04	0.04			0.02	0.03
Zinc (Zn) (TOT)(D)	0.07	0.08			0.04	0.04

**Physical/Fld-Lab: ppm unless noted**

pH (D)		8	8.3	8.2	7.9	7.2
Flow (D)		100.3			50.3	34.3
pH (Fld) (D)		7	8.04	8.04	8.3	7.9
SC (umhos/cm at 25 C) (Fld) (D)	180	181.6	248.4	260.6	235.6	238
SC (umhos/cm at 25 C) (D)		180	265	265	228	231
TDS (Measured at 180 C) (D)		125 J	167 J	171 J	180 J	165 J
Water Temperature (C) (Fld) (D)		6.5	3	3	9.1	0.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8
Water	SAMPLE DATE	4/14/1992	4/14/1992	11/13/1992	4/28/1993	4/28/1993	11/2/1993
	SAMPLE TIME	11:00	13:00	11:30	10:30	12:10	12:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	92-4278	92-4287	92-6826	93-7714	93-7717	93-9142
	SAMPLE NUMBER	AEH-9204-146	AEH-9204-118	EHC-9211-107	EHC-9305-101	EHC-9305-104	EHC-9311-151
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate			Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Calcium (Ca) (Dis)(D)			31 J	25 J	24 J	
Chloride (Cl) (D)	2.1 J	3.4 J	3.2 J	2.3	2.1	3 J
Magnesium (Mg) (Dis)(D)			7.2	5.5 J	5.4 J	
Potassium (K) (Dis)(D)			<5	<5	<5	
Sodium (Na) (Dis)(D)			15	8.9 J	8.7 J	
Sulfate (SO4) (D)	43 J	44 J	46 J	38	38	44 J
Total Hardness As CaCO3 (D)				85	82	

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.007	0.006	0.009 J	0.006	0.007 J	0.009
Arsenic (As) (TOT)(D)	0.008	0.01	0.01 J	0.008	0.008	0.01
Cadmium (Cd) (DIS)(D)	0.001	0.001	<0.001	0.001	<0.001	0.001 U
Cadmium (Cd) (TOT)(D)	0.001	0.001	0.001	0.001	0.001	0.001 U
Copper (Cu) (DIS)(D)	<0.004	<0.004	<0.004	0.004	<0.004	<0.004
Copper (Cu) (TOT)(D)	0.004	<0.004	0.004	0.006	0.006	<0.004
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005 UJ	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.009	0.009	0.007 J	0.006	0.006 J	0.006
Zinc (Zn) (DIS)(D)	0.02	0.02	0.01	0.04	0.04	0.07
Zinc (Zn) (TOT)(D)	0.04	0.04	0.03	0.06	0.06	0.07

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)				10.2	10.2	
pH (D)	8	8.3	8.4			
Flow (D)	42.9	42.9	26.2	103	103	79.8
pH (Fld) (D)	8.5	8.5	7.9	7.4	7.4	8.3
SC (umhos/cm at 25 C) (Fld) (D)	234	232	257	201	204	227
SC (umhos/cm at 25 C) (D)	239	228	245	165	170	230 J
TDS (Measured at 180 C) (D)	151 J	158 J	220	152	163	148
Water Temperature (C) (Fld) (D)	10.3	10.3	4	7.4	7.4	3.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8	
Water	SAMPLE DATE	11/2/1993	5/5/1994	11/8/1994	5/4/1995	11/7/1995	11/7/1995	
	SAMPLE TIME	14:15	13:30	09:20	00:00	08:30	08:45	
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	
	LAB NUMBER	93-9143	94-1109	94-3240	95-4467	95-5812	95-5818	
	SAMPLE NUMBER	EHC-9311-157	EHC-9405-155	EHC-9411-157	EHC-9505-156	EHC-9511-158	EHC-9511-184	
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	
	GROUP	RI	RI	RI	RI	RI	RI	
	DESCRIPTION							
	REMARKS	Field Duplicate					Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Chloride (Cl) (D)	3.1 J	2	4.2	2.1	2.5	2.6
Sulfate (SO4) (D)	42 J	35 J	52	33	52	54

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.009	0.005	0.007	0.006	0.02	0.01
Arsenic (As) (TOT)(D)	0.01	0.009	0.009	0.007	0.01	0.01
Cadmium (Cd) (DIS)(D)	0.001 U	0.001	0.001	0.001	0.001	0.001
Cadmium (Cd) (TOT)(D)	0.001 U	0.002	0.001	<0.001	0.002	0.001
Copper (Cu) (DIS)(D)	<0.004	0.005	<0.004	0.005	<0.004	<0.004
Copper (Cu) (TOT)(D)	<0.004	0.01	0.004 J	0.01	0.004	0.004
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005 J	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.006	0.02 J	0.007 J	0.009 J	0.01 J	0.01 J
Zinc (Zn) (DIS)(D)	0.07	0.05	0.05 U	0.03	0.07	0.07
Zinc (Zn) (TOT)(D)	0.07	0.1 J	0.07	0.08 J	0.09	0.08

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)			13.1	10.4		
pH (D)				7.7	7.5 J	7.4 J
Flow (D)	79.8	142	28.7	69.4		
pH (Fld) (D)	8.3	8.3	8.4	8.7	6.3	6.3
SC (umhos/cm at 25 C) (Fld) (D)	227	190	281	206	276	276
SC (umhos/cm at 25 C) (D)	230 J	175 J	287	200	263	263
TDS (Measured at 180 C) (D)	142	132 J	177	140	160	173
Water Temperature (C) (Fld) (D)	3.8	10.5	0.6	7.8	1.9	1.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8
Water	SAMPLE DATE	5/9/1996	11/7/1996	5/5/1997	11/4/1997	5/14/1998	11/18/1998
	SAMPLE TIME	08:50	10:00	12:10	09:00	10:30	11:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	96-6793	96-7751	97-921	188-2695	262-3795	311-4420
	SAMPLE NUMBER	EHC-9605-140	EHC-9611-140	EHC-9705-137	EHC-9711-140	EHC-9805-140	EHC-9811-139
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)					55	92
Calcium (Ca) (DIS)(D)					17	27
Chloride (Cl) (D)	4.2	3.7	1	4	2	2.9
Magnesium (Mg) (DIS)(D)					<5	6.3
Potassium (K) (DIS)(D)					<5	<5
Sodium (Na) (DIS)(D)					6	12
Sulfate (SO4) (D)	49	55	34	50	28	42
Total Alkalinity As CaCO3 (D)					45	75

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.009	0.01 J	0.006	0.006	<0.005	0.006 J
Arsenic (As) (TOT)(D)	0.01 J	0.01 J	0.009	0.006	0.006	0.008
Arsenic III (dis)(D)			<0.005	<0.005	<0.005	<0.005
Arsenic V (dis)(D)			<0.005	<0.005	<0.005	<0.005
Cadmium (Cd) (DIS)(D)	<0.005	0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)(D)	<0.005	0.002	<0.001	<0.001	<0.001	<0.001
Copper (Cu) (DIS)(D)	0.004	<0.004	0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)(D)	0.01	0.008	0.02	<0.004	0.006	<0.004
Iron (Fe) (DIS)(D)					0.05 UJ	0.1
Iron (Fe) (TOT)(D)					0.8	0.3
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.02	0.02	0.02	<0.005	0.02 U	<0.005
Manganese (Mn) (DIS)(D)					0.03	0.06
Manganese (Mn) (TOT)(D)					0.09	0.08
Zinc (Zn) (DIS)(D)	0.1	0.07	0.1	0.1	0.05 U	0.05
Zinc (Zn) (TOT)(D)	0.2	0.1	0.2 J	0.1	0.09 J	0.07

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)	11.05	12.8	9.8	11.06	12.1	12.8
pH (D)	7.9	7.8	7.6	7.9	7.4	7.8
Eh (millivolts) (D)						314
Flow (D)	64.7	30.7	111.6	42.05	95.4	35.5
pH (Fld) (D)	6.1	8.1	7.3	8.8	7.9	7.7
SC (umhos/cm at 25 C) (Fld) (D)	322	304	178	262	158	283
SC (umhos/cm at 25 C) (D)	250	294	180	259	149	256
Total Suspended Solids (D)				<1		2.4
TDS (Measured at 180 C) (D)	174	206	141	189	116	170
Water Temperature (C) (Fld) (D)	5.3	1.6	9.9	6.8	9.4	3.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8
Water	SAMPLE DATE	5/12/1999	11/18/1999	5/10/2000	10/31/2000	10/31/2000	5/3/2001
	SAMPLE TIME	09:30	10:00	09:40	10:50	11:00	10:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	348-4912	L992056010	L000707008	L001833008	L001833009	L010608007
	SAMPLE NUMBER	EHC-9905-139	EHC-9911-161	EHC-0005-159	EHC-0011-161	EHC-0011-165	EHC-0105-194
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Common Ions (mg/L): ppm unless noted</b>							
Bicarbonate (HCO3) (D)	56 J	105	98	104	110	54	
Calcium (Ca) (DIS)(D)	20	32	26	30	28	18	
Carbonate As CO3 (D)	<1 UJ	<1	<1	<1	<1	<1	
Chloride (Cl) (D)	2.2	4 J	3.5	4.7 J	5.4 J	2.6 J	
Magnesium (Mg) (DIS)(D)	<5	7.3	5.8	6.9	6.6	<5	
Potassium (K) (DIS)(D)	<5	<5	<5	<5	<5	<5	
Sodium (Na) (DIS)(D)	8.6	17	13	18	18	6.8	
Sulfate (SO4) (D)	28	53	41	53	52	41	
Total Alkalinity As CaCO3 (D)	46 J	86	80	85	90	44	
<b>Metals (mg/L): ppm unless noted</b>							
Arsenic (As) (DIS)(D)	0.007	0.01	<0.005	0.008	0.008	<0.005	
Arsenic (As) (TOT)(D)	0.008	0.01	0.006	0.01	0.01	0.006	
Arsenic III (dis)(D)	<0.005	<0.005	0.008 U	<0.02	<0.02	<0.005	
Arsenic V (dis)(D)	0.008	0.01	0.01 U	<0.02	<0.02	<0.005	
Cadmium (Cd) (DIS)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Cadmium (Cd) (TOT)(D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper (Cu) (DIS)(D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Copper (Cu) (TOT)(D)	0.006	<0.004	0.004	<0.004	<0.004	0.004	
Iron (Fe) (DIS)(D)	0.2 UJ	0.09	0.07 J	0.08 UJ	0.1 UJ	<0.05	
Iron (Fe) (TOT)(D)	1.01 J	0.3	0.6 U	0.4 UJ	0.4 UJ	0.5	
Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Lead (Pb) (TOT)(D)	0.01	0.005	0.008	0.007	<0.005	0.008	
Manganese (Mn) (DIS)(D)	0.03	0.09	0.06	0.05	0.05	0.03	
Manganese (Mn) (TOT)(D)	0.09	0.09	0.09	0.06	0.06	0.08 UJ	
Zinc (Zn) (DIS)(D)	0.04	0.07	0.04	0.04	0.04	0.04	
Zinc (Zn) (TOT)(D)	0.07	0.07	0.06	0.05	0.05	0.06 U	
<b>Physical/Fld-Lab: ppm unless noted</b>							
Oxygen (O) (DIS) (Fld) (D)	9.3	11.6	10.8	12.6	12.6	8.08	
pH (D)	7.7	8.1	8.1	8.2	8.1	7.9	
Eh (millivolts) (D)	377	484	431	352	359	298	
Flow (D)	96.8	21.4	23	25.8		86.6	
pH (Fld) (D)	7.9	8.8	7.6	8.9	8.9	8.2	
SC (umhos/cm at 25 C) (Fld) (D)	166	293	296	282	285	171	
SC (umhos/cm at 25 C) (D)	180	296	253	285	283	179	
Total Suspended Solids (D)		1.8		<1	1.6	9.3	
TDS (Measured at 180 C) (D)	131	205	164	190	203	147	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8
Water	SAMPLE DATE	5/12/1999	11/18/1999	5/10/2000	10/31/2000	10/31/2000	5/3/2001
	SAMPLE TIME	09:30	10:00	09:40	10:50	11:00	10:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	348-4912	L992056010	L000707008	L001833008	L001833009	L010608007
	SAMPLE NUMBER	EHC-9905-139	EHC-9911-161	EHC-0005-159	EHC-0011-161	EHC-0011-165	EHC-0105-194
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Field Duplicate	
<b>Physical/Fld-Lab: ppm unless noted</b>							
	Water Temperature (C) (Fld) (D)	7.4	4.6	9.8	7.1	7.1	5.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8
Water	SAMPLE DATE	11/16/2001	11/16/2001	5/15/2002	5/15/2002	11/6/2002	4/30/2003
	SAMPLE TIME	09:50	10:00	10:50	11:00	12:40	10:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011574008	L011574009	L020363001	L020363002	L020928003	L030184001
	SAMPLE NUMBER	EHC-0111-191	EHC-0111-216	EHC-0205-222	EHC-0205-226	EHC-0211-210	EHC-0304-100
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	109	107	66	67	107	66
Calcium (Ca) (DIS)(D)	32	32	24	24	32	21
Carbonate As CO3 (D)	<1	<1	<1	<1	<1	<2
Chloride (Cl) (D)	4.8	4.2	2.4	2.2	4.6	2.7
Magnesium (Mg) (DIS)(D)	7.4	7.5	5.3	5.3	7.4	<5
Potassium (K) (DIS)(D)	<5	<5	<5	<5	<5	<5
Sodium (Na) (DIS)(D)	18	19	9.5	9.5	16	8.4
Sulfate (SO4) (D)	47	47	41	42	53	28
Total Alkalinity As CaCO3 (D)	89	88	54	55	88	54

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)	<0.05	<0.05				
Aluminum (Al) (TOT)(D)	<0.05	<0.05				
Arsenic (As) (DIS)(D)	0.006	0.006			<0.005	<0.005
Arsenic (As) (TOT)(D)	0.007	0.007			<0.005	0.005
Arsenic (As) (TRC)(D)			0.005	0.005		
Arsenic III (dis)(D)	0.005	0.006				
Arsenic V (dis)(D)	0.006	0.005				
Cadmium (Cd) (DIS)(D)	<0.001	<0.001			<0.001	<0.001
Cadmium (Cd) (TOT)(D)	<0.001	<0.001			<0.001	<0.001
Cadmium (Cd) (TRC)(D)			<0.001	<0.001		
Copper (Cu) (DIS)(D)	<0.004	<0.004			<0.004	<0.004
Copper (Cu) (TOT)(D)	<0.004	<0.004			<0.004	0.005
Copper (Cu) (TRC)(D)			0.007	0.006		
Iron (Fe) (DIS)(D)	0.08	0.08			0.04	0.06
Iron (Fe) (TOT)(D)	0.4	0.4			0.3	0.4
Iron (Fe) (TRC)(D)			0.5	0.5		
Lead (Pb) (DIS)(D)	<0.005	<0.005			<0.005	<0.005
Lead (Pb) (TOT)(D)	<0.005	<0.005			<0.005	<0.005
Lead (Pb) (TRC)(D)			0.008	0.007		
Manganese (Mn) (DIS)(D)	0.07	0.07			0.05	0.04
Manganese (Mn) (TOT)(D)	0.08	0.09			0.06	0.06
Manganese (Mn) (TRC)(D)			0.1	0.09		
Zinc (Zn) (DIS)(D)	0.02	0.03			0.03	0.04
Zinc (Zn) (TOT)(D)	0.03	0.03			0.04	0.06
Zinc (Zn) (TRC)(D)			0.07	0.06		

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential (D)	221	223.1	0.0	0.0		
Oxygen (O) (DIS) (Fld) (D)	12.07	12.05	11.6	11.6	6.8	11.3
pH (D)	7.9	7.8	6.8	6.7	6.9	6.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8
Water	SAMPLE DATE	11/16/2001	11/16/2001	5/15/2002	5/15/2002	11/6/2002	4/30/2003
	SAMPLE TIME	09:50	10:00	10:50	11:00	12:40	10:40
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L011574008	L011574009	L020363001	L020363002	L020928003	L030184001
	SAMPLE NUMBER	EHC-0111-191	EHC-0111-216	EHC-0205-222	EHC-0205-226	EHC-0211-210	EHC-0304-100
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		

**Physical/Fld-Lab: ppm unless noted**

DESCRIPTION	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8
Silicon+Silica (Si+SiO2) (D)	19	19				
Eh (millivolts) (D)	429	431				
Flow (D)	14.8		57.5		20.9	85.3
pH (Fld) (D)	8.04	8.03	7.4	7.5	6.6	6.2
SC (umhos/cm at 25 C) (Fld) (D)	315	315	201	200	291	163
SC (umhos/cm at 25 C) (D)	295	295	207	206	303	192
Total Suspended Solids (D)	2.6 J	<1 J	12	12	1.4	2.6
TDS (Measured at 180 C) (D)	189	193	171	164	203	150
Water Temperature (C) (Fld) (D)	4.5	4.5	8.8	8.8	3.1	5.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8
Water	SAMPLE DATE	10/22/2003	4/29/2004	4/29/2004	11/4/2004	6/9/2005	11/21/2005
	SAMPLE TIME	09:00	09:00	09:15	10:00	09:30	10:40
	LAB	TSC-SLC	ELI	ELI	ELI	ELI-Hel	ELI-Hel
	LAB NUMBER	1030589-001	H04040214-006	H04040214-003	H04110049-001	H05060096-001	H05110173-003
	SAMPLE NUMBER	EHC-0310-300	AEH-0404-100	AEH-0404-101	AEH-0411-227	AEH-0505-300	AEH-0511-229
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	102	81		100	44 J-	93
Calcium (Ca) (DIS)	35	25		29	15	36
Carbonate As CO3	<2					
Chloride (Cl)	3.7	2		4 UJ	2	23
Magnesium (Mg) (DIS)	8.2	6		7	3	8
Potassium (K) (DIS)	<5	3		3	1 J-	2
Sodium (Na) (DIS)	18	11		15	5 J-	16
Sulfate (SO4)	60	42		44	24	47
Total Alkalinity As CaCO3	102	66		82	36 J-	76

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	0.011	0.006	0.006 J	0.007	<0.005	0.006
Arsenic (As) (TOT)	0.012	0.007	0.007			0.006
Arsenic (As) (TRC)				0.009	0.006	
Arsenic III (Dis)				0.0012		
Arsenic V (Dis)				0.0053		
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)	<0.001	<0.001	<0.001			<0.001
Cadmium (Cd) (TRC)				<0.001	<0.001	
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)	0.005	<0.004	<0.004			<0.004
Copper (Cu) (TRC)				<0.004	0.005	
Iron (Fe) (DIS)	0.066	0.08	0.09	0.04	0.03	0.09
Iron (Fe) (TOT)	0.29	0.42	0.41			0.23
Iron (Fe) (TRC)				0.27 J	0.56	
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	<0.005	0.007	0.007			<0.005
Lead (Pb) (TRC)				<0.005	0.009	
Manganese (Mn) (DIS)	0.047	0.05	0.05	0.06	0.02	0.07
Manganese (Mn) (TOT)	0.052	0.09	0.09			0.07
Manganese (Mn) (TRC)				0.07 J	0.06	
Zinc (Zn) (DIS)	0.05	0.03	0.03	0.04	0.04	0.06
Zinc (Zn) (TOT)	0.05	0.03 UJ	0.03 UJ			0.06
Zinc (Zn) (TRC)				0.06	0.07	

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	11.61	9.02		12.71	10.52	11.34
pH	8	7.9		7.8	7.4	8
Flow (cfs)	11.69	52.87		21.66	624	25.32
pH (Fld)	8.01	6.83		6.29	8.01	7.36
SC (umhos/cm at 25 C) (Fld)	342	289		291	134	295

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8
Water	SAMPLE DATE	10/22/2003	4/29/2004	11/4/2004	6/9/2005	11/21/2005
	SAMPLE TIME	09:00	09:00	10:00	09:30	10:40
	LAB	TSC-SLC	ELI	ELI	ELI-Hel	ELI-Hel
	LAB NUMBER	1030589-001	H04040214-006	H04110049-001	H05060096-001	H05110173-003
	SAMPLE NUMBER	EHC-0310-300	AEH-0404-100	AEH-0411-227	AEH-0505-300	AEH-0511-229
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fld-Lab: ppm unless noted**

SC (umhos/cm at 25 C)	338	200	289	123	314
Total Suspended Solids	3.3	<10	<10	<10	<10
TDS (Measured at 180 C)	223	170	181	104	203
Salinity (G/KG) (Fld)	0.1				
Turbidity (NTU) (Fld)	8				
Water Temperature (C) (Fld)	9.2	6.1	2.2	7.8	2.46

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8
Water	SAMPLE DATE	5/12/2006	12/8/2006	6/6/2007	10/31/2007	4/30/2008	10/24/2008
	SAMPLE TIME	09:00	10:30	10:00	11:00	09:30	09:00
	LAB	ELI-Hel	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06050154-001	H06120060-001	H07060063-001	H07100380-001	H08040470-001	H08100323-001
	SAMPLE NUMBER	AEH-0605-233	AEH-0611-234	AEH-0705-300	AEH-0711-300	AEH-0805-109	AEH-0811-100
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		No Flow-Ice				
	REMARKS						

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	70	100	51		92	91
Bicarbonate (HCO3) (dis)				120		
Calcium (Ca) (DIS)	24	37	16	35	32	29
Chloride (Cl)	3	5	2	5	4	4
Magnesium (Mg) (DIS)	5	7	3	8	7	6
Potassium (K) (DIS)	2	3	2	3	2	2
Sodium (Na) (DIS)	9	15	6	17	12	13
Sulfate (SO4)	30	60	24	54	43	48
Total Alkalinity As CaCO3	57	84	42	98	75	75

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)			<0.1		<0.1	
Aluminum (Al) (TOT)			0.3		<0.1	
Antimony (Sb) (DIS)			<0.005		<0.005	
Antimony (Sb) (TOT)			<0.005		<0.005	
Arsenic (As) (DIS)	0.004	0.008	<0.005	0.011	0.005	0.007
Arsenic (As) (TOT)	0.009	0.009	0.006	0.012	0.007	0.008
Barium (Ba) (DIS)			<0.1		<0.1	
Barium (Ba) (TOT)			<0.1		<0.1	
Beryllium (Be) (DIS)			<0.001		<0.001	
Beryllium (Be) (TOT)			<0.001		<0.001	
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)			<0.001		<0.001	
Chromium (Cr) (TOT)			<0.001		<0.001	
Cobalt (Co) (DIS)			<0.01		<0.01	
Cobalt (Co) (TOT)			<0.01		<0.01	
Copper (Cu) (DIS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper (Cu) (TOT)	<0.004	<0.004	0.004	<0.004	0.006	<0.004
Iron (Fe) (DIS)	0.06	0.06	0.06	0.12	0.09	0.16
Iron (Fe) (TOT)	0.19	0.29	0.45	0.27	0.38	0.3
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)	<0.005	0.006	0.007	<0.005	0.009	<0.005
Manganese (Mn) (DIS)	0.04	0.08	0.04	0.07	0.05	0.08
Manganese (Mn) (TOT)	0.06	0.11	0.07	0.08	0.09	0.08
Mercury (Hg) (DIS)			<0.006		<0.006	
Mercury (Hg) (TOT)			<0.006		<0.006	
Nickel (Ni) (DIS)			<0.01		<0.01	
Nickel (Ni) (TOT)			<0.01		<0.01	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8	PPC-8
Water	SAMPLE DATE	5/12/2006	12/8/2006	6/6/2007	10/31/2007	4/30/2008	10/24/2008
	SAMPLE TIME	09:00	10:30	10:00	11:00	09:30	09:00
	LAB	ELI-Hel	ELI	ELI	ELI	ELI	ELI
	LAB NUMBER	H06050154-001	H06120060-001	H07060063-001	H07100380-001	H08040470-001	H08100323-001
	SAMPLE NUMBER	AEH-0605-233	AEH-0611-234	AEH-0705-300	AEH-0711-300	AEH-0805-109	AEH-0811-100
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION		No Flow-Ice				
	REMARKS						

**Metals (mg/L): ppm unless noted**

Selenium (Se) (DIS)				<0.005	<0.005	<0.005
Selenium (Se) (TOT)				<0.005	<0.005	<0.005
Silver (Ag) (DIS)			<0.005		<0.005	
Silver (Ag) (TOT)			<0.005		<0.005	
Thallium (Tl) (DIS)			<0.002		<0.002	
Thallium (Tl) (TOT)			<0.002		<0.002	
Tin (Sn) (DIS)			<0.1			
Tin (Sn) (TOT)			<0.1			
Vanadium (V) (DIS)			<0.01		<0.01	
Vanadium (V) (TOT)			<0.01		<0.01	
Zinc (Zn) (DIS)	0.04	0.07	0.05	0.03	0.03	0.06
Zinc (Zn) (TOT)	0.06	0.09	0.07	0.03	0.05	0.07

**Physical/Fld-Lab: ppm unless noted**

Oxidation Reduction Potential		171.3				
Oxygen (O) (DIS) (Fld)	9.15	13.2	9.91	11.36	9.09	12.01
pH	7.6	8	7.9	7.9	7.7	8
Flow (cfs)			390.86	21.07	45.9	35.28
Flow (feet)	84					
pH (Fld)	7.4	7.31	7.24	7.97	7.69	7.42
SC (umhos/cm at 25 C) (Fld)	191	319	140	343	266	260
SC (umhos/cm at 25 C)	201	336	137	360	257	253
Total Suspended Solids	<10	<10	<10	<10	<10	<10
TDS (Measured at 180 C)	136	218	106	208	167	172
Water Temperature (C) (Fld)	9.41	0.0	10.63	4.2	7.5	4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-8	PPC-8	PPC-9	PPC-9	PPC-9
Water	SAMPLE DATE	5/1/2009	5/1/2009	11/5/1984	11/5/1984	1/10/1985
	SAMPLE TIME	08:20	08:50	00:00	00:00	00:00
	LAB	ELI	ELI	TSC-SLC	CAL	TSC-SLC
	LAB NUMBER	H09050036-001	H09050036-002	84-10997	S5401	85-539
	SAMPLE NUMBER	AEH-0905-100	AEH-0905-101	AEH-8411-27	AEH-8411-27-S	AEH-8501-107
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Field Duplicate		Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	75	75		
Bicarbonate (HCO3) (D)			101	112
Calcium (Ca) (DIS)	21	24		
Calcium (Ca) (DIS)(D)			33	19.8
Chloride (Cl)	4	3		
Chloride (Cl) (D)			4.3	5
Magnesium (Mg) (DIS)	5	5		
Magnesium (Mg) (DIS)(D)			7.9	4.4
Potassium (K) (DIS)	2	2		
Potassium (K) (DIS)(D)			2.9	<0.5
Sodium (Na) (DIS)	8	9		
Sodium (Na) (DIS)(D)			13	11.5
Sulfate (SO4)	37	37		
Sulfate (SO4) (D)			49	48
Total Alkalinity As CaCO3	62	62		
Total Alkalinity As CaCO3 (D)			83	92

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05 J	<0.05 J		
Aluminum (Al) (DIS)(D)				<0.2
Aluminum (Al) (TOT)	0.16	0.14		
Aluminum (Al) (TOT)(D)				0.4
Aluminum (Al) (TRC)	0.17	0.15		
Antimony (Sb) (DIS)	<0.003	<0.003		
Antimony (Sb) (DIS)(D)				<0.01
Antimony (Sb) (TOT)	<0.003	<0.003		
Antimony (Sb) (TOT)(D)				<0.01
Antimony (Sb) (TRC)	<0.003	<0.003		
Arsenic (As) (DIS)	0.0042 J	0.0034 J		
Arsenic (As) (DIS)(D)			0.02	0.009
Arsenic (As) (TOT)	0.0048	0.0044		
Arsenic (As) (TOT)(D)			0.02	0.01
Arsenic (As) (TRC)	0.0043	0.0048		
Barium (Ba) (DIS)	<0.1	<0.1		
Barium (Ba) (DIS)(D)				<0.02
Barium (Ba) (TOT)	<0.1	<0.1		
Barium (Ba) (TOT)(D)				0.03
Barium (Ba) (TRC)	<0.1	<0.1		
Beryllium (Be) (DIS)	<0.001	<0.001		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-8	PPC-8	PPC-9	PPC-9	PPC-9
Water	SAMPLE DATE	5/1/2009	5/1/2009	11/5/1984	11/5/1984	1/10/1985
	SAMPLE TIME	08:20	08:50	00:00	00:00	00:00
	LAB	ELI	ELI	TSC-SLC	CAL	TSC-SLC
	LAB NUMBER	H09050036-001	H09050036-002	84-10997	S5401	85-539
	SAMPLE NUMBER	AEH-0905-100	AEH-0905-101	AEH-8411-27	AEH-8411-27-S	AEH-8501-107
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Field Duplicate		Split	

**Metals (mg/L): ppm unless noted**

Beryllium (Be) (DIS)(D)					<0.0006	
Beryllium (Be) (TOT)	<0.001	<0.001				
Beryllium (Be) (TOT)(D)					<0.0006	
Beryllium (Be) (TRC)	<0.001	<0.001				
Cadmium (Cd) (DIS)	0.002 UJ	0.0019 UJ				
Cadmium (Cd) (DIS)(D)				0.001	<0.004	0.001
Cadmium (Cd) (TOT)	0.0011 UJ	0.001 UJ				
Cadmium (Cd) (TOT)(D)				0.003	<0.004	0.003
Cadmium (Cd) (TRC)	0.0012 J	0.0004 J				
Chromium (Cr) (DIS)	<0.001	<0.001				
Chromium (Cr) (DIS)(D)					<0.002	
Chromium (Cr) (TOT)	<0.005	<0.005				
Chromium (Cr) (TOT)(D)					<0.002	
Chromium (Cr) (TRC)	0.002	<0.001				
Cobalt (Co) (DIS)	0.0009 UJ	0.0007 UJ				
Cobalt (Co) (DIS)(D)					<0.007	
Cobalt (Co) (TOT)	<0.0005	<0.0005				
Cobalt (Co) (TOT)(D)					<0.007	
Cobalt (Co) (TRC)	<0.0005	<0.0005				
Copper (Cu) (DIS)	0.003	0.002				
Copper (Cu) (DIS)(D)				<0.008	0.08	
Copper (Cu) (TOT)	0.003	0.004				
Copper (Cu) (TOT)(D)				<0.008	0.07	
Copper (Cu) (TRC)	0.004	0.007				
Gold (Au) (DIS)	<0.01 UJ	<0.01 UJ				
Gold (Au) (TOT)	<0.01	<0.01				
Gold (Au) (TRC)	<0.01	<0.01				
Iron (Fe) (DIS)	0.06	0.07				
Iron (Fe) (DIS)(D)				0.09	0.09	
Iron (Fe) (TOT)	0.33	0.32				
Iron (Fe) (TOT)(D)				0.03	0.5	
Iron (Fe) (TRC)	0.28	0.28				
Lead (Pb) (DIS)	0.0006	0.0005				
Lead (Pb) (DIS)(D)				<0.005	<0.003	<0.005
Lead (Pb) (TOT)	0.0038	0.0035				
Lead (Pb) (TOT)(D)				0.009	0.01	0.02
Lead (Pb) (TRC)	0.0035	0.0032				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-8	PPC-8	PPC-9	PPC-9	PPC-9
Water	SAMPLE DATE	5/1/2009	5/1/2009	11/5/1984	11/5/1984	1/10/1985
	SAMPLE TIME	08:20	08:50	00:00	00:00	00:00
	LAB	ELI	ELI	TSC-SLC	CAL	TSC-SLC
	LAB NUMBER	H09050036-001	H09050036-002	84-10997	S5401	85-539
	SAMPLE NUMBER	AEH-0905-100	AEH-0905-101	AEH-8411-27	AEH-8411-27-S	AEH-8501-107
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Field Duplicate		Split	

**Metals (mg/L): ppm unless noted**

Manganese (Mn) (DIS)	0.04	0.04		
Manganese (Mn) (DIS)(D)			0.06	0.04
Manganese (Mn) (TOT)	0.05	0.05		
Manganese (Mn) (TOT)(D)			0.08	0.1
Manganese (Mn) (TRC)	0.05	0.05		
Mercury (Hg) (DIS)	<0.00001	<0.00001		
Mercury (Hg) (DIS)(D)				<0.0002
Mercury (Hg) (TOT)	<0.00001	<0.00001		
Mercury (Hg) (TOT)(D)				<0.0002
Nickel (Ni) (DIS)	<0.01	<0.01		
Nickel (Ni) (DIS)(D)				<0.03
Nickel (Ni) (TOT)	<0.01	<0.01		
Nickel (Ni) (TOT)(D)				<0.03
Nickel (Ni) (TRC)	<0.01	<0.01		
Selenium (Se) (DIS)	<0.001	0.002		
Selenium (Se) (DIS)(D)				<0.002
Selenium (Se) (TOT)	0.001	<0.001		
Selenium (Se) (TOT)(D)				<0.002
Selenium (Se) (TRC)	<0.001	<0.001		
Silver (Ag) (DIS)	<0.0005 J	<0.0005 J		
Silver (Ag) (DIS)(D)				<0.003
Silver (Ag) (TOT)	<0.0005	<0.0005		
Silver (Ag) (TOT)(D)				0.02
Silver (Ag) (TRC)	<0.0005	<0.0005		
Tellurium (Te) (DIS)	<0.1	<0.1		
Tellurium (Te) (TOT)	<0.1	<0.1		
Tellurium (Te) (TRC)	<0.1	<0.1		
Thallium (Tl) (DIS)	<0.0002	<0.0002		
Thallium (Tl) (DIS)(D)				<0.002
Thallium (Tl) (TOT)	0.0004 J	<0.0002		
Thallium (Tl) (TOT)(D)				<0.002
Thallium (Tl) (TRC)	<0.0002	<0.0002		
Tin (Sn) (DIS)(D)				<0.04
Tin (Sn) (TOT)(D)				<0.04
Vanadium (V) (DIS)	<0.01	<0.01		
Vanadium (V) (DIS)(D)				<0.004
Vanadium (V) (TOT)	<0.01	<0.01		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-8	PPC-8	PPC-9	PPC-9	PPC-9
Water	SAMPLE DATE	5/1/2009	5/1/2009	11/5/1984	11/5/1984	1/10/1985
	SAMPLE TIME	08:20	08:50	00:00	00:00	00:00
	LAB	ELI	ELI	TSC-SLC	CAL	TSC-SLC
	LAB NUMBER	H09050036-001	H09050036-002	84-10997	S5401	85-539
	SAMPLE NUMBER	AEH-0905-100	AEH-0905-101	AEH-8411-27	AEH-8411-27-S	AEH-8501-107
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Field Duplicate		Split	

**Metals (mg/L): ppm unless noted**

Vanadium (V) (TOT)(D)					<0.004	
Vanadium (V) (TRC)	<0.01	<0.01				
Zinc (Zn) (DIS)	0.05	0.06				
Zinc (Zn) (DIS)(D)			0.05	0.02		0.07
Zinc (Zn) (TOT)	0.06	0.06				
Zinc (Zn) (TOT)(D)			0.07	1		0.1
Zinc (Zn) (TRC)	0.07	0.07				

**Physical/Fld-Lab: ppm unless noted**

pH	7.7	7.8				
pH (D)			7.9	7.9		7.8
Flow (cfs)	78.93					
Flow (D)			31.7			
SC (umhos/cm at 25 C) (Fld) (D)			282.3			303
SC (umhos/cm at 25 C)	223	220				
SC (umhos/cm at 25 C) (D)			159	180		338
Total Suspended Solids	<10	<10				
Total Suspended Solids (D)				18		2.1
TDS (Measured at 180 C)	141	142				
TDS (Measured at 180 C) (D)			234	270		206

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-9	PPC-9	PPC-9	PPC-9	PPC-9	PPC-9
Water	SAMPLE DATE	4/2/1985	5/7/1985	6/4/1985	6/4/1985	7/2/1985	8/6/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	JTC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	85-2353	85-3502	73-1979	85-4099	85-4756	85-6043
	SAMPLE NUMBER	AEH-8504-336	AEH-8505-436	AEH-8506-537	AEH-8506-537	AEH-8507-615	AEH-8508-745
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Split			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)				84			
Calcium (Ca) (DIS)(D)				26.8			
Chloride (Cl) (D)				2.5			
Magnesium (Mg) (DIS)(D)				5.6			
Potassium (K) (DIS)(D)				1.2			
Sodium (Na) (DIS)(D)				11.5			
Sulfate (SO4) (D)				31.6			
Total Alkalinity As CaCO3 (D)				68.5			

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)				<0.1			
Aluminum (Al) (TOT)(D)				<0.1			
Antimony (Sb) (DIS)(D)				<0.05			
Antimony (Sb) (TOT)(D)				<0.05			
Arsenic (As) (DIS)(D)	0.02	0.01		0.02	0.02	0.007	0.08
Arsenic (As) (TOT)(D)	0.02	0.02		<0.007	0.02	0.03	0.08
Barium (Ba) (DIS)(D)				<0.01			
Barium (Ba) (TOT)(D)				0.02			
Beryllium (Be) (DIS)(D)				<0.005			
Beryllium (Be) (TOT)(D)				<0.005			
Cadmium (Cd) (DIS)(D)	0.001	<0.001		<0.004	<0.001	<0.001	0.001
Cadmium (Cd) (TOT)(D)	0.003	0.001		0.01	<0.001	0.004	0.003
Chromium (Cr) (DIS)(D)				<0.008			
Chromium (Cr) (TOT)(D)				<0.008			
Cobalt (Co) (DIS)(D)				<0.02			
Cobalt (Co) (TOT)(D)				<0.02			
Copper (Cu) (DIS)(D)				<0.02			
Copper (Cu) (TOT)(D)				<0.02			
Iron (Fe) (DIS)(D)				<0.04			
Iron (Fe) (TOT)(D)				0.2			
Lead (Pb) (DIS)(D)	<0.005	<0.005		<0.002	0.01	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.03	0.03		0.008	0.02	0.05	0.02
Manganese (Mn) (DIS)(D)				0.04			
Manganese (Mn) (TOT)(D)				0.05			
Mercury (Hg) (DIS)(D)				<0.0001			
Mercury (Hg) (TOT)(D)				<0.0001			
Nickel (Ni) (DIS)(D)				<0.02			
Nickel (Ni) (TOT)(D)				0.07			
Selenium (Se) (DIS)(D)				<0.004			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-9	PPC-9	PPC-9	PPC-9	PPC-9	PPC-9
Water	SAMPLE DATE	4/2/1985	5/7/1985	6/4/1985	6/4/1985	7/2/1985	8/6/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	JTC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	85-2353	85-3502	73-1979	85-4099	85-4756	85-6043
	SAMPLE NUMBER	AEH-8504-336	AEH-8505-436	AEH-8506-537	AEH-8506-537	AEH-8507-615	AEH-8508-745
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Split			

### Metals (mg/L): ppm unless noted

Selenium (Se) (TOT)(D)				<0.004			
Silver (Ag) (DIS)(D)				<0.01			
Silver (Ag) (TOT)(D)				0.01			
Thallium (Tl) (DIS)(D)				<0.003			
Thallium (Tl) (TOT)(D)				<0.003			
Tin (Sn) (DIS)(D)				<0.03			
Tin (Sn) (TOT)(D)				<0.03			
Vanadium (V) (DIS)(D)				<0.03			
Vanadium (V) (TOT)(D)				<0.03			
Zinc (Zn) (DIS)(D)	0.04	0.04	0.02	0.02	0.02	0.01	
Zinc (Zn) (TOT)(D)	0.07	0.09	0.05	0.05	0.06	0.03	

### Physical/Fld-Lab: ppm unless noted

pH (D)	7.5	7.8	8.05	7.7	8.1	8.4
Flow (D)	37.9	40.1		3	1.8	2.4
SC (umhos/cm at 25 C) (Fld) (D)	284.5	215		221.2	301.2	317.1
SC (umhos/cm at 25 C) (D)	299	222	233	241	307	321
Total Suspended Solids (D)	9.4	7.8	4	1.2	1.5	<1
TDS (Measured at 180 C) (D)	189	157	146	154	206	209

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-9	PPC-9	PPC-9	PPC-9	PPC-9	PPC-9
Water	SAMPLE DATE	9/12/1985	10/16/1986	10/16/1986	10/16/1986	10/16/1986	5/7/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	RMAL	TSC-SLC	RMAL	TSC-SLC	CHMTC
	LAB NUMBER	85-7017	8610-104	86-6953	8610-130	86-6951	8705-119
	SAMPLE NUMBER	AEH-8509-814	AEH-8610-104	AEH-8610-104	AEH-8610-130	AEH-8610-130	AEH-8705-119
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate	Field Duplicate	Split		Split
<b>Common Ions (mg/L): ppm unless noted</b>							
	Bicarbonate (HCO3) (D)				114	98	
	Calcium (Ca) (DIS)(D)		30.9		30.3		21.7
	Carbonate As CO3 (D)				<5		
	Chloride (Cl) (D)				4		10 M
	Magnesium (Mg) (DIS)(D)		7.3		7.1		4.9
	Potassium (K) (DIS)(D)		2.6		2.6		1.8
	Sodium (Na) (DIS)(D)		12.8		12.3		10.4
	Sulfate (SO4) (D)				57	48	23.4
	Total Alkalinity As CaCO3 (D)						60
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)(D)	0.02	0.01	0.009	<0.01	<0.006	<0.009
	Arsenic (As) (TOT)(D)	0.02	0.01	0.009	0.01	0.01	<0.009
	Cadmium (Cd) (DIS)(D)	<0.001	<0.005	0.001	<0.005	<0.001	<0.004
	Cadmium (Cd) (TOT)(D)	<0.001	<0.005	<0.001	<0.005	0.001	0.007
	Copper (Cu) (DIS)(D)		<0.004		<0.004		0.03
	Copper (Cu) (TOT)(D)		0.005		0.005		0.04
	Iron (Fe) (DIS)(D)		0.05	0.09	0.05	0.09	<0.1
	Iron (Fe) (TOT)(D)		0.2	0.3	0.2	0.3	0.4
	Lead (Pb) (DIS)(D)	<0.005	<0.005	<0.005	<0.05	<0.005	0.003
	Lead (Pb) (TOT)(D)	0.01	0.02	0.01	0.01	0.01	0.02
	Manganese (Mn) (DIS)(D)		0.07		0.07		0.06
	Manganese (Mn) (TOT)(D)		0.1		0.08		0.1
	Zinc (Zn) (DIS)(D)	0.02	0.04	0.04	0.04	0.04	0.02
	Zinc (Zn) (TOT)(D)	0.05	0.07	0.06	0.06	0.06	0.08
<b>Physical/Fld-Lab: ppm unless noted</b>							
	pH (D)	7.4				7.7	
	Flow (D)	10.3				39.2	
	pH (Fld) (D)			8.4	8.4	8.4	7.8
	SC (umhos/cm at 25 C) (Fld) (D)	297.3		261	263	263	186.9
	SC (umhos/cm at 25 C) (D)	321				278	
	Total Suspended Solids (D)	2.9					
	TDS (Measured at 180 C) (D)	206			210	218	234
	Water Temperature (C) (Fld) (D)			5.5	5.5	5.5	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-9	PPC-9	PPC-9	PPC-9	PPC-WB
Water	SAMPLE DATE	5/7/1987	5/7/1987	5/7/1987	8/18/1987	5/15/2009
	SAMPLE TIME	00:00	00:00	00:00	00:00	09:45
	LAB	TSC-SLC	CHMTC	TSC-SLC	TSC-SLC	ELI
	LAB NUMBER	87-3049	8705-125	87-3045	87-6866	H09050248-001
	SAMPLE NUMBER	AEH-8705-119	AEH-8705-125	AEH-8705-125	AEH-8708-68	AEH-0905-223
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Field Duplicate	Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	76 M			94
Calcium (Ca) (DIS)(D)		21.6		
Magnesium (Mg) (DIS)(D)		4.9		
Potassium (K) (DIS)(D)		1.7		
Sodium (Na) (DIS)(D)		10.3		
Sulfate (SO4) (D)	32			36

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)					<0.005
Arsenic (As) (DIS)(D)	0.01	0.01	0.01	0.02	
Arsenic (As) (TOT)					0.007
Arsenic (As) (TOT)(D)	0.01	0.02	0.01	0.02	
Arsenic (As) (TRC)					0.007
Cadmium (Cd) (DIS)(D)	0.001	0.008 M	0.001	0.001	
Cadmium (Cd) (TOT)(D)	0.001	<0.004	0.001	0.001	
Copper (Cu) (DIS)(D)		0.03			
Copper (Cu) (TOT)(D)		0.03			
Iron (Fe) (DIS)(D)	0.05	<0.1	0.04	0.07	
Iron (Fe) (TOT)(D)	0.08 M	0.4	0.4	0.3	
Lead (Pb) (DIS)(D)	<0.005 M	<0.003	<0.005 M	0.009	
Lead (Pb) (TOT)(D)	<0.005 M	0.03	0.03 M	0.03	
Manganese (Mn) (DIS)(D)		0.07			
Manganese (Mn) (TOT)(D)		0.1			
Selenium (Se) (DIS)					0.001
Selenium (Se) (TOT)					0.003
Selenium (Se) (TRC)					0.002
Zinc (Zn) (DIS)(D)	0.02	0.02	0.03	0.03	
Zinc (Zn) (TOT)(D)	0.02 M	0.07	0.05	0.05	

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)					12.65
pH (D)	7.9			7.8	
Flow (D)	19.9			15.4	
pH (Fld)					7.57
pH (Fld) (D)	7.8	8	8	7.4	
SC (umhos/cm at 25 C) (Fld)					170
SC (umhos/cm at 25 C) (Fld) (D)	186.9	188.6	188.6	231	
SC (umhos/cm at 25 C) (D)	197			246	
Total Suspended Solids (D)				5.5	
TDS (Measured at 180 C) (D)	170			159 M	
Water Temperature (C) (Fld)					7.03

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b> <b>Water</b>	<b>STATION</b> SAMPLE DATE SAMPLE TIME LAB LAB NUMBER SAMPLE NUMBER TYPE GROUP DESCRIPTION REMARKS	<b>PPC-9</b> 8/18/1987 00:00 TSC-SLC 87-6866 AEH-8708-68 Surface Water RI
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**Physical/Fid-Lab: ppm unless noted**

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Water Temperature (C) (Fid) (D)

12.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-W/B	SEEP-1	SEEP-1	SEEP-1	SEEP-1
Water	SAMPLE DATE	5/15/2009	5/7/1985	6/4/1985	6/4/1985	7/1/1985
	SAMPLE TIME	14:21	00:00	00:00	00:00	00:00
	LAB	ELI	TSC-SLC	JTC	TSC-SLC	JTC
	LAB NUMBER	H09050248-006	85-3506	73-1986	85-4101	73-2104
	SAMPLE NUMBER	AEH-0905-235	AEH-8505-454	AEH-8506-555	AEH-8506-555	AEH-8507-633
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Split		Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	171	161	168
Calcium (Ca) (DIS)(D)	48	43	27
Chloride (Cl) (D)	23	17.8	24.7
Magnesium (Mg) (DIS)(D)	6.8	5.8	6.7
Potassium (K) (DIS)(D)	53	48.6	60.9
Sodium (Na) (DIS)(D)	94	70.9	93.4
Sulfate (SO4) (D)	202	151.2	86.9
Total Alkalinity As CaCO3 (D)	140	132	138

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)		<0.1	0.4
Antimony (Sb) (DIS)(D)		0.2	0.2
Arsenic (As) (DIS)	0.005		
Arsenic (As) (DIS)(D)		5.3	4.8
Arsenic (As) (TOT)	0.007		4.6
Arsenic (As) (TRC)	0.006		0.06
Barium (Ba) (DIS)(D)		0.03	<0.05
Beryllium (Be) (DIS)(D)		<0.005	<0.004
Cadmium (Cd) (DIS)(D)	0.003	0.005	<0.001
Chromium (Cr) (DIS)(D)		<0.008	<0.008
Cobalt (Co) (DIS)(D)		<0.02	<0.008
Copper (Cu) (DIS)(D)	0.04	<0.02	<0.02
Iron (Fe) (DIS)(D)	0.03	<0.04	<0.04
Lead (Pb) (DIS)(D)	<0.005	<0.002	0.005
Manganese (Mn) (DIS)(D)	0.02	0.01	0.05
Mercury (Hg) (DIS)(D)		<0.0001	<0.0001
Nickel (Ni) (DIS)(D)		<0.02	<0.02
Selenium (Se) (DIS)	0.004		
Selenium (Se) (DIS)(D)		0.01	0.006
Selenium (Se) (TOT)	0.004		
Selenium (Se) (TRC)	0.004		
Silver (Ag) (DIS)(D)		<0.01	<0.006
Thallium (Tl) (DIS)(D)		<0.003	<0.002
Tin (Sn) (DIS)(D)		<0.03	<0.03
Vanadium (V) (DIS)(D)		<0.03	<0.03
Zinc (Zn) (DIS)(D)	0.06	0.04	0.04

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	12.3			
pH (D)		8	8.6	8
pH (Fld)	7.71			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PPC-W/B	SEEP-1	SEEP-1	SEEP-1	SEEP-1
Water	SAMPLE DATE	5/15/2009	5/7/1985	6/4/1985	6/4/1985	7/1/1985
	SAMPLE TIME	14:21	00:00	00:00	00:00	00:00
	LAB	Hydrometrics	TSC-SLC	JTC	TSC-SLC	JTC
	LAB NUMBER	H09050248-006	85-3506	73-1986	85-4101	73-2104
	SAMPLE NUMBER	AEH-0905-235	AEH-8505-454	AEH-8506-555	AEH-8506-555	AEH-8507-633
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Split		Split

**Physical/Fld-Lab: ppm unless noted**

SC (umhos/cm at 25 C) (Fld)	164				
SC (umhos/cm at 25 C) (Fld) (D)		807.3		673	
SC (umhos/cm at 25 C) (D)		835	715	742	730
Total Suspended Solids (D)		4.5	11		67
TDS (Measured at 180 C) (D)		575	419	480	541
Water Temperature (C) (Fld)	8.8				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SEEP-1	SEEP-1	SEEP-1	SEEP-1	WD-1
Water	SAMPLE DATE	7/1/1985	8/6/1985	9/12/1985	5/8/1987	5/8/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	JTC
	LAB NUMBER	85-4758	85-6044	85-7014	87-3124	8505-453
	SAMPLE NUMBER	AEH-8507-633	AEH-8508-760	AEH-8509-811	AEH-8705-127	AEH-8505-453
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)					196 M	76
Calcium (Ca) (DIS)(D)						22.6
Chloride (Cl) (D)						2
Magnesium (Mg) (DIS)(D)						4.9
Potassium (K) (DIS)(D)						3.4
Sodium (Na) (DIS)(D)						11.6
Sulfate (SO4) (D)					340	34.3
Total Alkalinity As CaCO3 (D)						62.5

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)						<0.1
Aluminum (Al) (TOT)(D)						0.2
Antimony (Sb) (DIS)(D)						<0.05
Antimony (Sb) (TOT)(D)						<0.05
Arsenic (As) (DIS)(D)	6.8	13.8	4.4	3		<0.007
Arsenic (As) (TOT)(D)				3.3		<0.007
Barium (Ba) (DIS)(D)						0.03
Barium (Ba) (TOT)(D)						0.02
Beryllium (Be) (DIS)(D)						<0.005
Beryllium (Be) (TOT)(D)						<0.005
Cadmium (Cd) (DIS)(D)	0.005	0.001	0.005	<0.001		<0.004
Cadmium (Cd) (TOT)(D)				0.009		0.004
Chromium (Cr) (DIS)(D)						<0.008
Chromium (Cr) (TOT)(D)						<0.008
Cobalt (Co) (DIS)(D)						<0.02
Cobalt (Co) (TOT)(D)						<0.02
Copper (Cu) (DIS)(D)						<0.02
Copper (Cu) (TOT)(D)						<0.02
Iron (Fe) (DIS)(D)				0.02		<0.04
Iron (Fe) (TOT)(D)				0.1		0.4
Lead (Pb) (DIS)(D)	<0.005	0.009	<0.005	0.009 M		<0.002
Lead (Pb) (TOT)(D)				0.04 M		0.02
Manganese (Mn) (DIS)(D)						0.1
Manganese (Mn) (TOT)(D)						0.1
Mercury (Hg) (DIS)(D)						0.0003
Mercury (Hg) (TOT)(D)						0.0001
Nickel (Ni) (DIS)(D)						<0.02
Nickel (Ni) (TOT)(D)						<0.02
Selenium (Se) (DIS)(D)						<0.004

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SEEP-1	SEEP-1	SEEP-1	SEEP-1	WD-1
Water	SAMPLE DATE	7/1/1985	8/6/1985	9/12/1985	5/8/1987	5/8/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	JTC
	LAB NUMBER	85-4758	85-6044	85-7014	87-3124	8505-453
	SAMPLE NUMBER	AEH-8507-633	AEH-8508-760	AEH-8509-811	AEH-8705-127	AEH-8505-453
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					Split

**Metals (mg/L): ppm unless noted**

Selenium (Se) (TOT)(D)						<0.004
Silver (Ag) (DIS)(D)						<0.01
Silver (Ag) (TOT)(D)						<0.01
Thallium (Tl) (DIS)(D)						<0.1
Thallium (Tl) (TOT)(D)						<0.1
Tin (Sn) (DIS)(D)						<0.03
Tin (Sn) (TOT)(D)						<0.03
Vanadium (V) (DIS)(D)						<0.03
Vanadium (V) (TOT)(D)						<0.03
Zinc (Zn) (DIS)(D)	<0.008	0.06	0.03	0.05		0.03
Zinc (Zn) (TOT)(D)				0.2		0.06

**Physical/Fld-Lab: ppm unless noted**

pH (D)	7.4	7.9	6.8	9.05		7.5
pH (Fld) (D)				7.7		
SC (umhos/cm at 25 C) (Fld) (D)	762	1763	1022	1078		
SC (umhos/cm at 25 C) (D)	702	1900	1053	1020		102
Total Suspended Solids (D)	7.5					4
TDS (Measured at 180 C) (D)	557	1358	669	766		30
Water Temperature (C) (Fld) (D)				21.3		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	WD-1	WD-1	WD-1	WD-2	WD-2
Water	SAMPLE DATE	5/8/1985	6/4/2001	6/20/2002	4/18/1985	4/19/1985
	SAMPLE TIME	00:00	00:00	15:20	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	JTC
	LAB NUMBER	85-3505	L010827013	L020481001	85-2944	8504-338
	SAMPLE NUMBER	AEH-8505-453	EHC-0106-159	EHC-0205-237	AEH-8504-341	AEH-8504-338
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	73	51	50	93
Calcium (Ca) (DIS)(D)	25	18	16	21.3
Carbonate As CO3 (D)		4.8	<1	
Chloride (Cl) (D)	3.3	2.4	<1	2.5
Magnesium (Mg) (DIS)(D)	5.7	4.1	<5	4.8
Potassium (K) (DIS)(D)	2.3	<5	<5	2
Sodium (Na) (DIS)(D)	13.7	7.2	5.6	8.6
Sulfate (SO4) (D)	41.1	30	20	22.3
Total Alkalinity As CaCO3 (D)	60.2	50	41	76

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)				<0.1
Aluminum (Al) (TOT)(D)				0.4
Antimony (Sb) (DIS)(D)				<0.05
Antimony (Sb) (TOT)(D)				<0.05
Arsenic (As) (DIS)(D)	0.01	0.005	0.01	0.006
Arsenic (As) (TOT)(D)	0.02	<0.005	0.01	0.01
Arsenic (As) (TRC)(D)		<0.005		
Barium (Ba) (DIS)(D)				0.02
Barium (Ba) (TOT)(D)				0.04
Beryllium (Be) (DIS)(D)				<0.005
Beryllium (Be) (TOT)(D)				0.005
Cadmium (Cd) (DIS)(D)	<0.001	<0.001	0.002	0.004
Cadmium (Cd) (TOT)(D)	<0.001	<0.001	0.003	0.005
Cadmium (Cd) (TRC)(D)		<0.001		<0.004
Chromium (Cr) (DIS)(D)				<0.008
Chromium (Cr) (TOT)(D)				0.02
Cobalt (Co) (DIS)(D)				<0.02
Cobalt (Co) (TOT)(D)				<0.02
Copper (Cu) (DIS)(D)	0.009	<0.004	0.007	0.008
Copper (Cu) (TOT)(D)	0.01	<0.004	0.01	0.02
Copper (Cu) (TRC)(D)		<0.004		0.05
Iron (Fe) (DIS)(D)	0.2	0.08	0.08	0.1
Iron (Fe) (TOT)(D)	0.4	0.3	0.2	0.8
Iron (Fe) (TRC)(D)		0.3		<0.04
Lead (Pb) (DIS)(D)	0.02	<0.005	0.02	0.009
Lead (Pb) (TOT)(D)	0.02	0.01	0.06	0.06
Lead (Pb) (TRC)(D)		0.01		0.1
Manganese (Mn) (DIS)(D)	0.1	0.05	0.02	0.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	WD-1	WD-1	WD-1	WD-2	WD-2
Water	SAMPLE DATE	5/8/1985	6/4/2001	6/20/2002	4/18/1985	4/19/1985
	SAMPLE TIME	00:00	00:00	15:20	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	JTC
	LAB NUMBER	85-3505	L010827013	L020481001	85-2944	8504-338
	SAMPLE NUMBER	AEH-8505-453	EHC-0106-159	EHC-0205-237	AEH-8504-341	AEH-8504-338
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					Split

**Metals (mg/L): ppm unless noted**

Manganese (Mn) (TOT)(D)	0.1	0.06	0.04	0.2	0.3
Manganese (Mn) (TRC)(D)		0.06			
Mercury (Hg) (DIS)(D)					<0.0003
Mercury (Hg) (TOT)(D)					<0.0005
Nickel (Ni) (DIS)(D)					<0.02
Nickel (Ni) (TOT)(D)					<0.02
Selenium (Se) (DIS)(D)					<0.004
Selenium (Se) (TOT)(D)					<0.004
Silver (Ag) (DIS)(D)					<0.01
Silver (Ag) (TOT)(D)					<0.01
Thallium (Tl) (DIS)(D)					<0.03
Thallium (Tl) (TOT)(D)					<0.03
Tin (Sn) (DIS)(D)					0.05
Tin (Sn) (TOT)(D)					0.06
Vanadium (V) (DIS)(D)					<0.03
Vanadium (V) (TOT)(D)					<0.03
Zinc (Zn) (DIS)(D)	0.04	<0.02	<0.02	0.07	0.1
Zinc (Zn) (TOT)(D)	0.04	0.03	0.04	0.1	0.2
Zinc (Zn) (TRC)(D)		0.02			

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)			6.6		
pH (D)	7.4	8.9	6.4		7.06
pH (Fld) (D)		8.1	8.5		
SC (umhos/cm at 25 C) (Fld) (D)	216.9	157	221		
SC (umhos/cm at 25 C) (D)	234	171	136		
Total Suspended Solids (D)	5.8	3	2.6		17.9
TDS (Measured at 180 C) (D)	157	132	116		<1
Water Temperature (C) (Fld) (D)		12.9	20.9		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	WD-2	WD-2	WD-2	WD-2	WD-2	WD-2
Water	SAMPLE DATE	4/19/1985	4/19/1985	4/19/1985	4/26/1985	4/26/1985	5/3/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	JTC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	85-2941	8504-339	85-2942	85-3152	85-3153	85-3350
	SAMPLE NUMBER	AEH-8504-338	AEH-8504-339	AEH-8504-339	AEH-8504-342	AEH-8504-343	AEH-8505-100
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate	Field Duplicate		Field Duplicate	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	65					
Calcium (Ca) (DIS)(D)	24	21.9				
Chloride (Cl) (D)	<2					
Magnesium (Mg) (DIS)(D)	5.6	4.9				
Potassium (K) (DIS)(D)	2.2	2				
Sodium (Na) (DIS)(D)	11.3	8.9				
Sulfate (SO4) (D)	46.9					
Total Alkalinity As CaCO3 (D)	53					

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)		<0.1				
Aluminum (Al) (TOT)(D)		0.2				
Antimony (Sb) (DIS)(D)		<0.05				
Antimony (Sb) (TOT)(D)		0.05				
Arsenic (As) (DIS)(D)	0.007	<0.007	0.005	0.005	0.005	0.005
Arsenic (As) (TOT)(D)	0.02	0.02	0.01	0.007	0.01	0.01
Barium (Ba) (DIS)(D)		0.02				
Barium (Ba) (TOT)(D)		0.03				
Beryllium (Be) (DIS)(D)		<0.005				
Beryllium (Be) (TOT)(D)		<0.005				
Cadmium (Cd) (DIS)(D)	0.004	0.005	0.004	<0.001	<0.001	0.003
Cadmium (Cd) (TOT)(D)	0.006	0.008	0.006	0.001	<0.001	0.005
Chromium (Cr) (DIS)(D)		<0.008				
Chromium (Cr) (TOT)(D)		<0.008				
Cobalt (Co) (DIS)(D)		<0.02				
Cobalt (Co) (TOT)(D)		<0.02				
Copper (Cu) (DIS)(D)	0.008	<0.02	<0.008			
Copper (Cu) (TOT)(D)	0.03	0.06	0.02			
Iron (Fe) (DIS)(D)	0.1	<0.04	0.08			
Iron (Fe) (TOT)(D)	1.2	1.05	0.8			
Lead (Pb) (DIS)(D)	0.03	<0.002	0.01	0.006	0.005	0.01
Lead (Pb) (TOT)(D)	0.1	0.06	0.1	0.02	0.03	0.1
Manganese (Mn) (DIS)(D)	0.2	0.2	0.2			
Manganese (Mn) (TOT)(D)	0.2	0.3	0.2			
Mercury (Hg) (DIS)(D)		<0.0001				
Mercury (Hg) (TOT)(D)		<0.0004				
Nickel (Ni) (DIS)(D)		<0.02				
Nickel (Ni) (TOT)(D)		<0.02				
Selenium (Se) (DIS)(D)		<0.004				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	WD-2	WD-2	WD-2	WD-2	WD-2	WD-2
Water	SAMPLE DATE	4/19/1985	4/19/1985	4/19/1985	4/26/1985	4/26/1985	5/3/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	JTC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	85-2941	8504-339	85-2942	85-3152	85-3153	85-3350
	SAMPLE NUMBER	AEH-8504-338	AEH-8504-339	AEH-8504-339	AEH-8504-342	AEH-8504-343	AEH-8505-100
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate	Field Duplicate		Field Duplicate	

**Metals (mg/L): ppm unless noted**

Selenium (Se) (TOT)(D)			<0.004				
Silver (Ag) (DIS)(D)			<0.01				
Silver (Ag) (TOT)(D)			0.04				
Thallium (Tl) (DIS)(D)			<0.03				
Thallium (Tl) (TOT)(D)			<0.03				
Tin (Sn) (DIS)(D)			0.08				
Tin (Sn) (TOT)(D)			<0.03				
Vanadium (V) (DIS)(D)			<0.03				
Vanadium (V) (TOT)(D)			<0.03				
Zinc (Zn) (DIS)(D)	0.07	0.09	0.07	0.05	0.05	0.03	
Zinc (Zn) (TOT)(D)	0.2	0.2	0.1	0.06	0.08	0.1	

**Physical/Fld-Lab: ppm unless noted**

pH (D)	8.7						
SC (umhos/cm at 25 C) (Fld) (D)	213.9			261.6	261.9	195	
SC (umhos/cm at 25 C) (D)	218						
Total Suspended Solids (D)	19.5						
TDS (Measured at 180 C) (D)	144						

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	WD-2	WD-2	WD-2	WD-2	WD-2	WD-2
Water	SAMPLE DATE	5/3/1985	5/8/1985	5/8/1985	5/8/1985	5/17/1985	5/17/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	JTC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	85-3351	85-3495	8505-437	85-3503	85-3685	85-3684
	SAMPLE NUMBER	AEH-8505-101	AEH-8505-406	AEH-8505-437	AEH-8505-437	AEH-8505-422	AEH-8505-440
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate	Field Duplicate	Split			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)				73		71	
Calcium (Ca) (DIS)(D)				22.2		24	
Chloride (Cl) (D)				2.5		4	
Magnesium (Mg) (DIS)(D)				4.9		5.6	
Potassium (K) (DIS)(D)				1.8		2.2	
Sodium (Na) (DIS)(D)				8.8		12	
Sulfate (SO4) (D)				33.8		32.4	
Total Alkalinity As CaCO3 (D)				60		58.3	

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)				<0.1			
Aluminum (Al) (TOT)(D)				0.2			
Antimony (Sb) (DIS)(D)				<0.05			
Antimony (Sb) (TOT)(D)				<0.05			
Arsenic (As) (DIS)(D)	0.005	0.01		<0.007	0.008	0.006	0.007
Arsenic (As) (TOT)(D)	0.01	0.02		0.007	0.01	0.008	0.009
Barium (Ba) (DIS)(D)				0.02			
Barium (Ba) (TOT)(D)				0.03			
Beryllium (Be) (DIS)(D)				<0.005			
Beryllium (Be) (TOT)(D)				<0.005			
Cadmium (Cd) (DIS)(D)	0.001	0.003		0.006	<0.001	<0.001	<0.001
Cadmium (Cd) (TOT)(D)	0.005	0.005		<0.004	0.003	0.001	0.003
Chromium (Cr) (DIS)(D)				<0.008			
Chromium (Cr) (TOT)(D)				<0.008			
Cobalt (Co) (DIS)(D)				<0.02			
Cobalt (Co) (TOT)(D)				<0.02			
Copper (Cu) (DIS)(D)		<0.008		<0.02	<0.008		
Copper (Cu) (TOT)(D)		0.01		<0.02	0.01		
Iron (Fe) (DIS)(D)		0.09		0.04	0.1		
Iron (Fe) (TOT)(D)		0.7		0.7	0.7		
Lead (Pb) (DIS)(D)	0.008	0.005		<0.03	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.1	0.06		0.03	0.05	0.02	0.02
Manganese (Mn) (DIS)(D)		0.08		0.1	0.1		
Manganese (Mn) (TOT)(D)		0.1		0.2	0.1		
Mercury (Hg) (DIS)(D)				0.0002			
Mercury (Hg) (TOT)(D)				0.0003			
Nickel (Ni) (DIS)(D)				<0.02			
Nickel (Ni) (TOT)(D)				<0.02			
Selenium (Se) (DIS)(D)				<0.004			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	WD-2	WD-2	WD-2	WD-2	WD-2	WD-2
Water	SAMPLE DATE	5/3/1985	5/8/1985	5/8/1985	5/8/1985	5/17/1985	5/17/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	JTC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	85-3351	85-3495	8505-437	85-3503	85-3685	85-3684
	SAMPLE NUMBER	AEH-8505-101	AEH-8505-406	AEH-8505-437	AEH-8505-437	AEH-8505-422	AEH-8505-440
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate	Field Duplicate	Split			

**Metals (mg/L): ppm unless noted**

Selenium (Se) (TOT)(D)				<0.004			
Silver (Ag) (DIS)(D)				<0.01			
Silver (Ag) (TOT)(D)				<0.01			
Thallium (Tl) (DIS)(D)				<0.1			
Thallium (Tl) (TOT)(D)				<0.003			
Tin (Sn) (DIS)(D)				<0.03			
Tin (Sn) (TOT)(D)				<0.03			
Vanadium (V) (DIS)(D)				<0.03			
Vanadium (V) (TOT)(D)				<0.03			
Zinc (Zn) (DIS)(D)	0.03	0.02	0.04	0.03	0.02	0.03	
Zinc (Zn) (TOT)(D)	0.1	0.08	0.09	0.07	0.05	0.05	

**Physical/Fld-Lab: ppm unless noted**

pH (D)			7.7	7.8		7.9
SC (umhos/cm at 25 C) (Fld) (D)	195	206.2		209.5		234.7
SC (umhos/cm at 25 C) (D)			100	218		247
Total Suspended Solids (D)			14	6.9		7.8
TDS (Measured at 180 C) (D)			20	155		174

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	WD-2	WD-2	WD-2	WD-2	WD-2	WD-2
Water	SAMPLE DATE	5/24/1985	5/24/1985	5/31/1985	5/31/1985	6/5/1985	6/14/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	85-3779	85-3781	85-3946	85-3948	85-4100	85-4494
	SAMPLE NUMBER	AEH-8505-423	AEH-8505-446	AEH-8505-424	AEH-8505-449	AEH-8506-538	AEH-8506-542
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate		Field Duplicate			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	84
Calcium (Ca) (DIS)(D)	25
Chloride (Cl) (D)	<2
Magnesium (Mg) (DIS)(D)	6.3
Potassium (K) (DIS)(D)	2.6
Sodium (Na) (DIS)(D)	14
Sulfate (SO4) (D)	35.9
Total Alkalinity As CaCO3 (D)	68.9

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.01	0.01	0.008	0.008	0.01	<0.004
Arsenic (As) (TOT)(D)	0.02	0.02	0.01	0.009	0.02	0.02
Cadmium (Cd) (DIS)(D)	0.001	0.001	<0.001	<0.001	0.001	<0.001
Cadmium (Cd) (TOT)(D)	0.003	0.004	0.001	<0.001	0.004	0.005
Copper (Cu) (DIS)(D)					0.009	
Copper (Cu) (TOT)(D)					0.02	
Iron (Fe) (DIS)(D)					0.02	
Iron (Fe) (TOT)(D)					0.4	
Lead (Pb) (DIS)(D)	0.008	0.008	<0.005	0.009	0.02	0.009
Lead (Pb) (TOT)(D)	0.06	0.08	0.02	0.03	0.08	0.1
Manganese (Mn) (DIS)(D)					0.1	
Manganese (Mn) (TOT)(D)					0.1	
Zinc (Zn) (DIS)(D)	0.03	0.03	0.03	0.05	0.04	0.02
Zinc (Zn) (TOT)(D)	0.06	0.07	0.06	0.05	0.07	0.06

**Physical/Fid-Lab: ppm unless noted**

pH (D)	7.5	7.3	7.6
SC (umhos/cm at 25 C) (Fld) (D)	232.3	223.4	227
SC (umhos/cm at 25 C) (D)	250	237	244
Total Suspended Solids (D)	7.8	4.2	6.8
TDS (Measured at 180 C) (D)	172	146	161

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	WD-2	WD-2	WD-2	WD-2	WD-2	WD-2
Water	SAMPLE DATE	6/15/1985	6/21/1985	6/21/1985	7/1/1985	7/5/1985	7/5/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	85-4495	85-4644	85-4645	85-4757	85-4760	85-4761
	SAMPLE NUMBER	AEH-8506-541	AEH-8506-544	AEH-8506-545	AEH-8507-619	AEH-8507-621	AEH-8507-622
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Field Duplicate		Field Duplicate	
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)(D)	0.01	0.01	0.01	0.008	0.01	0.01
	Arsenic (As) (TOT)(D)	0.02	0.02	0.02	0.03	0.02	0.02
	Cadmium (Cd) (DIS)(D)	<0.001	0.003	<0.001	0.003	<0.001	<0.001
	Cadmium (Cd) (TOT)(D)	0.004	0.006	0.008	0.005	<0.001	0.005
	Lead (Pb) (DIS)(D)	0.007	<0.005	<0.005	0.007	<0.005	0.01
	Lead (Pb) (TOT)(D)	0.1	0.1	0.1	0.09	0.005	0.1
	Zinc (Zn) (DIS)(D)	0.02	0.01	0.01	0.03	0.008	0.02
	Zinc (Zn) (TOT)(D)	0.06	0.09	0.1	0.07	0.009	0.07
<b>Physical/Fld-Lab: ppm unless noted</b>							
	pH (D)	8.2	7.3		7.6		7.3
	SC (umhos/cm at 25 C) (Fld) (D)	261.1	282.4		307.5		316.9
	SC (umhos/cm at 25 C) (D)	275	284		327		332
	Total Suspended Solids (D)	8.6	9.8		5.1		6.8
	TDS (Measured at 180 C) (D)	187	194		207		215

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	WD-2	WD-2	WD-2	WD-2	WD-2	WD-2
Water	SAMPLE DATE	7/12/1985	7/12/1985	7/19/1985	7/19/1985	7/26/1985	7/26/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	85-5046	85-5048	85-5329	85-5331	85-5904	85-5906
	SAMPLE NUMBER	AEH-8507-625	AEH-8507-627	AEH-8507-616	AEH-8507-618	AEH-8507-628	AEH-8507-630
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		Field Duplicate
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)(D)	0.01	0.01	0.02	0.02	0.02	0.01
	Arsenic (As) (TOT)(D)	0.03	0.03	0.03	0.02	0.03	0.02
	Cadmium (Cd) (DIS)(D)	0.001	0.003	<0.001	<0.001	<0.001	0.001
	Cadmium (Cd) (TOT)(D)	0.006	0.008	0.006	0.004	0.005	0.004
	Lead (Pb) (DIS)(D)	<0.005	<0.005	0.008	0.006	0.005	0.005
	Lead (Pb) (TOT)(D)	0.2	0.2	0.1	0.1	0.1	0.1
	Zinc (Zn) (DIS)(D)	0.009	0.01	0.008	<0.008	0.008	0.008
	Zinc (Zn) (TOT)(D)	0.09	0.09	0.1	0.07	0.06	0.05
<b>Physical/Fld-Lab: ppm unless noted</b>							
	pH (D)	7.8		8		8	
	SC (umhos/cm at 25 C) (Fld) (D)	326.5		331.2		342.9	
	SC (umhos/cm at 25 C) (D)	332		339		365	
	Total Suspended Solids (D)	11.1		9.9		6.6	
	TDS (Measured at 180 C) (D)	224		232		236	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	WD-2	WD-2	WD-2	WD-2	WD-2	WD-2
Water	SAMPLE DATE	8/2/1985	8/2/1985	8/12/1985	8/12/1985	8/19/1985	8/19/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	85-5927	85-5929	85-6289	85-6308	85-6366	85-6367
	SAMPLE NUMBER	AEH-8508-701	AEH-8508-703	AEH-8508-715	AEH-8508-746	AEH-8508-749	AEH-8508-750
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate	Field Duplicate			Field Duplicate
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)(D)	0.004	0.009	0.02	0.02	0.03	0.02
	Arsenic (As) (TOT)(D)	0.01	0.01	0.02	0.02	0.03	0.03
	Cadmium (Cd) (DIS)(D)	0.001	0.001	0.003	0.001	<0.001	<0.001
	Cadmium (Cd) (TOT)(D)	0.005	0.005	0.004	0.005	0.003	0.004
	Lead (Pb) (DIS)(D)	0.01	0.009	<0.005	<0.005	<0.005	<0.005
	Lead (Pb) (TOT)(D)	0.1	0.1	0.08	0.08	0.1	0.1
	Zinc (Zn) (DIS)(D)	0.01	<0.008	0.02	0.04	<0.008	<0.008
	Zinc (Zn) (TOT)(D)	0.05	0.05	0.06	0.06	0.04	0.05
<b>Physical/Fld-Lab: ppm unless noted</b>							
	pH (D)	8.3			7.9	7.9	
	SC (umhos/cm at 25 C) (Fld) (D)	376.9			301.4	293.3	
	SC (umhos/cm at 25 C) (D)	363			287	291	
	Total Suspended Solids (D)	6.9			6.5	6.6	
	TDS (Measured at 180 C) (D)	241			214	217	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	WD-2	WD-2	WD-2	WD-2	WD-2	WD-2
Water	SAMPLE DATE	8/29/1985	8/29/1985	9/4/1985	9/4/1985	9/10/1985	9/10/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	85-6568	85-6569	85-6714	85-6775	85-6857	85-6858
	SAMPLE NUMBER	AEH-8508-752	AEH-8508-753	AEH-8509-801	AEH-8509-802	AEH-8509-804	AEH-8509-805
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate		Field Duplicate		Field Duplicate
<b>Metals (mg/L): ppm unless noted</b>							
	Arsenic (As) (DIS)(D)	0.02	0.03	0.03	0.02	0.02	0.02
	Arsenic (As) (TOT)(D)	0.03	0.03	0.03	0.04	0.02	0.02
	Cadmium (Cd) (DIS)(D)	0.001	0.001	<0.001	0.001	<0.001	0.001
	Cadmium (Cd) (TOT)(D)	0.004	0.004	0.003	0.005	0.004	0.003
	Lead (Pb) (DIS)(D)	0.006	0.009	0.009	0.007	0.01	0.02
	Lead (Pb) (TOT)(D)	0.1	0.1	0.1	0.1	0.08	0.08
	Zinc (Zn) (DIS)(D)	0.008	0.01	0.009	0.01	0.02	0.02
	Zinc (Zn) (TOT)(D)	0.04	0.04	0.05	0.05	0.04	0.03
<b>Physical/Fld-Lab: ppm unless noted</b>							
	pH (D)	8.1		8		7	
	SC (umhos/cm at 25 C) (Fld) (D)	323.2		333.8		322	
	SC (umhos/cm at 25 C) (D)	331		322		310	
	Total Suspended Solids (D)	4.5		6.4		3.5	
	TDS (Measured at 180 C) (D)	241		255		239	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	WD-2	WD-2	WD-2	WD-2	WD-3
Water	SAMPLE DATE	5/11/1993	5/14/1993	6/4/2001	6/20/2002	5/8/1985
	SAMPLE TIME	16:00	16:30	11:15	16:30	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	JTC
	LAB NUMBER	93-7849	93-7851	L010827014	L020481002	8505-452
	SAMPLE NUMBER	EHC-9305-176	EHC-9305-178	EHC-0106-160	EHC-0205-238	AEH-8505-452
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)			50	51	73
Calcium (Ca) (Dis)(D)	25	17	18	16	22.3
Carbonate As CO3 (D)			8	<1	
Chloride (Cl) (D)	3.6	1.3	2.4	1	2
Magnesium (Mg) (Dis)(D)	5	3.5	4	<5	5.06
Potassium (K) (Dis)(D)	<5	<5	<5	<5	1.8
Sodium (Na) (Dis)(D)	14 J	6.1 J	7.5	5.4	13.5
Sulfate (SO4) (D)	49	24	29	22	33.5
Total Alkalinity As CaCO3 (D)			55	42	60
Total Hardness As CaCO3 (D)	83	57			

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)(D)					<0.1
Aluminum (Al) (TOT)(D)					0.2
Antimony (Sb) (DIS)(D)					<0.05
Antimony (Sb) (TOT)(D)					<0.05
Arsenic (As) (DIS)(D)	0.3 J	0.04 J	0.005	0.007	<0.007
Arsenic (As) (TOT)(D)	0.3	0.05	<0.005	0.007	0.02
Arsenic (As) (TRC)(D)			<0.005		
Barium (Ba) (DIS)(D)					0.03
Barium (Ba) (TOT)(D)					0.03
Beryllium (Be) (DIS)(D)					<0.005
Beryllium (Be) (TOT)(D)					<0.005
Cadmium (Cd) (DIS)(D)	0.09	0.01	<0.001	<0.001	0.008
Cadmium (Cd) (TOT)(D)	0.09	0.02	<0.001	0.002	0.009
Cadmium (Cd) (TRC)(D)			<0.001		
Chromium (Cr) (DIS)(D)					<0.008
Chromium (Cr) (TOT)(D)					<0.008
Cobalt (Co) (DIS)(D)					<0.02
Cobalt (Co) (TOT)(D)					<0.02
Copper (Cu) (DIS)(D)	0.009	0.005	<0.004	0.005	<0.02
Copper (Cu) (TOT)(D)	0.02	0.02	<0.004	0.007	<0.02
Copper (Cu) (TRC)(D)			<0.004		
Iron (Fe) (DIS)(D)			0.08	0.09	<0.04
Iron (Fe) (TOT)(D)			0.3	0.3	0.5
Iron (Fe) (TRC)(D)			0.3		
Lead (Pb) (DIS)(D)	0.01	0.006	<0.005	0.01	<0.03
Lead (Pb) (TOT)(D)	0.09	0.07	0.007	0.03	0.07
Lead (Pb) (TRC)(D)			0.007		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	WD-2	WD-2	WD-2	WD-2	WD-3
Water	SAMPLE DATE	5/11/1993	5/14/1993	6/4/2001	6/20/2002	5/8/1985
	SAMPLE TIME	16:00	16:30	11:15	16:30	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	JTC
	LAB NUMBER	93-7849	93-7851	L010827014	L020481002	8505-452
	SAMPLE NUMBER	EHC-9305-176	EHC-9305-178	EHC-0106-160	EHC-0205-238	AEH-8505-452
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					Split

**Metals (mg/L): ppm unless noted**

Manganese (Mn) (DIS)(D)				0.05	0.04	0.08
Manganese (Mn) (TOT)(D)				0.06	0.06	0.2
Manganese (Mn) (TRC)(D)				0.06		
Mercury (Hg) (DIS)(D)						0.0001
Mercury (Hg) (TOT)(D)						0.0003
Nickel (Ni) (DIS)(D)						<0.02
Nickel (Ni) (TOT)(D)						<0.02
Selenium (Se) (DIS)(D)						<0.004
Selenium (Se) (TOT)(D)						<0.004
Silver (Ag) (DIS)(D)						<0.01
Silver (Ag) (TOT)(D)						<0.01
Thallium (Tl) (DIS)(D)						<0.003
Thallium (Tl) (TOT)(D)						<0.003
Tin (Sn) (DIS)(D)						<0.03
Tin (Sn) (TOT)(D)						<0.03
Vanadium (V) (DIS)(D)						<0.03
Vanadium (V) (TOT)(D)						<0.03
Zinc (Zn) (DIS)(D)	0.2	0.05		<0.02	<0.02	0.03
Zinc (Zn) (TOT)(D)	0.3	0.1		0.03	0.1	0.1
Zinc (Zn) (TRC)(D)				0.02		

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld) (D)					6.7	
pH (D)				8.8	6	7.8
pH (Fld) (D)	7.4	7.5		8.4	8.8	
SC (umhos/cm at 25 C) (Fld) (D)	662 A	134		151	141	
SC (umhos/cm at 25 C) (D)	215 J	140 J		171	136	97
Total Suspended Solids (D)				2.8	5.2	16
TDS (Measured at 180 C) (D)	186	144		134	111	210
Water Temperature (C) (Fld) (D)	15.5	14.1		12.3	18.9	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water - Historical Surface Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	WD-3	WD-3	WD-3	WD-4
Water	SAMPLE DATE	5/8/1985	5/14/1993	5/14/1993	5/14/1993
	SAMPLE TIME	00:00	15:45	16:50	17:15
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	85-3504	93-7853	93-7850	93-7852
	SAMPLE NUMBER	AEH-8505-452	EHC-9305-180	EHC-9305-177	EHC-9305-179
	TYPE	Surface Water	Surface Water	Surface Water	Surface Water
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS		Field Duplicate		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3) (D)	73			
Calcium (Ca) (DIS)(D)	24	23	24	22
Chloride (Cl) (D)	2.3	<1	1.5	1.4
Magnesium (Mg) (DIS)(D)	5.3	4.2	4.3	4
Potassium (K) (DIS)(D)	2.1	<5	<5	<5
Sodium (Na) (DIS)(D)	11.9	6.6 J	6.5 J	6.6 J
Sulfate (SO4) (D)	39.3	24	24	24
Total Alkalinity As CaCO3 (D)	59.7			
Total Hardness As CaCO3 (D)		75	78	71

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(D)	0.01	0.05 J	0.05 J	0.04 J
Arsenic (As) (TOT)(D)	0.02	0.08	0.07	0.06
Cadmium (Cd) (DIS)(D)	0.001	0.006	0.006	0.004
Cadmium (Cd) (TOT)(D)	0.003	0.03	0.03	0.01
Copper (Cu) (DIS)(D)	<0.008	0.006	0.005	0.006
Copper (Cu) (TOT)(D)	0.01	0.04	0.03	0.01
Iron (Fe) (DIS)(D)	0.09			
Iron (Fe) (TOT)(D)	0.7			
Lead (Pb) (DIS)(D)	0.005	<0.005	<0.005	<0.005
Lead (Pb) (TOT)(D)	0.03	0.2	0.2	0.06
Manganese (Mn) (DIS)(D)	0.08			
Manganese (Mn) (TOT)(D)	0.1			
Zinc (Zn) (DIS)(D)	0.02	0.02	0.02	0.01
Zinc (Zn) (TOT)(D)	0.07	0.2	0.2	0.09

**Physical/Fid-Lab: ppm unless noted**

pH (D)	7.8			
pH (Fld) (D)		8.3	8.3	8.3
SC (umhos/cm at 25 C) (Fld) (D)	206.6	150	150	149
SC (umhos/cm at 25 C) (D)	210	160	165 J	160 J
Total Suspended Solids (D)	13.1			
TDS (Measured at 180 C) (D)	154	146 J	150	152
Water Temperature (C) (Fld) (D)		15.2	15.2	14.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

**APPENDIX C-5**

**EAST HELENA WATER  
HISTORICAL PLANT SITE RUNOFF DATA**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Runoff Data

Database: ASARCO, East Helena Plant

### Table of Contents by Station Type

<u>Page</u>	<u>Station Type</u>	<u>Station Name</u>
4	Runoff	AS\W\1SUMP
4	Runoff	AS\W\2SUMP
4	Runoff	AS\W\3SUMP
1	Runoff	PW-1
1	Runoff	PW-2
1	Runoff	PW-3
2	Runoff	PW-4
2	Runoff	PW-5
2	Runoff	PW-6
3	Runoff	PW-7
3	Runoff	PW-8
3	Runoff	PW-9
5	Runoff	SITEA
5	Runoff	SITEB
7	Runoff	SITEC
7	Runoff	SITED
9	Runoff	SITEE
9	Runoff	SITEF
11	Runoff	SITEG
11	Runoff	SITEH

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

Run Time: 9/16/2009 12:08:33 PM

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# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Runoff Data

Database: ASARCO, East Helena Plant

### Table of Contents By Lab Sample ID

<u>Page</u>	<u>Lab Sample ID</u>	<u>Sample ID</u>	<u>Sample Date</u>	<u>Station Name</u>
5	87-5172	AEH-8707-101	7/2/1987	SITEA
9	87-5173	AEH-8707-102	7/2/1987	SITEE
9	87-5174	AEH-8707-103	7/2/1987	SITEF
11	87-5175	AEH-8707-104	7/2/1987	SITEG
11	87-5176	AEH-8707-105	7/2/1987	SITEH
5	850529-1	AEH-8505-A	5/29/1985	SITEA
5	850529-2	AEH-8505-A	5/29/1985	SITEA
5	850529-3	AEH-8505-B	5/29/1985	SITEB
7	850529-4	AEH-8505-E	5/29/1985	SITEB
5	850529-5	AEH-8505-B	5/29/1985	SITEB
7	850529-6	AEH-8505-C	5/29/1985	SITEC
7	850529-7	AEH-8505-C	5/29/1985	SITEC
7	850529-8	AEH-8505-D	5/29/1985	SITED
9	850529-9	AEH-8505-D	5/29/1985	SITED
4	L930930-1	EHD-9305-100	5/21/1993	AS\W\1SUMP
4	L930930-2	EHD-9305-101	5/21/1993	AS\W\2SUMP
4	L930930-3	EHD-9305-102	5/21/1993	AS\W\3SUMP
1	L010827001	EHC-0106-147	6/4/2001	PW-1
1	L010827002	EHC-0106-148	6/4/2001	PW-2
2	L010827003	EHC-0106-149	6/4/2001	PW-4
3	L010827004	EHC-0106-150	6/4/2001	PW-7
3	L010827005	EHC-0106-151	6/4/2001	PW-8
3	L010827006	EHC-0106-152	6/4/2001	PW-9
1	L010827007	EHC-0106-153	6/4/2001	PW-3
2	L010827008	EHC-0106-154	6/4/2001	PW-5
2	L010827009	EHC-0106-155	6/4/2001	PW-6
2	L010827010	EHC-0106-156	6/4/2001	PW-6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

Run Time: 9/16/2009 12:08:33 PM

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# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Runoff Data

Database: ASARCO, East Helena Plant

### Table of Contents by Sample ID

<u>Page</u>	<u>Sample ID</u>	<u>Lab Sample ID</u>	<u>Sample Date</u>	<u>Station Name</u>
5	AEH-8505-A	850529-2	5/29/1985	SITEA
5	AEH-8505-A	850529-1	5/29/1985	SITEA
5	AEH-8505-B	850529-3	5/29/1985	SITEB
5	AEH-8505-B	850529-5	5/29/1985	SITEB
7	AEH-8505-C	850529-6	5/29/1985	SITEC
7	AEH-8505-C	850529-7	5/29/1985	SITEC
7	AEH-8505-D	850529-8	5/29/1985	SITED
9	AEH-8505-D	850529-9	5/29/1985	SITED
7	AEH-8505-E	850529-4	5/29/1985	SITEB
5	AEH-8707-101	87-5172	7/2/1987	SITEA
9	AEH-8707-102	87-5173	7/2/1987	SITEE
9	AEH-8707-103	87-5174	7/2/1987	SITEF
11	AEH-8707-104	87-5175	7/2/1987	SITEG
11	AEH-8707-105	87-5176	7/2/1987	SITEH
1	EHC-0106-147	L010827001	6/4/2001	PW-1
1	EHC-0106-148	L010827002	6/4/2001	PW-2
2	EHC-0106-149	L010827003	6/4/2001	PW-4
3	EHC-0106-150	L010827004	6/4/2001	PW-7
3	EHC-0106-151	L010827005	6/4/2001	PW-8
3	EHC-0106-152	L010827006	6/4/2001	PW-9
1	EHC-0106-153	L010827007	6/4/2001	PW-3
2	EHC-0106-154	L010827008	6/4/2001	PW-5
2	EHC-0106-155	L010827009	6/4/2001	PW-6
2	EHC-0106-156	L010827010	6/4/2001	PW-6
4	EHD-9305-100	L930930-1	5/21/1993	AS\W\1SUMP
4	EHD-9305-101	L930930-2	5/21/1993	AS\W\2SUMP
4	EHD-9305-102	L930930-3	5/21/1993	AS\W\3SUMP

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

Run Time: 9/16/2009 12:08:33 PM

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# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Runoff Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PW-1	PW-2	PW-3
Unknown	SAMPLE DATE	6/4/2001	6/4/2001	6/4/2001
	SAMPLE TIME	11:15	11:45	13:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010827001	L010827002	L010827007
	SAMPLE NUMBER	EHC-0106-147	EHC-0106-148	EHC-0106-153
	TYPE	Runoff	Runoff	Runoff
	GROUP	RI	RI	RI
	DESCRIPTION			
	REMARKS			
<b>Common Ions (mg/L): ppm unless noted</b>				
	Bicarbonate (HCO3)	869	268	874
	Calcium (Ca) (DIS)	38	70	59
	Carbonate As CO3	14	<1	96
	Chloride (Cl)	66	97	57
	Magnesium (Mg) (DIS)	19	23	16
	Potassium (K) (DIS)	<5	<5	28
	Sodium (Na) (DIS)	25	9.2	202
	Sulfate (SO4)	133	262	479
	Total Alkalinity As CACO3	736	220	876
<b>Metals (mg/L): ppm unless noted</b>				
	Arsenic (As) (DIS)	0.1	0.006	1.2
	Arsenic (As) (TRC)	2.4	0.7	21
	Cadmium (Cd) (DIS)	0.05	2	0.009
	Cadmium (Cd) (TRC)	2	2.4	7.6
	Copper (Cu) (DIS)	0.04	0.01	0.2
	Copper (Cu) (TRC)	6.4	1.5	59
	Iron (Fe) (DIS)	<0.02	<0.02	<0.02
	Iron (Fe) (TRC)	17	4.9	55
	Lead (Pb) (DIS)	0.2	1	0.08
	Lead (Pb) (TRC)	23	11	88
	Manganese (Mn) (DIS)	<0.02	0.3	0.02
	Manganese (Mn) (TRC)	0.6	0.5	3.2
	Zinc (Zn) (DIS)	<0.02	2.1	<0.02
	Zinc (Zn) (TRC)	8.8	4	40
<b>Physical/Fid-Lab: ppm unless noted</b>				
	pH	8.9	7	9.4
	pH (Fid)	7.2	8.2	9.9
	SC (umhos/cm at 25 C) (Fid)	357	428	618
	SC (umhos/cm at 25 C)	509	634	1374
	Total Suspended Solids	1489	530	1481
	TDS (Measured at 180 C)	347	436	1027
	Water Temperature (C) (Fid)	17.3	18.1	18.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Runoff Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PW-4	PW-5	PW-6	PW-6
Unknown	SAMPLE DATE	6/4/2001	6/4/2001	6/4/2001	6/4/2001
	SAMPLE TIME	12:00	14:00	14:15	15:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010827003	L010827008	L010827009	L010827010
	SAMPLE NUMBER	EHC-0106-149	EHC-0106-154	EHC-0106-155	EHC-0106-156
	TYPE	Runoff	Runoff	Runoff	Runoff
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS				Field Duplicate
<b>Common Ions (mg/L): ppm unless noted</b>					
	Bicarbonate (HCO3)	275	233	82	95
	Calcium (Ca) (DIS)	107	14	30	29
	Carbonate As CO3	16	6	<1	<1
	Chloride (Cl)	110	25	21	22
	Magnesium (Mg) (DIS)	13	7.1	6.7	6.6
	Potassium (K) (DIS)	68	<5	<5	<5
	Sodium (Na) (DIS)	401	17	14	13
	Sulfate (SO4)	1303	56	116	109
	Total Alkalinity As CaCO3	251	201	67	78
<b>Metals (mg/L): ppm unless noted</b>					
	Arsenic (As) (DIS)	0.1	0.3	0.07	0.06
	Arsenic (As) (TRC)	9.9	3.5	1.8	1.7
	Cadmium (Cd) (DIS)	0.2	0.02	1.3	1.3
	Cadmium (Cd) (TRC)	11	1	2.7	2.4
	Copper (Cu) (DIS)	0.1	0.1	0.1	0.1
	Copper (Cu) (TRC)	15	11	3.8	3.1
	Iron (Fe) (DIS)	<0.02	<0.02	0.06	0.06
	Iron (Fe) (TRC)	13	10	6.6	5.6
	Lead (Pb) (DIS)	0.2	0.1	0.5	0.4
	Lead (Pb) (TRC)	103	24	24	20
	Manganese (Mn) (DIS)	0.07	0.02	0.2	0.2
	Manganese (Mn) (TRC)	0.7	0.4	0.4	0.3
	Zinc (Zn) (DIS)	0.06	0.03	2.4	2.4
	Zinc (Zn) (TRC)	34	6.3	6.9	6.1
<b>Physical/Fid-Lab: ppm unless noted</b>					
	pH	8.8	8.5	6.8	6.8
	pH (Fid)	8.3	9.4	9	9
	SC (umhos/cm at 25 C) (Fid)	1520	185	241	241
	SC (umhos/cm at 25 C)	2550	242	342	349
	Total Suspended Solids	607	424	137	118
	TDS (Measured at 180 C)	1888	163	230	241
	Water Temperature (C) (Fid)	15.5	21.4	17.6	17.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Runoff Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	PW-7	PW-8	PW-9
Unknown	SAMPLE DATE	6/4/2001	6/4/2001	6/4/2001
	SAMPLE TIME	12:30	13:15	13:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L010827004	L010827005	L010827006
	SAMPLE NUMBER	EHC-0106-150	EHC-0106-151	EHC-0106-152
	TYPE	Runoff	Runoff	Runoff
	GROUP	RI	RI	RI
	DESCRIPTION			
	REMARKS			

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	229	44	17
Calcium (Ca) (DIS)	34	15	11
Carbonate As CO3	13	<1	<1
Chloride (Cl)	66	16	3.1
Magnesium (Mg) (DIS)	12	6.1	2
Potassium (K) (DIS)	7.7	<5	<5
Sodium (Na) (DIS)	65	7.8	<5
Sulfate (SO4)	174	40	32
Total Alkalinity As CaCO3	210	36	14

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)	2.2	0.1	0.2
Arsenic (As) (TRC)	5	0.3	0.3
Cadmium (Cd) (DIS)	0.03	0.02	0.08
Cadmium (Cd) (TRC)	0.6	0.08	0.1
Copper (Cu) (DIS)	0.3	0.04	0.2
Copper (Cu) (TRC)	8.8	0.7	0.8
Iron (Fe) (DIS)	0.1	<0.02	0.05
Iron (Fe) (TRC)	6.6	3.6	2.5
Lead (Pb) (DIS)	0.4	0.04	0.1
Lead (Pb) (TRC)	12	1.3	1.5
Manganese (Mn) (DIS)	<0.02	<0.02	0.05
Manganese (Mn) (TRC)	0.2	0.1	0.1
Zinc (Zn) (DIS)	0.08	<0.02	0.4
Zinc (Zn) (TRC)	2.8	0.3	1

**Physical/Fid-Lab: ppm unless noted**

pH	8.9	7.9	6.7
pH (Fid)	8.6	8.7	9.2
SC (umhos/cm at 25 C) (Fid)	396	146	88
SC (umhos/cm at 25 C)	664	201	114
Total Suspended Solids	289	90	94
TDS (Measured at 180 C)	418	137	92
Water Temperature (C) (Fid)	18.2	19.9	19.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Runoff Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	AS\W1SUMP	AS\W2SUMP	AS\W3SUMP
Water	SAMPLE DATE	5/21/1993	5/21/1993	5/21/1993
	SAMPLE TIME	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	L930930-1	L930930-2	L930930-3
	SAMPLE NUMBER	EHD-9305-100	EHD-9305-101	EHD-9305-102
	TYPE	Runoff	Runoff	Runoff
	GROUP	RI	RI	RI
	DESCRIPTION			
	REMARKS			

**Metals (mg/L): ppm unless noted**

Arsenic (As) (DIS)(W)	0.2	2.5	6.4
Arsenic III (dis)(W)	0.1	2.7	6.5
Arsenic V (dis)(W)	0.1	0.3	0.4
Cadmium (Cd) (DIS)(W)	8.5	4.3	2.7
Copper (Cu) (DIS)(W)	0.06	0.03	1.1
Lead (Pb) (DIS)(W)	0.7	0.1	3.6
Zinc (Zn) (DIS)(W)	4.9	12	5.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Runoff Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SITEA	SITEA	SITEA	SITEB	SITEB
Water	SAMPLE DATE	5/29/1985	5/29/1985	7/2/1987	5/29/1985	5/29/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	JTC	TSC-SLC	TSC-SLC	JTC
	LAB NUMBER	850529-1	850529-2	87-5172	850529-3	850529-5
	SAMPLE NUMBER	AEH-8505-A	AEH-8505-A	AEH-8707-101	AEH-8505-B	AEH-8505-B
	TYPE	Runoff	Runoff	Runoff	Runoff	Runoff
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Split			Split

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	989	492	59	92.5	96
Calcium (Ca) (DIS)	23	21.9	49	74	70.7
Carbonate Alkalinity As CaCO3	<2			<2	
Carbonate As CO3			<1		
Chloride (Cl)	16.1	16.1	13	23	23.6
Magnesium (Mg) (DIS)	4.7	4.01	2.6	6.8	6
Potassium (K) (DIS)	6.4	6.5	6.5	13.5	12
Sodium (Na) (DIS)	7	10.3	63	74	94.4
Sulfate (SO4)	37.6	52.8	340	1811	270.6
Total Alkalinity As CaCO3	811	403		75.8	79

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		0.2			<0.1
Aluminum (Al) (TOT)		59.9			2
Antimony (Sb) (DIS)		<0.05			0.2
Antimony (Sb) (TOT)		<0.05			1.2
Arsenic (As) (DIS)	0.1	0.2		1.8	2.9
Arsenic (As) (TOT)	1.6	1.2	11.2	8	6.9
Barium (Ba) (DIS)		0.08			0.04
Barium (Ba) (TOT)		1.5			0.3
Beryllium (Be) (DIS)		<0.005			<0.005
Beryllium (Be) (TOT)		0.02			<0.005
Cadmium (Cd) (DIS)	0.006	0.02		0.3	0.3
Cadmium (Cd) (TOT)	1	0.8	4.5	1.09	1.05
Chromium (Cr) (DIS)		<0.008			<0.008
Chromium (Cr) (TOT)		0.04			0.008
Cobalt (Co) (DIS)		<0.02			0.04
Cobalt (Co) (TOT)		0.05			0.07
Copper (Cu) (DIS)	0.06	0.03		0.1	0.09
Copper (Cu) (TOT)	4	2.5	36.6	8.8	6.2
Iron (Fe) (DIS)	0.1	0.05		<0.02	<0.04
Iron (Fe) (TOT)	200	50.1	48.7	21.3	14.8
Lead (Pb) (DIS)	0.06	0.06		0.06	0.01
Lead (Pb) (TOT)	30.1	26.7	76	36.4	32.3
Manganese (Mn) (DIS)	0.02	0.02		0.6	0.9
Manganese (Mn) (TOT)	4.8	3.9	2.5	1.2	1.6
Mercury (Hg) (DIS)		0.0004			0.004
Mercury (Hg) (TOT)		0.08			0.05
Nickel (Ni) (DIS)		<0.02			0.04

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Runoff Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SITEA	SITEA	SITEA	SITEB	SITEB
Water	SAMPLE DATE	5/29/1985	5/29/1985	7/2/1987	5/29/1985	5/29/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	JTC	TSC-SLC	TSC-SLC	JTC
	LAB NUMBER	850529-1	850529-2	87-5172	850529-3	850529-5
	SAMPLE NUMBER	AEH-8505-A	AEH-8505-A	AEH-8707-101	AEH-8505-B	AEH-8505-B
	TYPE	Runoff	Runoff	Runoff	Runoff	Runoff
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Split			Split
<b>Metals (mg/L): ppm unless noted</b>						
	Nickel (Ni) (TOT)		0.08			0.1
	Selenium (Se) (DIS)		<0.004			<0.03
	Selenium (Se) (TOT)		<0.03			<0.03
	Silver (Ag) (DIS)		<0.01			<0.01
	Silver (Ag) (TOT)		0.1			0.2
	Thallium (Tl) (DIS)		<0.003			0.01
	Thallium (Tl) (TOT)		<0.1			<0.003
	Tin (Sn) (DIS)		<0.03			<0.03
	Tin (Sn) (TOT)		<0.03			0.04
	Vanadium (V) (DIS)		<0.03			<0.03
	Vanadium (V) (TOT)		0.09			<0.003
	Zinc (Zn) (DIS)	0.02	0.05		6.5	8.5
	Zinc (Zn) (TOT)	8.4	6.4	76	25.6	28.6
<b>Physical/Fid-Lab: ppm unless noted</b>						
	pH	7.8	7.9	6.9	6.6	7.08
	SC (umhos/cm at 25 C) (Fid)	224.9			818.9	
	SC (umhos/cm at 25 C)	239	209	750	877	690
	Total Suspended Solids	4320	2805	1124	393	618
	TDS (Measured at 180 C)	142	174	562	174	563

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Runoff Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SITEB	SITEC	SITEC	SITED
Water	SAMPLE DATE	5/29/1985	5/29/1985	5/29/1985	5/29/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	JTC	TSC-SLC
	LAB NUMBER	850529-4	850529-6	850529-7	850529-8
	SAMPLE NUMBER	AEH-8505-E	AEH-8505-C	AEH-8505-C	AEH-8505-D
	TYPE	Runoff	Runoff	Runoff	Runoff
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS	Field Duplicate		Split	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	475	185	487
Calcium (Ca) (DIS)	100	89.9	16.7
Carbonate Alkalinity As CaCO3	<2		<2
Chloride (Cl)	13.5	12.4	2.6
Magnesium (Mg) (DIS)	4.2	3.6	1.8
Potassium (K) (DIS)	8.6	5.5	7.3
Sodium (Na) (DIS)	39	36.3	4.3
Sulfate (SO4)	429	360.8	54.8
Total Alkalinity As CaCO3	389	152	399

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)		<0.1	
Aluminum (Al) (TOT)		1.9	
Antimony (Sb) (DIS)		0.07	
Antimony (Sb) (TOT)		1.6	
Arsenic (As) (DIS)	1.8	0.04	0.2
Arsenic (As) (TOT)	7.5	5.9	1.8
Barium (Ba) (DIS)		0.02	
Barium (Ba) (TOT)		0.3	
Beryllium (Be) (DIS)		<0.005	
Beryllium (Be) (TOT)		<0.005	
Cadmium (Cd) (DIS)	0.3	0.9	0.04
Cadmium (Cd) (TOT)	1.08	2.4	0.5
Chromium (Cr) (DIS)		<0.008	
Chromium (Cr) (TOT)		0.05	
Cobalt (Co) (DIS)		0.1	
Cobalt (Co) (TOT)		0.2	
Copper (Cu) (DIS)		0.04	0.07
Copper (Cu) (TOT)		14	2.9
Iron (Fe) (DIS)		<0.02	0.3
Iron (Fe) (TOT)		31.3	104
Lead (Pb) (DIS)	0.06	0.4	0.08
Lead (Pb) (TOT)	34.5	92.5	24.6
Manganese (Mn) (DIS)		0.8	0.4
Manganese (Mn) (TOT)		2.4	2.3
Mercury (Hg) (DIS)		0.01	
Mercury (Hg) (TOT)		0.1	
Nickel (Ni) (DIS)		0.05	
Nickel (Ni) (TOT)		0.2	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Runoff Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SITEB	SITEC	SITEC	SITED
Water	SAMPLE DATE	5/29/1985	5/29/1985	5/29/1985	5/29/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	JTC	TSC-SLC
	LAB NUMBER	850529-4	850529-6	850529-7	850529-8
	SAMPLE NUMBER	AEH-8505-E	AEH-8505-C	AEH-8505-C	AEH-8505-D
	TYPE	Runoff	Runoff	Runoff	Runoff
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS	Field Duplicate		Split	

**Metals (mg/L): ppm unless noted**

Selenium (Se) (DIS)			<0.03	
Selenium (Se) (TOT)			<0.03	
Silver (Ag) (DIS)			<0.01	
Silver (Ag) (TOT)			0.3	
Thallium (Tl) (DIS)			0.1	
Thallium (Tl) (TOT)			0.2	
Tin (Sn) (DIS)			<0.03	
Tin (Sn) (TOT)			<0.03	
Vanadium (V) (DIS)			<0.03	
Vanadium (V) (TOT)			<0.03	
Zinc (Zn) (DIS)	6.3	3	3.6	0.2
Zinc (Zn) (TOT)	24.8	23.1	13.9	7.9

**Physical/Fld-Lab: ppm unless noted**

pH		7.1	7.2	7.1
SC (umhos/cm at 25 C) (Fld)		741	741	154.3
SC (umhos/cm at 25 C)		807	480	188
Total Suspended Solids		783	354	2210
TDS (Measured at 180 C)		541	599	118

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Runoff Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SITED	SITEE	SITEF
Water	SAMPLE DATE	5/29/1985	7/2/1987	7/2/1987
	SAMPLE TIME	00:00	00:00	00:00
	LAB	JTC	TSC-SLC	TSC-SLC
	LAB NUMBER	850529-9	87-5173	87-5174
	SAMPLE NUMBER	AEH-8505-D	AEH-8707-102	AEH-8707-103
	TYPE	Runoff	Runoff	Runoff
	GROUP	RI	RI	RI
	DESCRIPTION			
	REMARKS	Split		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	31	87	172
Calcium (Ca) (DIS)	17.08	74.5	125
Carbonate As CO3		<1	<1
Chloride (Cl)	1.2	12	140
Magnesium (Mg) (DIS)	1.7	4.3	8.2
Potassium (K) (DIS)	7.4	6.6	93
Sodium (Na) (DIS)	<3.9	104	825
Sulfate (SO4)	90.1	258	1980
Total Alkalinity As CaCO3	25		

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	0.7		
Aluminum (Al) (TOT)	34.8		
Antimony (Sb) (DIS)	<0.05		
Antimony (Sb) (TOT)	<0.05		
Arsenic (As) (DIS)	0.4		
Arsenic (As) (TOT)	1.3	10.5	72
Barium (Ba) (DIS)	0.05		
Barium (Ba) (TOT)	0.5		
Beryllium (Be) (DIS)	0.005		
Beryllium (Be) (TOT)	<0.005		
Cadmium (Cd) (DIS)	0.05		
Cadmium (Cd) (TOT)	0.6	7.1	46.7
Chromium (Cr) (DIS)	<0.008		
Chromium (Cr) (TOT)	0.03		
Cobalt (Co) (DIS)	<0.02		
Cobalt (Co) (TOT)	0.04		
Copper (Cu) (DIS)	0.07		
Copper (Cu) (TOT)	2.3	26.2	332
Iron (Fe) (DIS)	0.3		
Iron (Fe) (TOT)	46	43.3	281.3
Lead (Pb) (DIS)	0.2		
Lead (Pb) (TOT)	27.4	68.7	520
Manganese (Mn) (DIS)	0.5		
Manganese (Mn) (TOT)	2.4	4.1	9.9
Mercury (Hg) (DIS)	0.0007		
Mercury (Hg) (TOT)	0.1		
Nickel (Ni) (DIS)	<0.02		
Nickel (Ni) (TOT)	0.03		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Runoff Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SITED	SITEE	SITEF
Water	SAMPLE DATE	5/29/1985	7/2/1987	7/2/1987
	SAMPLE TIME	00:00	00:00	00:00
	LAB	JTC	TSC-SLC	TSC-SLC
	LAB NUMBER	850529-9	87-5173	87-5174
	SAMPLE NUMBER	AEH-8505-D	AEH-8707-102	AEH-8707-103
	TYPE	Runoff	Runoff	Runoff
	GROUP	RI	RI	RI
	DESCRIPTION			
	REMARKS	Split		

**Metals (mg/L): ppm unless noted**

Selenium (Se) (DIS)	<0.004		
Selenium (Se) (TOT)	0.007		
Silver (Ag) (DIS)	<0.01		
Silver (Ag) (TOT)	0.1		
Thallium (Tl) (DIS)	<0.003		
Thallium (Tl) (TOT)	0.004		
Tin (Sn) (DIS)	<0.03		
Tin (Sn) (TOT)	<0.003		
Vanadium (V) (DIS)	<0.03		
Vanadium (V) (TOT)	0.07		
Zinc (Zn) (DIS)	0.3		
Zinc (Zn) (TOT)	5.3	48.7	221

**Physical/Fld-Lab: ppm unless noted**

pH	6.9	7	7.5
SC (umhos/cm at 25 C)	175	980	4630
Total Suspended Solids	1800	1524	4062
TDS (Measured at 180 C)	176	888	2898

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Runoff Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SITEG	SITEH
Water	SAMPLE DATE	7/2/1987	7/2/1987
	SAMPLE TIME	00:00	00:00
	LAB	TSC-SLC	TSC-SLC
	LAB NUMBER	87-5175	87-5176
	SAMPLE NUMBER	AEH-8707-104	AEH-8707-105
	TYPE	Runoff	Runoff
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS		

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	84	3865
Calcium (Ca) (DIS)	335	10.8
Carbonate As CO3	<1	379
Chloride (Cl)	290	1950
Magnesium (Mg) (DIS)	16.6	1.6
Potassium (K) (DIS)	82	104
Sodium (Na) (DIS)	770	3850
Sulfate (SO4)	2220	2740

**Metals (mg/L): ppm unless noted**

Arsenic (As) (TOT)	184	380
Cadmium (Cd) (TOT)	68	20
Copper (Cu) (TOT)	1200	800
Iron (Fe) (TOT)	1093	364
Lead (Pb) (TOT)	1600	506.7
Manganese (Mn) (TOT)	52	10.5
Zinc (Zn) (TOT)	544	180

**Physical/Fld-Lab: ppm unless noted**

pH	7.8	10.3
SC (umhos/cm at 25 C)	5000	14800
Total Suspended Solids	2564	2026
TDS (Measured at 180 C)	3595	11261

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



**APPENDIX C-6**

**EAST HELENA WATER  
HISTORICAL PLANT SITE PROCESS WATER DATA**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

### Table of Contents by Station Type

<u>Page</u>	<u>Station Type</u>	<u>Station Name</u>
1	Process Water	AP-1
3	Process Water	AP-2
5	Process Water	AP-3
9	Process Water	APTF
9	Process Water	EHSE
9	Process Water	EHSI
10	Process Water	LL-1
11	Process Water	LL-2
15	Process Water	S-1
19	Process Water	S-2
24	Process Water	S-3
25	Process Water	SHOWER
27	Process Water	SP-1
30	Process Water	SP-2
30	Process Water	SP-3
33	Process Water	SP-4
35	Process Water	SP-5
38	Process Water	ST-1
41	Process Water	ST-2
44	Process Water	TRWASH
44	Process Water	TT-1
50	Process Water	UPPER LAKE
54	Process Water	WASHER
54	Process Water	ZP-1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

### Table of Contents By Lab Sample ID

<u>Page</u>	<u>Lab Sample ID</u>	<u>Sample ID</u>	<u>Sample Date</u>	<u>Station Name</u>
50	84-10999	AEH-8411-36	11/7/1984	UPPER LAKE
44	84-11003	AEH-8411-38	11/8/1984	TT-1
50	84-11007	AEH-8411-40	11/7/1984	UPPER LAKE
44	84-11011	AEH-8411-43	11/8/1984	TT-1
50	85-2344	AEH-8504-309	4/4/1985	UPPER LAKE
46	85-2346	AEH-8504-311	4/4/1985	TT-1
50	85-4089	AEH-8506-507	6/6/1985	UPPER LAKE
52	85-4090	AEH-8506-528	6/6/1985	UPPER LAKE
46	85-4092	AEH-8506-530	6/5/1985	TT-1
52	85-4102	AEH-8506-507-D	6/6/1985	UPPER LAKE
52	85-4103	AEH-8506-528-D	6/6/1985	UPPER LAKE
52	85-6034	AEH-8508-736	8/6/1985	UPPER LAKE
46	85-6036	AEH-8508-738	8/6/1985	TT-1
19	87-2	AEH-8612-20	12/30/1986	S-2
3	87-3	AEH-8612-21	12/30/1986	AP-2
27	87-4	AEH-8612-22	12/30/1986	SP-1
15	87-294	AEH-8701-1	1/13/1987	S-1
38	87-1222	AEH-8702-1	2/20/1987	ST-1
44	87-3323	AEH-8705-11	5/13/1987	TRWASH
27	87-3325	AEH-8705-07	5/13/1987	SP-1
30	87-3326	AEH-8705-08	5/13/1987	SP-2
38	87-3327	AEH-8705-12	5/13/1987	ST-1
11	87-3328	AEH-8705-131	5/13/1987	LL-2
13	87-3329	AEH-8705-132	5/13/1987	LL-2
10	87-3366	AEH-8705-133	5/14/1987	LL-1
4	87-3368	AEH-8705-06	5/14/1987	AP-2
20	87-3369	AEH-8705-09	5/14/1987	S-2
17	87-3370	AEH-8705-10	5/14/1987	S-1
46	87-5177	AEH-8707-106	7/2/1987	TT-1
38	87-9507	AEH-8710-12	10/21/1987	ST-1
27	87-9508	AEH-8710-4	10/21/1987	SP-1
54	87-9509	AEH-8710-13	10/21/1987	ZP-1
1	87-9510	AEH-8710-5	10/20/1987	AP-1
41	87-9511	AEH-8710-10	10/21/1987	ST-2
17	87-9512	AEH-8710-8	10/21/1987	S-1
24	87-9513	AEH-8710-100	10/20/1987	S-3
4	87-9514	AEH-8710-6	10/20/1987	AP-2
48	87-9515	AEH-8710-3	10/20/1987	TT-1
20	87-9516	AEH-8710-9	10/20/1987	S-2
5	87-9517	AEH-8710-11	10/20/1987	AP-3
13	87-9518	AEH-8710-2	10/20/1987	LL-2
10	87-9519	AEH-8710-1	10/20/1987	LL-1
20	87-9522	AEH-8710-14	10/20/1987	S-2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

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<u>Page</u>	<u>Lab Sample ID</u>	<u>Sample ID</u>	<u>Sample Date</u>	<u>Station Name</u>
41	87-9586	AEH-8710-101	10/21/1987	ST-2
54	87-10006	AEH-8711-23	11/4/1987	ZP-1
10	87-10007	AEH-8711-11	11/4/1987	LL-1
13	87-10008	AEH-8711-12	11/4/1987	LL-2
1	87-10009	AEH-8711-15	11/4/1987	AP-1
38	87-10010	AEH-8711-24	11/4/1987	ST-1
7	87-10024	AEH-8711-17	11/4/1987	AP-3
4	87-10025	AEH-8711-16	11/4/1987	AP-2
48	87-10026	AEH-8711-13	11/4/1987	TT-1
38	87-10027	AEH-8711-21	11/4/1987	ST-1
20	87-10276	AEH-8711-19	11/6/1987	S-2
24	87-10277	AEH-8711-20	11/6/1987	S-3
17	87-10278	AEH-8711-18	11/6/1987	S-1
41	87-10279	AEH-8711-22	11/6/1987	ST-2
27	87-10280	AEH-8711-14	11/6/1987	SP-1
28	87-10281	AEH-8711-25	11/6/1987	SP-1
54	87-10550	AEH-8711-63	11/17/1987	ZP-1
10	87-10551	AEH-8711-51	11/17/1987	LL-1
13	87-10552	AEH-8711-52	11/17/1987	LL-2
15	87-10553	AEH-8711-64	11/17/1987	LL-2
1	87-10554	AEH-8711-55	11/17/1987	AP-1
39	87-10555	AEH-8711-61	11/17/1987	ST-1
48	87-10556	AEH-8711-53	11/18/1987	TT-1
17	87-10557	AEH-8711-58	11/18/1987	S-1
20	87-10558	AEH-8711-59	11/18/1987	S-2
22	87-10559	AEH-8711-65	11/18/1987	S-2
24	87-10560	AEH-8711-60	11/18/1987	S-3
4	87-10561	AEH-8711-56	11/18/1987	AP-2
7	87-10562	AEH-8711-57	11/19/1987	AP-3
7	87-10563	AEH-8711-71	11/19/1987	AP-3
41	87-10564	AEH-8711-62	11/19/1987	ST-2
28	87-10565	AEH-8711-54	11/19/1987	SP-1
11	87-11022	AEH-8712-11	11/30/1987	LL-1
15	87-11023	AEH-8712-12	11/30/1987	LL-2
1	87-11024	AEH-8712-15	11/30/1987	AP-1
3	87-11025	AEH-8712-24	11/30/1987	AP-1
55	87-11026	AEH-8712-23	11/30/1987	ZP-1
5	87-11027	AEH-8712-16	11/30/1987	AP-2
39	87-11028	AEH-8712-21	11/30/1987	ST-1
17	87-11029	AEH-8712-18	11/30/1987	S-1
22	87-11030	AEH-8712-19	12/1/1987	S-2
22	87-11031	AEH-8712-25	12/1/1987	S-2
25	87-11032	AEH-8712-20	12/1/1987	S-3

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## East Helena Water -Historical Plant Site Process Water Data

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48	87-11033	AEH-8712-13	12/1/1987	TT-1
43	87-11034	AEH-8712-22	12/1/1987	ST-2
7	87-11035	AEH-8712-17	12/1/1987	AP-3
28	87-11036	AEH-8712-14	12/1/1987	SP-1
3	87-11444	AEH-8712-75	12/15/1987	AP-1
39	87-11445	AEH-8712-81	12/15/1987	ST-1
43	87-11446	AEH-8712-82	12/15/1987	ST-2
43	87-11447	AEH-8712-84	12/15/1987	ST-2
48	87-11448	AEH-8712-73	12/15/1987	TT-1
19	87-11449	AEH-8712-78	12/15/1987	S-1
24	87-11450	AEH-8712-79	12/15/1987	S-2
25	87-11451	AEH-8712-80	12/15/1987	S-3
25	87-11454	AEH-8712-85	12/15/1987	S-3
54	88-5017	AEH-8808-201	8/3/1988	WASHER
25	88-5018	AEH-8808-200	8/3/1988	SHOWER
9	88-5580	AEH-8808-300	8/23/1988	EHSI
9	88-5581	AEH-8808-301	8/23/1988	EHSE
9	88-5582	AEH-8808-302	8/23/1988	EHSE
9	93-7720	EHC-9305-107	4/28/1993	APTF
19	8612-20	AEH-8612-20	12/30/1986	S-2
3	8612-21	AEH-8612-21	12/30/1986	AP-2
27	8612-22	AEH-8612-22	12/30/1986	SP-1
4	8705-06	AEH-8705-06	5/14/1987	AP-2
27	8705-07	AEH-8705-07	5/13/1987	SP-1
30	8705-08	AEH-8705-08	5/13/1987	SP-2
19	8705-09	AEH-8705-09	5/14/1987	S-2
15	8705-10	AEH-8705-10	5/14/1987	S-1
44	8705-11	AEH-8705-11	5/13/1987	TRWASH
38	8705-12	AEH-8705-12	5/13/1987	ST-1
11	8705-131	AEH-8705-131	5/13/1987	LL-2
11	8705-132	AEH-8705-132	5/13/1987	LL-2
10	8705-133	AEH-8705-133	5/14/1987	LL-1
46	8710-3	AEH-8710-3	10/20/1987	TT-1
1	8710-5	AEH-8710-5	10/20/1987	AP-1
4	8710-6	AEH-8710-6	10/20/1987	AP-2
41	8710-10	AEH-8710-10	10/21/1987	ST-2
5	8710-11	AEH-8710-11	10/20/1987	AP-3
54	8710-13	AEH-8710-13	10/21/1987	ZP-1
24	8710-100	AEH-8710-100	10/20/1987	S-3
10	8711-11	AEH-8711-11	11/4/1987	LL-1
13	8711-12	AEH-8711-12	11/4/1987	LL-2
28	8711-14	AEH-8711-14	11/6/1987	SP-1
39	8711-24	AEH-8711-24	11/4/1987	ST-1

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<u>Page</u>	<u>Lab Sample ID</u>	<u>Sample ID</u>	<u>Sample Date</u>	<u>Station Name</u>
28	8711-25	AEH-8711-25	11/6/1987	SP-1
11	8711-51	AEH-8711-51	11/17/1987	LL-1
13	8711-52	AEH-8711-52	11/17/1987	LL-2
48	8711-53	AEH-8711-53	11/18/1987	TT-1
28	8711-54	AEH-8711-54	11/19/1987	SP-1
1	8711-55	AEH-8711-55	11/17/1987	AP-1
5	8711-56	AEH-8711-56	11/18/1987	AP-2
7	8711-57	AEH-8711-57	11/19/1987	AP-3
17	8711-58	AEH-8711-58	11/18/1987	S-1
20	8711-59	AEH-8711-59	11/18/1987	S-2
25	8711-60	AEH-8711-60	11/18/1987	S-3
39	8711-61	AEH-8711-61	11/17/1987	ST-1
41	8711-62	AEH-8711-62	11/19/1987	ST-2
55	8711-63	AEH-8711-63	11/17/1987	ZP-1
15	8711-64	AEH-8711-64	11/17/1987	LL-2
22	8711-65	AEH-8711-65	11/18/1987	S-2
7	8711-71	AEH-8711-71	11/19/1987	AP-3
5	8712-16	AEH-8712-16	11/30/1987	AP-2
19	8712-18	AEH-8712-18	11/30/1987	S-1
22	8712-19	AEH-8712-19	12/1/1987	S-2
22	8712-25	AEH-8712-25	12/1/1987	S-2
3	8712-75	AEH-8712-75	12/15/1987	AP-1
43	8712-82	AEH-8712-82	12/15/1987	ST-2
43	8712-84	AEH-8712-84	12/15/1987	ST-2
33	9305-119	EHC-9305-119	4/29/1993	SP-4
35	AEH-9111-378	AEH-9111-378	11/15/1991	SP-5
33	AEH-9111-379	AEH-9111-379	11/15/1991	SP-4
30	AEH-9111-380	AEH-9111-380	11/15/1991	SP-3
33	AEH-9204-122	AEH-9204-122	4/15/1992	SP-4
35	AEH-9204-123	AEH-9204-123	4/15/1992	SP-5
30	AEH-9204-135	AEH-9204-135	4/15/1992	SP-3
30	EHC-9305-118	EHC-9305-118	4/29/1993	SP-3
35	EHC-9305-120	EHC-9305-120	4/29/1993	SP-5
31	EHC-9311-152	EHC-9311-152	11/3/1993	SP-3
33	EHC-9311-153	EHC-9311-153	11/3/1993	SP-4
36	EHC-9311-154	EHC-9311-154	11/3/1993	SP-5
31	EHC-9405-156	EHC-9405-156	5/10/1994	SP-3
33	EHC-9405-157	EHC-9405-157	5/10/1994	SP-4
36	EHC-9405-158	EHC-9405-158	5/10/1994	SP-5
36	EHC-9411-158	EHC-9411-158	11/9/1994	SP-5
31	EHC-9411-165	EHC-9411-165	11/9/1994	SP-3
33	EHC-9411-166	EHC-9411-166	11/9/1994	SP-4
36	EHC-9505-157	EHC-9505-157	5/5/1995	SP-5

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## East Helena Water -Historical Plant Site Process Water Data

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34	EHC-9505-164	EHC-9505-164	5/5/1995	SP-4
31	EHC-9505-165	EHC-9505-165	5/5/1995	SP-3
31	EHC-9511-159	EHC-9511-159	11/6/1995	SP-3
34	EHC-9511-160	EHC-9511-160	11/6/1995	SP-4
36	EHC-9511-161	EHC-9511-161	11/6/1995	SP-5
31	EHC-9605-141	EHC-9605-141	5/7/1996	SP-3
34	EHC-9605-142	EHC-9605-142	5/7/1996	SP-4
36	EHC-9605-143	EHC-9605-143	5/7/1996	SP-5
32	EHC-9611-141	EHC-9611-141	11/6/1996	SP-3
34	EHC-9611-142	EHC-9611-142	11/6/1996	SP-4
37	EHC-9611-143	EHC-9611-143	11/6/1996	SP-5
32	EHC-9705-142	EHC-9705-142	5/2/1997	SP-3
34	EHC-9705-143	EHC-9705-143	5/2/1997	SP-4
37	EHC-9705-144	EHC-9705-144	5/2/1997	SP-5
32	EHC-9711-141	EHC-9711-141	11/3/1997	SP-3
34	EHC-9711-142	EHC-9711-142	11/3/1997	SP-4
37	EHC-9711-143	EHC-9711-143	11/3/1997	SP-5
32	EHC-9805-141	EHC-9805-141	5/4/1998	SP-3
35	EHC-9805-142	EHC-9805-142	5/4/1998	SP-4
37	EHC-9805-143	EHC-9805-143	5/4/1998	SP-5
32	EHC-9905-140	EHC-9905-140	5/7/1999	SP-3
35	EHC-9905-141	EHC-9905-141	5/7/1999	SP-4
37	EHC-9905-142	EHC-9905-142	5/7/1999	SP-5
57	H09050140-001	AEH-0905-135	5/6/2009	UPPER LAKE
52	L020928006	EHC-0211-225	11/7/2002	UPPER LAKE
50	S5403	AEH-8411-36-S	11/7/1984	UPPER LAKE
46	S5404	AEH-8411-43-S	11/8/1984	TT-1
44	S5464	AEH-8411-38-S	11/8/1984	TT-1
50	S5468	AEH-8411-40-S	11/7/1984	UPPER LAKE

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

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57	AEH-0905-135	H09050140-001	5/6/2009	UPPER LAKE
50	AEH-8411-36	84-10999	11/7/1984	UPPER LAKE
50	AEH-8411-36-S	S5403	11/7/1984	UPPER LAKE
44	AEH-8411-38	84-11003	11/8/1984	TT-1
44	AEH-8411-38-S	S5464	11/8/1984	TT-1
50	AEH-8411-40	84-11007	11/7/1984	UPPER LAKE
50	AEH-8411-40-S	S5468	11/7/1984	UPPER LAKE
44	AEH-8411-43	84-11011	11/8/1984	TT-1
46	AEH-8411-43-S	S5404	11/8/1984	TT-1
50	AEH-8504-309	85-2344	4/4/1985	UPPER LAKE
46	AEH-8504-311	85-2346	4/4/1985	TT-1
50	AEH-8506-507	85-4089	6/6/1985	UPPER LAKE
52	AEH-8506-507-D	85-4102	6/6/1985	UPPER LAKE
52	AEH-8506-528	85-4090	6/6/1985	UPPER LAKE
52	AEH-8506-528-D	85-4103	6/6/1985	UPPER LAKE
46	AEH-8506-530	85-4092	6/5/1985	TT-1
52	AEH-8508-736	85-6034	8/6/1985	UPPER LAKE
46	AEH-8508-738	85-6036	8/6/1985	TT-1
19	AEH-8612-20	8612-20	12/30/1986	S-2
19	AEH-8612-20	87-2	12/30/1986	S-2
3	AEH-8612-21	8612-21	12/30/1986	AP-2
3	AEH-8612-21	87-3	12/30/1986	AP-2
27	AEH-8612-22	8612-22	12/30/1986	SP-1
27	AEH-8612-22	87-4	12/30/1986	SP-1
15	AEH-8701-1	87-294	1/13/1987	S-1
38	AEH-8702-1	87-1222	2/20/1987	ST-1
4	AEH-8705-06	8705-06	5/14/1987	AP-2
4	AEH-8705-06	87-3368	5/14/1987	AP-2
27	AEH-8705-07	8705-07	5/13/1987	SP-1
27	AEH-8705-07	87-3325	5/13/1987	SP-1
30	AEH-8705-08	87-3326	5/13/1987	SP-2
30	AEH-8705-08	8705-08	5/13/1987	SP-2
19	AEH-8705-09	8705-09	5/14/1987	S-2
20	AEH-8705-09	87-3369	5/14/1987	S-2
15	AEH-8705-10	8705-10	5/14/1987	S-1
17	AEH-8705-10	87-3370	5/14/1987	S-1
44	AEH-8705-11	8705-11	5/13/1987	TRWASH
44	AEH-8705-11	87-3323	5/13/1987	TRWASH
38	AEH-8705-12	87-3327	5/13/1987	ST-1
38	AEH-8705-12	8705-12	5/13/1987	ST-1
11	AEH-8705-131	87-3328	5/13/1987	LL-2
11	AEH-8705-131	8705-131	5/13/1987	LL-2
11	AEH-8705-132	8705-132	5/13/1987	LL-2

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13	AEH-8705-132	87-3329	5/13/1987	LL-2
10	AEH-8705-133	87-3366	5/14/1987	LL-1
10	AEH-8705-133	8705-133	5/14/1987	LL-1
46	AEH-8707-106	87-5177	7/2/1987	TT-1
10	AEH-8710-1	87-9519	10/20/1987	LL-1
13	AEH-8710-2	87-9518	10/20/1987	LL-2
46	AEH-8710-3	8710-3	10/20/1987	TT-1
48	AEH-8710-3	87-9515	10/20/1987	TT-1
27	AEH-8710-4	87-9508	10/21/1987	SP-1
1	AEH-8710-5	87-9510	10/20/1987	AP-1
1	AEH-8710-5	8710-5	10/20/1987	AP-1
4	AEH-8710-6	87-9514	10/20/1987	AP-2
4	AEH-8710-6	8710-6	10/20/1987	AP-2
17	AEH-8710-8	87-9512	10/21/1987	S-1
20	AEH-8710-9	87-9516	10/20/1987	S-2
41	AEH-8710-10	87-9511	10/21/1987	ST-2
41	AEH-8710-10	8710-10	10/21/1987	ST-2
5	AEH-8710-11	87-9517	10/20/1987	AP-3
5	AEH-8710-11	8710-11	10/20/1987	AP-3
38	AEH-8710-12	87-9507	10/21/1987	ST-1
54	AEH-8710-13	8710-13	10/21/1987	ZP-1
54	AEH-8710-13	87-9509	10/21/1987	ZP-1
20	AEH-8710-14	87-9522	10/20/1987	S-2
24	AEH-8710-100	8710-100	10/20/1987	S-3
24	AEH-8710-100	87-9513	10/20/1987	S-3
41	AEH-8710-101	87-9586	10/21/1987	ST-2
10	AEH-8711-11	87-10007	11/4/1987	LL-1
10	AEH-8711-11	8711-11	11/4/1987	LL-1
13	AEH-8711-12	87-10008	11/4/1987	LL-2
13	AEH-8711-12	8711-12	11/4/1987	LL-2
48	AEH-8711-13	87-10026	11/4/1987	TT-1
27	AEH-8711-14	87-10280	11/6/1987	SP-1
28	AEH-8711-14	8711-14	11/6/1987	SP-1
1	AEH-8711-15	87-10009	11/4/1987	AP-1
4	AEH-8711-16	87-10025	11/4/1987	AP-2
7	AEH-8711-17	87-10024	11/4/1987	AP-3
17	AEH-8711-18	87-10278	11/6/1987	S-1
20	AEH-8711-19	87-10276	11/6/1987	S-2
24	AEH-8711-20	87-10277	11/6/1987	S-3
38	AEH-8711-21	87-10027	11/4/1987	ST-1
41	AEH-8711-22	87-10279	11/6/1987	ST-2
54	AEH-8711-23	87-10006	11/4/1987	ZP-1
38	AEH-8711-24	87-10010	11/4/1987	ST-1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

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28	AEH-8711-25	87-10281	11/6/1987	SP-1
28	AEH-8711-25	8711-25	11/6/1987	SP-1
10	AEH-8711-51	87-10551	11/17/1987	LL-1
11	AEH-8711-51	8711-51	11/17/1987	LL-1
13	AEH-8711-52	8711-52	11/17/1987	LL-2
13	AEH-8711-52	87-10552	11/17/1987	LL-2
48	AEH-8711-53	87-10556	11/18/1987	TT-1
48	AEH-8711-53	8711-53	11/18/1987	TT-1
28	AEH-8711-54	87-10565	11/19/1987	SP-1
28	AEH-8711-54	8711-54	11/19/1987	SP-1
1	AEH-8711-55	8711-55	11/17/1987	AP-1
1	AEH-8711-55	87-10554	11/17/1987	AP-1
4	AEH-8711-56	87-10561	11/18/1987	AP-2
5	AEH-8711-56	8711-56	11/18/1987	AP-2
7	AEH-8711-57	87-10562	11/19/1987	AP-3
7	AEH-8711-57	8711-57	11/19/1987	AP-3
17	AEH-8711-58	87-10557	11/18/1987	S-1
17	AEH-8711-58	8711-58	11/18/1987	S-1
20	AEH-8711-59	8711-59	11/18/1987	S-2
20	AEH-8711-59	87-10558	11/18/1987	S-2
24	AEH-8711-60	87-10560	11/18/1987	S-3
25	AEH-8711-60	8711-60	11/18/1987	S-3
39	AEH-8711-61	8711-61	11/17/1987	ST-1
39	AEH-8711-61	87-10555	11/17/1987	ST-1
41	AEH-8711-62	8711-62	11/19/1987	ST-2
41	AEH-8711-62	87-10564	11/19/1987	ST-2
54	AEH-8711-63	87-10550	11/17/1987	ZP-1
55	AEH-8711-63	8711-63	11/17/1987	ZP-1
15	AEH-8711-64	8711-64	11/17/1987	LL-2
15	AEH-8711-64	87-10553	11/17/1987	LL-2
22	AEH-8711-65	8711-65	11/18/1987	S-2
22	AEH-8711-65	87-10559	11/18/1987	S-2
7	AEH-8711-71	87-10563	11/19/1987	AP-3
7	AEH-8711-71	8711-71	11/19/1987	AP-3
11	AEH-8712-11	87-11022	11/30/1987	LL-1
15	AEH-8712-12	87-11023	11/30/1987	LL-2
48	AEH-8712-13	87-11033	12/1/1987	TT-1
28	AEH-8712-14	87-11036	12/1/1987	SP-1
1	AEH-8712-15	87-11024	11/30/1987	AP-1
5	AEH-8712-16	87-11027	11/30/1987	AP-2
5	AEH-8712-16	8712-16	11/30/1987	AP-2
7	AEH-8712-17	87-11035	12/1/1987	AP-3

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19	AEH-8712-18	8712-18	11/30/1987	S-1
22	AEH-8712-19	8712-19	12/1/1987	S-2
22	AEH-8712-19	87-11030	12/1/1987	S-2
25	AEH-8712-20	87-11032	12/1/1987	S-3
39	AEH-8712-21	87-11028	11/30/1987	ST-1
43	AEH-8712-22	87-11034	12/1/1987	ST-2
55	AEH-8712-23	87-11026	11/30/1987	ZP-1
3	AEH-8712-24	87-11025	11/30/1987	AP-1
22	AEH-8712-25	8712-25	12/1/1987	S-2
22	AEH-8712-25	87-11031	12/1/1987	S-2
48	AEH-8712-73	87-11448	12/15/1987	TT-1
3	AEH-8712-75	8712-75	12/15/1987	AP-1
3	AEH-8712-75	87-11444	12/15/1987	AP-1
19	AEH-8712-78	87-11449	12/15/1987	S-1
24	AEH-8712-79	87-11450	12/15/1987	S-2
25	AEH-8712-80	87-11451	12/15/1987	S-3
39	AEH-8712-81	87-11445	12/15/1987	ST-1
43	AEH-8712-82	87-11446	12/15/1987	ST-2
43	AEH-8712-82	8712-82	12/15/1987	ST-2
43	AEH-8712-84	8712-84	12/15/1987	ST-2
43	AEH-8712-84	87-11447	12/15/1987	ST-2
25	AEH-8712-85	87-11454	12/15/1987	S-3
25	AEH-8808-200	88-5018	8/3/1988	SHOWER
54	AEH-8808-201	88-5017	8/3/1988	WASHER
9	AEH-8808-300	88-5580	8/23/1988	EHSI
9	AEH-8808-301	88-5581	8/23/1988	EHSE
9	AEH-8808-302	88-5582	8/23/1988	EHSE
35	AEH-9111-378	AEH-9111-378	11/15/1991	SP-5
33	AEH-9111-379	AEH-9111-379	11/15/1991	SP-4
30	AEH-9111-380	AEH-9111-380	11/15/1991	SP-3
33	AEH-9204-122	AEH-9204-122	4/15/1992	SP-4
35	AEH-9204-123	AEH-9204-123	4/15/1992	SP-5
30	AEH-9204-135	AEH-9204-135	4/15/1992	SP-3
52	EHC-0211-225	L020928006	11/7/2002	UPPER LAKE
9	EHC-9305-107	93-7720	4/28/1993	APTF
30	EHC-9305-118	EHC-9305-118	4/29/1993	SP-3
33	EHC-9305-119	9305-119	4/29/1993	SP-4
35	EHC-9305-120	EHC-9305-120	4/29/1993	SP-5
31	EHC-9311-152	EHC-9311-152	11/3/1993	SP-3
33	EHC-9311-153	EHC-9311-153	11/3/1993	SP-4
36	EHC-9311-154	EHC-9311-154	11/3/1993	SP-5
31	EHC-9405-156	EHC-9405-156	5/10/1994	SP-3

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## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

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36	EHC-9405-158	EHC-9405-158	5/10/1994	SP-5
36	EHC-9411-158	EHC-9411-158	11/9/1994	SP-5
31	EHC-9411-165	EHC-9411-165	11/9/1994	SP-3
33	EHC-9411-166	EHC-9411-166	11/9/1994	SP-4
36	EHC-9505-157	EHC-9505-157	5/5/1995	SP-5
34	EHC-9505-164	EHC-9505-164	5/5/1995	SP-4
31	EHC-9505-165	EHC-9505-165	5/5/1995	SP-3
31	EHC-9511-159	EHC-9511-159	11/6/1995	SP-3
34	EHC-9511-160	EHC-9511-160	11/6/1995	SP-4
36	EHC-9511-161	EHC-9511-161	11/6/1995	SP-5
31	EHC-9605-141	EHC-9605-141	5/7/1996	SP-3
34	EHC-9605-142	EHC-9605-142	5/7/1996	SP-4
36	EHC-9605-143	EHC-9605-143	5/7/1996	SP-5
32	EHC-9611-141	EHC-9611-141	11/6/1996	SP-3
34	EHC-9611-142	EHC-9611-142	11/6/1996	SP-4
37	EHC-9611-143	EHC-9611-143	11/6/1996	SP-5
32	EHC-9705-142	EHC-9705-142	5/2/1997	SP-3
34	EHC-9705-143	EHC-9705-143	5/2/1997	SP-4
37	EHC-9705-144	EHC-9705-144	5/2/1997	SP-5
32	EHC-9711-141	EHC-9711-141	11/3/1997	SP-3
34	EHC-9711-142	EHC-9711-142	11/3/1997	SP-4
37	EHC-9711-143	EHC-9711-143	11/3/1997	SP-5
32	EHC-9805-141	EHC-9805-141	5/4/1998	SP-3
35	EHC-9805-142	EHC-9805-142	5/4/1998	SP-4
37	EHC-9805-143	EHC-9805-143	5/4/1998	SP-5
32	EHC-9905-140	EHC-9905-140	5/7/1999	SP-3
35	EHC-9905-141	EHC-9905-141	5/7/1999	SP-4
37	EHC-9905-142	EHC-9905-142	5/7/1999	SP-5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

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# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	AP-1	AP-1	AP-1	AP-1	AP-1	AP-1	
Unknown	SAMPLE DATE	10/20/1987	10/20/1987	11/4/1987	11/17/1987	11/17/1987	11/30/1987	
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00	
	LAB	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC	RMAL	TSC-SLC	
	LAB NUMBER	8710-5	87-9510	87-10009	87-10554	8711-55	87-11024	
	SAMPLE NUMBER	AEH-8710-5	AEH-8710-5	AEH-8711-15	AEH-8711-55	AEH-8711-55	AEH-8712-15	
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water	
	GROUP	RI	RI	RI	RI	RI	RI	
	DESCRIPTION							
	REMARKS	Split				Split		

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)	91 M	110	110 M	60 J		110 J
Calcium (Ca) (DIS)	29.5	34	38	194 J	102	82.5 J
Carbonate As CO3	<5 M	<1	<1 M	<1		<1
Chloride (Cl)	3.9	5	3	29 J		7.4 J
Magnesium (Mg) (DIS)	7	7.1	7.3	41 J	23.6	18 J
Potassium (K) (DIS)	2.3	3.3	3.4	24.9 J	12.7	11 J
Sodium (Na) (DIS)	16.7 M	16.2	16.7	110 J	78.6	46.5
Sulfate (SO4)	49	57	62	700 J		291 J

**Metals: ppm unless noted**

Aluminum (Al) (TOT)					0.05	
Antimony (Sb) (DIS)					0.05	
Arsenic (As) (DIS)	0.07	0.04 M	0.04		0.4	0.3
Arsenic (As) (TOT)	0.07	0.06	0.04		0.4	0.4
Barium (Ba) (DIS)					0.05	
Barium (Ba) (TOT)					0.06	
Beryllium (Be) (DIS)					<0.001	
Beryllium (Be) (TOT)					<0.001	
Cadmium (Cd) (DIS)	0.009	0.01	0.004		0.2	0.1
Cadmium (Cd) (TOT)	0.02	0.02	0.008		0.2	0.1 J
Chromium (Cr) (DIS)					<0.005	
Chromium (Cr) (TOT)					<0.005	
Cobalt (Co) (DIS)					<0.006	
Cobalt (Co) (TOT)					<0.006	
Copper (Cu) (DIS)	0.02	0.04 M	<0.008		0.02	0.02
Copper (Cu) (TOT)	0.04	0.05	0.02 M		0.05 J	0.05 J
Iron (Fe) (DIS)	0.06	0.07	0.07		0.08	0.08
Iron (Fe) (TOT)	0.3	0.4	0.5		0.3	0.2 J
Lead (Pb) (DIS)	0.02 M	0.006	0.01		0.1	0.06 J
Lead (Pb) (TOT)	0.3 M	0.3	0.2		0.3	0.3 J
Manganese (Mn) (DIS)	0.04	0.04 M	0.01		0.05	0.04 J
Manganese (Mn) (TOT)	0.04	0.04 M	0.04		0.08	0.04 J
Mercury (Hg) (DIS)					<0.0002	
Mercury (Hg) (TOT)					0.002	
Nickel (Ni) (DIS)					<0.007	
Nickel (Ni) (TOT)					<0.007 J	
Silver (Ag) (DIS)					<0.005	
Silver (Ag) (TOT)					<0.005	
Vanadium (V) (DIS)					0.002	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	AP-1	AP-1	AP-1	AP-1	AP-1	AP-1
Unknown	SAMPLE DATE	10/20/1987	10/20/1987	11/4/1987	11/17/1987	11/17/1987	11/30/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC	RMAL	TSC-SLC
	LAB NUMBER	8710-5	87-9510	87-10009	87-10554	8711-55	87-11024
	SAMPLE NUMBER	AEH-8710-5	AEH-8710-5	AEH-8711-15	AEH-8711-55	AEH-8711-55	AEH-8712-15
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split				Split	

**Metals: ppm unless noted**

Vanadium (V) (TOT)						0.003	
Zinc (Zn) (DIS)	0.06 M	0.06	0.05			0.3 J	0.1
Zinc (Zn) (TOT)	0.1 M	0.1	0.1			0.4 J	0.2 J

**Physical/Fid-Lab: ppm unless noted**

pH		8.02	8.01	7.7			8.2
pH (Fid)	8.6	8.6	6.5 M	8	8		8.5
SC (umhos/cm at 25 C) (Fid)	292	291.6	296.1	1316 J			728.4
SC (umhos/cm at 25 C)		300	305	1400 J			700 J
Total Suspended Solids		3.6	6	19.8			7.5 J
TDS (Measured at 180 C)	190	215.4	203	1280 J			613.6 J
Water Temperature (C) (Fid)	11	11	11	8.7	8.7		25.2 J

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	AP-1	AP-1	AP-1	AP-2	AP-2
Unknown	SAMPLE DATE	11/30/1987	12/15/1987	12/15/1987	12/30/1986	12/30/1986
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	WYRHR	CHMTC	TSC-SLC
	LAB NUMBER	87-11025	87-11444	8712-75	8612-21	87-3
	SAMPLE NUMBER	AEH-8712-24	AEH-8712-75	AEH-8712-75	AEH-8612-21	AEH-8612-21
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Field Duplicate		Split	Split	

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)	88	112 J	74	<5	<1.2
Calcium (Ca) (DIS)	108	39.5	42.9	11.5	12
Carbonate As CO3	<1	<1 J	<5		<1
Chloride (Cl)	12	9.7	9.4	4300	2875
Magnesium (Mg) (DIS)	25	11.1	10.2	2	1.9
Potassium (K) (DIS)	15.3	5.3	5.1		63
Sodium (Na) (DIS)	55	37	31.1	480	600
Sulfate (SO4)	440	102	100	2270	2675

**Metals: ppm unless noted**

Arsenic (As) (DIS)	0.3	0.1	0.1	2400	2750
Arsenic (As) (TOT)	0.3	0.1	0.2	2710	2800
Cadmium (Cd) (DIS)	0.1	0.03	0.03	407	550
Cadmium (Cd) (TOT)	0.2	0.03	0.05	487	550
Copper (Cu) (DIS)	0.02	0.008 J	0.01	0.03	0.01
Copper (Cu) (TOT)	0.07	0.07 J	0.07	0.04	0.02
Iron (Fe) (DIS)	0.07	0.09	0.09	10.4	8.3
Iron (Fe) (TOT)	0.3	0.8	0.9	11.9	8.3
Lead (Pb) (DIS)	0.09	0.02	0.04	9.4	19
Lead (Pb) (TOT)	0.4 J	0.3	0.4	8.4	24
Manganese (Mn) (DIS)	0.06	0.01 J	0.02	0.4	0.3
Manganese (Mn) (TOT)	0.06	0.08 J	0.08	0.5	0.4
Zinc (Zn) (DIS)	0.1	0.07	0.08	129	145
Zinc (Zn) (TOT)	0.3	0.2	0.2	142	145

**Physical/Fid-Lab: ppm unless noted**

pH	8.08	7.6			1.7
pH (Fid)	8.5	8	8		
SC (umhos/cm at 25 C) (Fid)		446.9	445.5		21149
SC (umhos/cm at 25 C)	900	418			25000
Total Suspended Solids	16	9.6			
TDS (Measured at 180 C)	805.2	318.4 J	370		9961
Water Temperature (C) (Fid)	25.2	5.6	5.6		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	AP-2	AP-2	AP-2	AP-2	AP-2	AP-2
Unknown	SAMPLE DATE	5/14/1987	5/14/1987	10/20/1987	10/20/1987	11/4/1987	11/18/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	CHMTC	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8705-06	87-3368	8710-6	87-9514	87-10025	87-10561
	SAMPLE NUMBER	AEH-8705-06	AEH-8705-06	AEH-8710-6	AEH-8710-6	AEH-8711-16	AEH-8711-56
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split		Split			

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)		<1	<5 M	<1	<1	<1
Calcium (Ca) (DIS)	20	19.5	12.4	13.2	22	22
Carbonate As CO3		<1	<5 M	<1	<1	<1
Chloride (Cl)	2000	900	1200	1600	1055	962
Magnesium (Mg) (DIS)	3.1	0.6	2.5	2.6	4	4.3
Potassium (K) (DIS)	25.2	34.1	54.5	76 M	26	27
Sodium (Na) (DIS)	848	1100	599 M	560	900	585
Sulfate (SO4)	2156	5000	2200	3950	3720 M	2460 J
Total Alkalinity As CaCO3	<30					

**Metals: ppm unless noted**

Arsenic (As) (DIS)	2590	2867	1820	1803	1625	2667
Arsenic (As) (TOT)	3475	3000	1670 M	1960	1625	2300 J
Cadmium (Cd) (DIS)	147	153	229	235	110	123
Cadmium (Cd) (TOT)	145	167.5	284	275	112.5	110 J
Copper (Cu) (DIS)	0.1	0.08	0.01	0.05	0.02	0.02
Copper (Cu) (TOT)	0.1	0.2	1	3.7 M	0.08	0.1
Iron (Fe) (DIS)	22.8	20	40.3	41.7 M	168 M	18.7
Iron (Fe) (TOT)	21	23	40.3	47	177.5 M	17.6
Lead (Pb) (DIS)	8.1	8	25.5 M	25	6.8 M	21.5
Lead (Pb) (TOT)	11.6	17.5	449 M	843 M	16.08 M	20.7
Manganese (Mn) (DIS)	0.7	0.5	0.5	0.4 M	0.9	0.6
Manganese (Mn) (TOT)	0.7	0.7	0.5	0.4 M	0.9	0.6
Zinc (Zn) (DIS)	52	51.7	58.4 M	55.7	16.3	21.7 J
Zinc (Zn) (TOT)	5.1	57.5	58.4 M	62.3	17.5	19.7 J

**Physical/Fid-Lab: ppm unless noted**

pH		1.7		1.6	1.8 M	1.7
pH (Fid)	1.7	1.7	1.3	1.3	1.8	2
SC (umhos/cm at 25 C) (Fid)	20412	20412	16755.2	16740	14054	14510
SC (umhos/cm at 25 C)		21000		18000	14100	16200
Total Suspended Solids		198		496.4 M	42.8	108
TDS (Measured at 180 C)	11577	7360	7780	6060	5955	8401 J
Water Temperature (C) (Fid)	31.5	31.5	40	40	24 M	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	AP-2	AP-2	AP-2	AP-3	AP-3
Unknown	SAMPLE DATE	11/18/1987	11/30/1987	11/30/1987	10/20/1987	10/20/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	RMAL	TSC-SLC	WYRHR	WYRHR	TSC-SLC
	LAB NUMBER	8711-56	87-11027	8712-16	8710-11	87-9517
	SAMPLE NUMBER	AEH-8711-56	AEH-8712-16	AEH-8712-16	AEH-8710-11	AEH-8710-11
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Split		Split	Split	

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)		<1	<5		79	106
Calcium (Ca) (DIS)	31.1 J	19	17.6 J		129	156 M
Carbonate As CO3		<1	<5		<5	<1
Chloride (Cl)		1470 J	3		69	65
Magnesium (Mg) (DIS)	7.8 J	3.6	3.6 J		16.8	18.2
Potassium (K) (DIS)	23.6	14.2	9 J		49.7	57.2
Sodium (Na) (DIS)	644	320	345 J		210 M	258
Sulfate (SO4)		3000	2000		690	690

**Metals: ppm unless noted**

Aluminum (Al) (DIS)	<0.8					
Aluminum (Al) (TOT)	1.7					
Antimony (Sb) (DIS)	26.3					
Antimony (Sb) (TOT)	28.3					
Arsenic (As) (DIS)	2970	2200	1920		15.1 M	16.8
Arsenic (As) (TOT)	2370 J	2050 J	1700 J		17	18.3
Barium (Ba) (DIS)	<0.1					
Barium (Ba) (TOT)	<0.1					
Beryllium (Be) (DIS)	<0.04					
Beryllium (Be) (TOT)	<0.04					
Cadmium (Cd) (DIS)	118	37.5	43.8		0.5	0.4
Cadmium (Cd) (TOT)	111 J	37.5	42.6 J		0.7	0.7
Chromium (Cr) (DIS)	<0.2					
Chromium (Cr) (TOT)	<0.2					
Cobalt (Co) (DIS)	<0.2					
Cobalt (Co) (TOT)	<0.2					
Copper (Cu) (DIS)	0.4 J	0.02	0.01		0.03	0.02
Copper (Cu) (TOT)	0.4 J	0.1	0.1		0.2	0.2
Iron (Fe) (DIS)	25.2 J	29.3	39.6 J		0.04	0.06
Iron (Fe) (TOT)	24.4 J	42.5	36.6		1.2 M	0.8
Lead (Pb) (DIS)	23.1	10	11.4		0.03 M	0.05
Lead (Pb) (TOT)	26.2	17.3	20.7		2.2 M	2.5
Manganese (Mn) (DIS)	0.8	0.4	0.5		3.6	2.9 M
Manganese (Mn) (TOT)	0.7	0.4	0.5		3.8	3.3 M
Mercury (Hg) (DIS)	0.007					
Mercury (Hg) (TOT)	4.8					
Nickel (Ni) (DIS)	<0.3					
Nickel (Ni) (TOT)	<0.3 J					
Silver (Ag) (DIS)	<0.2					

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	AP-2	AP-2	AP-2	AP-3	AP-3
Unknown	SAMPLE DATE	11/18/1987	11/30/1987	11/30/1987	10/20/1987	10/20/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	RMAL	TSC-SLC	WYRHR	WYRHR	TSC-SLC
	LAB NUMBER	8711-56	87-11027	8712-16	8710-11	87-9517
	SAMPLE NUMBER	AEH-8711-56	AEH-8712-16	AEH-8712-16	AEH-8710-11	AEH-8710-11
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Split		Split	Split	

**Metals: ppm unless noted**

Silver (Ag) (TOT)	<0.2					
Vanadium (V) (DIS)	<0.08					
Vanadium (V) (TOT)	<0.08					
Zinc (Zn) (DIS)	22.2 J	7.2	7.5		1.4 M	1.3
Zinc (Zn) (TOT)	21.4 J	6.6 J	7.2 J		2.3 M	2.4

**Physical/Fld-Lab: ppm unless noted**

pH		1.6				7.6 M
pH (Fld)	2	1.8	1.8		7.3	7.3
SC (umhos/cm at 25 C) (Fld)	14026.9	16000	15727		1819.2	1820
SC (umhos/cm at 25 C)		18000				1820
Total Suspended Solids		86				21.3
TDS (Measured at 180 C)		4150	4800		1340	1486
Water Temperature (C) (Fld)		33.2	33.2		10	10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	AP-3	AP-3	AP-3	AP-3	AP-3	AP-3
Unknown	SAMPLE DATE	11/4/1987	11/19/1987	11/19/1987	11/19/1987	11/19/1987	12/1/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	RMAL	TSC-SLC	RMAL	TSC-SLC
	LAB NUMBER	87-10024	87-10562	8711-57	87-10563	8711-71	87-11035
	SAMPLE NUMBER	AEH-8711-17	AEH-8711-57	AEH-8711-57	AEH-8711-71	AEH-8711-71	AEH-8712-17
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Split	Field Duplicate	Field Duplicate	

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)	96	49		51		65
Calcium (Ca) (DIS)	144	150	133 J	154	131 J	143
Carbonate As CO3	<1	19		16		23
Chloride (Cl)	85	86		85		88
Magnesium (Mg) (DIS)	18.1	19	17.8 J	18.6	17.6 J	17
Potassium (K) (DIS)	63	61	50.3 J	62	50.2 J	60
Sodium (Na) (DIS)	228	236	201 J	230	198 J	229
Sulfate (SO4)	791 M	708 J		790 J		720
Total Alkalinity As CaCO3		72		68		

**Metals: ppm unless noted**

Aluminum (Al) (DIS)			<0.02		<0.02	
Aluminum (Al) (TOT)			0.08		0.05	
Antimony (Sb) (DIS)			0.5		0.4	
Antimony (Sb) (TOT)			0.5		0.5	
Arsenic (As) (DIS)	19.3		18.6		18.3	18.8
Arsenic (As) (TOT)	23.3 M		19.4		17 J	20
Barium (Ba) (DIS)			0.07		0.07	
Barium (Ba) (TOT)			0.07		0.06	
Beryllium (Be) (DIS)			<0.001		<0.001	
Beryllium (Be) (TOT)			<0.001		<0.001	
Cadmium (Cd) (DIS)	0.3		0.1		0.1	0.03
Cadmium (Cd) (TOT)	1.8 M		0.8		0.8	0.4
Chromium (Cr) (DIS)			<0.005		<0.005	
Chromium (Cr) (TOT)			<0.005		<0.005	
Cobalt (Co) (DIS)			0.1		0.1	
Cobalt (Co) (TOT)			0.2		0.1	
Copper (Cu) (DIS)	0.02		0.01		0.01	0.02
Copper (Cu) (TOT)	0.2		0.1 J		0.09 J	0.3
Iron (Fe) (DIS)	0.04		<0.03		<0.03	0.05
Iron (Fe) (TOT)	0.9		0.7		0.6	1
Lead (Pb) (DIS)	0.01		<0.01 J		<0.01 J	0.02
Lead (Pb) (TOT)	1.8		1.7		1.6	4.06
Manganese (Mn) (DIS)	2.7		3.3		3.3	1.6
Manganese (Mn) (TOT)	3.2		3.8		3.8	2.1
Mercury (Hg) (DIS)			0.0003		0.0003	
Mercury (Hg) (TOT)			0.001		0.001	
Nickel (Ni) (DIS)			0.05		0.05	
Nickel (Ni) (TOT)			0.07 J		0.07 J	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	AP-3	AP-3	AP-3	AP-3	AP-3	AP-3
Unknown	SAMPLE DATE	11/4/1987	11/19/1987	11/19/1987	11/19/1987	11/19/1987	12/1/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	RMAL	TSC-SLC	RMAL	TSC-SLC
	LAB NUMBER	87-10024	87-10562	8711-57	87-10563	8711-71	87-11035
	SAMPLE NUMBER	AEH-8711-17	AEH-8711-57	AEH-8711-57	AEH-8711-71	AEH-8711-71	AEH-8712-17
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS			Split	Field Duplicate	Field Duplicate	

**Metals: ppm unless noted**

Silver (Ag) (DIS)				<0.005		<0.005	
Silver (Ag) (TOT)				0.006		0.006	
Vanadium (V) (DIS)				<0.002		<0.002	
Vanadium (V) (TOT)				<0.002		<0.002	
Zinc (Zn) (DIS)	0.1			0.1		0.1 J	0.02
Zinc (Zn) (TOT)	2.3			1.5		1.4	1.03

**Physical/Fld-Lab: ppm unless noted**

pH	8.2	9		9.01		9.04	
pH (Fld)	8.6	8.8		8.6	8.8	9.2	
SC (umhos/cm at 25 C) (Fld)	1816	1839	1839	1854	1853.5	1874	
SC (umhos/cm at 25 C)	1910	1890		1800		1770	
Total Suspended Solids	46.4 M	29		30		34	
TDS (Measured at 180 C)	1384	1468 J		1445 J		1426	
Water Temperature (C) (Fld)	10.6		4.2	4.2		5.3	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	APTF	EHSE	EHSE	EHSE
Unknown	SAMPLE DATE	4/28/1993	8/23/1988	8/23/1988	8/23/1988
	SAMPLE TIME	16:30	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	93-7720	88-5581	88-5582	88-5580
	SAMPLE NUMBER	EHC-9305-107	AEH-8808-301	AEH-8808-302	AEH-8808-300
	TYPE	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS				

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)		171		226
Calcium (Ca) (Dis)	489 J	35		38
Carbonate As CO3		<1		<1
Chloride (Cl)	405	65		64
Magnesium (Mg) (Dis)	63 J	8		8.6
Potassium (K) (Dis)	59	11		11
Sodium (Na) (Dis)	345 J	40		47
Sulfate (SO4)	2309	24		20
Total Hardness As CaCO3	1480			

**Metals: ppm unless noted**

Arsenic (As) (DIS)	223			
Arsenic (As) (TOT)	247	0.2	0.2	0.2
Cadmium (Cd) (DIS)	51			
Cadmium (Cd) (TOT)	54.5	0.001	0.001	0.008
Copper (Cu) (DIS)	0.05			
Copper (Cu) (TOT)	0.4	0.05	0.05	0.1
Iron (Fe) (TOT)		0.2	0.2	0.4
Lead (Pb) (DIS)	0.5			
Lead (Pb) (TOT)	2.1	0.02	0.01	0.05
Manganese (Mn) (TOT)		0.03	0.02	0.02
Zinc (Zn) (DIS)	52			
Zinc (Zn) (TOT)	56	0.03	0.03	0.2

**Physical/Fid-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)	3.8			
pH		7.6		7.5
pH (Fld)	4.4			
SC (umhos/cm at 25 C) (Fld)	4730			
SC (umhos/cm at 25 C)	4600	600		620
Total Suspended Solids		18		72
TDS (Measured at 180 C)	4633	314		412.5
Water Temperature (C) (Fld)	13.6			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LL-1	LL-1	LL-1	LL-1	LL-1	LL-1
Unknown	SAMPLE DATE	5/14/1987	5/14/1987	10/20/1987	11/4/1987	11/4/1987	11/17/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	CHMTC	TSC-SLC	TSC-SLC	TSC-SLC	WYRHR	TSC-SLC
	LAB NUMBER	8705-133	87-3366	87-9519	87-10007	8711-11	87-10551
	SAMPLE NUMBER	AEH-8705-133	AEH-8705-133	AEH-8710-1	AEH-8711-11	AEH-8711-11	AEH-8711-51
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split				Split	

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)		106	109	48 M	37	63
Calcium (Ca) (DIS)	110	106	146	170	154	198
Carbonate As CO3		<1	<1	<1 M	<5	<1
Chloride (Cl)	105	103	65 M	103	100	79
Magnesium (Mg) (DIS)	15.7	15.7	18.8	20.2	18.8	21.5
Potassium (K) (DIS)	54	39.7	61	70	62.7	81.5 J
Sodium (Na) (DIS)	188	200	236 M	226	224	222
Sulfate (SO4)	516	560	800	876 M	790	790 J
Total Alkalinity As CaCO3	84					

**Metals: ppm unless noted**

Arsenic (As) (DIS)	15.3	16.3	16.6	18	16.8
Arsenic (As) (TOT)	14.7	17.2	19.8	23.8	22.1
Cadmium (Cd) (DIS)	0.05	0.2	0.4	2.3	2.4
Cadmium (Cd) (TOT)	0.4	0.4	0.8	4.8	5.09
Copper (Cu) (DIS)	0.02	0.1	0.05 M	0.01	0.01
Copper (Cu) (TOT)	0.1	0.1	1.03	2.9	2.8
Iron (Fe) (DIS)	<0.1	0.1	0.1	0.3	0.5
Iron (Fe) (TOT)	0.7	0.6	2.5	7.5 M	11.2 M
Lead (Pb) (DIS)	0.05	0.1 M	0.5 M	0.005	0.004
Lead (Pb) (TOT)	0.9	0.9 M	12.3	46.3 M	45.9
Manganese (Mn) (DIS)	3.4	1.9	2.8 M	4.4	5.8
Manganese (Mn) (TOT)	3.8	2.4	3.1 M	6.3	6.5
Zinc (Zn) (DIS)	0.1	0.2	1.4	8.1	7.6
Zinc (Zn) (TOT)	1.3	1.2	3.9	19	17.4

**Physical/Fid-Lab: ppm unless noted**

pH		7.8	7.8	7.6		7.5
Depth To Water Level (ft)			1.3			
pH (Fid)	8.3	8.3	8.2	6.9	6.9	7.07
SC (umhos/cm at 25 C) (Fid)	1599	1599	1895	2032	2030.8	2063
SC (umhos/cm at 25 C)		1580	1900	2060		2110
Total Suspended Solids		44.7	59.2	262		214
TDS (Measured at 180 C)	1306	1122	1550	1727	1540	1725 J
Water Temperature (C) (Fid)	21	21	10	10.8	10.8	5.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LL-1	LL-1	LL-2	LL-2	LL-2
Unknown	SAMPLE DATE	11/17/1987	11/30/1987	5/13/1987	5/13/1987	5/13/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	RMAL	TSC-SLC	CHMTC	TSC-SLC	CHMTC
	LAB NUMBER	8711-51	87-11022	8705-131	87-3328	8705-132
	SAMPLE NUMBER	AEH-8711-51	AEH-8712-11	AEH-8705-131	AEH-8705-131	AEH-8705-132
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Split		Split		Field Duplicate

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)		134		112	
Calcium (Ca) (DIS)	179 J	146	109	100	116
Carbonate As CO3		8.4 J		<1	
Chloride (Cl)		98	95	97	
Magnesium (Mg) (DIS)	21.1	17.9	15.4	15.6	16.3
Potassium (K) (DIS)	65.7 J	61.3	50.8	39	20.5
Sodium (Na) (DIS)	215	218	180	197	174
Sulfate (SO4)		750	548	620	
Total Alkalinity As CaCO3		124	80		

**Metals: ppm unless noted**

Aluminum (Al) (DIS)	<0.02				
Aluminum (Al) (TOT)	0.5				
Antimony (Sb) (DIS)	0.5				
Antimony (Sb) (TOT)	1.7				
Arsenic (As) (DIS)	15.4	23.5 J	14.8	15.3	15.2
Arsenic (As) (TOT)	21.2	25	18	17.5	17.8
Barium (Ba) (DIS)	0.06				
Barium (Ba) (TOT)	0.1				
Beryllium (Be) (DIS)	<0.001				
Beryllium (Be) (TOT)	<0.001				
Cadmium (Cd) (DIS)	2.8	0.07	0.04	0.05	0.04
Cadmium (Cd) (TOT)	5	0.5	0.6	0.6	0.6
Chromium (Cr) (DIS)	<0.005				
Chromium (Cr) (TOT)	0.01				
Cobalt (Co) (DIS)	0.5				
Cobalt (Co) (TOT)	0.6				
Copper (Cu) (DIS)	<0.009	0.02	0.04	0.02	0.03
Copper (Cu) (TOT)	2.6	0.4	0.2	0.7	0.2
Iron (Fe) (DIS)	1.5 J	0.05	<0.1	0.03	<0.1
Iron (Fe) (TOT)	11.2	1.6	0.8	1.3	0.9
Lead (Pb) (DIS)	<0.01 J	0.01	0.02	0.007	0.006
Lead (Pb) (TOT)	48.3	6.2	1.1	1.8	1.4
Manganese (Mn) (DIS)	9.9 J	1.7	3.5	1.8	3.5
Manganese (Mn) (TOT)	10.5 J	2.3	4.05	2.6	4.3
Mercury (Hg) (DIS)	0.0003 J				
Mercury (Hg) (TOT)	0.2				
Nickel (Ni) (DIS)	0.2				
Nickel (Ni) (TOT)	0.3				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LL-1	LL-1	LL-2	LL-2	LL-2
Unknown	SAMPLE DATE	11/17/1987	11/30/1987	5/13/1987	5/13/1987	5/13/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	RMAL	TSC-SLC	CHMTC	TSC-SLC	CHMTC
	LAB NUMBER	8711-51	87-11022	8705-131	87-3328	8705-132
	SAMPLE NUMBER	AEH-8711-51	AEH-8712-11	AEH-8705-131	AEH-8705-131	AEH-8705-132
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Split		Split		Field Duplicate

**Metals: ppm unless noted**

Silver (Ag) (DIS)	<0.005				
Silver (Ag) (TOT)	0.4				
Vanadium (V) (DIS)	<0.002				
Vanadium (V) (TOT)	<0.002				
Zinc (Zn) (DIS)	14 J	0.05		0.1	0.09
Zinc (Zn) (TOT)	23.2	1.6		1.9	2.2

**Physical/Fld-Lab: ppm unless noted**

pH		8.3 J		8.08	
pH (Fld)	7.07	8.7 J		8.8	8.4
SC (umhos/cm at 25 C) (Fld)		1903		1588	1589
SC (umhos/cm at 25 C)		1790		1588	1550
Total Suspended Solids		39.3			78
TDS (Measured at 180 C)		1536		1238	1114
Water Temperature (C) (Fld)	5.4	6.5		18.7	18.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LL-2	LL-2	LL-2	LL-2	LL-2	LL-2
Unknown	SAMPLE DATE	5/13/1987	10/20/1987	11/4/1987	11/4/1987	11/17/1987	11/17/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	WYRHR	TSC-SLC	RMAL
	LAB NUMBER	87-3329	87-9518	87-10008	8711-12	87-10552	8711-52
	SAMPLE NUMBER	AEH-8705-132	AEH-8710-2	AEH-8711-12	AEH-8711-12	AEH-8711-52	AEH-8711-52
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Split		Split

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)		102	<1 M	62	41	
Calcium (Ca) (DIS)		146	156	131 M	150	126 J
Carbonate As CO3		<1	<1 M	<5	16	
Chloride (Cl)		65 M	89	83	86	
Magnesium (Mg) (DIS)		18.8	18.9	17 M	19.2	17.2 J
Potassium (K) (DIS)		58.5	64	53.9 M	62	49.5 J
Sodium (Na) (DIS)		240	228	205 M	234	192 J
Sulfate (SO4)		660	766	640	730 J	
Total Alkalinity As CaCO3					60	

**Metals: ppm unless noted**

Aluminum (Al) (DIS)						<0.02
Aluminum (Al) (TOT)						0.04
Antimony (Sb) (DIS)						0.4
Antimony (Sb) (TOT)						0.5
Arsenic (As) (DIS)	15	17.1	19.3	18.2 M		17.4
Arsenic (As) (TOT)	17.2	18.8	23.3 M	19.6		16.5
Barium (Ba) (DIS)						0.07
Barium (Ba) (TOT)						0.06 J
Beryllium (Be) (DIS)						<0.001
Beryllium (Be) (TOT)						<0.001
Cadmium (Cd) (DIS)	0.05	0.4	0.4	0.5		0.2
Cadmium (Cd) (TOT)	0.6	0.7	3.4 M	1.6 M		0.9
Chromium (Cr) (DIS)						<0.005
Chromium (Cr) (TOT)						<0.005
Cobalt (Co) (DIS)						0.1
Cobalt (Co) (TOT)						0.1
Copper (Cu) (DIS)	0.02	0.03 M	0.02	0.02		0.02
Copper (Cu) (TOT)	0.9	0.2 M	0.2	0.1		0.1 J
Iron (Fe) (DIS)	0.03	0.06	0.04	0.01		<0.03
Iron (Fe) (TOT)	1.5	1	0.9	1.1		0.6
Lead (Pb) (DIS)	0.007	0.03 M	0.005	0.003		<0.01 J
Lead (Pb) (TOT)	2.4	2.5 M	1.7	1.6		1.8
Manganese (Mn) (DIS)	1.8	2.8 M	2.8	3.5		3.5
Manganese (Mn) (TOT)	2.6	3.2 M	3.4	3.7		3.7
Mercury (Hg) (DIS)						0.0003
Mercury (Hg) (TOT)						0.007
Nickel (Ni) (DIS)						0.06
Nickel (Ni) (TOT)						0.07 J

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LL-2	LL-2	LL-2	LL-2	LL-2	LL-2
Unknown	SAMPLE DATE	5/13/1987	10/20/1987	11/4/1987	11/4/1987	11/17/1987	11/17/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	WYRHR	TSC-SLC	RMAL
	LAB NUMBER	87-3329	87-9518	87-10008	8711-12	87-10552	8711-52
	SAMPLE NUMBER	AEH-8705-132	AEH-8710-2	AEH-8711-12	AEH-8711-12	AEH-8711-52	AEH-8711-52
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate			Split		Split

**Metals: ppm unless noted**

Silver (Ag) (DIS)							<0.005
Silver (Ag) (TOT)							<0.005
Vanadium (V) (DIS)							0.002
Vanadium (V) (TOT)							<0.002
Zinc (Zn) (DIS)	0.08	1.4 M	0.3	0.3			0.2 J
Zinc (Zn) (TOT)	2.3	2.5	2.3	2.04			1.5

**Physical/Fld-Lab: ppm unless noted**

pH		7.7	2 M		8.9		
pH (Fld)	8.4	8.09	7.7	7.7	8.6		8.6
SC (umhos/cm at 25 C) (Fld)	1589	1861	1874	1872.6	1892		
SC (umhos/cm at 25 C)		1850	7500 M		1810		
Total Suspended Solids		24.7	29		38		
TDS (Measured at 180 C)		1511	1499	1350 M	1457 J		
Water Temperature (C) (Fld)		8	9.1	9.1	2.5		2.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LL-2	LL-2	LL-2	S-1	S-1
Unknown	SAMPLE DATE	11/17/1987	11/17/1987	11/30/1987	1/13/1987	5/14/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	RMAL	TSC-SLC	TSC-SLC	CHMTC
	LAB NUMBER	87-10553	8711-64	87-11023	87-294	8705-10
	SAMPLE NUMBER	AEH-8711-64	AEH-8711-64	AEH-8712-12	AEH-8701-1	AEH-8705-10
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Field Duplicate	Field Duplicate			Split

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)	40		62	181	
Calcium (Ca) (DIS)	148	133	145.5	77	110
Carbonate As CO3	19		25	<1	
Chloride (Cl)	87		90	28	95
Magnesium (Mg) (DIS)	19.1	18.1	17.5	15	15.7
Potassium (K) (DIS)	62	52.6	62	7.7	27.1
Sodium (Na) (DIS)	226	203 J	219	100	189
Sulfate (SO4)	740 J		740	290	551
Total Alkalinity As CaCO3	65		93 J		80

**Metals: ppm unless noted**

Aluminum (Al) (DIS)		<0.02			
Aluminum (Al) (TOT)		0.05			
Antimony (Sb) (DIS)		0.4			
Antimony (Sb) (TOT)		0.5			
Arsenic (As) (DIS)		16.1	19.5		15.2
Arsenic (As) (TOT)		18	20.6	26	17.4
Barium (Ba) (DIS)		0.07			
Barium (Ba) (TOT)		0.06 J			
Beryllium (Be) (DIS)		<0.001			
Beryllium (Be) (TOT)		<0.001			
Cadmium (Cd) (DIS)		0.2	0.02 J		0.04
Cadmium (Cd) (TOT)		0.9	0.4	0.6	0.6
Chromium (Cr) (DIS)		<0.005			
Chromium (Cr) (TOT)		<0.005			
Cobalt (Co) (DIS)		0.1			
Cobalt (Co) (TOT)		0.2			
Copper (Cu) (DIS)		0.01	0.02		0.04
Copper (Cu) (TOT)		0.1 J	0.1	0.5	0.8
Iron (Fe) (DIS)		<0.03	0.04		<0.1
Iron (Fe) (TOT)		0.7	0.5	5.5	1.2
Lead (Pb) (DIS)		<0.01 J	0.008		0.06
Lead (Pb) (TOT)		1.9	1.5	0.6 M	1.7
Manganese (Mn) (DIS)		3.5	1.6 J		3.3
Manganese (Mn) (TOT)		3.9	2.2 J	3.3	3.9
Mercury (Hg) (DIS)		0.0002			
Mercury (Hg) (TOT)		0.007			
Nickel (Ni) (DIS)		0.06			
Nickel (Ni) (TOT)		0.07 J			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	LL-2	LL-2	LL-2	S-1	S-1
Unknown	SAMPLE DATE	11/17/1987	11/17/1987	11/30/1987	1/13/1987	5/14/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	RMAL	TSC-SLC	TSC-SLC	CHMTC
	LAB NUMBER	87-10553	8711-64	87-11023	87-294	8705-10
	SAMPLE NUMBER	AEH-8711-64	AEH-8711-64	AEH-8712-12	AEH-8701-1	AEH-8705-10
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Field Duplicate	Field Duplicate			Split

**Metals: ppm unless noted**

Silver (Ag) (DIS)		<0.005			
Silver (Ag) (TOT)		0.006			
Vanadium (V) (DIS)		<0.002			
Vanadium (V) (TOT)		<0.002			
Zinc (Zn) (DIS)		0.2	0.02		0.07
Zinc (Zn) (TOT)		1.5	0.7 J	2	1.9

**Physical/Fld-Lab: ppm unless noted**

pH	8.9		9.08	7	
pH (Fld)	8.6		9.09		8.5
SC (umhos/cm at 25 C) (Fld)	1874		1851	725.4	1599
SC (umhos/cm at 25 C)	1810		1730	980	
Total Suspended Solids	35		24.7		
TDS (Measured at 180 C)	1466 J		1515	646 M	1318
Water Temperature (C) (Fld)			3		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	S-1	S-1	S-1	S-1	S-1	S-1
Unknown	SAMPLE DATE	5/14/1987	10/21/1987	11/6/1987	11/18/1987	11/18/1987	11/30/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	RMAL	TSC-SLC
	LAB NUMBER	87-3370	87-9512	87-10278	87-10557	8711-58	87-11029
	SAMPLE NUMBER	AEH-8705-10	AEH-8710-8	AEH-8711-18	AEH-8711-58	AEH-8711-58	AEH-8712-18
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Split	

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)	112	165	144	165		172
Calcium (Ca) (DIS)	103	140	142	134	113 J	122.5
Carbonate As CO3	<1 M	<1	<1	<1		<1
Chloride (Cl)	95	72	71	60		63
Magnesium (Mg) (DIS)	16.4	20.2	19.9	20	18.9 J	19.1
Potassium (K) (DIS)	39.9	34	29	26.5	22 J	26.3
Sodium (Na) (DIS)	199	228	224	210	172 J	180
Sulfate (SO4)	570	640	640	600 J		580

**Metals: ppm unless noted**

Aluminum (Al) (DIS)					0.04	
Aluminum (Al) (TOT)					0.4	
Antimony (Sb) (DIS)					0.2	
Antimony (Sb) (TOT)					0.2	
Arsenic (As) (DIS)	15	40.8	38.1	35	34.3	35
Arsenic (As) (TOT)	17.6 M	59.8 M	44	42.5	34.8	35.8
Barium (Ba) (DIS)					0.06	
Barium (Ba) (TOT)					0.07	
Beryllium (Be) (DIS)					<0.001	
Beryllium (Be) (TOT)					<0.001	
Cadmium (Cd) (DIS)	0.05	0.1	0.3	0.1	0.1	0.06
Cadmium (Cd) (TOT)	0.7	1.1	1.1	0.5	0.5	0.3
Chromium (Cr) (DIS)					<0.005	
Chromium (Cr) (TOT)					<0.005	
Cobalt (Co) (DIS)					0.06	
Cobalt (Co) (TOT)					0.06	
Copper (Cu) (DIS)	0.02 M	0.01	0.01	0.01	<0.009	0.009
Copper (Cu) (TOT)	0.7	10.5	1.7	1.4	1.3	0.6
Iron (Fe) (DIS)	0.03 M	2	3.5	1.8	3.8	1.9
Iron (Fe) (TOT)	0.9	25.9	7.9	6.3	10.4	3.9
Lead (Pb) (DIS)	0.008 M	0.01 M	0.01	0.009	0.01	0.01
Lead (Pb) (TOT)	1.5 M	14	2.03	2.09	2	1.3
Manganese (Mn) (DIS)	1.7 M	4.8 M	4.7	4.5	5.4	4
Manganese (Mn) (TOT)	2.6 M	5.6 M	5.04	4.9	5.6	4.3
Mercury (Hg) (DIS)					<0.0002	
Mercury (Hg) (TOT)					0.006	
Nickel (Ni) (DIS)					0.03	
Nickel (Ni) (TOT)					0.03	
Silver (Ag) (DIS)					<0.005	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	S-1	S-1	S-1	S-1	S-1	S-1
Unknown	SAMPLE DATE	5/14/1987	10/21/1987	11/6/1987	11/18/1987	11/18/1987	11/30/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	RMAL	TSC-SLC
	LAB NUMBER	87-3370	87-9512	87-10278	87-10557	8711-58	87-11029
	SAMPLE NUMBER	AEH-8705-10	AEH-8710-8	AEH-8711-18	AEH-8711-58	AEH-8711-58	AEH-8712-18
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS					Split	

**Metals: ppm unless noted**

Silver (Ag) (TOT)						<0.005	
Vanadium (V) (DIS)						0.005	
Vanadium (V) (TOT)						0.005	
Zinc (Zn) (DIS)	0.05 M	1.7	1.5	1.08	1.2	0.9	
Zinc (Zn) (TOT)	1.9	7.8	3.2	2.5	2.6	1.7	

**Physical/Fld-Lab: ppm unless noted**

pH	8	7.6	7.8	7.3		7.7	
Depth To Water Level (ft)		13.4					
pH (Fld)	8.5 M	7.2	6.8	7.2	7.2	7	
SC (umhos/cm at 25 C) (Fld)	1599	1775 M	1607	1564	1562.4	1564	
SC (umhos/cm at 25 C)	1550	1750 M	1590	1510		1320	
Total Suspended Solids	58.7	178.4 M	74	67.3		56	
TDS (Measured at 180 C)	1132	1429	1367 M	1199 J		1138	
Water Temperature (C) (Fld)		11 M	8.5	6	6	7.3	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	S-1	S-1	S-2	S-2	S-2
Unknown	SAMPLE DATE	11/30/1987	12/15/1987	12/30/1986	12/30/1986	5/14/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	WYRHR	TSC-SLC	CHMTC	TSC-SLC	CHMTC
	LAB NUMBER	8712-18	87-11449	8612-20	87-2	8705-09
	SAMPLE NUMBER	AEH-8712-18	AEH-8712-78	AEH-8612-20	AEH-8612-20	AEH-8705-09
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Split		Split		Split

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)	140	162 J	88	117	
Calcium (Ca) (DIS)	112 J	95	95.9	102	116
Carbonate As CO3	<5	<1 J		<1	
Chloride (Cl)	54	62	119	95	105
Magnesium (Mg) (DIS)	17.6	22.5	15	15	16.8
Potassium (K) (DIS)	21.2 J	28		30 M	21.8
Sodium (Na) (DIS)	172 J	196	156	183 M	235
Sulfate (SO4)	560	610 J	783	580	795
Total Alkalinity As CaCO3					124

**Metals: ppm unless noted**

Arsenic (As) (DIS)	17.1	32	14	15	17.5
Arsenic (As) (TOT)	36	37.5	17.9	18	23.5
Cadmium (Cd) (DIS)	0.1	0.05	1.5	1.7 M	0.008
Cadmium (Cd) (TOT)	0.4	0.2	1.9	2.2	2.7
Copper (Cu) (DIS)	0.009	<0.008 J	0.04	0.02	0.03
Copper (Cu) (TOT)	0.4	0.5 J	0.4	0.7	4.6
Iron (Fe) (DIS)	3.6	2.8	0.1	0.04	<0.1
Iron (Fe) (TOT)	7.8	4.8	1.6	1.3	6
Lead (Pb) (DIS)	0.02	0.04	0.005	0.005 M	0.09
Lead (Pb) (TOT)	0.9	1.4	4.2	48 M	13
Manganese (Mn) (DIS)	4.4	4.3 J	2.6	2.3	1.6
Manganese (Mn) (TOT)	4.8	4.7 J	2.5	2.4	3
Zinc (Zn) (DIS)	0.9	0.8	4.7	5 M	0.04
Zinc (Zn) (TOT)	1.7	1.4	5.6	5.7	7.7

**Physical/Fid-Lab: ppm unless noted**

pH		7.2		7.2	
pH (Fid)	7	7			8.8
SC (umhos/cm at 25 C) (Fid)	1528.2	1624		1520	1743
SC (umhos/cm at 25 C)		1480		1490	
Total Suspended Solids		42.7			
TDS (Measured at 180 C)	1140	1149 J		1210	1358
Water Temperature (C) (Fid)	7.3	4.5			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	S-2	S-2	S-2	S-2	S-2	S-2
Unknown	SAMPLE DATE	5/14/1987	10/20/1987	10/20/1987	11/6/1987	11/18/1987	11/18/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	RMAL
	LAB NUMBER	87-3369	87-9522	87-9516	87-10276	87-10558	8711-59
	SAMPLE NUMBER	AEH-8705-09	AEH-8710-14	AEH-8710-9	AEH-8711-19	AEH-8711-59	AEH-8711-59
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				Split

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)	129		106	18 M	58 J	
Calcium (Ca) (DIS)	97.4	146	140	144	158	129 J
Carbonate As CO3	<1		<1	25	14	
Chloride (Cl)	106		80	116	82	
Magnesium (Mg) (DIS)	16.3	18.1	18.2	18.9	18.7	17.8 J
Potassium (K) (DIS)	34.7	53	54.3	62	57.1	47.2 J
Sodium (Na) (DIS)	253	238	230	236	244	194 J
Sulfate (SO4)	575		640	746	696 J	
Total Alkalinity As CACO3				57	71 J	

**Metals: ppm unless noted**

Aluminum (Al) (DIS)						<0.02
Aluminum (Al) (TOT)						0.09
Antimony (Sb) (DIS)						0.4
Antimony (Sb) (TOT)						0.5
Arsenic (As) (DIS)	16.9	16.9	17.8	21.1		19.5
Arsenic (As) (TOT)	23	19	19	24.6 M		18 J
Barium (Ba) (DIS)						0.07
Barium (Ba) (TOT)						0.07
Beryllium (Be) (DIS)						<0.001
Beryllium (Be) (TOT)						<0.001
Cadmium (Cd) (DIS)	0.01	0.4	0.4	0.4		0.2
Cadmium (Cd) (TOT)	3.4 M	0.6	0.6	2.03		0.8
Chromium (Cr) (DIS)						<0.005
Chromium (Cr) (TOT)						<0.005
Cobalt (Co) (DIS)						0.1
Cobalt (Co) (TOT)						0.1
Copper (Cu) (DIS)	0.01	0.03	0.03	0.02		0.01
Copper (Cu) (TOT)	6.9 M	0.4	0.4	1.4		0.1
Iron (Fe) (DIS)	0.03	0.1	0.1	0.1		0.1
Iron (Fe) (TOT)	5.5 M	1.2	1.3	2.06		1.3
Lead (Pb) (DIS)	0.03 M	0.05	0.04	0.03		0.02
Lead (Pb) (TOT)	17 M	25	2.5 M	2.2		1.7
Manganese (Mn) (DIS)	1	2.7 M	3 M	2.8		3.7
Manganese (Mn) (TOT)	2.6	3.4 M	3.2 M	3.5		4.02
Mercury (Hg) (DIS)						<0.0002
Mercury (Hg) (TOT)						0.002
Nickel (Ni) (DIS)						0.06
Nickel (Ni) (TOT)						0.06

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	S-2	S-2	S-2	S-2	S-2	S-2
Unknown	SAMPLE DATE	5/14/1987	10/20/1987	10/20/1987	11/6/1987	11/18/1987	11/18/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	RMAL
	LAB NUMBER	87-3369	87-9522	87-9516	87-10276	87-10558	8711-59
	SAMPLE NUMBER	AEH-8705-09	AEH-8710-14	AEH-8710-9	AEH-8711-19	AEH-8711-59	AEH-8711-59
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Field Duplicate				Split

**Metals: ppm unless noted**

Silver (Ag) (DIS)							<0.005
Silver (Ag) (TOT)							0.007
Vanadium (V) (DIS)							<0.002
Vanadium (V) (TOT)							<0.002
Zinc (Zn) (DIS)	0.03	1.3	1.3	0.4			0.3
Zinc (Zn) (TOT)	9.2 M	2.5	2.3	3.6			1.6

**Physical/Fld-Lab: ppm unless noted**

pH	7.6		7.5	8.7	8.7		
pH (Fld)	8.8	7.2	7.2	7.08	7.9		7.9
SC (umhos/cm at 25 C) (Fld)	1743		1825	1870	1788		1786.1
SC (umhos/cm at 25 C)	8500 M		1820	1900	1720		
Total Suspended Solids	200 M		24	53.5	32		
TDS (Measured at 180 C)	1204		1475	1680 M	1417 J		
Water Temperature (C) (Fld)		6	6	9.6 M	6.2		6.2

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	S-2	S-2	S-2	S-2	S-2	S-2
Unknown	SAMPLE DATE	11/18/1987	11/18/1987	12/1/1987	12/1/1987	12/1/1987	12/1/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	RMAL	TSC-SLC	WYRHR	TSC-SLC	WYRHR
	LAB NUMBER	87-10559	8711-65	87-11030	8712-19	87-11031	8712-25
	SAMPLE NUMBER	AEH-8711-65	AEH-8711-65	AEH-8712-19	AEH-8712-19	AEH-8712-25	AEH-8712-25
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate	Field Duplicate		Split	Field Duplicate	Field Duplicate

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)	43		101 J	110	78	
Calcium (Ca) (DIS)	152	125 J	135.5	114 J	137	119
Carbonate As CO3	32		13	<5	23	
Chloride (Cl)	82		150	148	140	
Magnesium (Mg) (DIS)	18.9	17.2 J	17.5	14.7 J	17.5	15.3
Potassium (K) (DIS)	57.7	46.2 J	53	43.3 J	54.7	46.2
Sodium (Na) (DIS)	226	188 J	264	267	255	270
Sulfate (SO4)	800 J		710	690	690	
Total Alkalinity As CaCO3	67		105 J		102	

**Metals: ppm unless noted**

Aluminum (Al) (DIS)	<0.02					
Aluminum (Al) (TOT)	0.08					
Antimony (Sb) (DIS)	0.4					
Antimony (Sb) (TOT)	0.4					
Arsenic (As) (DIS)	19.4	19.9	16.8	19.3	16.9	
Arsenic (As) (TOT)	17.5 J	21.1	18.3	20.9	18	
Barium (Ba) (DIS)	0.06					
Barium (Ba) (TOT)	0.05 J					
Beryllium (Be) (DIS)	<0.001					
Beryllium (Be) (TOT)	<0.001					
Cadmium (Cd) (DIS)	0.2	0.03	0.08	0.03	0.08	
Cadmium (Cd) (TOT)	0.8	0.4	0.5	0.4	0.4	
Chromium (Cr) (DIS)	<0.005					
Chromium (Cr) (TOT)	<0.005					
Cobalt (Co) (DIS)	0.1					
Cobalt (Co) (TOT)	0.1					
Copper (Cu) (DIS)	0.01	0.02	0.02	0.02	0.03	
Copper (Cu) (TOT)	0.1	0.3 J	0.3	0.2	0.2	
Iron (Fe) (DIS)	0.08	0.06	0.02	0.06	0.03	
Iron (Fe) (TOT)	1.2	1.2	1.9	1.1	1.4	
Lead (Pb) (DIS)	0.04	0.02 J	0.03	0.02	0.03	
Lead (Pb) (TOT)	1.6	1.6	1.9	1.6	1.7	
Manganese (Mn) (DIS)	3.6	1.7	1.9	1.8	1.9	
Manganese (Mn) (TOT)	3.8	2.3	2.5	2.2	2.6	
Mercury (Hg) (DIS)	<0.0002					
Mercury (Hg) (TOT)	0.001					
Nickel (Ni) (DIS)	0.05					
Nickel (Ni) (TOT)	0.06					

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	S-2	S-2	S-2	S-2	S-2	S-2
Unknown	SAMPLE DATE	11/18/1987	11/18/1987	12/1/1987	12/1/1987	12/1/1987	12/1/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	RMAL	TSC-SLC	WYRHR	TSC-SLC	WYRHR
	LAB NUMBER	87-10559	8711-65	87-11030	8712-19	87-11031	8712-25
	SAMPLE NUMBER	AEH-8711-65	AEH-8711-65	AEH-8712-19	AEH-8712-19	AEH-8712-25	AEH-8712-25
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Field Duplicate	Field Duplicate		Split	Field Duplicate	Field Duplicate

**Metals: ppm unless noted**

Silver (Ag) (DIS)		<0.005					
Silver (Ag) (TOT)		<0.005					
Vanadium (V) (DIS)		<0.002					
Vanadium (V) (TOT)		0.002					
Zinc (Zn) (DIS)		0.3		0.05 J	0.04	0.03	0.04
Zinc (Zn) (TOT)		1.6		1	1.03	0.9	0.9

**Physical/Fld-Lab: ppm unless noted**

pH	9.03			8.6		8.9	
pH (Fld)	7.9			9.1	9.1	9.1	
SC (umhos/cm at 25 C) (Fld)	1797	1795.4		2001	2000.4	1985	1984.9
SC (umhos/cm at 25 C)	1780			1900		1890	
Total Suspended Solids	33			34		29.3	
TDS (Measured at 180 C)	1445 J			1457	1450	1444	
Water Temperature (C) (Fld)	6.2			7.6	7.6	7.6	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	S-2	S-3	S-3	S-3	S-3
Unknown	SAMPLE DATE	12/15/1987	10/20/1987	10/20/1987	11/6/1987	11/18/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-11450	8710-100	87-9513	87-10277	87-10560
	SAMPLE NUMBER	AEH-8712-79	AEH-8710-100	AEH-8710-100	AEH-8711-20	AEH-8711-60
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Split			

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)	101 J	220 M	547 M	121	11
Calcium (Ca) (DIS)	120	13.8 M	106	180	20
Carbonate As CO3	7.2 J	60 M	149	<1	268 J
Chloride (Cl)	115	300	395	932	671
Hydroxide (OH)			<1		
Magnesium (Mg) (DIS)	21	13.3	13.7	25.8	4
Potassium (K) (DIS)	66	64.8	79	248	174
Sodium (Na) (DIS)	242	1290 M	1050	1900	2050
Sulfate (SO4)	775 J	1400	2060	5085	4400 J
Total Alkalinity As CaCO3	95		696		455

**Metals: ppm unless noted**

Arsenic (As) (DIS)	18.4	84	68.5	6.3	
Arsenic (As) (TOT)	19	76.5	75	18.8	
Cadmium (Cd) (DIS)	0.06	0.1	0.03	915 M	
Cadmium (Cd) (TOT)	0.4	0.9	1.01	1163 M	
Copper (Cu) (DIS)	0.01 J	1.3	0.9	3.2 M	
Copper (Cu) (TOT)	0.8 J	6.3	8.7	4.9	
Iron (Fe) (DIS)	0.09	0.02	0.1	0.5 M	
Iron (Fe) (TOT)	2.3	3.9	4.2	1.4	
Lead (Pb) (DIS)	0.05	0.01 M	0.02	0.02	
Lead (Pb) (TOT)	2.3	7.2	11 M	2.5	
Manganese (Mn) (DIS)	1.9 J	0.3	0.8 M	6.3 M	
Manganese (Mn) (TOT)	2.3 J	2.6	3.1 M	6.3 M	
Zinc (Zn) (DIS)	0.1	0.02 M	0.02	127.5 M	
Zinc (Zn) (TOT)	1.2	6.3 M	7.3	147.5 M	

**Physical/Fid-Lab: ppm unless noted**

pH	8.5		10.09	7.5	10.7
pH (Fid)	8.3	8.2		6.3	13.4
SC (umhos/cm at 25 C) (Fid)	1934	5891.3	5894	12791	6081
SC (umhos/cm at 25 C)	1850		6000	9800	8800
Total Suspended Solids	38.7		314.8 M	107.5	100.5
TDS (Measured at 180 C)	1412 J	2860	4516	8751 M	7044 J
Water Temperature (C) (Fid)	6.6	3		7.9	3.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	S-3	S-3	S-3	S-3	SHOWER
Unknown	SAMPLE DATE	11/18/1987	12/1/1987	12/15/1987	12/15/1987	8/3/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	RMAL	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8711-60	87-11032	87-11451	87-11454	88-5018
	SAMPLE NUMBER	AEH-8711-60	AEH-8712-20	AEH-8712-80	AEH-8712-85	AEH-8808-200
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Split			Field Duplicate	

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)		102	95 J	96
Calcium (Ca) (DIS)	89.8	15.5	58	18
Carbonate As CO3		77	<1 J	<1
Chloride (Cl)		127	33	8.3
Magnesium (Mg) (DIS)	6.5	6.4	10	5
Potassium (K) (DIS)	123 J	23.3	24	2.9
Sodium (Na) (DIS)	1930 J	347	266	15.5
Sulfate (SO4)		610	745 J	22
Total Alkalinity As CaCO3		212		

**Metals: ppm unless noted**

Aluminum (Al) (DIS)	<0.08			
Aluminum (Al) (TOT)	0.06			
Antimony (Sb) (DIS)	6.9			
Antimony (Sb) (TOT)	6.1			
Arsenic (As) (DIS)	37	43	2.6	2.6
Arsenic (As) (TOT)	21.3	30.2	7.3	7.2
Barium (Ba) (DIS)	0.02			
Barium (Ba) (TOT)	0.02			
Beryllium (Be) (DIS)	<0.004			
Beryllium (Be) (TOT)	<0.002			
Cadmium (Cd) (DIS)	<0.02	0.005	0.7	0.7
Cadmium (Cd) (TOT)	0.2	1.3	4.8	4
Chromium (Cr) (DIS)	<0.02			
Chromium (Cr) (TOT)	<0.01			
Cobalt (Co) (DIS)	<0.02			
Cobalt (Co) (TOT)	0.08			
Copper (Cu) (DIS)	<0.04	0.01	0.5 J	0.5 J
Copper (Cu) (TOT)	0.08	1.2	2.3 J	3 J
Iron (Fe) (DIS)	<0.1	0.06	0.03	0.03
Iron (Fe) (TOT)	0.09	0.9	0.8 J	1.4
Lead (Pb) (DIS)	<0.01	<0.01	0.009	0.008
Lead (Pb) (TOT)	0.2	1.03	1.9 J	2.5
Manganese (Mn) (DIS)	0.06	0.3	2.2 J	2.2 J
Manganese (Mn) (TOT)	0.8	2.9	3.7 J	3.9 J
Mercury (Hg) (DIS)	<0.0002			
Mercury (Hg) (TOT)	0.0004			
Nickel (Ni) (DIS)	0.03			
Nickel (Ni) (TOT)	0.04			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	S-3	S-3	S-3	S-3	SHOWER
Unknown	SAMPLE DATE	11/18/1987	12/1/1987	12/15/1987	12/15/1987	8/3/1988
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	RMAL	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8711-60	87-11032	87-11451	87-11454	88-5018
	SAMPLE NUMBER	AEH-8711-60	AEH-8712-20	AEH-8712-80	AEH-8712-85	AEH-8808-200
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Split			Field Duplicate	

**Metals: ppm unless noted**

Silver (Ag) (DIS)	<0.02				
Silver (Ag) (TOT)	<0.01				
Vanadium (V) (DIS)	0.02				
Vanadium (V) (TOT)	0.01				
Zinc (Zn) (DIS)	<0.05	<0.008	0.3 J	0.2	0.04
Zinc (Zn) (TOT)	2.4	6.8	28	29	0.3

**Physical/Fld-Lab: ppm unless noted**

pH		10.05	7.2		7.1
pH (Fld)	13.4	11.6	7.4	7.4	
SC (umhos/cm at 25 C) (Fld)	11728.6	1356	1840	1830	
SC (umhos/cm at 25 C)		1790	1650		205
Total Suspended Solids		79.3	49.5		84
TDS (Measured at 180 C)		1344	1492 J		184 J
Water Temperature (C) (Fld)	3.4	3.9	1.8	1.8	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SP-1	SP-1	SP-1	SP-1	SP-1	SP-1
Unknown	SAMPLE DATE	12/30/1986	12/30/1986	5/13/1987	5/13/1987	10/21/1987	11/6/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	CHMTC	TSC-SLC	CHMTC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	8612-22	87-4	8705-07	87-3325	87-9508	87-10280
	SAMPLE NUMBER	AEH-8612-22	AEH-8612-22	AEH-8705-07	AEH-8705-07	AEH-8710-4	AEH-8711-14
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split		Split			

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)	469	7.3		<1	<1	<1 M
Calcium (Ca) (DIS)	38.7	37	5.3	0.3	5.3	2 M
Carbonate As CO3		355		116000 M	4260	2640
Chloride (Cl)	126	131	7000	2100	3800 M	954
Hydroxide (OH)				9282	12376	10650 M
Magnesium (Mg) (DIS)	2.7	2.9	<0.3	<0.1	0.1	<0.1
Potassium (K) (DIS)		38	639	185	197	80 M
Sodium (Na) (DIS)	588	625	17300	23250 M	15000	5400 M
Sulfate (SO4)	649	660	2022	1590	2400 M	1085 M
Total Alkalinity As CaCO3		598	800	45900 M	29300	2125 M

**Metals: ppm unless noted**

Arsenic (As) (DIS)	55.9	55	3330	3733 M	2750	1475
Arsenic (As) (TOT)	57.5	55	3330	3750 M	2800	1000 M
Cadmium (Cd) (DIS)	<0.005	0.03	<0.004	0.09	0.01	0.01
Cadmium (Cd) (TOT)	0.1	0.1	<0.004	0.4	0.03	0.02
Copper (Cu) (DIS)	0.03	0.009	0.03	0.1	0.1	0.04
Copper (Cu) (TOT)	3.3	4.1	<0.02	28.3 M	9.9	1
Iron (Fe) (DIS)	0.1	0.05	0.2	1.3	1.04	0.7
Iron (Fe) (TOT)	0.7	0.6	<0.1	12.6	3.8	0.9
Lead (Pb) (DIS)	<0.003	0.008 M	<0.03	0.06	0.04	0.02
Lead (Pb) (TOT)	2.2	24	0.5	14	1.7	1.9
Manganese (Mn) (DIS)	0.03	0.02	0.02	0.2	0.005 M	0.01
Manganese (Mn) (TOT)	0.1	0.2	0.02	0.5	0.04 M	0.02
Zinc (Zn) (DIS)	0.2	0.02	0.1	0.2	0.04	0.02
Zinc (Zn) (TOT)	1	0.7	<0.02	5.4	0.6	0.3

**Physical/Fid-Lab: ppm unless noted**

pH		10.9		13.3	13.1	12.8
pH (Fid)			12.2	12.2	13.02	13.5
SC (umhos/cm at 25 C) (Fid)		2898	117662	117662 M	82330	52360 M
SC (umhos/cm at 25 C)		2800		150000 M	100000	35400 M
Total Suspended Solids				305 M	34	82 M
TDS (Measured at 180 C)		2441	770	52051 M	39650	19370 M
Water Temperature (C) (Fid)			17.7	17.7	37 M	17.9

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SP-1	SP-1	SP-1	SP-1	SP-1	SP-1
Unknown	SAMPLE DATE	11/6/1987	11/6/1987	11/6/1987	11/19/1987	11/19/1987	12/1/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	WYRHR	TSC-SLC	WYRHR	TSC-SLC	RMAL	TSC-SLC
	LAB NUMBER	8711-14	87-10281	8711-25	87-10565	8711-54	87-11036
	SAMPLE NUMBER	AEH-8711-14	AEH-8711-25	AEH-8711-25	AEH-8711-54	AEH-8711-54	AEH-8712-14
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split	Field Duplicate	Field Duplicate		Split	

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)	<5	<1		<1		<1
Calcium (Ca) (DIS)	3.3	0.4	5.3	34 J	13.1 J	4.8
Carbonate As CO3	6200	4740		488		1795
Chloride (Cl)	870	1145		140		275
Hydroxide (OH)		3468		335		1389
Magnesium (Mg) (DIS)	0.01	<0.1	0.01	0.1	0.3 J	<0.1
Potassium (K) (DIS)	71.5	141	64.8	65.5	45.1	85.5
Sodium (Na) (DIS)	8450	8400	7330	1175	1160 J	3600
Sulfate (SO4)	1100	1388		760 J		920
Total Alkalinity As CaCO3		18100		1800		7076

**Metals: ppm unless noted**

Aluminum (Al) (DIS)					2.5 J	
Aluminum (Al) (TOT)					2 J	
Antimony (Sb) (DIS)					3.9 J	
Antimony (Sb) (TOT)					3.6 J	
Arsenic (As) (DIS)	1300 M	1338	992 J		286 J	425
Arsenic (As) (TOT)	1560	1094 J	1530		94 J	437.5
Barium (Ba) (DIS)					0.008	
Barium (Ba) (TOT)					0.01	
Beryllium (Be) (DIS)					<0.002	
Beryllium (Be) (TOT)					<0.002	
Cadmium (Cd) (DIS)	1.1 M	0.01	0.9 J		<0.01	0.005
Cadmium (Cd) (TOT)	3.9 M	0.02	2.2 J		0.03	0.02
Chromium (Cr) (DIS)					<0.01	
Chromium (Cr) (TOT)					<0.01	
Cobalt (Co) (DIS)					<0.01	
Cobalt (Co) (TOT)					<0.01	
Copper (Cu) (DIS)	0.02	0.03	0.02		<0.02	0.02
Copper (Cu) (TOT)	1.08	1	1		0.1 J	0.8
Iron (Fe) (DIS)	<0.004 M	0.7	<0.004 J		<0.06	0.3
Iron (Fe) (TOT)	0.2 M	1	0.3 J		0.07	0.7
Lead (Pb) (DIS)	<0.02	0.02	<0.002		<0.01 J	0.02
Lead (Pb) (TOT)	0.6 M	1.8	0.7 J		0.3	1.4
Manganese (Mn) (DIS)	0.002	0.01	0.002		<0.01	0.003
Manganese (Mn) (TOT)	0.01	0.02	0.01		0.02	0.04
Mercury (Hg) (DIS)					0.0006	
Mercury (Hg) (TOT)					0.005	
Nickel (Ni) (DIS)					<0.01	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SP-1	SP-1	SP-1	SP-1	SP-1	SP-1
Unknown	SAMPLE DATE	11/6/1987	11/6/1987	11/6/1987	11/19/1987	11/19/1987	12/1/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	WYRHR	TSC-SLC	WYRHR	TSC-SLC	RMAL	TSC-SLC
	LAB NUMBER	8711-14	87-10281	8711-25	87-10565	8711-54	87-11036
	SAMPLE NUMBER	AEH-8711-14	AEH-8711-25	AEH-8711-25	AEH-8711-54	AEH-8711-54	AEH-8712-14
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split	Field Duplicate	Field Duplicate		Split	

**Metals: ppm unless noted**

Nickel (Ni) (TOT)						0.02 J	
Silver (Ag) (DIS)						<0.01	
Silver (Ag) (TOT)						<0.01	
Vanadium (V) (DIS)						0.02	
Vanadium (V) (TOT)						0.02	
Zinc (Zn) (DIS)	0.02	0.02	0.01			<0.03 J	0.04
Zinc (Zn) (TOT)	0.3	0.3	0.2			0.09	0.04

**Physical/Fld-Lab: ppm unless noted**

pH		12.9			12.1 J		12.8
pH (Fld)	13.5	13.5			12.7	12.7	13.2
SC (umhos/cm at 25 C) (Fld)	52348.4 M	39520	39509.4		8323	8239.5	24490
SC (umhos/cm at 25 C)		62000			7900		23600
Total Suspended Solids		44.4			26		79.3
TDS (Measured at 180 C)	17180	23156 J			8828 J		9972
Water Temperature (C) (Fld)	17.9	17.9			7.2	7.2	15

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SP-2	SP-2	SP-3	SP-3	SP-3
Unknown	SAMPLE DATE	5/13/1987	5/13/1987	11/15/1991	4/15/1992	4/29/1993
	SAMPLE TIME	00:00	00:00	00:00	10:45	18:51
	LAB	CHMTC	TSC-SLC	HYDRO	HYDRO	HYDRO
	LAB NUMBER	8705-08	87-3326	AEH-9111-380	AEH-9204-135	EHC-9305-118
	SAMPLE NUMBER	AEH-8705-08	AEH-8705-08	AEH-9111-380	AEH-9204-135	EHC-9305-118
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Split				

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)		<1
Calcium (Ca) (DIS)	5.8	0.5
Carbonate As CO3		122400
Chloride (Cl)	4000	2200
Hydroxide (OH)		9792
Magnesium (Mg) (DIS)	<0.3	<0.1
Potassium (K) (DIS)	651	198
Sodium (Na) (DIS)	19700	23450
Sulfate (SO4)	1727	1620
Total Alkalinity As CaCO3	920	49200

**Metals: ppm unless noted**

Arsenic (As) (DIS)	3650	3733
Arsenic (As) (TOT)	2858	3800
Cadmium (Cd) (DIS)	<0.004	0.1
Cadmium (Cd) (TOT)	<0.004	0.3
Copper (Cu) (DIS)	<0.02	0.1
Copper (Cu) (TOT)	<0.02	4.5
Iron (Fe) (DIS)	0.3	1.4
Iron (Fe) (TOT)	<0.1	3.8
Lead (Pb) (DIS)	<0.03	0.08 M
Lead (Pb) (TOT)	0.2	1.8 M
Manganese (Mn) (DIS)	0.02	0.2
Manganese (Mn) (TOT)	0.01	0.3
Zinc (Zn) (DIS)	<0.02	0.1
Zinc (Zn) (TOT)	<0.02	1.1

**Physical/Fld-Lab: ppm unless noted**

pH		13.2			
Depth To Water Level (ft)			0.0	0.0	0.0
pH (Fld)	13.2	13.2			
SC (umhos/cm at 25 C) (Fld)	127515	127515			
SC (umhos/cm at 25 C)		164000			
Total Suspended Solids		290			
TDS (Measured at 180 C)	61892	55396			
Water Temperature (C) (Fld)	21.1	21.1			

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SP-3	SP-3	SP-3	SP-3	SP-3	SP-3
Unknown	SAMPLE DATE	11/3/1993	5/10/1994	11/9/1994	5/5/1995	11/6/1995	5/7/1996
	SAMPLE TIME	13:43	09:53	17:40	10:40	14:35	07:10
	LAB	HYDRO	HYDRO	HYDRO	HYDRO	HYDRO	HYDRO
	LAB NUMBER	EHC-9311-152	EHC-9405-156	EHC-9411-165	EHC-9505-165	EHC-9511-159	EHC-9605-141
	SAMPLE NUMBER	EHC-9311-152	EHC-9405-156	EHC-9411-165	EHC-9505-165	EHC-9511-159	EHC-9605-141
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

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Depth To Water Level (ft)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SP-3	SP-3	SP-3	SP-3	SP-3
Unknown	SAMPLE DATE	11/6/1996	5/2/1997	11/3/1997	5/4/1998	5/7/1999
	SAMPLE TIME	10:30	10:10	11:15	10:10	09:55
	LAB	DRY	HYDRO	HYDRO	NO SAMPLE	NO SAMPLE
	LAB NUMBER	EHC-9611-141	EHC-9705-142	EHC-9711-141	EHC-9805-141	EHC-9905-140
	SAMPLE NUMBER	EHC-9611-141	EHC-9705-142	EHC-9711-141	EHC-9805-141	EHC-9905-140
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

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Depth To Water Level (ft)	0.0	0.0	0.0	0.0	0.0
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SP-4	SP-4	SP-4	SP-4	SP-4	SP-4
Unknown	SAMPLE DATE	11/15/1991	4/15/1992	4/29/1993	11/3/1993	5/10/1994	11/9/1994
	SAMPLE TIME	00:00	10:35	18:46	13:41	09:47	17:35
	LAB	HYDRO	HYDRO	HYDRO	HYDRO	HYDRO	HYDRO
	LAB NUMBER	AEH-9111-379	AEH-9204-122	9305-119	EHC-9311-153	EHC-9405-157	EHC-9411-166
	SAMPLE NUMBER	AEH-9111-379	AEH-9204-122	EHC-9305-119	EHC-9311-153	EHC-9405-157	EHC-9411-166
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

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Depth To Water Level (ft)	0.0	0.0	31.2	0.0	0.0	0.0
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SP-4	SP-4	SP-4	SP-4	SP-4	SP-4
Unknown	SAMPLE DATE	5/5/1995	11/6/1995	5/7/1996	11/6/1996	5/2/1997	11/3/1997
	SAMPLE TIME	10:35	14:30	07:15	10:25	10:05	11:10
	LAB	HYDRO	HYDRO	HYDRO	DRY	HYDRO	HYDRO
	LAB NUMBER	EHC-9505-164	EHC-9511-160	EHC-9605-142	EHC-9611-142	EHC-9705-143	EHC-9711-142
	SAMPLE NUMBER	EHC-9505-164	EHC-9511-160	EHC-9605-142	EHC-9611-142	EHC-9705-143	EHC-9711-142
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						
<b>Physical/Fid-Lab: ppm unless noted</b>							
	Depth To Water Level (ft)	0.0	0.0	0.0	0.0	0.0	0.0

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SP-4	SP-4	SP-5	SP-5	SP-5
Unknown	SAMPLE DATE	5/4/1998	5/7/1999	11/15/1991	4/15/1992	4/29/1993
	SAMPLE TIME	10:15	09:50	00:00	10:40	18:55
	LAB	NO SAMPLE	NO SAMPLE	HYDRO	HYDRO	HYDRO
	LAB NUMBER	EHC-9805-142	EHC-9905-141	AEH-9111-378	AEH-9204-123	EHC-9305-120
	SAMPLE NUMBER	EHC-9805-142	EHC-9905-141	AEH-9111-378	AEH-9204-123	EHC-9305-120
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					
<b>Physical/Fid-Lab: ppm unless noted</b>						
	Depth To Water Level (ft)	0.0	0.0	0.0	0.0	0.0

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SP-5	SP-5	SP-5	SP-5	SP-5	SP-5
Unknown	SAMPLE DATE	11/3/1993	5/10/1994	11/9/1994	5/5/1995	11/6/1995	5/7/1996
	SAMPLE TIME	13:40	09:45	17:45	10:45	14:40	07:20
	LAB	HYDRO	HYDRO	HYDRO	HYDRO	HYDRO	HYDRO
	LAB NUMBER	EHC-9311-154	EHC-9405-158	EHC-9411-158	EHC-9505-157	EHC-9511-161	EHC-9605-143
	SAMPLE NUMBER	EHC-9311-154	EHC-9405-158	EHC-9411-158	EHC-9505-157	EHC-9511-161	EHC-9605-143
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS						

**Physical/Fid-Lab: ppm unless noted**

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Depth To Water Level (ft)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	SP-5	SP-5	SP-5	SP-5	SP-5
Unknown	SAMPLE DATE	11/6/1996	5/2/1997	11/3/1997	5/4/1998	5/7/1999
	SAMPLE TIME	10:35	10:15	11:20	10:20	10:00
	LAB	DRY	HYDRO	HYDRO	NO SAMPLE	NO SAMPLE
	LAB NUMBER	EHC-9611-143	EHC-9705-144	EHC-9711-143	EHC-9805-143	EHC-9905-142
	SAMPLE NUMBER	EHC-9611-143	EHC-9705-144	EHC-9711-143	EHC-9805-143	EHC-9905-142
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS					

**Physical/Fid-Lab: ppm unless noted**

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Depth To Water Level (ft)	0.0	0.0	0.0	0.0	0.0
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TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	ST-1	ST-1	ST-1	ST-1	ST-1	ST-1
Unknown	SAMPLE DATE	2/20/1987	5/13/1987	5/13/1987	10/21/1987	11/4/1987	11/4/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	CHMTC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	87-1222	8705-12	87-3327	87-9507	87-10027	87-10010
	SAMPLE NUMBER	AEH-8702-1	AEH-8705-12	AEH-8705-12	AEH-8710-12	AEH-8711-21	AEH-8711-24
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Split				Field Duplicate

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)	55		52	46	49	49 M
Calcium (Ca) (DIS)	103	79.3	66.7	460	104	118
Carbonate As CO3	<1		<1	<1	<1	<1 M
Chloride (Cl)	31		50	126 M	47	48
Magnesium (Mg) (DIS)	8	10.1	8	33.5	12.4	13.5
Potassium (K) (DIS)	22	88	38	170	72	83
Sodium (Na) (DIS)	62	116	110	230	124	138
Sulfate (SO4)	270	442	440	1820	577 M	633
Total Alkalinity As CaCO3		38				

**Metals: ppm unless noted**

Arsenic (As) (DIS)		17	16.6	8.6	7.6	7.5
Arsenic (As) (TOT)	3.6	18.5	18.8	13.8	9.4	8.6
Cadmium (Cd) (DIS)		0.8	0.7	16	0.7 M	0.7
Cadmium (Cd) (TOT)	0.3	1.3	1.3	17.2	1.2	1.5
Copper (Cu) (DIS)		0.05	0.02	0.02	0.02	0.02
Copper (Cu) (TOT)	0.3	0.09	0.1	4.8	0.2 M	0.4 M
Iron (Fe) (DIS)		<0.1	0.06	1.04	0.06	0.06
Iron (Fe) (TOT)	0.2	0.5	0.4	13.4	0.9 M	1.4 M
Lead (Pb) (DIS)		0.03	0.008	0.03	0.1 M	0.06
Lead (Pb) (TOT)	2.1	0.8	36.5	65	3 M	5 M
Manganese (Mn) (DIS)		4.3	2.3	13 M	2.6	2.6
Manganese (Mn) (TOT)	0.5	4.5	2.6	22 M	3.1	3.2
Zinc (Zn) (DIS)		2.9	2.9	78.8	2.4	2.4
Zinc (Zn) (TOT)	1.1	4.3	4.5	101.8 M	3.2 M	5.6 M

**Physical/Fid-Lab: ppm unless noted**

pH	6.9		6.9	6.8	8.4	8
pH (Fid)		7.7	7.7	7.04	7.3	7.3
SC (umhos/cm at 25 C) (Fid)		1043	1043	3768	2124 M	1515
SC (umhos/cm at 25 C)	780		1010	3520	1380	1510
Total Suspended Solids			32.7	142.8	30 M	48.5
TDS (Measured at 180 C)	527	342	724	2477	997	1121
Water Temperature (C) (Fid)		16.1	16.1 M	9	9.3	9.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	ST-1	ST-1	ST-1	ST-1	ST-1
Unknown	SAMPLE DATE	11/4/1987	11/17/1987	11/17/1987	11/30/1987	12/15/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	WYRHR	TSC-SLC	RMAL	TSC-SLC	TSC-SLC
	LAB NUMBER	8711-24	87-10555	8711-61	87-11028	87-11445
	SAMPLE NUMBER	AEH-8711-24	AEH-8711-61	AEH-8711-61	AEH-8712-21	AEH-8712-81
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Field Duplicate		Split		

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)	40	38		62	<1 J
Calcium (Ca) (DIS)	102	456	405	195.5	147
Carbonate As CO3	<5	<1		<1	<1 J
Chloride (Cl)	46	88		63	100
Magnesium (Mg) (DIS)	11.6 M	30.6	27.6	13.1	21
Potassium (K) (DIS)	62 M	170	130	102	162
Sodium (Na) (DIS)	119 M	232	199	168	330 J
Sulfate (SO4)	560	1850 J		880	1020 J

**Metals: ppm unless noted**

Aluminum (Al) (DIS)				<0.02	
Aluminum (Al) (TOT)				0.09	
Antimony (Sb) (DIS)				0.4	
Antimony (Sb) (TOT)				0.6	
Arsenic (As) (DIS)	7	13.8	14	5.9	80.6 J
Arsenic (As) (TOT)	8.6	16.4	14	7.6	104 J
Barium (Ba) (DIS)				0.05	
Barium (Ba) (TOT)				0.006	
Beryllium (Be) (DIS)				<0.001	
Beryllium (Be) (TOT)				<0.001	
Cadmium (Cd) (DIS)	0.7	14.3	14.9	0.02	0.7
Cadmium (Cd) (TOT)	1.2	14.8	14.3 J	0.3	2.6
Chromium (Cr) (DIS)				<0.005	
Chromium (Cr) (TOT)				<0.005	
Cobalt (Co) (DIS)				2.2	
Cobalt (Co) (TOT)				2.1 J	
Copper (Cu) (DIS)	0.02	0.02	0.01	0.02	0.2 J
Copper (Cu) (TOT)	0.2	0.4 J	0.1 J	1.1	10.3 J
Iron (Fe) (DIS)	0.04	2.08	4.1 J	0.04	0.03
Iron (Fe) (TOT)	0.9	3	4.8	3.08	29.3 J
Lead (Pb) (DIS)	0.03	<0.01	<0.01	0.1	0.04
Lead (Pb) (TOT)	3.2	7.4	2.8	19.4	163.3 J
Manganese (Mn) (DIS)	3.4	32.5	32	0.7	3.4 J
Manganese (Mn) (TOT)	3.07	33.6	31.5	1	7.2 J
Mercury (Hg) (DIS)				0.0006	
Mercury (Hg) (TOT)				0.06	
Nickel (Ni) (DIS)				0.8	
Nickel (Ni) (TOT)				0.8 J	
Silver (Ag) (DIS)				<0.005	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	ST-1	ST-1	ST-1	ST-1	ST-1
Unknown	SAMPLE DATE	11/4/1987	11/17/1987	11/17/1987	11/30/1987	12/15/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	WYRHR	TSC-SLC	RMAL	TSC-SLC	TSC-SLC
	LAB NUMBER	8711-24	87-10555	8711-61	87-11028	87-11445
	SAMPLE NUMBER	AEH-8711-24	AEH-8711-61	AEH-8711-61	AEH-8712-21	AEH-8712-81
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Field Duplicate		Split		

**Metals: ppm unless noted**

Silver (Ag) (TOT)				0.005		
Vanadium (V) (DIS)				<0.002		
Vanadium (V) (TOT)				<0.002		
Zinc (Zn) (DIS)	2.6	68		69.6 J	0.04	0.5
Zinc (Zn) (TOT)	3.2	74		66.9	2.8	25.3

**Physical/Fld-Lab: ppm unless noted**

pH		4.3			8	2.2 J
pH (Fld)	7.3	6.5		6.5		8.5 J
SC (umhos/cm at 25 C) (Fld)	2123.9	3441			1927	2701
SC (umhos/cm at 25 C)		3310			1830	6500 J
Total Suspended Solids		43			60.7	357 J
TDS (Measured at 180 C)	1090	3223 J			1485	2376 J
Water Temperature (C) (Fld)	9.3	4.5		4.5		6.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	ST-2	ST-2	ST-2	ST-2	ST-2	ST-2
Unknown	SAMPLE DATE	10/21/1987	10/21/1987	10/21/1987	11/6/1987	11/19/1987	11/19/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	RMAL
	LAB NUMBER	8710-10	87-9511	87-9586	87-10279	87-10564	8711-62
	SAMPLE NUMBER	AEH-8710-10	AEH-8710-10	AEH-8710-101	AEH-8711-22	AEH-8711-62	AEH-8711-62
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split		Field Duplicate			Split

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)	<5 M	16		37	69	
Calcium (Ca) (DIS)	129	142		270 M	144	138
Carbonate As CO3	<5 M	<1		<1	6.6	
Chloride (Cl)	140 M	106		89	84	
Magnesium (Mg) (DIS)	16.8	18.1		21.7	19.2	18.1
Potassium (K) (DIS)	53.1	60.7		90	63	53
Sodium (Na) (DIS)	295 M	302		256	224	207 J
Sulfate (SO4)	870	890		1099	740 J	

**Metals: ppm unless noted**

Aluminum (Al) (DIS)						<0.02
Aluminum (Al) (TOT)						0.08
Antimony (Sb) (DIS)						0.4
Antimony (Sb) (TOT)						0.6
Arsenic (As) (DIS)	97	102		14.4		19
Arsenic (As) (TOT)	80.5	104		27.7		19.6
Barium (Ba) (DIS)						0.07
Barium (Ba) (TOT)						0.08
Beryllium (Be) (DIS)						<0.001
Beryllium (Be) (TOT)						<0.001
Cadmium (Cd) (DIS)	10	9.6		0.07		0.1
Cadmium (Cd) (TOT)	10.6	9.8		4.3		0.9
Chromium (Cr) (DIS)						<0.005
Chromium (Cr) (TOT)						<0.005
Cobalt (Co) (DIS)						0.1
Cobalt (Co) (TOT)						0.2
Copper (Cu) (DIS)	0.03	0.03		0.02		0.01 J
Copper (Cu) (TOT)	0.7	0.8		20.6 M		0.3
Iron (Fe) (DIS)	1.3 M	0.7		0.05		<0.03
Iron (Fe) (TOT)	3.9	2.6		73.3 M		1.3
Lead (Pb) (DIS)	0.05 M	0.04		0.2 M		<0.01 J
Lead (Pb) (TOT)	6.7	6.8		200 M		4
Manganese (Mn) (DIS)	4.05	3.6 M		1.5		3.4
Manganese (Mn) (TOT)	4.1	3.8 M		5.9 M		4.02
Mercury (Hg) (DIS)						<0.0002
Mercury (Hg) (TOT)						0.002
Nickel (Ni) (DIS)						0.06
Nickel (Ni) (TOT)						0.08 J
Silver (Ag) (DIS)						<0.005

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	ST-2	ST-2	ST-2	ST-2	ST-2	ST-2
Unknown	SAMPLE DATE	10/21/1987	10/21/1987	10/21/1987	11/6/1987	11/19/1987	11/19/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	RMAL
	LAB NUMBER	8710-10	87-9511	87-9586	87-10279	87-10564	8711-62
	SAMPLE NUMBER	AEH-8710-10	AEH-8710-10	AEH-8710-101	AEH-8711-22	AEH-8711-62	AEH-8711-62
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split		Field Duplicate			Split

**Metals: ppm unless noted**

Silver (Ag) (TOT)							0.03
Vanadium (V) (DIS)							<0.002
Vanadium (V) (TOT)							<0.002
Zinc (Zn) (DIS)	4.8 M	4.3		0.03			0.2 J
Zinc (Zn) (TOT)	6.8 M	6.1		55 M			2.02

**Physical/Fld-Lab: ppm unless noted**

pH		5.9		8.08	9.1		
pH (Fld)	7.3	7.3	7.3	8.9	8.6	8.6	
SC (umhos/cm at 25 C) (Fld)	2324.9	2325	2325	2279	1892	1891.6	
SC (umhos/cm at 25 C)		2300		2350	1890		
Total Suspended Solids		40	850.5	809.3	15		
TDS (Measured at 180 C)	1760	1912		1987 M	1510 J		
Water Temperature (C) (Fld)	9	9	9	11.2	8.5	8.5	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	ST-2	ST-2	ST-2	ST-2	ST-2
Unknown	SAMPLE DATE	12/1/1987	12/15/1987	12/15/1987	12/15/1987	12/15/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	WYRHR	TSC-SLC	WYRHR
	LAB NUMBER	87-11034	87-11446	8712-82	87-11447	8712-84
	SAMPLE NUMBER	AEH-8712-22	AEH-8712-82	AEH-8712-82	AEH-8712-84	AEH-8712-84
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS			Split	Field Duplicate	Field Duplicate

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)	95	<1 J	100 J	4.1 J	
Calcium (Ca) (DIS)	146.5	151	133	149	135
Carbonate As CO3	<1	<1 J	<5	<1 J	
Chloride (Cl)	101	109	100	105	
Magnesium (Mg) (DIS)	17.5	23.5	15.7	24	16.5
Potassium (K) (DIS)	64	99	62.1	92	68.3
Sodium (Na) (DIS)	239	345	313	340	329
Sulfate (SO4)	800	1130 J	1080	1100 J	

**Metals: ppm unless noted**

Arsenic (As) (DIS)	33.5	90.6	85.8	83.4	81.3
Arsenic (As) (TOT)	37.8	93.8	90.3	93.1	89.4
Cadmium (Cd) (DIS)	0.2	4.9	4.8	4.8	4.7
Cadmium (Cd) (TOT)	0.8	7.3	6.8	7.3	6.8
Copper (Cu) (DIS)	0.02	0.02 J	0.03	0.03 J	0.03
Copper (Cu) (TOT)	0.5	2.3 J	1.5 J	2.4 J	1.6 J
Iron (Fe) (DIS)	0.05	0.09 J	0.1	0.1	0.1
Iron (Fe) (TOT)	1.7	6.08	5.05	6.2	4.9
Lead (Pb) (DIS)	0.02	0.04	0.05	0.04	0.07
Lead (Pb) (TOT)	6.8	34.4	28.3	35.6	31
Manganese (Mn) (DIS)	1.7	1.7 J	1.7	4.5 J	4.5
Manganese (Mn) (TOT)	2.2	3.2 J	2.8	4.9 J	3
Zinc (Zn) (DIS)	0.08	1.7 J	1.9	5.4	6.05
Zinc (Zn) (TOT)	1.8	9	7.4	9.3	7.6

**Physical/Fid-Lab: ppm unless noted**

pH	7.5	5.1		5.2	
pH (Fid)	8.9	7.5	7.5	7.5	
SC (umhos/cm at 25 C) (Fid)	1986	2433	2435.6	2429	2431
SC (umhos/cm at 25 C)	1900	2500		2510	
Total Suspended Solids	40.7	322		403	
TDS (Measured at 180 C)	1544	1861 J	2160	2091 J	
Water Temperature (C) (Fid)	5.8	4.6	4.6	4.6	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	TRWASH	TRWASH	TT-1	TT-1	TT-1
Unknown	SAMPLE DATE	5/13/1987	5/13/1987	11/8/1984	11/8/1984	11/8/1984
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	CHMTC	TSC-SLC	TSC-SLC	CAL	TSC-SLC
	LAB NUMBER	8705-11	87-3323	84-11003	S5464	84-11011
	SAMPLE NUMBER	AEH-8705-11	AEH-8705-11	AEH-8411-38	AEH-8411-38-S	AEH-8411-43
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Split			Split	

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)		89	218	232	217
Calcium (Ca) (DIS)	446	482	93	73.9	95
Chloride (Cl)	175	140	59	180	60
Magnesium (Mg) (DIS)	64.5	66	15	11.8	15
Potassium (K) (DIS)	370	101	50	32.2	50
Sodium (Na) (DIS)	650	665	318	295	328
Sulfate (SO4)	2049	380	578	570	571
Total Alkalinity As CaCO3	56		179	190	178

**Metals: ppm unless noted**

Aluminum (Al) (DIS)				<0.2	
Aluminum (Al) (TOT)				0.2	
Antimony (Sb) (DIS)				0.7	
Antimony (Sb) (TOT)				0.7	
Arsenic (As) (DIS)	0.3	0.5	31	26.3	24
Arsenic (As) (TOT)	5	0.6	36	27.8	29
Barium (Ba) (DIS)				0.03	
Barium (Ba) (TOT)				0.04	
Beryllium (Be) (DIS)				<0.0006	
Beryllium (Be) (TOT)				<0.0006	
Cadmium (Cd) (DIS)	90.7	93.5	0.4	0.4	0.3
Cadmium (Cd) (TOT)	86.5	103.4	1.2	1.06	1.1
Chromium (Cr) (DIS)				<0.002	
Chromium (Cr) (TOT)				0.003	
Cobalt (Co) (DIS)				0.08	
Cobalt (Co) (TOT)				0.09	
Copper (Cu) (DIS)	0.06	0.07	0.02	0.01	0.02
Copper (Cu) (TOT)	0.3	0.4	1.2	0.9	0.7
Iron (Fe) (DIS)	<0.1	0.07	0.1	0.1	0.2
Iron (Fe) (TOT)	0.6	0.5	2.3	1.3	1.5
Lead (Pb) (DIS)	1.5	1.3 M	0.05	0.04	0.08
Lead (Pb) (TOT)	2.7	3.3 M	7.1	<0.003	3.8
Manganese (Mn) (DIS)	57.7	50	1.3	1.3	1.4
Manganese (Mn) (TOT)	53.5	52.8	1.7	1.3	1.6
Mercury (Hg) (DIS)				0.0002	
Mercury (Hg) (TOT)				0.005	
Nickel (Ni) (DIS)				0.04	
Nickel (Ni) (TOT)				0.05	
Selenium (Se) (DIS)				0.008	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	TRWASH	TRWASH	TT-1	TT-1	TT-1
Unknown	SAMPLE DATE	5/13/1987	5/13/1987	11/8/1984	11/8/1984	11/8/1984
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	CHMTC	TSC-SLC	TSC-SLC	CAL	TSC-SLC
	LAB NUMBER	8705-11	87-3323	84-11003	S5464	84-11011
	SAMPLE NUMBER	AEH-8705-11	AEH-8705-11	AEH-8411-38	AEH-8411-38-S	AEH-8411-43
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Split			Split	

**Metals: ppm unless noted**

Selenium (Se) (TOT)					0.005	
Silver (Ag) (DIS)					<0.003	
Silver (Ag) (TOT)					0.003	
Thallium (Tl) (DIS)					0.2	
Thallium (Tl) (TOT)					0.2	
Tin (Sn) (DIS)					<0.04	
Tin (Sn) (TOT)					<0.04	
Vanadium (V) (DIS)					<0.004	
Vanadium (V) (TOT)					<0.004	
Zinc (Zn) (DIS)	327	290		0.3	0.2	0.4
Zinc (Zn) (TOT)	301	330		2.8	1.7	2

**Physical/Fld-Lab: ppm unless noted**

pH		7.03		8	7.8	7.9
pH (Fld)	7	7				
SC (umhos/cm at 25 C) (Fld)	5589	5589		2103		2105
SC (umhos/cm at 25 C)		5500		1200	1300	1530
Total Suspended Solids		35.3			14	
TDS (Measured at 180 C)	3511	5535		1408	1500	1447
Water Temperature (C) (Fld)	18	18				

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	TT-1	TT-1	TT-1	TT-1	TT-1	TT-1
Unknown	SAMPLE DATE	11/8/1984	4/4/1985	6/5/1985	8/6/1985	7/2/1987	10/20/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	CAL	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	WYRHR
	LAB NUMBER	S5404	85-2346	85-4092	85-6036	87-5177	8710-3
	SAMPLE NUMBER	AEH-8411-43-S	AEH-8504-311	AEH-8506-530	AEH-8508-738	AEH-8707-106	AEH-8710-3
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split					Split

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)	231	99	108	178	181	80
Calcium (Ca) (DIS)	71.8	78	92	77	129	132
Carbonate As CO3					<1	5
Chloride (Cl)	190	101	77	88	130	84
Magnesium (Mg) (DIS)	11.9	15	13.8	14.4	13.6	17.2
Potassium (K) (DIS)	30.9	27	33	33	73	51.5
Sodium (Na) (DIS)	294	98	184	191	420	220
Sulfate (SO4)	500	471	395	399	1000	720
Total Alkalinity As CaCO3	189	81	88.9	146		

**Metals: ppm unless noted**

Aluminum (Al) (DIS)	<0.2					
Aluminum (Al) (TOT)	0.3					
Antimony (Sb) (DIS)	0.7					
Antimony (Sb) (TOT)	0.8					
Arsenic (As) (DIS)	30	9.1	6.3	11.1		16.4
Arsenic (As) (TOT)	26.7	13.8	9.6	11.4	29.7	19.4
Barium (Ba) (DIS)	0.03					
Barium (Ba) (TOT)	0.05					
Beryllium (Be) (DIS)	<0.0006					
Beryllium (Be) (TOT)	<0.0006					
Cadmium (Cd) (DIS)	0.4	2.1	0.4	0.02		0.7
Cadmium (Cd) (TOT)	1.3	2.6	1.7	0.2	5.6	1
Chromium (Cr) (DIS)	<0.002					
Chromium (Cr) (TOT)	<0.002					
Cobalt (Co) (DIS)	0.08					
Cobalt (Co) (TOT)	0.1					
Copper (Cu) (DIS)	0.01	0.02	0.03	0.02		0.2
Copper (Cu) (TOT)	1.02	1.08	2.03	0.2	38.3	0.5
Iron (Fe) (DIS)	0.1	0.05	0.1	0.05		0.8
Iron (Fe) (TOT)	1.8	3.4	5.1	0.9	38	2
Lead (Pb) (DIS)	0.04	0.05	0.06	0.005		2.3
Lead (Pb) (TOT)	<0.003	8.8	20.9	1.6	76	9.09
Manganese (Mn) (DIS)	1.3	3	1.3	0.6		3.9
Manganese (Mn) (TOT)	1.6	3.5	2	1.03	4.9	4.1
Mercury (Hg) (DIS)	0.0003					
Mercury (Hg) (TOT)	0.007					
Nickel (Ni) (DIS)	0.05					
Nickel (Ni) (TOT)	0.07					

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	TT-1	TT-1	TT-1	TT-1	TT-1	TT-1
Unknown	SAMPLE DATE	11/8/1984	4/4/1985	6/5/1985	8/6/1985	7/2/1987	10/20/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	CAL	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	WYRHR
	LAB NUMBER	S5404	85-2346	85-4092	85-6036	87-5177	8710-3
	SAMPLE NUMBER	AEH-8411-43-S	AEH-8504-311	AEH-8506-530	AEH-8508-738	AEH-8707-106	AEH-8710-3
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS	Split					Split

**Metals: ppm unless noted**

Selenium (Se) (DIS)	0.007						
Selenium (Se) (TOT)	0.004						
Silver (Ag) (DIS)	<0.003						
Silver (Ag) (TOT)	<0.003						
Thallium (Tl) (DIS)	0.2						
Thallium (Tl) (TOT)	0.2						
Tin (Sn) (DIS)	<0.04						
Tin (Sn) (TOT)	<0.04						
Vanadium (V) (DIS)	<0.004						
Vanadium (V) (TOT)	<0.004						
Zinc (Zn) (DIS)	0.3	9.9	0.5	0.06			2.2
Zinc (Zn) (TOT)	2.2	11.8	7.3	1	34		3.5

**Physical/Fld-Lab: ppm unless noted**

pH	7.9	6.4	7.6	7.9	7.8		
pH (Fld)							7.2
SC (umhos/cm at 25 C) (Fld)		1452	1303	1363			859
SC (umhos/cm at 25 C)	1300	1520	1410	1440	27500		
Total Suspended Solids	22	48.8	51	36.6	698		
TDS (Measured at 180 C)	1400	1015	987	1005	1557		1400
Water Temperature (C) (Fld)							10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	TT-1	TT-1	TT-1	TT-1	TT-1	TT-1
Unknown	SAMPLE DATE	10/20/1987	11/4/1987	11/18/1987	11/18/1987	12/1/1987	12/15/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	RMAL	TSC-SLC	TSC-SLC
	LAB NUMBER	87-9515	87-10026	87-10556	8711-53	87-11033	87-11448
	SAMPLE NUMBER	AEH-8710-3	AEH-8711-13	AEH-8711-53	AEH-8711-53	AEH-8712-13	AEH-8712-73
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Split		

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)	104	70	22 J		111	89 J
Calcium (Ca) (DIS)	168	146	124	139	146.5	124
Carbonate As CO3	<1	<1	161 J		<1	<1 J
Chloride (Cl)	80	95	91		102	107
Magnesium (Mg) (DIS)	18.5	18.9	2.9 J	15.5	18	21
Potassium (K) (DIS)	59	64	67.4	54.5	69	69.7
Sodium (Na) (DIS)	262	238	436 J	264	240	265
Sulfate (SO4)	790	807 M	830 J		800	860 J
Total Alkalinity As CaCO3			286			

**Metals: ppm unless noted**

Aluminum (Al) (DIS)				0.02		
Aluminum (Al) (TOT)				0.8		
Antimony (Sb) (DIS)				0.5		
Antimony (Sb) (TOT)				0.8		
Arsenic (As) (DIS)	20.1	20.3	23.3	22	21.8	35.5 J
Arsenic (As) (TOT)	19.6 M	23.1	41.3	40	26.3	37.8
Barium (Ba) (DIS)				0.06		
Barium (Ba) (TOT)				0.04		
Beryllium (Be) (DIS)				0.001		
Beryllium (Be) (TOT)				0.001		
Cadmium (Cd) (DIS)	0.7	1.3	0.003	0.005	0.1	1.2
Cadmium (Cd) (TOT)	1.01	2.8 M	1.1	1.06	1	1.9
Chromium (Cr) (DIS)				0.005		
Chromium (Cr) (TOT)				0.005		
Cobalt (Co) (DIS)				0.03		
Cobalt (Co) (TOT)				0.2		
Copper (Cu) (DIS)	0.2	0.04	0.01	0.009	0.02	0.02 J
Copper (Cu) (TOT)	0.9 M	0.5	1.7 J	0.2	2.6 J	0.7 J
Iron (Fe) (DIS)	0.7 M	0.06	0.04	0.03	0.04	0.06
Iron (Fe) (TOT)	2.4	1.8	3.3 J	1.4	6.3 J	2.3
Lead (Pb) (DIS)	1.5 M	0.02	<0.01	0.001	0.02	0.03
Lead (Pb) (TOT)	11.6	2.2	21.9 J	4.8	38.3 J	2.3
Manganese (Mn) (DIS)	3.3 M	3.1	0.03	1.2	2.01	1.9 J
Manganese (Mn) (TOT)	3.8 M	3.4	4.04	4.5	3.5	2.2 J
Mercury (Hg) (DIS)				0.0002		
Mercury (Hg) (TOT)				0.6		
Nickel (Ni) (DIS)				0.03		
Nickel (Ni) (TOT)				0.09		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	TT-1	TT-1	TT-1	TT-1	TT-1	TT-1
Unknown	SAMPLE DATE	10/20/1987	11/4/1987	11/18/1987	11/18/1987	12/1/1987	12/15/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	RMAL	TSC-SLC	TSC-SLC
	LAB NUMBER	87-9515	87-10026	87-10556	8711-53	87-11033	87-11448
	SAMPLE NUMBER	AEH-8710-3	AEH-8711-13	AEH-8711-53	AEH-8711-53	AEH-8712-13	AEH-8712-73
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS				Split		

**Metals: ppm unless noted**

Silver (Ag) (DIS)					0.005		
Silver (Ag) (TOT)					0.005		
Vanadium (V) (DIS)					0.003		
Vanadium (V) (TOT)					0.006		
Zinc (Zn) (DIS)	2.4	1.7	<0.008	0.01	0.08	0.5	
Zinc (Zn) (TOT)	4.5	4.6	4.6 J	2.5	6.9 J	2.4	

**Physical/Fld-Lab: ppm unless noted**

pH	7.8	8	10.3 J		7.8	7
pH (Fld)	7.2			11.4		
SC (umhos/cm at 25 C) (Fld)	1867			2394.2	2033	2043
SC (umhos/cm at 25 C)	1900	1970	2290 J		1990	1980
Total Suspended Solids	36.4	51.3	253 J		146	42
TDS (Measured at 180 C)	1552	1440	1644 J		1551	1550 J
Water Temperature (C) (Fld)	10			2.9		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	UPPER LAKE	UPPER LAKE	UPPER LAKE	UPPER LAKE	UPPER LAKE	UPPER LAKE
Unknown	SAMPLE DATE	11/7/1984	11/7/1984	11/7/1984	11/7/1984	4/4/1985	6/6/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	CAL	TSC-SLC	CAL	TSC-SLC	TSC-SLC
	LAB NUMBER	84-10999	S5403	84-11007	S5468	85-2344	85-4089
	SAMPLE NUMBER	AEH-8411-36	AEH-8411-36-S	AEH-8411-40	AEH-8411-40-S	AEH-8504-309	AEH-8506-507
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Split		Split		

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)	115	122	112	115	88
Calcium (Ca) (DIS)	34	28.4	35	27.5	29
Chloride (Cl)	6.3	5	6.3	4	2.3
Magnesium (Mg) (DIS)	8.2	6.8	8.3	<0.4	6.8
Potassium (K) (DIS)	3	1.8	2.8	1.02	3.5
Sodium (Na) (DIS)	13	20.2	13	18.4	13
Sulfate (SO4)	49	51	563	52	41.9
Total Alkalinity As CaCO3	94	100	92	94	72

**Metals: ppm unless noted**

Aluminum (Al) (DIS)		0.3		<0.2	
Aluminum (Al) (TOT)		<0.2		0.3	
Antimony (Sb) (DIS)		<0.01		<0.01	
Antimony (Sb) (TOT)		<0.01		<0.01	
Arsenic (As) (DIS)	0.008	0.01	0.004	0.006	<0.004
Arsenic (As) (TOT)	0.01	0.01	0.009	0.01	0.01
Barium (Ba) (DIS)		0.03		0.03	
Barium (Ba) (TOT)		0.03		0.03	
Beryllium (Be) (DIS)		<0.0006		<0.0006	
Beryllium (Be) (TOT)		<0.0006		<0.0006	
Cadmium (Cd) (DIS)	<0.001	<0.004	0.003	<0.004	<0.001
Cadmium (Cd) (TOT)	0.001	<0.004	0.004	<0.004	0.001
Chromium (Cr) (DIS)		<0.002		<0.002	
Chromium (Cr) (TOT)		<0.002		0.005	
Cobalt (Co) (DIS)		<0.007		<0.007	
Cobalt (Co) (TOT)		<0.007		<0.007	
Copper (Cu) (DIS)	<0.008	0.007	<0.008	0.02	<0.008
Copper (Cu) (TOT)	0.008	0.006	0.008	0.007	0.01
Iron (Fe) (DIS)	0.1	0.6	0.1	0.1	0.1
Iron (Fe) (TOT)	0.4	0.08	0.5	0.5	1.05
Lead (Pb) (DIS)	<0.005	0.08	0.005	0.05	<0.005
Lead (Pb) (TOT)	0.02	<0.003	0.01	0.006	0.02
Manganese (Mn) (DIS)	0.2	0.1	0.2	0.1	0.08
Manganese (Mn) (TOT)	0.2	0.2	0.2	0.2	0.1
Mercury (Hg) (DIS)		<0.0002		<0.0002	
Mercury (Hg) (TOT)		<0.0002		<0.0002	
Nickel (Ni) (DIS)		<0.03		<0.03	
Nickel (Ni) (TOT)		<0.03		<0.03	
Selenium (Se) (DIS)		<0.002		<0.002	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	UPPER LAKE	UPPER LAKE	UPPER LAKE	UPPER LAKE	UPPER LAKE	UPPER LAKE
Unknown	SAMPLE DATE	11/7/1984	11/7/1984	11/7/1984	11/7/1984	4/4/1985	6/6/1985
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	CAL	TSC-SLC	CAL	TSC-SLC	TSC-SLC
	LAB NUMBER	84-10999	S5403	84-11007	S5468	85-2344	85-4089
	SAMPLE NUMBER	AEH-8411-36	AEH-8411-36-S	AEH-8411-40	AEH-8411-40-S	AEH-8504-309	AEH-8506-507
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI	RI
	DESCRIPTION						
	REMARKS		Split		Split		

**Metals: ppm unless noted**

Selenium (Se) (TOT)		<0.002		<0.002			
Silver (Ag) (DIS)		<0.003		<0.003			
Silver (Ag) (TOT)		<0.003		<0.003			
Thallium (Tl) (DIS)		<0.002		<0.002			
Thallium (Tl) (TOT)		<0.002		<0.002			
Tin (Sn) (DIS)		<0.04		<0.04			
Tin (Sn) (TOT)		<0.04		<0.04			
Vanadium (V) (DIS)		<0.004		<0.004			
Vanadium (V) (TOT)		<0.004		0.005			
Zinc (Zn) (DIS)	0.04	0.05	0.03	0.04	0.04		0.04
Zinc (Zn) (TOT)	0.06	0.03	0.03	0.06	0.07		0.1

**Physical/Fid-Lab: ppm unless noted**

pH	8	8	8	8	6.4		
SC (umhos/cm at 25 C) (Fid)	298.9		296.8		262.5		228.4
SC (umhos/cm at 25 C)	170		165		279		
Total Suspended Solids		7		16	14.4		
TDS (Measured at 180 C)	194	240	198	200	190		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	UPPER LAKE	UPPER LAKE	UPPER LAKE	UPPER LAKE	UPPER LAKE
Unknown	SAMPLE DATE	6/6/1985	6/6/1985	6/6/1985	8/6/1985	11/7/2002
	SAMPLE TIME	00:00	00:00	00:00	00:00	12:30
	LAB	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	85-4102	85-4090	85-4103	85-6034	L020928006
	SAMPLE NUMBER	AEH-8506-507-D	AEH-8506-528	AEH-8506-528-D	AEH-8508-736	EHC-0211-225
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS	Field Duplicate		Field Duplicate		

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)	86	124	118
Calcium (Ca) (DIS)	25	34	37
Carbonate As CO3			<1
Chloride (Cl)	<2	4.6	9.9
Magnesium (Mg) (DIS)	6.2	8.6	8.4
Potassium (K) (DIS)	2.4	3.9	<5
Sodium (Na) (DIS)	12.8	20	18
Sulfate (SO4)	36.7	50.5	64
Total Alkalinity As CaCO3	70.6	102	97

**Metals: ppm unless noted**

Antimony (Sb) (TOT)	<10	<10	
Arsenic (As) (DIS)		0.007	0.02
Arsenic (As) (TOT)	127	0.01	83
Barium (Ba) (TOT)	130		115
Cadmium (Cd) (DIS)		0.001	<0.001
Cadmium (Cd) (TOT)	70	0.003	48
Chromium (Cr) (TOT)	50		45
Cobalt (Co) (TOT)	16		16
Copper (Cu) (DIS)		0.01	0.008
Copper (Cu) (TOT)	405	0.02	280
Iron (Fe) (DIS)		0.03	0.04
Iron (Fe) (TOT)	45000	0.3	40500
Lead (Pb) (DIS)		<0.005	<0.005
Lead (Pb) (TOT)	1925	0.09	1350
Manganese (Mn) (DIS)		0.07	0.08
Manganese (Mn) (TOT)	950	0.07	800
Mercury (Hg) (TOT)	3.2		2.5
Silver (Ag) (TOT)	14		7.5
Vanadium (V) (TOT)	<100		<100
Zinc (Zn) (DIS)		0.04	0.008
Zinc (Zn) (TOT)	2950	0.08	2125

**Physical/Fld-Lab: ppm unless noted**

Oxygen (O) (DIS) (Fld)			7
pH	7.7	8.2	6.9
pH (Fld)			6.3
SC (umhos/cm at 25 C) (Fld)	228.4	327.8	298
SC (umhos/cm at 25 C)	243	340	340
Total Suspended Solids	9.9	2.8	76
TDS (Measured at 180 C)	165	221	231

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.



# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	UPPER LAKE
Unknown	SAMPLE DATE	11/7/2002
	SAMPLE TIME	12:30
	LAB	TSC-SLC
	LAB NUMBER	L020928006
	SAMPLE NUMBER	EHC-0211-225
	TYPE	Process Water
	GROUP	RI
	DESCRIPTION	
	REMARKS	

Physical/Fid-Lab: ppm unless noted

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Water Temperature (C) (Fld)

1.6

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	WASHER	ZP-1	ZP-1	ZP-1	ZP-1
Unknown	SAMPLE DATE	8/3/1988	10/21/1987	10/21/1987	11/4/1987	11/17/1987
	SAMPLE TIME	00:00	00:00	00:00	00:00	00:00
	LAB	TSC-SLC	WYRHR	TSC-SLC	TSC-SLC	TSC-SLC
	LAB NUMBER	88-5017	8710-13	87-9509	87-10006	87-10550
	SAMPLE NUMBER	AEH-8808-201	AEH-8710-13	AEH-8710-13	AEH-8711-23	AEH-8711-63
	TYPE	Process Water	Process Water	Process Water	Process Water	Process Water
	GROUP	RI	RI	RI	RI	RI
	DESCRIPTION					
	REMARKS		Split			
<b>Common Ions: ppm unless noted</b>						
	Bicarbonate (HCO3)	132	120	154	148 M	1364 J
	Calcium (Ca) (DIS)	26	171	188	264 M	204
	Carbonate As CO3	<1	<5 M	<1	<1 M	<1
	Chloride (Cl)	5.9	110	112	147	125
	Magnesium (Mg) (DIS)	5.7	20.5	22.6	27.8	27.8
	Potassium (K) (DIS)	3.5	107	123	250	172
	Sodium (Na) (DIS)	29	307 M	320	480 M	400
	Sulfate (SO4)	35	1000 M	1080	1572 M	1280 J
<b>Metals: ppm unless noted</b>						
	Arsenic (As) (DIS)	1.1	11.4	13.1	11.3	
	Arsenic (As) (TOT)	3.3	13.5	15.3	12.9	
	Cadmium (Cd) (DIS)	0.008	0.07	0.06	0.09	
	Cadmium (Cd) (TOT)	1	0.4	0.3	0.4	
	Copper (Cu) (DIS)	0.02	0.05	0.04	0.07	
	Copper (Cu) (TOT)	9.5	1.3	1.5	2.3	
	Iron (Fe) (DIS)	0.06	0.03	0.05	0.06	
	Iron (Fe) (TOT)	13.3	4.4	3.9	4.4	
	Lead (Pb) (DIS)	1.4	0.05 M	0.03	0.03	
	Lead (Pb) (TOT)	39.8	4.9 M	4.9	6.4	
	Manganese (Mn) (DIS)	0.009	0.9	0.7 M	0.9	
	Manganese (Mn) (TOT)	0.6	1.4	1.3 M	1.01	
	Zinc (Zn) (DIS)	0.02	0.3 M	0.3	0.8	
	Zinc (Zn) (TOT)	7.2	7.6 M	7.2	6.03	
<b>Physical/Fid-Lab: ppm unless noted</b>						
	Oxygen (O) (DIS) (Fld)				8.06	
	pH	7.9		8.09	8.1	7.6 J
	pH (Fld)		8	8	7.9	7.9
	SC (umhos/cm at 25 C) (Fld)		2551	2550	3729 M	2944
	SC (umhos/cm at 25 C)	290		2580	3560	3450 J
	Total Suspended Solids	138		61.6	50.4	2826 J
	TDS (Measured at 180 C)	288 J	1900	2103	2918	2375 J
	Water Temperature (C) (Fld)		9	9	7.9	4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	ZP-1	ZP-1
Unknown	SAMPLE DATE	11/17/1987	11/30/1987
	SAMPLE TIME	00:00	00:00
	LAB	RMAL	TSC-SLC
	LAB NUMBER	8711-63	87-11026
	SAMPLE NUMBER	AEH-8711-63	AEH-8712-23
	TYPE	Process Water	Process Water
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS	Split	

**Common Ions: ppm unless noted**

Bicarbonate (HCO3)		181
Calcium (Ca) (DIS)	201	200
Carbonate As CO3		<1
Chloride (Cl)		133
Magnesium (Mg) (DIS)	26.3	24.5
Potassium (K) (DIS)	151	169
Sodium (Na) (DIS)	356	402
Sulfate (SO4)		1320

**Metals: ppm unless noted**

Aluminum (Al) (DIS)	<0.02	
Aluminum (Al) (TOT)	19.8	
Antimony (Sb) (DIS)	0.5	
Antimony (Sb) (TOT)	6.2	
Arsenic (As) (DIS)	14.3	15.6
Arsenic (As) (TOT)	41.5 J	16.5
Barium (Ba) (DIS)	0.1	
Barium (Ba) (TOT)	1.6	
Beryllium (Be) (DIS)	<0.001	
Beryllium (Be) (TOT)	<0.004	
Cadmium (Cd) (DIS)	0.1	0.1
Cadmium (Cd) (TOT)	8 J	0.5
Chromium (Cr) (DIS)	<0.005	
Chromium (Cr) (TOT)	0.1	
Cobalt (Co) (DIS)	0.03	
Cobalt (Co) (TOT)	0.5	
Copper (Cu) (DIS)	0.05	0.09
Copper (Cu) (TOT)	37.2 J	1.4
Iron (Fe) (DIS)	<0.03	0.06
Iron (Fe) (TOT)	129 J	3.2
Lead (Pb) (DIS)	<0.01 J	0.04
Lead (Pb) (TOT)	130 J	5.5
Manganese (Mn) (DIS)	1.8 J	0.9
Manganese (Mn) (TOT)	11.8 J	1
Mercury (Hg) (DIS)	0.0002	
Mercury (Hg) (TOT)	0.1	
Nickel (Ni) (DIS)	0.02	
Nickel (Ni) (TOT)	0.4 J	
Silver (Ag) (DIS)	<0.005	

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	ZP-1	ZP-1
Unknown	SAMPLE DATE	11/17/1987	11/30/1987
	SAMPLE TIME	00:00	00:00
	LAB	RMAL	TSC-SLC
	LAB NUMBER	8711-63	87-11026
	SAMPLE NUMBER	AEH-8711-63	AEH-8712-23
	TYPE	Process Water	Process Water
	GROUP	RI	RI
	DESCRIPTION		
	REMARKS	Split	

**Metals: ppm unless noted**

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Silver (Ag) (TOT)	1.2	
Vanadium (V) (DIS)	<0.002	
Vanadium (V) (TOT)	0.05	
Zinc (Zn) (DIS)	0.9 J	0.6
Zinc (Zn) (TOT)	221 J	8.03

**Physical/Fld-Lab: ppm unless noted**

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pH		8
pH (Fld)	7.9	8.4
SC (umhos/cm at 25 C) (Fld)		3187
SC (umhos/cm at 25 C)		2910
Total Suspended Solids		93
TDS (Measured at 180 C)		985.6 J
Water Temperature (C) (Fld)	4	1.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>UPPER LAKE</b>
<b>Water</b>	SAMPLE DATE	5/6/2009
	SAMPLE TIME	13:45
	LAB	ELI
	LAB NUMBER	H09050140-001
	SAMPLE NUMBER	AEH-0905-135
	TYPE	Process Water
	GROUP	RI
	DESCRIPTION	
	REMARKS	

**Common Ions (mg/L): ppm unless noted**

Bicarbonate (HCO3)	66
Calcium (Ca) (DIS)	22
Chloride (Cl)	3
Magnesium (Mg) (DIS)	5
Potassium (K) (DIS)	2
Sodium (Na) (DIS)	8
Sulfate (SO4)	33
Total Alkalinity As CaCO3	54

**Metals (mg/L): ppm unless noted**

Aluminum (Al) (DIS)	<0.05
Aluminum (Al) (TOT)	0.23
Aluminum (Al) (TRC)	0.22
Antimony (Sb) (DIS)	<0.003
Antimony (Sb) (TOT)	<0.003
Antimony (Sb) (TRC)	<0.003
Arsenic (As) (DIS)	0.004
Arsenic (As) (TOT)	0.0068
Arsenic (As) (TRC)	0.0072
Barium (Ba) (DIS)	<0.1
Barium (Ba) (TOT)	<0.1
Barium (Ba) (TRC)	<0.1
Beryllium (Be) (DIS)	<0.001
Beryllium (Be) (TOT)	<0.001
Beryllium (Be) (TRC)	<0.001
Cadmium (Cd) (DIS)	0.0011
Cadmium (Cd) (TOT)	0.003
Cadmium (Cd) (TRC)	0.0031
Chromium (Cr) (DIS)	<0.001
Chromium (Cr) (TOT)	0.006
Chromium (Cr) (TRC)	<0.001
Cobalt (Co) (DIS)	<0.0005
Cobalt (Co) (TOT)	<0.0005
Cobalt (Co) (TRC)	<0.0005
Copper (Cu) (DIS)	0.003
Copper (Cu) (TOT)	0.011
Copper (Cu) (TRC)	0.01
Gold (Au) (DIS)	<0.01 UJ
Gold (Au) (TOT)	<0.01

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

<b>Sample Matrix</b>	<b>STATION</b>	<b>UPPER LAKE</b>
<b>Water</b>	SAMPLE DATE	5/6/2009
	SAMPLE TIME	13:45
	LAB	ELI
	LAB NUMBER	H09050140-001
	SAMPLE NUMBER	AEH-0905-135
	TYPE	Process Water
	GROUP	RI
	DESCRIPTION	
	REMARKS	

**Metals (mg/L): ppm unless noted**

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Gold (Au) (TRC)	<0.01
Iron (Fe) (DIS)	0.04
Iron (Fe) (TOT)	0.33
Iron (Fe) (TRC)	0.33
Lead (Pb) (DIS)	0.0053
Lead (Pb) (TOT)	0.0444
Lead (Pb) (TRC)	0.0445
Manganese (Mn) (DIS)	0.03
Manganese (Mn) (TOT)	0.04
Manganese (Mn) (TRC)	0.05
Mercury (Hg) (DIS)	0.0000137
Mercury (Hg) (TOT)	0.000043
Nickel (Ni) (DIS)	<0.01
Nickel (Ni) (TOT)	<0.01
Nickel (Ni) (TRC)	<0.01
Selenium (Se) (DIS)	<0.001
Selenium (Se) (TOT)	0.001
Selenium (Se) (TRC)	0.001
Silver (Ag) (DIS)	<0.0005
Silver (Ag) (TOT)	<0.0005
Silver (Ag) (TRC)	<0.0005
Tellurium (Te) (DIS)	<0.1
Tellurium (Te) (TOT)	<0.1
Tellurium (Te) (TRC)	<0.1
Thallium (Tl) (DIS)	<0.0002
Thallium (Tl) (TOT)	<0.0002
Thallium (Tl) (TRC)	<0.0002
Vanadium (V) (DIS)	<0.01
Vanadium (V) (TOT)	<0.01
Vanadium (V) (TRC)	<0.01
Zinc (Zn) (DIS)	0.04 J
Zinc (Zn) (TOT)	0.06
Zinc (Zn) (TRC)	0.06

**Physical/Fid-Lab: ppm unless noted**

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Oxygen (O) (DIS) (Fld)	9.47
pH	8.4
pH (Fld)	7.58
SC (umhos/cm at 25 C) (Fld)	191

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**

# ANALYSES SUMMARY REPORT

## East Helena Water -Historical Plant Site Process Water Data

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	UPPER LAKE
Water	SAMPLE DATE	5/6/2009
	SAMPLE TIME	13:45
	LAB	ELI
	LAB NUMBER	H09050140-001
	SAMPLE NUMBER	AEH-0905-135
	TYPE	Process Water
	GROUP	RI
	DESCRIPTION	
	REMARKS	

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**Physical/Fid-Lab: ppm unless noted**

SC (umhos/cm at 25 C)	197
Total Suspended Solids	<10
TDS (Measured at 180 C)	134
Water Temperature (C) (Fid)	9.3

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

**NOTE: Table 1 lists data validation flagging descriptions.**