APPENDIX B

Data Summary Report
For
2007 Surface Water Monitoring

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List of Tables

Attachment

I. Introduction

This data summary report presents the results of surface water sampling and for the 2006-2007 water-year at the Leviathan Mine Site, as described in the Work Plan for 2007 Site Work by the California Regional Water Quality Control Board, Lahontan Region. The 2006-2007 water-year is the period from October 1, 2006, to September 30, 2007. The information in this report was gathered following the objectives and quality assurance (QA) and quality control (QC) procedures documented in the Sampling and Analysis Plan for Leviathan Mine Site Surface Water Monitoring (SWM SAP). Overall site objectives and requirements are outlined in the 2002 Leviathan Mine Site Site-Wide Sampling and Analysis Plan. The following information is included in the this summary:

- Results of field measurements and laboratory analyses (Tables B-14 to B-25)
- Flow monitoring data (Tables B-1 to B-13)
- Data Validation Checklist for Field QC and Level A/B Screening Checklists

The SWM SAP, field notebook, and monitoring program records for this project are located at the California Regional Water Quality Control Board, Lahontan Region (Water Board) offices in South Lake Tahoe, California, and are available for review. The results of this investigation supplement the existing data contained within the Leviathan Mine Site-wide database that is maintained by Atlantic Richfield Company (ARC). All surface water analytical data and flow monitoring data are forwarded to ARC for incorporation into the Site-wide database.

Table B-1
Adit Flows

1 U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

STATION NUMBER 10308784 LEVIATHAN MINE ADIT DRAIN NR MARKLEEVILLE CA STREAM SOURCE AGENCY USGS STATE 06 COUNTY 003

LATITUDE 384215 LONGITUDE 1193928 NAD27 DRAINAGE AREA CONTRIBUTING DRAINAGE AREA DATUM 7100 NGVD29

Date Processed: 2007-11-13 11:05 By phoneywe

Lowest aging status in period is APPROVED

DD #4

Discharge, gallons per minute

WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.374	16.987	16.65	15.953	15.339	15.125	14.429	14.78	13.662	12.71	11.836	11.215
2	17.406	16.82	16.719	15.895	15.345	14.977	14.318	15.122	13.376	12.575	11.694	11.127
3	17.621	16.831	16.488	15.648	15.257	14.909	14.201	15.214	13.048	12.599	11.871	11.303
4	17.535	16.862	16.625	15.845	15.176	14.863	14.299	15.179	13.154	12.586	11.838	11.337
5	17.681	16.725	16.538	15.777	15.071	14.615	14.33	15.165	13.631	12.428	11.875	11.407
6	17.594	16.581	16.531	15.752	15.149	14.612	14.517	14.989	13.736	12.374	11.964	11.388
7	17.379	16.444	16.369	15.802	15.196	14.645	14.521	14.701	13.855	12.387	11.958	11.307
8	17.46	16.675	16.482	15.753	15.073	14.524	14.545	14.544	13.537	12.456	11.915	11.339
9	17.433	16.769	16.338	15.782	14.933	14.612	14.439	14.508	13.299	12.325	11.764	11.146
10	17.507	16.819	16.407	15.787	15.208	14.645	14.853	14.397	13.142	12.584	11.947	11.277
11	17.386	16.726	16.339	15.924	15.135	14.616	15.163	14.446	13.155	12.483	11.952	11.493
12	17.353	16.912	16.045	15.862	15.214	14.551	15.162	14.523	13.032	12.395	11.803	11.222
13	17.285	16.9	15.952	15.908	15.26	14.38	15.061	14.644	13.005	12.374	11.69	11.244
14	17	16.55	15.894	15.673	15.043	14.345	15.151	14.607	12.927	12.414	11.644	11.478
15	16.937	16.525	16.052	15.678	14.865	14.541	15.336	14.733	12.82	12.187	11.496	11.579
16	17	16.226	16.644	15.907	14.854	14.407	15.055	14.45	12.831	12.231	11.632	11.57
17	16.887	16.382	16.232	15.507	14.937	14.331	15.197	14.157	12.91	12.377	11.78	11.443
18	17.285	16.332	16.394	15.735	15.083	14.532	15.43	14.382	12.873	12.459	11.772	11.458
19	17.192	15.949	16.269	15.792	15.129	14.427	15.367	14.431	12.808	12.413	11.727	11.647
20	17.075	16.113	16.201	15.619	14.898	14.559	15.236	14.54	12.794	12.217	11.648	11.636
21	17.1	16.138	16.151	15.595	14.759	14.575	15.21	14.622	12.758	12.245	11.526	11.588
22	17.012	16.42	16.107	15.59	15.249	14.584	15.158	14.461	12.886	12.266	11.563	11.642
23	17.012	16.514	16.032	15.38	14.956	14.347	14.916	14.715	12.927	12.183	11.557	11.648
24	16.95	16.85	15.884	15.449	15.096	14.126	14.861	14.633	12.914	12.15	11.518	11.59
25	17.125	16.762	15.798	15.542	15.094	14.16	14.854	14.445	12.923	11.978	11.421	11.654
26	17.091	16.712	15.807	15.537	14.957	14.638	14.75	14.111	12.844	11.97	11.41	11.474
27	17.063	16.707	16.028	15.327	15.228	14.809	14.475	14.304	12.743	11.989	11.432	11.593
28	17.101	16.825	16.005	15.409	15.169	14.73	14.579	14.138	12.741	11.997	11.463	11.658
29	17.055	16.644	16.059	15.333	---	14.666	14.639	14.076	12.78	12.072	11.346	11.734
30	17.012	16.494	15.946	15.398	---	14.485	14.48	14.119	12.723	11.923	11.378	11.69
31	16.987	---	15.977	15.519	---	14.651	---	13.915	---	11.834	11.382	---
TOTAL	533.898	498.194	502.963	485.678	422.673	451.987	444.532	451.051	391.834	381.181	361.802	343.887
MEAN	17.2	16.6	16.2	15.7	15.1	14.6	14.8	14.6	13.1	12.3	11.7	11.5
MAX	17.681	16.987	16.719	15.953	15.345	15.125	15.43	15.214	13.855	12.71	11.964	11.734
MIN	16.887	15.949	15.798	15.327	14.759	14.126	14.201	13.915	12.723	11.834	11.346	11.127

Table B-2
Pit Under-drain Flows

1 U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

STATION NUMBER 10308785 LEVIATHAN MINE PIT FLOW NR MARKLEEVILLE CA STREAM SOURCE AGENCY USGS STATE 06 COUNTY 003

LATITUDE 384215 LONGITUDE 1193928 NAD27 DRAINAGE AREA CONTRIBUTING DRAINAGE AREA DATUM 7100 NGVD29

Date Processed: 2007-11-13 11:05 By phoneywe

Lowest aging status in period is APPROVED

DD #4

Discharge, gallons per minute

WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.247	0.652	0.477	0.391	0.39	0.313	0.494	0.334	0.304	0.154	0.151	0.148
2	1.207	0.659	0.431	0.391	0.39	0.31	0.449	0.361	0.247	0.165	0.15	0.185
3	1.224	0.557	0.411	0.411	0.387	0.321	0.412	0.387	0.242	0.156	0.163	0.167
4	1.215	0.546	0.427	0.428	0.39	0.319	0.4	0.377	0.227	0.156	0.174	0.203
5	1.22	0.539	0.433	0.39	0.39	0.312	0.39	0.332	0.236	0.154	0.193	0.196
6	1.176	0.503	0.409	0.39	0.389	0.312	0.393	0.328	0.252	0.168	0.188	0.17
7	1.11	0.539	0.419	0.39	0.39	0.312	0.397	0.305	0.234	e0.178	0.186	0.177
8	1.043	0.711	0.511	0.39	0.389	0.314	0.376	0.319	0.226	e0.179	0.184	0.17
9	1.141	0.597	0.515	0.396	0.381	0.319	0.378	0.324	0.204	e0.178	0.187	0.166
10	1.141	0.535	0.452	0.433	0.382	0.345	0.373	0.314	0.209	e0.179	0.184	0.155
11	1.039	0.618	0.397	0.456	0.373	0.413	0.379	0.305	0.22	e0.178	0.184	0.168
12	1.091	0.531	0.399	0.397	0.373	0.441	0.376	0.307	0.2	e0.178	0.171	0.179
13	1.112	0.566	0.398	0.39	0.373	0.465	0.369	0.311	0.188	0.176	0.171	0.19
14	1.099	0.537	0.42	0.39	0.369	0.606	0.359	0.302	0.196	0.176	0.168	0.179
15	1.056	0.51	0.46	0.39	0.344	0.686	0.359	0.307	0.193	0.176	0.173	0.177
16	1.082	0.522	0.521	0.4	0.354	0.715	0.357	0.3	0.186	0.179	0.178	0.122
17	0.938	0.496	0.433	0.391	0.357	0.753	0.357	0.291	0.191	0.161	0.168	0.123
18	0.825	0.441	0.39	0.39	0.356	0.766	0.354	0.288	0.177	0.17	0.176	0.147
19	0.786	0.467	0.396	0.39	0.357	0.733	0.344	0.295	0.18	0.167	0.172	0.181
20	0.819	0.488	0.4	0.39	0.352	0.612	0.342	0.3	0.18	0.166	0.167	0.182
21	0.819	0.493	0.427	0.39	0.337	0.577	0.334	0.308	0.178	0.165	0.161	0.172
22	0.788	0.496	0.413	0.39	0.338	0.564	0.343	0.308	0.177	0.16	0.163	0.187
23	0.798	0.469	0.406	0.39	0.338	0.563	0.338	0.294	0.183	0.161	0.167	0.173
24	0.805	0.531	0.394	0.389	0.338	0.553	0.331	0.292	0.179	0.161	0.158	0.159
25	0.722	0.531	0.415	0.39	0.344	0.533	0.325	0.287	0.166	0.167	0.162	0.115
26	0.586	0.526	0.457	0.39	0.329	0.546	0.324	0.288	0.172	0.179	0.152	0.111
27	0.583	0.516	0.456	0.39	0.32	0.545	0.327	0.298	0.166	0.172	0.16	0.139
28	0.755	0.49	0.393	0.39	0.316	0.514	0.324	0.283	0.166	0.158	e0.156	0.166
29	0.771	0.403	0.39	0.39	---	0.541	0.33	0.28	e0.160	0.176	e0.157	0.15
30	0.763	0.411	0.391	0.39	---	0.52	0.331	0.311	0.155	0.18	0.151	0.138
31	0.746	---	0.393	0.39	---	0.511	---	0.344	---	0.167	0.156	---
TOTAL	29.707	15.88	13.234	12.283	10.146	15.334	10.965	9.68	5.994	5.24	5.231	4.895
MEAN	0.96	0.53	0.43	0.4	0.36	0.49	0.37	0.31	0.2	0.17	0.17	0.16
MAX	1.247	0.711	0.521	0.456	0.39	0.766	0.494	0.387	0.304	0.18	0.193	0.203
MIN	0.583	0.403	0.39	0.389	0.316	0.31	0.324	0.28	0.155	0.154	0.15	0.111

e Estimated

Table B-3
Overburden Seep Flows

1 U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

STATION NUMBER 103087892 ASPEN C OVERBURDEN SEEP NR MARKLEEVILLE CA STREAM SOURCE AGENCY USGS STATE 06 COUNTY 003

LATITUDE 384245 LONGITUDE 1193911 NAD27 DRAINAGE AREA .06* CONTRIBUTING DRAINAGE AREA DATUM 7100 NGVD29

Date Processed: 2007-11-13 11:06 By phoneywe

Lowest aging status in period is APPROVED

DD #4

Discharge, gallons per minute

WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e12.550	10.659	10.298	6.581	e8.366	9.447	8.852	8.111	8.463	8.416	8.426	6.191
2	e12.550	11.046	10.174	6.661	8.55	9.477	8.749	8.305	e8.325	8.382	8.574	6.075
3	11.83	e11.153	10.091	6.779	8.766	9.39	8.842	8.324	8.188	8.553	8.651	6.048
4	11.836	10.774	9.337	7.051	e8.913	9.703	9.009	8.808	8.07	8.449	8.733	6.215
5	11.864	11.228	7.712	6.458	e8.971	9.941	9.026	8.537	8.33	8.594	9.136	6.638
6	12.035	11.381	7.623	6.492	10.184	9.901	9.071	8.436	8.422	8.441	9.51	6.532
7	11.825	11.357	7.594	6.383	10.472	10.098	9.01	8.386	8.277	8.522	9.392	6.078
8	11.8	10.374	7.735	6.297	10.306	9.856	8.684	8.459	8.319	8.658	9.755	6.092
9	11.877	10.583	7.769	6.171	10.57	9.595	8.577	8.414	8.276	8.619	8.833	6.079
10	12.632	10.56	7.544	6.173	11.499	9.509	8.495	8.384	8.256	8.677	8.671	6.043
11	12.522	10.927	7.41	6.144	10.76	9.57	8.686	8.358	8.263	e8.572	8.54	6.068
12	11.889	10.823	7.573	6.245	10.184	9.6	8.916	8.348	8.211	8.466	8.403	6.052
13	11.498	11.602	7.859	6.262	10.041	9.729	8.58	8.36	8.163	8.269	8.313	6.043
14	11.35	10.457	7.473	6.277	10.012	9.934	8.641	8.319	8.15	8.238	8.304	6.003
15	11.276	9.988	7.324	6.406	10.352	9.731	8.706	8.398	8.061	8.165	8.199	5.999
16	11.273	9.857	7.127	6.61	10.35	9.736	e8.604	8.325	8.037	8.227	8.552	6.004
17	11.134	10.177	7.049	6.593	10.447	9.892	e8.887	8.287	8.205	8.189	8.794	6.045
18	10.812	9.921	6.912	6.71	10.549	9.84	e8.976	8.3	8.258	8.107	8.671	5.996
19	11.597	10.28	6.862	6.934	10.158	9.706	e8.976	8.274	8.269	8.217	8.773	e6.030
20	10.843	10.525	6.98	6.981	9.961	9.777	e8.976	8.381	8.175	8.307	8.718	e6.071
21	10.714	10.542	6.981	6.996	9.973	9.848	e8.887	8.4	e8.202	8.143	8.62	6.108
22	10.706	10.643	6.869	7.093	9.772	9.216	e8.842	e8.391	e8.225	8.15	8.54	e6.082
23	10.777	10.52	6.911	7.269	9.757	9.131	e8.662	8.377	8.247	7.927	e8.531	6.035
24	10.718	10.458	6.877	7.411	9.802	9.089	e8.393	8.35	e8.256	8.026	e8.558	5.916
25	10.93	11.049	6.826	7.697	9.945	9.195	8.168	8.354	e8.267	7.922	e8.622	5.871
26	10.719	11.024	7.053	7.882	9.91	9.383	8.146	8.369	8.282	7.92	8.776	5.837
27	10.562	10.55	6.918	7.969	9.915	e9.250	8.107	8.286	8.32	7.818	8.919	5.898
28	10.633	10.492	6.594	8.02	9.54	e9.150	8.087	8.311	8.299	7.878	8.457	5.956
29	10.71	11.109	6.535	8.135	---	9.077	8.204	8.244	8.391	7.864	7.249	e5.871
30	10.659	11.182	6.657	e8.203	---	8.963	8.108	8.282	8.355	8.098	6.314	5.788
31	10.609	---	6.699	e8.215	---	8.938	---	8.322	---	8.323	e6.249	---
TOTAL	352.73	321.241	233.366	215.098	278.025	295.672	259.867	259.2	247.562	256.137	263.783	181.664
MEAN	11.4	10.7	7.53	6.94	9.93	9.54	8.66	8.36	8.25	8.26	8.51	6.06
MAX	12.632	11.602	10.298	8.215	11.499	10.098	9.071	8.808	8.463	8.677	9.755	6.638
MIN	10.562	9.857	6.535	6.144	8.366	8.938	8.087	8.111	8.037	7.818	6.249	5.788

e Estimated

Table B-4
Channel Under-drain Flows

1 U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

STATION NUMBER 103087885 LEVIATHAN C CHANNEL UNDERDRAIN NR MARKLEEVILLE CA

STREAM SOURCE AGENCY USGS STATE 06 COUNTY 003

LATITUDE 384234 LONGITUDE 1193941 NAD27 DRAINAGE AREA CONTRIBUTING DRAINAGE AREA DATUM 6800 NGVD29

Date Processed: 2007-11-13 11:05 By phoneywe

Lowest aging status in period is APPROVED

DD #3

Discharge, gallons per minute

WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	24.236	26.453	25.922	25.681	20.68	27.237	26.415	24.465	16.816	14.818	12.549
2	116.94	21.791	26.744	25.898	25.341	20.426	24.602	26.212	22.782	16.647	14.996	12.78
3	113.75	19.309	26.339	25.778	25.432	20.254	25.094	25.971	22.26	16.145	14.73	12.681
4	109.26	19.148	e26.041	25.922	25.584	20.044	25.802	25.946	22.273	16.183	14.338	12.533
5	106.98	18.644	26.022	25.946	25.736	19.774	25.946	26.098	21.176	15.928	14.296	12.401
6	90.691	86.298	26.554	25.946	24.953	19.605	25.946	26.098	19.879	15.89	14.912	12.308
7	32.41	120.37	26.668	25.922	23.429	20.372	26.022	26.149	20.319	15.796	15.222	12.356
8	0	118.02	26.795	25.922	23.194	21.442	25.971	26.052	20.665	15.682	15.593	12.339
9	0	97.617	26.669	25.922	22.963	21.464	26.15	25.771	21.613	15.739	15.557	12.308
10	0	26.972	25.947	25.539	22.759	21.464	25.946	25.586	21.024	15.663	15.504	12.293
11	0	27.074	25.946	25.755	22.532	21.464	25.946	25.802	21.715	15.646	15.442	12.323
12	0	28.241	25.971	26.197	22.285	21.464	25.946	25.381	22.712	15.628	15.389	12.247
13	0	27.973	25.922	26.085	22.063	21.543	25.946	25.547	23.106	15.593	15.089	12.193
14	0	26.82	25.946	26.199	21.839	21.906	25.946	25.68	24.786	15.487	14.842	11.527
15	0	27.074	25.946	26.281	21.619	22.122	25.946	27.187	25.293	15.416	15.186	11.266
16	0	27.619	25.946	26.116	21.401	22.587	25.971	28.046	26.643	15.454	15.098	11.205
17	0	26.934	25.946	26.627	21.184	23.211	26.123	27.658	25.377	15.349	14.956	11.22
18	0	27.086	26.009	26.832	21.111	23.642	25.971	27.623	e24.519	15.151	14.364	11.174
19	0	27.162	27.359	26.925	21.954	23.62	25.971	27.952	e23.745	14.983	14.303	11.098
20	25.321	27.137	25.85	27.009	e22.431	23.642	25.946	26.406	e23.081	15.027	14.074	10.96
21	24.41	27.733	25.946	27.28	20.928	23.714	26.022	26.128	e22.473	14.868	13.967	10.929
22	24.386	27.175	25.946	27.007	21.992	23.642	25.971	25.302	e21.976	14.656	13.967	10.914
23	24.626	26.795	25.971	26.745	21.642	23.666	25.997	24.541	21.379	14.479	13.917	10.871
24	24.41	26.44	25.946	26.47	21.205	24.158	25.971	25.103	20.915	13.967	13.382	10.9
25	23.644	26.554	25.85	26.184	21.615	27.238	26.047	26.222	20.531	13.967	12.566	10.929
26	23.716	26.871	25.855	26.406	21.328	28.168	25.946	26.321	19.128	13.72	12.994	10.929
27	23.882	27.023	25.946	26.561	21.112	28.379	26.047	26.322	17.592	13.481	13.35	11.021
28	23.771	26.972	25.946	26.719	20.894	28.379	26.174	25.591	17.099	13.794	13.984	10.991
29	23.6	27.669	25.946	26.904	---	27.897	26.098	26.122	16.976	13.917	14.067	10.929
30	23.373	26.44	25.922	27.068	---	28.049	26.326	25.843	16.835	14.397	13.151	10.886
31	23.256	---	25.946	26.705	---	28.379	---	26.18	---	14.823	12.698	---
TOTAL	858.426	1095.197	810.293	816.792	634.207	722.395	779.027	811.255	652.337	470.292	446.752	349.06
MEAN	27.7	36.5	26.1	26.3	22.7	23.3	26	26.2	21.7	15.2	14.4	11.6
MAX	116.94	120.37	27.359	27.28	25.736	28.379	27.237	28.046	26.643	16.816	15.593	12.78
MIN	0	18.644	25.85	25.539	20.894	19.605	24.602	24.541	16.835	13.481	12.566	10.871

e Estimated

Table B-5
Station 1 Flows

1	U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES											
STATION NUMBER 10308783 LEVIATHAN C AB MINE NR MARKLEEVILLE CA SOURCE AGENCY USGS STATE 06 COUNTY 003												
LATITUDE 384205 LONGITUDE 1193920 NAD27 DRAINAGE AREA 4.16* CONTRIBUTING DRAINAGE AREA DATUM 7200 NGVD29												
Date Processed: 2007-11-13 11:05 By phoneywe												
Lowest aging status in period is APPROVED												
DD #2												
Discharge, cubic feet per second												
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007												
DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.07	0.13	e0.11	e0.11	e0.10	e0.10	0.42	0.14	0.06	0.04	0.02	0.03
2	0.08	0.14	e0.11	e0.11	e0.10	e0.10	0.41	0.14	0.07	0.04	0.02	0.02
3	0.07	0.18	e0.10	e0.11	e0.10	e0.10	0.39	0.13	0.06	0.04	0.03	0.02
4	0.07	0.15	e0.10	e0.11	e0.10	e0.12	0.37	0.16	0.06	0.03	0.02	0.02
5	0.08	0.14	e0.10	e0.11	e0.10	e0.13	0.37	0.14	0.06	0.03	0.02	0.02
6	0.08	0.13	e0.10	e0.11	e0.10	e0.15	0.37	0.13	0.06	0.04	0.02	0.02
7	0.08	0.13	e0.10	e0.11	e0.10	e0.16	0.36	0.12	0.06	0.03	0.02	0.02
8	0.08	0.13	e0.10	e0.11	e0.10	e0.18	0.33	0.12	0.06	0.03	0.02	0.02
9	0.07	0.12	e0.10	e0.11	e0.10	e0.18	0.3	0.13	0.06	0.03	0.02	0.02
10	0.1	0.13	e0.10	e0.11	e0.10	e0.18	0.28	0.12	0.06	0.04	0.02	0.02
11	0.13	0.13	e0.10	e0.11	e0.10	e0.20	0.27	0.1	0.06	0.06	0.02	0.02
12	0.1	0.18	e0.10	e0.11	e0.10	0.14	0.26	0.11	0.05	0.04	0.02	0.02
13	0.09	0.2	e0.10	e0.11	e0.10	0.26	0.26	0.12	0.05	0.04	0.02	0.02
14	0.09	0.19	e0.10	e0.11	e0.10	0.46	0.25	0.12	0.05	0.03	0.02	0.02
15	0.09	0.14	e0.10	e0.11	e0.10	0.47	0.25	0.11	0.05	0.03	0.02	0.03
16	0.09	0.14	e0.10	e0.11	e0.10	0.42	e0.25	0.09	0.05	0.03	0.02	0.03
17	0.1	0.14	e0.10	e0.11	e0.10	0.41	0.23	0.09	0.05	0.03	0.02	0.03
18	0.1	0.14	e0.10	e0.10	e0.10	0.39	0.22	0.08	0.05	0.03	0.02	0.03
19	0.09	0.14	e0.10	e0.10	e0.10	0.33	0.21	0.08	0.04	0.03	0.02	0.03
20	0.09	0.13	e0.10	e0.10	e0.10	0.31	e0.21	0.08	0.04	0.02	0.02	0.05
21	0.09	0.13	e0.10	e0.10	e0.10	0.28	e0.18	0.08	0.04	0.02	0.02	0.04
22	0.09	0.12	e0.10	e0.10	e0.10	0.26	e0.20	0.08	0.04	0.02	0.02	0.04
23	0.09	0.11	e0.10	e0.10	e0.10	0.3	e0.20	0.08	0.04	0.02	0.02	0.04
24	0.09	e0.11	e0.10	e0.10	e0.10	0.35	0.22	0.08	0.04	0.03	0.02	0.04
25	0.09	e0.11	e0.10	e0.10	e0.10	0.4	0.21	0.07	0.04	0.03	0.02	0.04
26	0.1	e0.11	e0.11	e0.10	e0.10	0.38	e0.20	0.07	0.04	0.02	0.02	0.04
27	0.1	e0.10	e0.11	e0.10	e0.10	0.34	e0.17	0.07	0.04	0.03	0.02	0.03
28	0.1	e0.10	e0.11	e0.10	e0.10	0.3	e0.14	0.07	0.04	0.02	0.02	0.03
29	0.11	e0.10	e0.11	e0.10	---	0.29	e0.16	0.07	0.04	0.02	0.03	0.04
30	0.12	e0.10	e0.11	e0.10	---	0.32	0.18	0.06	0.04	0.02	0.03	0.04
31	0.12	---	e0.11	e0.10	---	0.37	---	0.06	---	0.02	0.04	---
TOTAL	2.85	4	3.18	3.27	2.8	8.38	7.87	3.1	1.5	0.94	0.67	0.87
MEAN	0.09	0.13	0.1	0.11	0.1	0.27	0.26	0.1	0.05	0.03	0.02	0.03
MAX	0.13	0.2	0.11	0.11	0.1	0.47	0.42	0.16	0.07	0.06	0.04	0.05
MIN	0.07	0.1	0.1	0.1	0.1	0.1	0.14	0.06	0.04	0.02	0.02	0.02
AC-FT	5.7	7.9	6.3	6.5	5.6	17	16	6.1	3	1.9	1.3	1.7
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2007, BY WATER YEAR (WY)												
MEAN	0.08	0.12	0.15	0.18	0.2	0.56	2.04	2.34	0.36	0.1	0.06	0.05
MAX	0.11	0.2	0.41	0.49	0.49	0.97	5.94	6.34	0.8	0.21	0.1	0.11
(WY)	2000	1999	2006	2006	2006	2005	2006	2006	1999	2005	1999	1999
MIN	0.04	0.08	0.07	0.09	0.08	0.27	0.26	0.1	0.05	0.03	0.02	0.03
(WY)	2002	2006	2003	2001	2001	2007	2007	2007	2007	2007	2007	2007

SUMMARY STATISTICS	FOR 2006 CALENDAR YEAR		FOR 2007 WATER YEAR		WATER YEARS 1999 - 2007		
ANNUAL TOTAL	466.09		39.43				
ANNUAL MEAN	1.28		0.11		0.46		
HIGHEST ANNUAL MEAN					1.3		2006
LOWEST ANNUAL MEAN					0.11		2007
HIGHEST DAILY MEAN	17	1-May	0.47	15-Mar	17	1-May	2006
LOWEST DAILY MEAN	0.03	24-Aug	0.02	20-Jul	0.01	15-Sep	2004
ANNUAL SEVEN-DAY MINIMUM	0.04	29-Aug	0.02	4-Aug	0.02	26-Sep	2004
MAXIMUM PEAK FLOW			0.92	14-Mar	40	31-Dec	2005
MAXIMUM PEAK STAGE			3.78	14-Mar	5.09	31-Dec	2005
ANNUAL RUNOFF (AC-FT)	924		78		334		
10 PERCENT EXCEEDS	4.4		0.22		0.95		
50 PERCENT EXCEEDS	0.2		0.1		0.11		
90 PERCENT EXCEEDS	0.06		0.02		0.04		

e Estimated

Table B-6
Station 22 Flows

1 U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

STATION NUMBER 103087891 ASPEN C ABV LEVIATHAN MINE NR MARKLEEVILLE CA STREAM SOURCE AGENCY USGS STATE 06 COUNTY 003

LATITUDE 384231 LONGITUDE 1193855 NAD83 DRAINAGE AREA .55* CONTRIBUTING DRAINAGE AREA DATUM 7190 NGVD29

Date Processed: 2007-11-13 11:05 By phoneywe

Lowest aging status in period is APPROVED

DD #2

Discharge, cubic feet per second

WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.18	0.12	0.13	0.16	e0.15	e0.20	0.15	e0.11	0.2	e0.20	0.16	0.23
2	0.18	0.2	0.17	0.16	e0.16	e0.20	0.14	e0.12	0.18	e0.20	0.16	0.24
3	0.18	0.21	0.14	e0.16	e0.17	e0.20	0.15	e0.14	0.18	e0.20	0.16	0.22
4	e0.17	0.27	0.11	e0.16	e0.18	e0.20	0.15	0.17	0.17	e0.19	0.17	0.23
5	0.17	0.25	0.12	0.16	0.2	e0.20	0.14	0.19	0.17	e0.19	0.17	0.23
6	0.17	0.22	0.12	0.17	0.15	e0.20	0.14	e0.21	0.17	e0.19	0.18	0.23
7	0.17	0.15	0.12	0.16	0.15	e0.20	0.14	e0.22	0.17	e0.19	0.18	0.23
8	0.14	e0.16	0.13	0.15	0.14	0.19	0.14	0.23	0.17	e0.19	e0.18	0.23
9	0.12	e0.16	0.13	0.15	e0.15	e0.17	0.14	0.23	0.17	e0.18	e0.19	0.23
10	0.12	e0.16	0.13	e0.15	0.17	0.16	0.14	0.24	0.17	e0.18	0.18	0.23
11	0.12	0.17	0.13	e0.15	0.17	0.18	0.14	0.24	0.17	0.18	0.18	0.23
12	0.14	0.2	0.13	e0.15	0.18	e0.20	0.15	0.24	0.18	0.17	0.19	0.21
13	0.13	0.16	0.13	e0.15	0.19	0.2	0.14	0.25	e0.19	0.17	0.19	0.21
14	0.12	0.16	0.14	e0.15	0.19	e0.20	0.14	0.27	0.2	0.17	e0.19	0.22
15	0.12	0.15	0.14	e0.15	0.18	0.2	0.15	0.27	0.21	0.17	0.18	0.22
16	0.12	0.15	0.16	e0.15	0.18	0.2	0.15	0.26	0.21	0.17	0.19	0.22
17	0.14	0.13	e0.15	0.14	0.19	0.2	0.14	0.26	0.21	0.18	0.19	0.22
18	0.13	0.13	e0.14	0.14	e0.19	0.19	0.15	0.26	0.18	0.18	0.2	0.22
19	0.12	0.12	e0.14	0.14	0.18	0.17	0.15	0.26	0.17	0.18	0.21	0.22
20	0.12	0.11	0.14	0.14	0.18	0.17	0.15	0.28	0.17	0.18	0.2	0.23
21	0.12	0.1	0.15	0.13	e0.18	e0.17	0.14	e0.29	0.17	0.19	0.2	0.21
22	0.12	0.09	0.14	0.14	e0.19	0.17	0.13	e0.30	e0.17	0.18	0.2	0.22
23	0.13	0.09	0.14	0.13	e0.20	0.17	0.13	e0.30	e0.18	0.19	0.21	0.21
24	0.11	0.08	0.15	0.13	e0.20	0.16	0.12	0.31	e0.18	0.19	e0.21	0.21
25	0.11	e0.08	0.15	0.12	e0.20	0.16	0.13	e0.31	e0.19	0.19	e0.21	0.21
26	0.11	e0.09	0.17	0.13	e0.19	e0.16	0.13	e0.31	e0.20	0.19	e0.21	0.21
27	0.1	e0.08	e0.16	0.12	0.19	e0.16	0.12	e0.30	e0.20	0.17	0.21	0.21
28	0.11	e0.08	e0.16	0.12	0.19	e0.16	0.12	0.3	e0.20	0.17	0.2	0.21
29	0.11	e0.09	e0.16	0.12	---	e0.16	0.13	0.28	e0.20	0.17	0.21	0.21
30	0.13	0.08	e0.16	0.13	---	0.16	0.12	0.24	e0.20	0.16	0.23	0.2
31	0.11	---	e0.16	0.15	---	0.15	---	0.23	---	0.17	0.24	---
TOTAL	4.12	4.24	4.4	4.46	4.99	5.61	4.16	7.62	5.53	5.63	5.98	6.6
MEAN	0.13	0.14	0.14	0.14	0.18	0.18	0.14	0.25	0.18	0.18	0.19	0.22
MAX	0.18	0.27	0.17	0.17	0.2	0.2	0.15	0.31	0.21	0.2	0.24	0.24
MIN	0.1	0.08	0.11	0.12	0.14	0.15	0.12	0.11	0.17	0.16	0.16	0.2
AC-FT	8.2	8.4	8.7	8.8	9.9	11	8.3	15	11	11	12	13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2007, BY WATER YEAR (WY)

MEAN	0.14	0.17	0.16	0.18	0.19	0.22	0.28	0.25	0.2	0.19	0.18	0.19
MAX	0.21	0.24	0.22	0.26	0.25	0.27	0.4	0.27	0.25	0.22	0.19	0.24
(WY)	2006	2006	2006	2006	2006	2004	2006	2005	2006	2005	2007	2006
MIN	0.06	0.09	0.08	0.14	0.09	0.18	0.14	0.21	0.16	0.15	0.17	0.1
(WY)	2005	2005	2005	2005	2005	2007	2007	2004	2004	2004	2004	2004

SUMMARY STATISTICS	FOR 2006 CALENDAR YEAR		FOR 2007 WATER YEAR			WATER YEARS 2004 - 2007		
ANNUAL TOTAL	80.75		63.34					
ANNUAL MEAN	0.22		0.17			0.19		
HIGHEST ANNUAL MEAN						0.24	2006	
LOWEST ANNUAL MEAN						0.17	2007	
HIGHEST DAILY MEAN	0.48	27-Feb	0.31	24-May		0.77	31-Dec	2005
LOWEST DAILY MEAN	0.08	24-Nov	0.08	24-Nov		0.03	15-Oct	2004
ANNUAL SEVEN-DAY MINIMUM	0.08	24-Nov	0.08	24-Nov		0.04	15-Oct	2004
MAXIMUM PEAK FLOW			0.49	23-May		1.2	19-Mar	2004
MAXIMUM PEAK STAGE			-1	23-May		4.99	31-Dec	2005
ANNUAL RUNOFF (AC-FT)	160		126			141		
10 PERCENT EXCEEDS	0.36		0.23			0.27		
50 PERCENT EXCEEDS	0.21		0.17			0.19		
90 PERCENT EXCEEDS	0.12		0.12			0.1		

e Estimated

Table B-7
4L Creek Flows

1	U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES											
STATION NUMBER 103087889 4L C NR MARKLEEVILLE CA STREAM SOURCE AGENCY USGS STATE 06 COUNTY 003												
LATITUDE 384239 LONGITUDE 1193947 NAD83 DRAINAGE AREA 1.14* CONTRIBUTING DRAINAGE AREA DATUM 6780 NGVD29												
Date Processed: 2007-11-13 11:05 By phoneywe												
Lowest aging status in period is APPROVED												
DD #2												
Discharge, cubic feet per second												
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007												
DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.01	e0.04	0.05	0.05	e0.05	e0.05	0.11	0.06	0.01	0	0	0
2	0.02	e0.05	0.05	0.05	e0.05	e0.05	0.1	0.06	0.02	0	0	0
3	0.02	e0.07	0.04	0.05	e0.05	e0.05	0.1	0.06	0.03	0	0	0
4	0.02	e0.05	0.05	0.06	e0.05	e0.06	0.09	0.06	0.02	0	0	0
5	0.02	e0.04	0.05	0.05	e0.05	0.06	0.09	0.06	0.03	0	0	0
6	0.02	e0.04	0.05	0.05	e0.05	0.06	0.09	0.05	0.04	0	0	0
7	0.02	e0.04	0.05	0.05	e0.05	0.06	0.09	0.05	0.04	0	0	0
8	0.02	e0.04	0.05	0.05	e0.05	0.07	0.09	0.05	0.04	0	0	0
9	0.02	e0.04	0.05	0.05	e0.05	0.07	0.08	0.05	0.03	0	0	0
10	0.03	e0.04	0.04	e0.05	e0.05	0.07	0.08	0.04	0.03	0	0	0
11	0.03	e0.04	0.04	e0.05	e0.05	0.07	0.08	0.04	0.03	0	0	0
12	0.03	e0.06	0.05	e0.05	e0.05	0.07	0.08	0.04	0.02	0	0	0
13	0.03	e0.08	0.06	e0.05	e0.05	0.07	0.08	0.04	0.02	0	0	0
14	0.02	e0.07	0.05	e0.05	e0.05	0.09	0.07	0.03	0.02	0	0	0
15	0.02	e0.04	0.05	e0.05	e0.05	0.08	0.08	0.04	0.02	0	0	0
16	0.02	0.04	0.05	e0.05	e0.05	0.08	0.08	0.03	0.01	0	0	0
17	0.03	0.04	0.05	e0.05	e0.05	0.08	0.08	0.03	0.01	0	0	0
18	0.03	0.04	e0.05	e0.05	e0.05	0.08	0.08	0.03	0.01	0	0	0
19	0.03	0.04	e0.05	e0.05	e0.05	0.07	0.08	0.03	0.01	0	0	0
20	0.03	0.04	e0.05	e0.05	e0.05	0.06	0.08	0.03	0.01	0	0	0
21	0.04	0.04	0.06	e0.05	e0.05	0.07	0.08	0.03	0.01	0	0	0
22	0.05	0.04	0.06	e0.05	e0.05	0.06	0.08	0.04	0.01	0	0	0
23	e0.05	0.04	0.06	e0.05	e0.05	0.06	0.08	0.04	0.01	0	0	0
24	e0.05	0.04	0.05	e0.05	e0.05	0.08	0.08	0.04	0.01	0	0	0
25	e0.05	0.04	0.05	e0.05	e0.05	0.09	0.07	0.03	0	0	0	0
26	e0.05	0.05	0.05	e0.05	e0.05	0.09	0.07	0.02	0.01	0	0	0
27	e0.05	0.05	0.05	e0.05	e0.05	0.1	0.06	0.02	0.01	0	0	0
28	e0.05	0.04	0.04	e0.05	e0.05	0.09	0.06	0.02	0.01	0	0	0
29	e0.04	0.04	0.05	e0.05	---	0.1	0.06	0.02	0	0	0	0
30	e0.04	0.04	0.05	e0.05	---	0.11	0.06	0.02	0	0	0	0
31	e0.04	---	0.05	e0.05	---	0.11	---	0.01	---	0	0	---
TOTAL	0.98	1.36	1.55	1.56	1.4	2.31	2.41	1.17	0.52	0	0	0
MEAN	0.03	0.05	0.05	0.05	0.05	0.07	0.08	0.04	0.02	0	0	0
MAX	0.05	0.08	0.06	0.06	0.05	0.11	0.11	0.06	0.04	0	0	0
MIN	0.01	0.04	0.04	0.05	0.05	0.05	0.06	0.01	0	0	0	0
AC-FT	1.9	2.7	3.1	3.1	2.8	4.6	4.8	2.3	1	0	0	0
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2007, BY WATER YEAR (WY)												
MEAN	0.02	0.04	0.09	0.08	0.1	0.34	0.82	1.38	0.13	0.02	0.01	0.01
MAX	0.03	0.05	0.22	0.16	0.26	0.66	1.83	3.7	0.33	0.04	0.04	0.03
(WY)	2007	2007	2006	2006	2006	2004	2006	2006	2005	2005	2006	2006
MIN	0	0.02	0.03	0.03	0.04	0.07	0.08	0.04	0.02	0	0	0
(WY)	2005	2005	2004	2004	2004	2007	2007	2007	2007	2007	2004	2004

SUMMARY STATISTICS	FOR 2006 CALENDAR YEAR		FOR 2007 WATER YEAR		WATER YEARS 2004 - 2007		
ANNUAL TOTAL	201.29		13.26				
ANNUAL MEAN	0.55		0.04		0.26		
HIGHEST ANNUAL MEAN					0.56		2006
LOWEST ANNUAL MEAN					0.04		2007
HIGHEST DAILY MEAN	8.2	8-May	0.11	30-Mar	8.2	8-May	2006
LOWEST DAILY MEAN	0.01	27-Sep	0	25-Jun	0	1-Oct	2003
ANNUAL SEVEN-DAY MINIMUM	0.01	25-Sep	0	29-Jun	0	25-Jul	2004
MAXIMUM PEAK FLOW			0.12	14-Mar	15	31-Dec	2005
MAXIMUM PEAK STAGE			4.04	27-Oct	4.75	31-Dec	2005
ANNUAL RUNOFF (AC-FT)	399		26		185		
10 PERCENT EXCEEDS	1.5		0.08		0.55		
50 PERCENT EXCEEDS	0.06		0.04		0.04		
90 PERCENT EXCEEDS	0.03		0		0		

e Estimated

Table B-8
Station 15 Flows

1 U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

STATION NUMBER 10308789 LEVIATHAN C AB ASPEN C NR MARKLEEVILLE CA STREAM SOURCE AGENCY USGS STATE 06 COUNTY 003

LATITUDE 384301 LONGITUDE 1193933 NAD27 DRAINAGE AREA 7.07* CONTRIBUTING DRAINAGE AREA DATUM 6700 NGVD29

Date Processed: 2007-11-13 11:05 By phoneywe

Lowest aging status in period is APPROVED

DD #2

Discharge, cubic feet per second

WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.1	0.32	e0.38	e0.27	e0.16	0.29	0.54	e0.35	0.21	0	0	0
2	0.2	0.35	e0.38	e0.27	e0.15	0.3	0.53	e0.35	0.23	0	0	0
3	0.35	0.41	e0.38	e0.26	e0.15	0.3	0.51	0.33	0.2	0	0.61	0
4	0.37	0.38	e0.38	e0.26	e0.15	0.33	0.51	0.4	0.17	0	0	0
5	0.4	0.36	e0.38	e0.25	e0.14	0.4	0.53	0.38	0.17	0.03	0	0
6	0.42	0.55	e0.37	e0.25	e0.13	0.46	0.57	0.36	0.2	0.33	0	0
7	0.29	0.85	e0.37	e0.25	e0.13	0.49	0.52	0.34	0.21	0	0	0
8	0.16	0.75	e0.37	e0.24	e0.13	0.48	0.51	0.34	0.2	0	0	0
9	0.15	0.58	e0.36	e0.24	e0.13	0.38	e0.57	0.33	0.19	0	0	0
10	0.24	0.32	e0.36	e0.23	e0.13	0.35	e0.44	0.32	0.17	0	0	0
11	0.26	0.34	e0.35	e0.23	e0.13	e0.73	e0.35	0.31	0.16	0.04	0	0
12	0.22	0.5	e0.35	e0.23	e0.22	1	0.32	0.31	0.16	0.25	0	0
13	0.21	0.48	e0.35	e0.23	e0.31	1.1	0.3	0.31	0.14	0.25	0	0
14	0.21	0.48	e0.34	e0.23	e0.39	1.2	0.32	0.3	0.13	0.24	0	0
15	0.19	0.4	e0.34	e0.22	e0.46	1.2	e0.31	0.3	0.12	0.24	0	0
16	0.18	0.38	e0.33	e0.22	0.54	0.98	e0.33	0.29	0.06	0.41	0	0
17	0.21	0.39	e0.33	e0.21	0.69	0.94	e0.32	0.27	0.06	0.79	0	0
18	0.2	0.39	e0.33	e0.21	0.7	0.85	e0.27	0.27	0.05	0.26	0	0
19	0.2	0.38	e0.32	e0.20	0.69	0.62	e0.24	0.27	0.07	0.25	0	0
20	0.22	0.39	e0.32	e0.19	e0.65	0.54	e0.22	0.27	0.04	0.23	0	0.12
21	0.31	0.38	e0.31	e0.19	e0.59	0.49	e0.20	0.27	0.04	0.24	0	0.09
22	0.31	e0.38	e0.31	e0.19	e0.50	0.43	e0.21	0.27	0.04	0.26	0.21	0.11
23	0.3	e0.38	e0.31	e0.18	0.47	0.44	e0.22	0.26	0	0.25	0.51	0.1
24	0.3	e0.38	e0.30	e0.18	e0.38	0.53	e0.27	0.26	0	0.23	0	0.07
25	0.29	e0.38	e0.30	e0.17	0.3	0.61	e0.25	0.25	0.04	0.21	0	0.03
26	0.3	e0.38	e0.29	e0.17	0.27	0.56	e0.23	0.24	0	0.08	0	0.03
27	0.28	e0.38	e0.29	e0.16	0.31	e0.61	e0.19	0.23	0	0.04	0	0.03
28	0.29	e0.38	e0.29	e0.16	0.29	0.58	e0.15	0.23	0	0.04	0	0.03
29	0.3	e0.38	e0.28	e0.16	---	e0.55	e0.21	0.21	0	0	0	0.03
30	0.31	e0.38	e0.28	e0.16	---	0.42	e0.26	0.21	0	0	0	0.04
31	0.31	---	e0.27	e0.16	---	0.48	---	0.2	---	0	0	---
TOTAL	8.08	12.8	10.32	6.57	9.29	18.64	10.4	9.03	3.06	4.67	1.33	0.68
MEAN	0.26	0.43	0.33	0.21	0.33	0.6	0.35	0.29	0.1	0.15	0.04	0.02
MAX	0.42	0.85	0.38	0.27	0.7	1.2	0.57	0.4	0.23	0.79	0.61	0.12
MIN	0.1	0.32	0.27	0.16	0.13	0.29	0.15	0.2	0	0	0	0
AC-FT	16	25	20	13	18	37	21	18	6.1	9.3	2.6	1.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2007, BY WATER YEAR (WY)

MEAN	0.17	0.25	0.37	0.38	0.55	1.35	3.49	3.93	0.76	0.29	0.17	0.17
MAX	0.34	0.43	1.41	1.11	1.37	2.08	11.6	12.1	2.18	0.77	0.31	0.46
(WY)	2000	2007	2006	2006	2006	2004	2006	2006	1999	2006	1999	1999
MIN	0.08	0.14	0.15	0.16	0.2	0.6	0.35	0.29	0.1	0.07	0.04	0.02
(WY)	2002	2005	2003	2001	2001	2007	2007	2007	2007	2001	2001	2007

SUMMARY STATISTICS	FOR 2006 CALENDAR YEAR		FOR 2007 WATER YEAR		WATER YEARS 1999 - 2007		
ANNUAL TOTAL	970.18		94.87				
ANNUAL MEAN	2.66		0.26		0.88		
HIGHEST ANNUAL MEAN					2.73	2006	
LOWEST ANNUAL MEAN					0.26	2007	
HIGHEST DAILY MEAN	26	30-Apr	1.2	14-Mar	27	31-Dec	2005
LOWEST DAILY MEAN	0.05	3-Sep	0	23-Jun	0	5-Aug	2001
ANNUAL SEVEN-DAY MINIMUM	0.05	3-Sep	0	26-Jun	0	28-Jul	2004
MAXIMUM PEAK FLOW			2.7	14-Mar	68	31-Dec	2005
MAXIMUM PEAK STAGE			4.69	20-Feb	5.4	31-Dec	2005
ANNUAL RUNOFF (AC-FT)	1920		188		635		
10 PERCENT EXCEEDS	9.5		0.51		1.8		
50 PERCENT EXCEEDS	0.56		0.25		0.26		
90 PERCENT EXCEEDS	0.12		0		0.06		

e Estimated

Table B-9
Station 23 Flows

1 U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

STATION NUMBER 10308792 LEVIATHAN C AB MOUNTAINEER C NR MARKLEEVILLE CA STREAM SOURCE AGENCY USGS STATE 06 COUNTY 003

LATITUDE 384412 LONGITUDE 1193839 NAD27 DRAINAGE AREA 10.8* CONTRIBUTING DRAINAGE AREA DATUM 6220 NGVD29

Date Processed: 2007-11-13 11:06 By phoneywe

Lowest aging status in period is APPROVED

DD #1

Discharge, cubic feet per second

WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.24	0.54	e0.50	e0.50	e0.61	1	1	e0.45	0.34	0.1	0.02	0.04
2	0.51	0.52	e0.50	e0.50	e0.60	0.91	1	0.52	0.41	0.11	0.03	0.02
3	0.63	0.59	e0.50	e0.54	e0.61	0.79	1.2	0.37	0.32	0.12	0.53	0.01
4	0.6	0.56	e0.50	e0.64	e0.61	0.88	1.2	0.37	0.26	0.09	0.19	0.01
5	0.63	0.5	e0.50	e0.64	e0.61	1	1.1	0.36	0.26	0.08	0.06	0.02
6	0.7	0.56	e0.50	e0.63	e0.61	1.1	1.1	0.37	0.32	0.45	0.06	0.02
7	0.6	e0.90	e0.50	e0.63	e0.61	1.1	1	0.37	0.34	0.13	0.06	0.02
8	0.33	e0.80	e0.50	e0.64	e0.62	1.2	1	0.41	0.36	0.09	0.06	0.01
9	0.32	e0.70	e0.54	e0.64	e0.62	1.1	0.98	0.5	0.35	0.08	0.05	0.01
10	0.66	e0.50	e0.59	e0.63	e0.60	1.2	0.79	0.48	0.31	0.09	0.05	0.01
11	0.69	e0.53	e0.50	e0.61	e0.63	1.3	0.61	0.46	0.29	0.17	0.04	0.01
12	0.54	e0.60	e0.54	e0.60	e0.78	1.7	0.53	0.43	0.28	0.44	0.04	0.02
13	0.44	e0.58	e0.55	e0.60	e0.87	1.9	0.48	0.41	0.29	0.41	0.04	0.01
14	0.41	e0.58	e0.56	e0.60	e1.0	2.1	0.43	0.37	0.27	0.41	0.03	0.02
15	0.36	e0.50	e0.60	e0.61	e1.1	1.9	0.4	0.38	0.25	0.45	0.02	0.02
16	0.36	e0.48	e0.56	e0.60	e1.1	1.9	0.42	0.37	0.19	0.54	0.02	0.02
17	0.46	e0.50	e0.53	e0.61	1.1	1.9	0.41	0.35	0.18	1.2	0.02	0.02
18	0.47	e0.50	e0.50	e0.61	1.1	1.9	0.32	0.41	0.2	0.59	0.02	0.02
19	0.42	e0.48	e0.50	e0.60	e0.97	1.5	e0.29	0.4	0.2	0.52	0.02	0.02
20	0.45	e0.50	e0.50	e0.61	e0.86	1.3	0.27	0.39	0.16	0.47	0.02	0.38
21	0.5	e0.50	e0.50	e0.61	e0.78	1.2	0.23	0.4	0.15	0.48	0.02	0.19
22	0.49	e0.50	e0.50	e0.61	0.71	1	0.26	0.41	0.15	0.56	0.09	0.33
23	0.5	e0.50	e0.50	e0.60	e0.67	1.1	0.26	0.4	0.15	0.55	0.83	0.25
24	0.52	e0.50	e0.50	e0.61	e0.65	1.2	0.33	0.4	0.15	0.51	0.02	0.18
25	0.6	e0.50	e0.50	e0.61	e0.60	1.3	e0.32	0.36	0.16	0.49	0.02	0.1
26	0.56	e0.50	e0.50	e0.61	e0.84	1.2	e0.29	0.32	0.15	0.2	0.01	0.09
27	0.58	e0.50	e0.50	e0.61	e1.0	1.2	e0.24	0.33	0.14	0.09	0.01	0.08
28	0.57	e0.50	e0.50	e0.61	1.1	1.1	e0.19	0.35	0.14	0.06	0.02	0.09
29	0.57	e0.50	e0.50	e0.61	---	0.97	e0.25	0.33	0.13	0.05	0.02	0.15
30	0.53	e0.50	e0.50	e0.61	---	0.94	e0.31	0.31	0.12	0.04	0.01	0.13
31	0.54	---	e0.50	e0.60	---	0.98	---	0.31	---	0.03	0.06	---
TOTAL	15.78	16.42	15.97	18.73	21.96	39.87	17.21	12.09	7.02	9.6	2.49	2.3
MEAN	0.51	0.55	0.52	0.6	0.78	1.29	0.57	0.39	0.23	0.31	0.08	0.08
MAX	0.7	0.9	0.6	0.64	1.1	2.1	1.2	0.52	0.41	1.2	0.83	0.38
MIN	0.24	0.48	0.5	0.5	0.6	0.79	0.19	0.31	0.12	0.03	0.01	0.01
AC-FT	31	33	32	37	44	79	34	24	14	19	4.9	4.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2007, BY WATER YEAR (WY)

MEAN	0.33	0.55	1.24	1.09	1.17	2.74	5.79	3.91	0.8	0.41	0.28	0.26
MAX	0.55	0.84	5.69	3.23	3.03	4.22	21.5	12.9	2.18	1.19	0.51	0.57
(WY)	2006	2006	2006	2006	2006	2005	2006	2005	2005	2006	2006	2005
MIN	0.12	0.22	0.41	0.43	0.62	1.29	0.57	0.39	0.21	0.13	0.08	0.08
(WY)	2004	2004	2004	2002	2002	2007	2007	2007	2001	2001	2007	2007

SUMMARY STATISTICS	FOR 2006 CALENDAR YEAR		FOR 2007 WATER YEAR		WATER YEARS 2000 - 2007	
ANNUAL TOTAL	1506.63		179.44			
ANNUAL MEAN	4.13		0.49		1.62	
HIGHEST ANNUAL MEAN					4.59	2006
LOWEST ANNUAL MEAN					0.49	2007
HIGHEST DAILY MEAN	34	26-Apr	2.1	14-Mar	102	31-Dec 2005
LOWEST DAILY MEAN	0.12	19-Sep	0.01	26-Aug	0.01	26-Aug 2007
ANNUAL SEVEN-DAY MINIMUM	0.17	19-Sep	0.01	7-Sep	0.01	7-Sep 2007
MAXIMUM PEAK FLOW			3.9	14-Mar	250	31-Dec 2005
MAXIMUM PEAK STAGE			7.41	14-Mar	10.15	31-Dec 2005
ANNUAL RUNOFF (AC-FT)	2990		356		1170	
10 PERCENT EXCEEDS	14		1		3.3	
50 PERCENT EXCEEDS	1		0.5		0.54	
90 PERCENT EXCEEDS	0.32		0.04		0.13	

e Estimated

Table B-10
Station 25 Flows

1 U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

STATION NUMBER 10308794 BRYANT C BL MOUNTAINEER C NR MARKLEEVILLE CA STREAM SOURCE AGENCY USGS STATE 06 COUNTY 003
LATITUDE 384412 LONGITUDE 1193839 NAD27 DRAINAGE AREA 12.4* CONTRIBUTING DRAINAGE AREA DATUM 6300 NGVD29
Date Processed: 2007-11-13 11:06 By phoneywe
Lowest aging status in period is APPROVED
DD #1
Discharge, cubic feet per second
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.4	e2.0	e2.0	2.3	e2.2	3.7	2.2	2	1.2	0.84	1.1
2	2.6	2.5	e2.0	e2.0	2.4	2.2	3.6	2.3	2.4	1.2	0.86	1
3	2.7	2.7	e2.0	e2.1	e2.4	2.7	3.4	2.4	2.2	1.2	1.2	1
4	2.7	2.6	e2.0	e2.1	e2.4	2.9	3.4	2.4	2	1.2	0.97	1.1
5	2.7	2.4	e2.0	e2.1	e2.5	3.4	3.3	2.3	2	1.2	0.94	1.1
6	2.8	2.4	e2.0	e2.1	e2.6	3.7	3.3	2.3	2.2	1.5	0.92	1.2
7	2.7	e2.6	e2.0	e2.0	2.7	3.6	3.2	2.2	2.2	1.2	0.99	1.1
8	2.5	e2.8	e2.0	e2.0	2.7	3.5	3.1	2.2	2.2	1.1	1	1
9	2.4	e2.3	e2.0	e2.0	2.8	3.4	3	2	2.1	1.2	1	1
10	2.9	e2.0	e2.1	e2.0	e2.8	3.5	2.9	2	2	1.2	1	0.96
11	3	e1.8	e2.0	e2.1	e2.8	3.9	2.9	1.9	1.9	1.4	1.1	1
12	2.8	e1.9	e2.0	2.1	2.9	4.4	3	1.8	1.9	1.3	0.99	1
13	2.6	e2.1	e2.1	e2.2	2.9	4.4	2.9	1.8	1.9	1.3	1	1.1
14	2.6	e2.1	e2.1	2.2	e2.8	4.8	2.9	1.9	1.8	1.3	0.98	1.1
15	2.5	e2.0	e2.2	e2.2	2.9	4.4	3.1	1.9	1.7	1.3	0.99	1.1
16	2.4	e2.0	e2.1	e2.2	2.9	4.5	2.9	1.9	1.7	1.4	0.99	1.1
17	2.5	e2.0	e2.0	e2.2	3.4	4.5	2.7	1.8	1.6	2	0.99	1.1
18	2.6	e2.0	e2.0	e2.2	3.5	4.2	2.7	1.8	1.6	1.5	1	1.2
19	2.5	e2.0	e2.0	e2.2	3.4	3.8	2.6	1.9	1.6	1.4	1	1.1
20	2.4	e2.0	e2.0	e2.2	3.3	3.6	2.8	1.9	1.5	1.4	0.97	1.6
21	2.5	e2.0	e2.0	e2.2	3.3	3.6	2.7	2	1.5	1.3	0.88	1.4
22	2.5	e2.0	e2.0	2.2	2.9	3.2	2.9	2	1.4	1.4	0.92	1.5
23	2.5	e2.0	e2.0	2.3	e2.7	3.3	2.8	1.9	1.3	1.4	1.4	1.4
24	2.5	e2.0	e2.0	2.3	e2.5	3.5	2.6	1.9	1.3	1.4	0.89	1.4
25	2.4	e2.0	e2.0	2.4	2.6	3.6	2.6	1.9	1.3	1.4	0.86	1.3
26	2.5	e2.0	e2.0	2.4	2.3	3.7	2.5	1.8	1.3	1.1	0.95	1.1
27	2.5	e2.0	e2.0	2.3	e2.3	3.7	2.4	1.8	1.3	1.1	0.96	1.2
28	2.4	e2.0	e2.0	2.3	2.3	3.6	2.1	2	1.3	1	1	1.2
29	2.5	e2.0	e2.0	2.3	---	3.5	2.2	1.8	1.2	0.99	1.1	1.3
30	2.5	e2.0	e2.0	2.4	---	3.7	2.2	1.7	1.2	0.88	1.1	1.3
31	2.5	---	e2.0	2.4	---	3.7	---	1.8	---	0.84	1.3	---
TOTAL	79.6	64.6	62.6	67.7	77.3	112.7	86.4	61.5	51.6	39.31	31.09	35.06
MEAN	2.57	2.15	2.02	2.18	2.76	3.64	2.88	1.98	1.72	1.27	1	1.17
MAX	3	2.8	2.2	2.4	3.5	4.8	3.7	2.4	2.4	2	1.4	1.6
MIN	2.4	1.8	2	2	2.3	2.2	2.1	1.7	1.2	0.84	0.84	0.96
AC-FT	158	128	124	134	153	224	171	122	102	78	62	70

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2007, BY WATER YEAR (WY)

MEAN	1.59	1.81	2.6	2.82	3.04	6.05	8.93	8.5	2.78	1.6	1.42	1.51
MAX	2.57	2.59	8.48	5.7	5.17	10.7	23.9	20.9	6.12	3.5	2.55	2.66
(WY)	2007	2000	2006	2006	2006	2006	2006	2006	1999	2006	2006	1999
MIN	0.99	1.39	1.28	1.77	2.06	3.53	2.88	1.91	1.09	0.91	0.79	0.84
(WY)	2004	2004	2003	2001	2001	2001	2007	2001	2001	2003	2002	2002

SUMMARY STATISTICS	FOR 2006 CALENDAR YEAR		FOR 2007 WATER YEAR			WATER YEARS 1999 - 2007		
ANNUAL TOTAL	2643		769.46					
ANNUAL MEAN	7.24		2.11			3.28		
HIGHEST ANNUAL MEAN						7.66		2006
LOWEST ANNUAL MEAN						1.89		2001
HIGHEST DAILY MEAN	48	30-Apr	4.8	14-Mar		130	31-Dec	2005
LOWEST DAILY MEAN	1.8	11-Nov	0.84	31-Jul		0.54	18-Aug	2003
ANNUAL SEVEN-DAY MINIMUM	2	10-Nov	0.93	27-Jul		0.69	16-Aug	2002
MAXIMUM PEAK FLOW			8.2	14-Mar		290	31-Dec	2005
MAXIMUM PEAK STAGE			4.64	24-Feb		7.39	12-Nov	2000
ANNUAL RUNOFF (AC-FT)	5240		1530			2370		
10 PERCENT EXCEEDS	21		3.3			6		
50 PERCENT EXCEEDS	2.9		2			2		
90 PERCENT EXCEEDS	2		1.1			0.98		

e Estimated

Table B-11
Station 26 Flows

1 U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

STATION NUMBER 10308800 BRYANT C NR GARDNERVILLE, NV SOURCE AGENCY USGS STATE 32 COUNTY 005

LATITUDE 384738 LONGITUDE 1194018 NAD27 DRAINAGE AREA 31.5* CONTRIBUTING DRAINAGE AREA DATUM 5445.91 NGVD29

Date Processed: 2008-02-14 15:46 By snberris

Lowest aging status in period is APPROVED

DD #2

Discharge, cubic feet per second

WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	3.8	3.7	3.9	3.2	2.8	4	2.6	2.9	1.5	1.8	2.4
2	3.4	3.9	3.4	3.8	3.2	3.2	3.9	2.8	2.9	1.7	1.7	1.8
3	3.5	4.2	3.2	3.8	3.3	3.3	3.7	2.6	2.8	1.5	1.6	1.5
4	3.6	4.3	3.4	4.2	3.2	3.4	3.5	2.4	2.6	1.5	1.8	1.5
5	3.8	3.9	3.6	3.5	3.2	3.6	3.4	2.6	2.6	1.7	1.9	1.6
6	4	4	3.7	3.8	3.2	3.9	3.3	2.7	2.7	1.5	1.9	1.8
7	4.1	4	3.8	3.8	3.3	4	3.1	2.5	3	1.5	1.8	1.6
8	3.8	4.2	3.8	3.6	3.2	3.9	3.3	2.3	3	1.4	1.5	1.6
9	3.8	4.2	3.7	3.6	3.3	3.9	3.5	2.5	2.8	1.5	1.8	1.7
10	3.9	3.8	3.6	3.7	3.7	3.8	3.4	2.7	2.6	1.6	1.7	1.8
11	3.6	3.9	3.6	3.5	4.4	3.9	3.3	2.5	2.7	1.8	1.7	1.8
12	3.8	4	3.6	3.3	3.5	4.2	3.3	2.5	2.6	1.8	1.7	1.8
13	3.8	4.2	3.7	3.3	3.3	4.7	3.2	2.4	e2.4	1.6	1.6	1.9
14	3.8	4.1	3.7	3.6	3.1	5.1	3.1	2.5	e2.2	1.5	1.9	1.9
15	3.9	3.6	3.7	3.6	3.2	4.9	3.2	2.6	e2.1	1.5	1.6	1.8
16	4.1	3.6	3.5	3.7	3.2	4.8	3.1	2.6	e2.0	1.7	1.7	1.7
17	4.3	3.7	3.1	3.8	3.2	4.8	3.1	2.6	e1.9	1.8	1.8	1.6
18	4.4	3.6	2.4	3.7	3.3	4.6	3.1	2.6	1.8	2	1.9	1.5
19	4.3	3.5	2.7	3.7	3.3	4.4	2.9	2.5	1.7	2.1	1.9	1.6
20	4.2	3.5	3.2	3.7	3	4	3	2.5	2	2	1.8	2.2
21	4.1	3.4	3.8	3.6	3	4.2	2.9	2.5	1.9	1.9	1.8	2.1
22	3.9	3.3	3.7	3.5	2.9	4.2	2.8	2.6	1.8	1.8	1.7	2.4
23	3.8	3.3	3.6	3.6	2.5	4	2.9	2.6	1.7	1.8	2.6	2.6
24	3.7	3	3.5	3.6	2.8	3.9	2.8	2.4	1.8	2	1.9	2.5
25	3.7	3.1	3.4	3.5	3.2	4	3.2	2.5	1.8	1.9	1.6	2.4
26	3.8	3.3	3.6	3.5	3.1	4	2.9	2.5	1.6	1.6	1.6	2.2
27	3.9	3.6	4	3.5	2.9	4.1	2.7	2.4	1.7	1.5	1.6	2
28	3.9	2.9	3.5	3.4	3	3.9	2.8	2.4	1.5	1.5	2	2.1
29	3.8	2.5	3.3	3.3	---	3.8	2.8	2.4	1.5	2	2	2.2
30	3.9	3	3.8	3.3	---	3.8	2.7	2.3	1.5	1.8	2	2.1
31	3.8	---	3.9	3.3	---	3.9	---	2.7	---	1.8	2.5	---
TOTAL	119.6	109.4	109.2	111.7	89.7	125	94.9	78.3	66.1	52.8	56.4	57.7
MEAN	3.86	3.65	3.52	3.6	3.2	4.03	3.16	2.53	2.2	1.7	1.82	1.92
MAX	4.4	4.3	4	4.2	4.4	5.1	4	2.8	3	2.1	2.6	2.6
MIN	3.2	2.5	2.4	3.3	2.5	2.8	2.7	2.3	1.5	1.4	1.5	1.5
AC-FT	237	217	217	222	178	248	188	155	131	105	112	114

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2007, BY WATER YEAR (WY)

MEAN	3.12	3.41	4.54	8.02	6.92	13.3	18.3	20.3	8.05	3.71	2.91	2.98
MAX	4.43	4.62	20	59.1	21.2	52	71.8	71.5	33.9	9.16	5.59	5.05
(WY)	1999	1999	2006	1997	1996	1995	1969	1969	1995	1969	1969	1969
MIN	1.9	2.15	2.25	2.23	2.91	4.03	3.16	2.53	2.09	1.7	1.73	1.41
(WY)	2004	1962	1962	1962	2004	2007	2007	2007	2001	2007	1994	2003

SUMMARY STATISTICS	FOR 2006 CALENDAR YEAR		FOR 2007 WATER YEAR		WATER YEARS 1961 - 2007		
ANNUAL TOTAL	3746.3		1070.8				
ANNUAL MEAN	10.3		2.93		8.09		
HIGHEST ANNUAL MEAN					20		1969
LOWEST ANNUAL MEAN					2.93		2007
HIGHEST DAILY MEAN	71	28-Feb	5.1	14-Mar	600	2-Jan	1997
LOWEST DAILY MEAN	2.4	18-Dec	1.4	8-Jul	0.78	19-Aug	2003
ANNUAL SEVEN-DAY MINIMUM	2.8	13-Aug	1.5	3-Jul	1	22-Sep	2003
MAXIMUM PEAK FLOW			7.1	14-Mar	1360	2-Jan	1997
MAXIMUM PEAK STAGE			6.11	7-Jun	10.62	31-Dec	2005
ANNUAL RUNOFF (AC-FT)	7430		2120		5860		
10 PERCENT EXCEEDS	27		4		16		
50 PERCENT EXCEEDS	4.6		3.1		3.9		
90 PERCENT EXCEEDS	3		1.7		2.3		

e Estimated

Table B-12
Pond 1 Stage

1 U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

STATION NUMBER 103087853 LEVIATHAN MINE POND 1 NR MARKLEEVILLE CA STREAM SOURCE AGENCY USGS STATE 06 COUNTY 003

LATITUDE 384215 LONGITUDE 1193929 NAD27 DRAINAGE AREA CONTRIBUTING DRAINAGE AREA DATUM 7050 NGVD29

Date Processed: 2007-11-13 11:06 By phoneywe

Lowest aging status in period is APPROVED

DD #1

Gage height, feet

WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.53	4.53	e4.50	4.52	4.88	5.43	5.77	5.79	5.46	5.07	4.52	4.52
2	4.52	4.53	e4.51	4.53	4.89	e5.44	5.77	5.78	5.47	5.05	4.52	4.52
3	4.52	4.53	e4.51	4.53	4.9	e5.45	5.76	5.77	5.46	5.04	4.53	4.52
4	4.53	4.53	4.51	4.59	4.91	e5.45	5.76	5.78	5.44	5.03	4.53	4.52
5	4.52	4.53	4.52	4.57	4.92	e5.46	5.75	5.77	5.41	5.01	4.53	4.52
6	4.52	4.53	4.52	4.58	4.93	e5.48	5.75	5.77	5.4	4.98	4.53	4.52
7	4.52	4.51	4.52	4.58	4.95	5.5	5.75	5.76	e5.40	4.96	4.53	4.52
8	4.52	4.51	4.52	4.61	e4.99	5.51	e5.77	5.75	5.41	4.83	4.53	4.53
9	4.52	4.51	4.53	4.62	5.03	5.52	e5.78	5.74	e5.39	4.62	4.54	4.52
10	4.51	4.52	e4.52	4.61	5.08	5.53	e5.78	5.73	e5.37	4.54	4.54	4.53
11	4.51	4.51	e4.52	4.63	5.12	5.53	5.78	5.74	5.36	4.54	4.57	4.52
12	4.51	4.51	4.52	4.64	5.12	5.54	5.78	e5.72	5.35	4.53	4.55	4.53
13	4.52	4.52	4.53	4.65	5.14	5.56	5.78	e5.71	5.35	4.52	4.55	4.52
14	4.52	4.51	4.55	4.66	5.14	5.57	5.77	5.72	5.28	4.53	4.54	4.53
15	4.52	4.52	e4.53	4.67	5.15	5.59	5.8	e5.72	5.24	4.53	4.54	4.53
16	4.52	4.52	4.52	4.68	5.16	5.6	5.8	5.7	5.3	4.53	4.54	4.53
17	4.51	4.52	e4.50	4.69	5.17	5.62	5.79	5.68	5.39	4.53	4.54	4.53
18	4.52	4.52	4.48	4.7	5.18	5.63	5.8	5.67	5.35	4.53	4.54	e4.53
19	4.52	4.52	4.48	4.72	5.19	5.63	5.81	5.65	5.32	4.53	4.54	4.52
20	4.52	4.52	4.5	4.74	5.2	5.64	5.82	5.64	5.29	e4.53	4.54	4.53
21	4.52	4.52	4.5	4.75	5.2	5.66	5.81	5.62	5.27	4.53	4.54	4.56
22	4.52	e4.52	4.48	4.76	5.27	5.68	5.84	5.61	5.24	4.54	4.54	e4.56
23	4.52	e4.52	4.52	4.77	5.27	5.69	5.84	5.6	5.22	4.54	4.54	e4.56
24	4.53	e4.52	4.5	4.81	5.28	5.69	5.83	5.58	5.2	4.54	4.54	e4.55
25	4.52	e4.52	4.5	4.82	5.32	5.7	5.84	5.57	5.18	4.52	4.54	e4.55
26	4.53	e4.51	4.51	4.83	5.39	5.76	5.84	5.56	5.16	4.52	4.54	4.52
27	4.53	4.5	4.5	4.84	e5.41	5.77	5.83	5.54	5.15	e4.58	4.54	4.52
28	4.53	e4.50	4.5	4.85	5.42	5.77	5.83	5.53	5.13	e4.58	4.54	4.51
29	4.53	e4.50	4.52	4.86	---	5.77	5.82	5.51	5.11	e4.58	4.51	4.52
30	4.53	e4.50	4.53	4.86	---	5.77	5.81	5.49	5.09	e4.55	4.51	4.52
31	4.53	---	4.53	4.87	---	5.77	---	5.48	---	4.52	4.51	---
MEAN	4.52	4.52	4.51	4.69	5.13	5.6	5.8	5.67	5.31	4.66	4.54	4.53
MAX	4.53	4.53	4.55	4.87	5.42	5.77	5.84	5.79	5.47	5.07	4.57	4.56
MIN	4.51	4.5	4.48	4.52	4.88	5.43	5.75	5.48	5.09	4.52	4.51	4.51

e Estimated

Table B-13
Pond 4 Stage

1 U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

STATION NUMBER 103087887 LEVIATHAN MINE POND 4 NR MARKLEEVILLE CA STREAM SOURCE AGENCY USGS STATE 06 COUNTY 003

LATITUDE 384234 LONGITUDE 1193941 NAD27 DRAINAGE AREA CONTRIBUTING DRAINAGE AREA DATUM 6800 NGVD29

Date Processed: 2007-11-13 11:06 By phoneywe

Lowest aging status in period is APPROVED

DD #1

Gage height, feet

WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.86	7.6	3.96	e4.09	4.22	4.69	5.07	4.92	4.41	6.24	6.48	5.41
2	7.67	7.62	3.92	4.07	4.17	4.71	5.08	4.94	4.43	6.38	6.61	5.54
3	7.05	7.63	3.98	4.1	4.21	4.7	5.09	4.91	4.4	6.58	4.94	5.64
4	6.43	7.61	3.94	4.14	4.18	4.7	5.06	4.91	4.39	6.65	5.09	5.74
5	5.81	7.6	3.97	4.14	4.19	4.72	5.09	4.89	4.37	6.44	5.22	5.87
6	5.29	7.14	3.94	4.18	4.19	4.73	5.09	4.88	4.37	5.22	5.33	5.97
7	5.19	5.88	3.94	4.15	4.15	4.74	5.05	4.84	4.32	5.39	5.51	6.07
8	5.42	4.78	3.92	4.2	4.17	4.75	5.06	4.87	4.3	5.55	5.65	6.19
9	5.67	3.91	3.94	4.19	4.2	4.78	5.04	4.85	4.26	5.7	5.79	6.31
10	5.95	3.94	3.96	4.22	4.36	4.8	5.03	4.82	4.22	5.87	5.91	6.38
11	6.17	3.96	3.92	4.21	4.4	4.8	5.03	4.8	4.21	6.07	6.03	6.49
12	6.36	3.95	3.96	4.21	4.42	4.83	5.05	4.78	4.19	6.2	6.17	6.57
13	6.59	4.03	3.98	4.22	e4.43	4.84	5.01	4.77	4.21	6.37	6.27	6.67
14	6.77	4.05	3.97	4.2	4.44	4.86	5.02	4.79	4.15	6.48	6.39	6.57
15	6.92	4.04	3.97	4.21	4.44	4.89	5.07	4.68	4.15	6.65	6.49	6.36
16	7.11	4.03	4.01	4.19	4.46	4.9	5.05	4.72	4.31	5.96	6.58	6.17
17	7.31	4.02	4.01	4.23	4.46	4.92	5.05	4.69	4.47	4.17	6.68	5.9
18	7.5	4.01	4.07	4.17	4.46	4.91	5.01	4.67	4.65	4.35	6.81	5.67
19	7.66	4	3.92	4.22	4.5	4.91	5.05	4.63	4.69	4.57	6.91	5.48
20	7.76	4	3.99	4.17	4.49	4.93	5.04	4.66	4.84	4.72	6.99	5.25
21	7.76	4	3.99	4.18	4.48	4.96	5.04	4.63	4.92	4.88	7.12	5.05
22	7.76	3.97	3.98	4.19	4.55	4.96	5.04	4.62	5.1	5.07	5.56	4.86
23	7.73	3.98	4	4.21	4.55	4.97	5.07	4.58	5.22	5.21	4.27	4.63
24	7.73	3.97	4.12	4.19	4.54	4.95	5.05	4.57	5.35	5.36	4.39	4.63
25	7.72	3.97	3.95	4.16	4.59	4.97	5.02	4.53	5.49	5.51	4.52	4.76
26	7.72	3.97	4.07	4.16	4.66	5.02	5.02	4.51	5.63	5.66	4.64	4.91
27	7.69	3.96	4.1	4.19	4.68	5.03	4.97	4.52	5.74	5.79	4.74	5.06
28	7.68	3.97	4.03	4.17	4.68	5.07	4.99	4.49	5.86	5.93	4.88	5.18
29	7.66	3.94	4.08	4.22	---	5.09	4.95	4.46	5.99	6.08	5.01	5.32
30	7.62	3.96	4.1	4.23	---	5.09	4.96	4.44	6.08	6.21	5.14	5.45
31	7.61	---	4.1	4.22	---	5.07	---	4.45	---	6.34	5.29	---
MEAN	7.01	4.78	3.99	4.18	4.4	4.88	5.04	4.7	4.76	5.73	5.72	5.67
MAX	7.86	7.63	4.12	4.23	4.68	5.09	5.09	4.94	6.08	6.65	7.12	6.67
MIN	5.19	3.91	3.92	4.07	4.15	4.69	4.95	4.44	4.15	4.17	4.27	4.63

e Estimated

Table B-14: Adit Laboratory and Field Results

Adit Dissolved Metals - mg/L																													
Sample ID	**Date**	**Time**	**Al**	**Q**	**As**	**Q**	**Ca**	**Q**	**Cd**	**Q**	**Co**	**Q**	**Cr**	**Q**	**Cu**	**Q**	**Fe**	**Q**	**Mg**	**Q**	**Mn**	**Q**	**Ni**	**Q**	**Zn**	**Q**	**TDS**	**Q**	**Sulfate**	**Q**
067LM053-Adit	10/24/2006	9:30:00 AM	260		15		110		0.040		1.6		1.1		1.0		620		35		5.0		3.9		0.66		5400		3700	
067LM077-Adit	11/29/2006	10:35:00 AM	510		10		120		0.035		2.4		0.93		0.85		720		35		5.6		0.22		0.56		4800		3800	
067LM079-ADIT	12/19/2006	11:05:00 AM	480		12		110		0.036		1.7		0.94		0.83		620		32		6.3		5.1		0.56		4800		3700	
067LM094-ADIT	01/24/2007	10:55:00 AM	330		11		110		0.037		1.6		0.85		0.74		680		34		5.2		5.1		0.58		5000		3600	
067LM107-Adit	03/06/2007	12:15:00 PM	240		12		95		0.037		1.8		0.95		0.74		650		30		5.9		4.7		0.71		4800		3800	
067LM120	03/28/2007	1:00:00 PM	276		11.5		109		0.0472		1.70		0.928	QR-04	0.830		706		32		5.99		4.60		0.797		5000		3700	
067LM133	04/25/2007	9:10:00 AM	315		12.8		108		0.0660		1.97		1.06	QR-04	1.12		787	QM-4X	33		6.82	QM-4X	5.30		0.955		5400		3800	
067LM146	05/29/2007	1:05:00 PM	302		12.3		117		0.0642		1.90		1.02	QR-04	0.955		761	QM-4X	35		6.70	QM-4X	5.09		0.943		5300		4100	
078LM005	07/02/2007	8:35:00 AM	284	QM-4X	11.6		107		0.0531		1.80		0.982		0.817		715	QM-4X	32		6.39		4.85		0.878		5000		3800	
078LM015	07/23/2007	10:25:00 AM	286		11.6		101		0.0554		1.80		0.963	QR-04	0.786		723	QM-4X	31		6.52	QM-4X	4.89		0.908		5160		3700	
078LM028	08/29/2007	10:00:00 AM	282	QM-07	11.3		104		0.0520		1.76		0.965		0.778		719		31		6.45		4.79		0.859		5110		3520	
078LM044	09/25/2007	9:55:00 AM	271	QM-4X	10.9		95		0.0499		1.70		0.915		0.736		675	QM-4X	29		6.17		4.62		0.844		4520		3570	
078LM045	09/25/2007	10:00:00 AM	274	QM-4X	11.0		97		0.0509		1.72		0.925		0.752		682	QM-4X	30		6.23		4.66		0.852		4400		3480	

Adit Total Metals - mg/L																										
Sample ID	**Date**	**Time**	**Al**	**Q**	**As**	**Q**	**Ca**	**Q**	**Cd**	**Q**	**Co**	**Q**	**Cr**	**Q**	**Cu**	**Q**	**Fe**	**Q**	**Mg**	**Q**	**Mn**	**Q**	**Ni**	**Q**	**Zn**	**Q**
067LM053-Adit	10/24/2006	9:30:00 AM	240		15		110		0.042		1.6		1.1		1.1		650		35		5.1		4.2		0.68	
067LM077-Adit	11/29/2006	10:35:00 AM	480		11		120		0.036		2.4		0.97		0.93		660		34		5.4		4.6		0.59	
067LM079-ADIT	12/19/2006	11:05:00 AM	460		13		110		0.035		1.7		0.98		0.9		680		35		5.8		5.2		0.62	
067LM094-ADIT	01/24/2007	10:55:00 AM	310		11		110		0.036		1.6		0.83		0.75		620		33		5.1		5		0.56	
067LM107-Adit	03/06/2007	12:15:00 PM	250		13		98		0.039		1.9		1		0.8		650		31		6.1		4.9		0.73	
067LM120	03/28/2007	1:00:00 PM	284		11.9		105		0.0525		1.76		0.977		0.890		738		31		6.27		4.70		0.832	
067LM133	04/25/2007	9:10:00 AM	294		12.7		106		0.0657		2.01		1.10		1.17		773	QM-4X	32		7.04	QM-4X	5.22		0.952	
067LM146	05/29/2007	1:05:00 PM	285		12.0		112		0.0625		1.88		1.02		0.989		729	QM-4X	34		6.77	QM-4X	4.88		0.908	
078LM005	07/02/2007	8:35:00 AM	273		11.4		110		0.0534		1.80		0.987	QR-04	0.849		692		33		6.50		4.55		0.857	
078LM015	07/23/2007	10:25:00 AM	284	QR-04	11.8	QR-04	100		0.0499		1.84		1.02		0.820	QR-04	739		30		6.80		4.97		0.917	
078LM028	08/29/2007	10:00:00 AM	277	QR-04	11.9		107		0.0534		1.86		1.05		0.967		725		31		6.78		4.98		0.909	
078LM044	09/25/2007	9:55:00 AM	284		11.6		114		0.0565	QR-04	1.83		0.973		0.852		715		34		6.68	QM-4X	4.69		0.895	
078LM045	09/25/2007	10:00:00 AM	283		11.6		118		0.0553	QR-04	1.84		0.978		0.844		718		35		6.70	QM-4X	4.71		0.896	

Adit Field and Flow Data											Daily Mean Flow		Monthly Mean Flow	
Date	**Time**	**pH**		**Temp**		**EC**		**SpC**						
10/24/2006	9:30:00 AM	2.5	SU	11.7	°C	3577	uS/cm	4795	uS/cm		16.95	gpm	17.2	gpm
11/29/2006	10:35:00 AM	2.3	SU	11.8	°C	3410	uS/cm	4560	uS/cm		16.64	gpm	16.6	gpm
12/19/2006	11:05:00 AM	2.6	SU	11.6	°C	3386	uS/cm	4551	uS/cm		16.27	gpm	16.2	gpm
1/24/2007	10:55:00 AM	2.5	SU	11.6	°C	3309	uS/cm	4449	uS/cm		15.45	gpm	15.7	gpm
3/6/2007	12:15:00 PM	2.6	SU	11.8	°C	3230	uS/cm	4319	uS/cm		14.61	gpm	14.6	gpm
3/28/2007	1:00:00 PM	2.6	SU	11.6	°C	3225	uS/cm	4334	uS/cm		14.73	gpm	14.6	gpm
4/25/2007	9:10:00 AM	2.3	SU	11.9	°C	3350	uS/cm	4470	uS/cm		14.85	gpm	14.8	gpm
5/29/2007	1:05:00 PM	2.2	SU	12.2	°C	3150	uS/cm	4168	uS/cm		14.08	gpm	14.6	gpm
07/02/2007	8:35:00 AM	2.6	SU	12.2	°C	3010	uS/cm	3995	uS/cm		12.58	gpm	12.3	gpm
07/23/2007	10:25:00 AM	2.4	SU	12.1	°C	3165	uS/cm	4199	uS/cm		12.18	gpm	12.3	gpm
08/29/2007	10:00:00 AM	2.3	SU	12.0	°C	3101	uS/cm	4116	uS/cm		11.35	gpm	11.7	gpm
09/25/2007	9:55:00 AM	2.6	SU	12.0	°C	3049	uS/cm	4057	uS/cm		11.65	gpm	11.5	gpm
09/25/2007	10:00:00 AM	2.6	SU	12.0	°C	3049	uS/cm	4057	uS/cm		11.65	gpm	11.5	gpm

Field Data:

EC - Electrical Conductivity

SpC - Specific Conductance

Units: SU - Standard Units; °C - degrees celsius; uS/cm - micro siemen per centimeter; gpm - gallons per minute

Lerr - Instrument reading when instument cannot compute SpC due to low water temperature

e - estimated

Q - Qualifiers:

U - Analyte not detected at the given Method Detection Limit (MDL)

J - Analyte detected between the MDL and the Practical Quantitation Limit

QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to the analyte concentration being greater than 4 times the spike concentration. The QC batch was accepted based on LCSD recoveries within the acceptance limits

QM-07 - The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery

QR-04 - Duplicate results are within one reporting limit and pass all necessary QC criteria

Table B-15: Pit Under-drain Laboratory and Field Results

PUD Dissolved Metals - mg/L																													
Sample ID	Date	Time	Al	Q	As	Q	Ca	Q	Cd	Q	Co	Q	Cr	Q	Cu	Q	Fe	Q	Mg	Q	Mn	Q	Ni	Q	Zn	Q	TDS	Q	Sulfate	Q
067LM054-PUD	10/24/2006	9:40:00 AM	250		2.9		240		0.014		0.60		0.58		0.30		740		87		25		1.7		1.4		6300		4500	
067LM071-PUD	11/29/2006	10:45:00 AM	500		0.78		290		0.014		0.9		0.38		0.29		920		100		59		5.1		1.6		6000		5400	
067LM080-PUD	12/19/2006	11:10:00 AM	490		0.71		280		0.014		1.3		0.35		0.36		810		100		45		3.2		1.6		6700		5300	
067LM095-PUD	01/24/2007	11:05:00 AM	340		0.31		320		0.016		1.4		0.26		0.38		950		120		50		3.4		1.9		6900		5600	
067LM108-PUD	03/06/2007	12:20:00 PM	270		0.31		340		0.018	J	1.7		0.27		0.49		1000		130		53		3.7		2.8		5100		5900	
067LM121	03/28/2007	1:10:00 PM	377		2.80		345		0.0428		1.14		0.447	QR-04	1.16		1010		104		42.8		2.77		2.10		7700		6200	
067LM134	04/25/2007	9:20:00 AM	352		1.93		373		0.0529		1.45		0.396	QR-04	0.650		1060	QM-4X	128		49.9	QM-4X	3.48		2.81		8000		6000	
067LM147	05/29/2007	1:15:00 PM	341		0.536		399		0.0608		1.55		0.333	QR-04	0.510		1150	QM-4X	145		54.3	QM-4X	3.71		3.06		8700		6200	
078LM006	07/02/2007	8:45:00 AM	335	QM-4X	0.436		368		0.0544		1.62		0.305		0.510		1130	QM-4X	138		56.4		3.82		3.09		8600		6400	
078LM016	07/23/2007	10:30:00 AM	339		0.385		384		0.0576		1.71		0.287	QR-04	0.499		1200	QM-4X	143		61.3	QM-4X	4.08		3.42		8800		6670	
078LM029	08/29/2007	10:15:00 AM	358	QM-07	0.194		407		0.0564		1.89		0.256		0.540		1350		159		69.3		4.53		3.72		9580		7230	
078LM038	08/29/2007	10:20:00 AM	349	QM-07	0.180		407		0.0586		1.85		0.251		0.532		1320		153		67.5		4.39		3.65		9510		7290	
078LM046	09/25/2007	10:10:00 AM	337	QM-4X	0.129		393		0.0626		1.89		0.217		0.522		1280	QM-4X	156		67.9		4.38		3.70		9290		6810	

PUD Total Metals - mg/L																										
Sample ID	Date	Time	Al	Q	As	Q	Ca	Q	Cd	Q	Co	Q	Cr	Q	Cu	Q	Fe	Q	Mg	Q	Mn	Q	Ni	Q	Zn	Q
067LM054-PUD	10/24/2006	9:40:00 AM	250		2.9		240		0.015		0.64		0.61		0.34		760		87		20		1.8		1.5	
067LM071-PUD	11/29/2006	10:45:00 AM	490		0.91		290		0.015		1.9		0.41		0.31		880		100		60		2.8		1.8	
067LM080-PUD	12/19/2006	11:10:00 AM	520		0.71		300		0.015		15		0.44		0.49		990		110		54		3.7		2.8	
067LM095-PUD	01/24/2007	11:05:00 AM	380		0.31		320		0.016		1.3		0.26		0.38		990		120		49		3.4		1.9	
067LM108-PUD	03/06/2007	12:20:00 PM	270		0.3		330		0.017	J	1.6		0.26		0.46		930		120		48		3.5		2.6	
067LM121	03/28/2007	1:10:00 PM	375		2.72		336		0.0453		1.13		0.450		1.11		1040		102		43.5		2.70		2.08	
067LM134	04/25/2007	9:20:00 AM	327		1.87		346		0.0545		1.45		0.400		0.633		1030	QM-4X	116		50.8	QM-4X	3.37		2.75	
067LM147	05/29/2007	1:15:00 PM	335		0.537		377		0.0579		1.62		0.347		0.533		1160	QM-4X	137		57.7	QM-4X	3.77		3.10	
078LM006	07/02/2007	8:45:00 AM	338		0.492		384		0.0553		1.70		0.324	QR-04	0.529		1150		141		60.5		3.81		3.20	
078LM016	07/23/2007	10:30:00 AM	351	QR-04	0.400	QR-04	390		0.0475		1.82		0.314		0.518	QR-04	1350		144		67.1		4.31		3.61	
078LM029	08/29/2007	10:15:00 AM	350	QR-04	0.202		394		0.0624		1.98		0.325		0.560		1350		152		72.0		4.65		3.82	
078LM038	08/29/2007	10:20:00 AM	347	QR-04	0.188		406		0.0629		1.93		0.328		0.547		1320		152		70.6		4.54		3.71	
078LM046	09/25/2007	10:10:00 AM	358		0.157		440		0.0722	QR-04	2.11		0.242		0.567		1410		168		76.2	QM-4X	4.66		4.08	

PUD Field and Flow Data											Daily Mean Flow		Monthly Mean Flow	
Date	Time	pH		Temp		EC		SpC						
10/24/2006	9:40:00 AM	2.7	SU	9.9	°C	3637.0	uS/cm	5110	uS/cm		0.805	gpm	0.96	gpm
11/29/2006	10:45:00 AM	2.6	SU	7.9	°C	3365	uS/cm	5010	uS/cm		0.403	gpm	0.53	gpm
12/19/2006	11:10:00 AM	2.9	SU	7.2	°C	3454	uS/cm	5230	uS/cm		0.396	gpm	0.43	gpm
1/24/2007	11:05:00 AM	2.7	SU	5.6	°C	3579	uS/cm	5690	uS/cm		0.389	gpm	0.4	gpm
3/6/2007	12:20:00 PM	2.7	SU	6.1	°C	3607	uS/cm	5660	uS/cm		0.312	gpm	0.49	gpm
3/28/2007	1:10:00 PM	2.3	SU	6.9	°C	4382	uS/cm	6270	uS/cm		0.514	gpm	0.49	gpm
4/25/2007	9:20:00 AM	2.2	SU	6.4	°C	3825	uS/cm	5855	uS/cm		0.325	gpm	0.37	gpm
5/29/2007	1:15:00 PM	2.4	SU	9.6	°C	4106	uS/cm	5810	uS/cm		0.28	gpm	0.31	gpm
07/02/2007	8:45:00 AM	2.7	SU	11.1	°C	4328	uS/cm	5880	uS/cm		0.165	gpm	0.17	gpm
07/23/2007	10:30:00 AM	2.6	SU	12.3	°C	4090	uS/cm	5400	uS/cm		0.161	gpm	0.17	gpm
08/29/2007	10:15:00 AM	2.5	SU	13.5	°C	5030	uS/cm	6440	uS/cm		e0.157	gpm	0.17	gpm
08/29/2007	10:20:00 AM	2.5	SU	13.5	°C	5030	uS/cm	6440	uS/cm		e0.157	gpm	e0.157	gpm
09/25/2007	10:10:00 AM	2.7	SU	11.0	°C	4760	uS/cm	6500	uS/cm		0.115	gpm	0.115	gpm

Field Data:

EC - Electrical Conductivity

SpC - Specific Conductance

Units: SU - Standard Units; °C - degrees celsius; uS/cm - micro siemen per centimeter; gpm - gallons per minute

Lerr - Instrument reading when instument cannot compute SpC due to low water temperature

e - estimated

Q - Qualifiers:

U - Analyte not detected at the given Method Detection Limit (MDL)

J - Analyte detected between the MDL and the Practical Quantitation Limit

QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to the analyte concentration being greater than 4 times the spike concentration. The QC batch was accepted based on LCSD recoveries within the acceptance limits

QM-07 - The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery

QR-04 - Duplicate results are within one reporting limit and pass all necessary QC criteria

Table B-16: Overburden Seep Laboratory and Field Results

OS Dissolved Metals - mg/L																															
Sample ID	Date	Time	Al	Q	As	Q	Ca	Q	Cd	Q	Co	Q	Cr	Q	Cu	Q	Fe	Q	Mg	Q	Mn	Q	Ni	Q	Zn	Q	TDS	Q	Sulfate	Q
067LM057-OS	10/24/2006	10:35:00 AM	58		0.0015	J	360		0.0028		0.38		0.0068		1.5		150		95		23		0.57		0.84		3400		2300	
067LM058-OS-Dup	10/24/2006	10:37:00 AM	57		0.0013	J	350		0.0028		0.38		0.0069		1.5		150		95		23		0.57		0.85		3300		2300	
067LM070-OS	11/29/2006	9:40:00 AM	75		0.0014	J	360		0.0024		0.34		0.0049	J	1.2		160		92		33		0.52		0.7		2700		2000	
067LM082-OS	12/19/2006	10:15:00 AM	49		0.0016	J	340		0.0024	J	0.38		0.0051	J	1.4		140		86		22		0.58		0.69		2700		2000	
067LM092-OS	01/24/2007	09:55:00 AM	51		0.0012	J	340		0.0023	J	0.39		0.0053	J	1.4		130		86		20		0.57		0.69		2700		1900	
067LM105-OS	03/06/2007	10:40:00 AM	42		0.0025	J	310		0.005	J	0.71		0.01	J	2.6		130		79		19		1.1		1.5		2600		2100	
067LM118	03/28/2007	12:15:00 PM	49.5		0.002	U	352		0.0049	J	0.338		0.009	QR-04	1.28		120		84		19.3		0.565		0.779		2800		1900	
067LM131	04/25/2007	12:50:00 PM	47.0		0.022	J	380		0.0050	J	0.348		0.010	J, QR-04	1.27		131	QM-4X	82		20.5	QM-4X	0.582		0.810		2600		1900	
067LM144	05/29/2007	11:45:00 AM	46.2		0.010	U	362		0.0054	J	0.349		0.009	J, QR-04	1.20		123	QM-4X	88		20.4	QM-4X	0.578		0.807		2700		2000	
078LM002	07/02/2007	11:00:00 AM	46.1	QM-4X	0.010	U	343		0.0051	J	0.356		0.009	J	1.16		123	QM-4X	85		20.2		0.578		0.793		2600		1900	
078LM024	07/23/2007	1:50:00 PM	45.3		0.010	R-08, U	344		0.0055	J, R-08	0.344		0.008	J, QR-04, R-08	1.13		107	QM-4X	84		20.0	QM-4X	0.560		0.797		2530		1950	
078LM032	08/29/2007	12:30:00 PM	45.7	QM-07	0.015	R-08, U	351		0.0054	J	0.346		0.009	J	1.06		107		85		20.0		0.566		0.753		2630		2010	
078LM049	09/25/2007	11:30:00 AM	46.6	QM-4X	0.010	U	325		0.0051	J	0.354		0.010	J	1.01		106	QM-4X	82		20.2		0.568		0.785		2330		1910	

OS Total Metals - mg/L																										
Sample ID	Date	Time	Al	Q	As	Q	Ca	Q	Cd	Q	Co	Q	Cr	Q	Cu	Q	Fe	Q	Mg	Q	Mn	Q	Ni	Q	Zn	Q
067LM057-OS	10/24/2006	10:35:00 AM	55		0.0013	J	340		0.0028		0.38		0.0071		1.7		150		90		23		0.58		0.90	
067LM058-OS-Dup	10/24/2006	10:37:00 AM	54		0.0015	J	340		0.0029		0.38		0.0076		1.7		150		90		22		0.58		0.91	
067LM070-OS	11/29/2006	9:40:00 AM	77		0.0015	J	360		0.0027		0.35		0.0053		1.3		150		90		34		0.57		0.76	
067LM082-OS	12/19/2006	10:15:00 AM	50		0.0019	J	340		0.0025	J	0.37		0.0047	J	1.3		150		86		22		0.58		0.72	
067LM092-OS	01/24/2007	09:55:00 AM	56		0.0015	J	360		0.0024	J	0.41		0.0059	J	1.5		130		91		21		0.6		0.71	
067LM105-OS	03/06/2007	10:40:00 AM	42		0.0026	J	310		0.005	J	0.77		0.011	J	2.8		130		80		19		1.2		1.6	
067LM131	04/25/2007	12:50:00 PM	47.2		0.003	U	336		0.0078		0.345		0.009		1.32		124	QM-4X	77		19.2	QM-4X	0.544		0.779	
067LM144	05/29/2007	11:45:00 AM	230		0.015	R-08, U	361		0.0336		1.66		0.038		6.13		566	QM-4X	87		93.8	QM-4X	2.62		3.78	
078LM002	07/02/2007	11:00:00 AM	44.9		0.015	U	352		0.0052	J	0.354		0.009	J, QR-04	1.17		120		85		20.6		0.547		0.785	
078LM024	07/23/2007	1:50:00 PM	45.3	QR-04	0.015	QR-04, R-08, U	362		0.0050	R-08, U	0.331		0.009	J, R-08	1.12	QR-04	103		86		19.0		0.535		0.760	
078LM032	08/29/2007	12:30:00 PM	44.1	QR-04	0.015	R-08, U	337		0.0050	R-08, U	0.351		0.068		1.07		106		82		20.6		0.595		0.781	
078LM049	09/25/2007	11:30:00 AM	48.0		0.015	R-08, U	365		0.0050	J, QR-04, R-08	0.373		0.012	J, R-08	1.09		110		90		21.5	QM-4X	0.576		0.819	

OS Field and Flow Data										Daily Mean Flow		Monthly Mean Flow	
Date	Time	pH		Temp		EC		SpC					
10/24/2006	10:35:00 AM	3.0	SU	7.1	°C	1931	uS/cm	2932	uS/cm	10.718	gpm	11.4	gpm
10/24/2006	10:37:00 AM	3.0	SU	7.1	°C	1931	uS/cm	2932	uS/cm	10.718	gpm	11.4	gpm
11/29/2006	9:40:00 AM	3.0	SU	4.3	°C	1718	uS/cm	2840	uS/cm	11.109	gpm	10.7	gpm
12/19/2006	10:15:00 AM	3.2	SU	4.0	°C	1691	uS/cm	2823	uS/cm	6.862	gpm	7.53	gpm
1/24/2007	9:55:00 AM	3.0	SU	4.3	°C	1686	uS/cm	2788	uS/cm	7.411	gpm	6.94	gpm
3/6/2007	10:40:00 AM	2.9	SU	5.3	°C	1697	uS/cm	2722	uS/cm	9.901	gpm	9.54	gpm
3/28/2007	12:15:00 PM	3.0	SU	5.7	°C	1731	uS/cm	2742	uS/cm	e9.150	gpm	9.54	gpm
4/25/2007	12:50:00 PM	2.6	SU	8.0	°C	1900	uS/cm	2700	uS/cm	8.168	gpm	8.66	gpm
5/29/2007	11:45:00 AM	2.6	SU	10.4	°C	1992	uS/cm	2761	uS/cm	8.244	gpm	8.36	gpm
07/02/2007	11:00:00 AM	3.0	SU	11.0	°C	2016	uS/cm	2746	uS/cm	8.382	gpm	8.26	gpm
07/23/2007	1:50:00 PM	2.7	SU	14.0	°C	2177	uS/cm	2756	uS/cm	7.927	gpm	8.26	gpm
08/29/2007	12:30:00 PM	2.5	SU	13.2	°C	2127	uS/cm	2746	uS/cm	7.249	gpm	8.51	gpm
09/25/2007	11:30:00 AM	2.8	SU	8.2	°C	1852	uS/cm	2727	uS/cm	5.871	gpm	6.06	gpm

Field Data:

EC - Electrical Conductivity

SpC - Specific Conductance

Units: SU - Standard Units; °C - degrees celsius; uS/cm - micro siemen per centimeter; gpm - gallons per minute

Lerr - Instrument reading when instument cannot compute SpC due to low water temperature

e - estimated

Q - Qualifiers:

U - Analyte not detected at the given Method Detection Limit (MDL)

J - Analyte detected between the MDL and the Practical Quantitation Limit

QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to the analyte concentration being greater than 4 times the spike concentration. The QC batch was accepted based on LCSD recoveries within the acceptance limits

QM-07 - The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery

QR-04 - Duplicate results are within one reporting limit and pass all necessary QC criteria

R-08 - The sample was diluted due to sample matrix resulting in elevated reporting limits

Table B-17: Channel Under-drain Laboratory and Field Results

CUD Dissolved Metals - mg/L																														
Sample ID	Date	Time	Al	Q	As	Q	Ca	Q	Cd	Q	Co	Q	Cr	Q	Cu	Q	Fe	Q	Mg	Q	Mn	Q	Ni	Q	Zn	Q	TDS	Q	Sulfate	Q
067LM055-CUD	10/24/2006	10:00:00 AM	50		0.61		330		0.00016	J	0.84		0.030		0.0011	J	420		85		20		1.8		0.42		3600		2500	
067LM075-CUD	11/29/2006	11:05:00 AM	45		0.36		350		0.00023	J	0.74		0.021		0.00054	J	430		84		30		1.6		0.29		3400		2600	
067LM085-CUD	12/19/2006	11:30:00 AM	39		0.43		330		0.000047	U	0.78		0.02		0.00017	U	390		80		20		1.9		0.37		3400		750	
067LM096-CUD	01/24/2007	11:25:00 AM	43		0.42		350		0.00012	J	0.91		0.022		0.00017	U	400		83		19		1.9		0.29		3400		2300	
067LM109-CUD	03/06/2007	1:00:00 PM	41		0.98		350		0.00023	U	1.6		0.04	J	0.00085	U	410		85		19		3.5		0.64		3200		2400	
067LM122	03/28/2007	1:25:00 PM	42.0		0.449		345		0.0083		0.719		0.026	QR-04	0.004	J	377		79		16.7		1.65		0.401		3200		2200	
067LM135	04/25/2007	11:00:00 AM	40.8		0.556		338		0.0115	J	0.786		0.031	QR-04	0.005	U	383	QM-4X	78		18.1	QM-4X	1.78		0.430		3100		2200	
067LM148	05/29/2007	1:45:00 PM	40.2		0.523		359		0.0139	J	0.784		0.027	QR-04	0.005	U	391	QM-4X	82		18.6	QM-4X	1.78		0.432		3200		2200	
078LM007	07/02/2007	9:25:00 AM	40.6	QM-4X	0.495		357		0.0110	J	0.796		0.028		0.005	U	392	QM-4X	82		18.4		1.79		0.420		3300		2300	
078LM017	07/23/2007	11:22:00 AM	40.2		0.480		367		0.0125	J, R-08	0.789		0.025	QR-04	0.005	U	404	QM-4X	85		19.0	QM-4X	1.82		0.435		3400		2400	
078LM018	07/23/2007	11:30:00 AM	39.8		0.469		359		0.0127	J, R-08	0.785		0.028	QR-04	0.005	R-08, U	403	QM-4X	83		19.0	QM-4X	1.81		0.431		3400		2480	
078LM030	08/29/2007	10:35:00 AM	38.8	QM-07	0.462		356		0.0121	J	0.784		0.028		0.005	R-08, U	413		80		19.1		1.80		0.399		3510		2550	
078LM047	09/25/2007	10:40:00 AM	35.9	QM-4X	0.390		341		0.0122	J	0.730		0.025		0.005	J	386	QM-4X	79		18.5		1.68		0.388		3080		2370	

CUD Total Metals - mg/L																									
Sample ID	Date	Time	Al	Q	As	Q	Ca	Q	Cd	Q	Co	Q	Cr	Q	Cu	Q	Fe	Q	Mg	Q	Mn	Q	Ni	Q	Zn	Q
067LM055-CUD	10/24/2006	10:00:00 AM	48		0.58		330		0.00019	J	0.84		0.030		0.0021	J	420		84		25		1.8		0.42	
067LM075-CUD	11/29/2006	11:05:00 AM	42		0.42		340		0.00025	J	0.77		0.023		0.0062	J	410		81		30		1.7		0.33	
067LM085-CUD	12/19/2006	11:30:00 AM	43		0.4		340		0.000047	U	0.94		0.021		0.0038	J	420		82		21		2.1		0.34	
067LM096-CUD	01/24/2007	11:25:00 AM	43		0.44		350		0.00012	J	0.94		0.023		0.00017	U	410		85		19		2		0.3	
067LM109-CUD	03/06/2007	1:00:00 PM	39		1		320		0.00023	U	1.8		0.043	J	0.0022	J	400		79		18		3.7		0.69	
067LM122	03/28/2007	1:25:00 PM	40.9		0.445		336		0.0095		0.725		0.027		0.012		376		77		17.0		1.64		0.408	
067LM135	04/25/2007	11:00:00 AM	38.9		0.529		326		0.0121	J	0.774		0.023	J	0.005	U	366	QM-4X	74		18.2	QM-4X	1.69		0.419	
067LM148	05/29/2007	1:45:00 PM	40.0		0.550		345		0.0128	J	0.822		0.022	J	0.005	U	394	QM-4X	79		19.7	QM-4X	1.79		0.439	
078LM007	07/02/2007	9:25:00 AM	40.1		0.530		365		0.0143	J	0.824		0.042	QR-04	0.005	U	388		82		19.0		1.73		0.425	
078LM017	07/23/2007	11:22:00 AM	41.1	QR-04	0.507	QR-04	361		0.0092	J, R-08	0.826		0.027		0.005	QR-04,R-08,U	423		80		20.3		1.87		0.447	
078LM018	07/23/2007	11:30:00 AM	41.8	QR-04	0.521	QR-04	368		0.0098	J, R-08	0.859		0.031		0.005	QR-04,R-08,U	437		82		21.0		1.96		0.462	
078LM030	08/29/2007	10:35:00 AM	38.9	QR-04	0.472		357		0.0109	J, R-08	0.798		0.050		0.005	R-08, U	409		81		19.8		1.83		0.415	
078LM047	09/25/2007	10:40:00 AM	37.1		0.420		387		0.0134	J,QR-04,R-08	0.794		0.025		0.005	R-08, U	415		86		20.2	QM-4X	1.75		0.415	

CUD Field and Flow Data										Daily Mean Flow		Monthly Mean Flow	
Date	Time	pH		Temp		EC		SpC					
10/24/2006	10:00:00 AM	4.5	SU	8.9	°C	2112	uS/cm	3058	uS/cm	24.41	gpm	27.7	gpm
11/29/2006	11:05:00 AM	4.7	SU	8.7	°C	988	uS/cm	1438	uS/cm	27.669	gpm	36.5	gpm
12/19/2006	11:30:00 AM	4.7	SU	8.7	°C	2107	uS/cm	3059	uS/cm	27.359	gpm	26.1	gpm
1/24/2007	11:25:00 AM	4.7	SU	8.7	°C	2100	uS/cm	3000	uS/cm	26.47	gpm	26.3	gpm
3/6/2007	1:00:00 PM	4.6	SU	9.0	°C	2052	uS/cm	2944	uS/cm	19.605	gpm	23.3	gpm
3/28/2007	1:25:00 PM	4.6	SU	8.5	°C	1930	uS/cm	2817	uS/cm	28.379	gpm	23.3	gpm
4/25/2007	11:00:00 AM	4.3	SU	8.5	°C	1894	uS/cm	2765	uS/cm	26.047	gpm	26	gpm
5/29/2007	1:45:00 PM	4.5	SU	8.7	°C	1937	uS/cm	2814	uS/cm	26.122	gpm	26.2	gpm
07/02/2007	9:25:00 AM	4.7	SU	8.6	°C	1989	uS/cm	2897	uS/cm	16.647	gpm	15.2	gpm
07/23/2007	11:22:00 AM	4.6	SU	8.8	°C	1211	uS/cm	1757	uS/cm	14.479	gpm	15.2	gpm
07/23/2007	11:30:00 AM	4.6	SU	8.8	°C	1211	uS/cm	1757	uS/cm	14.479	gpm	15.2	gpm
08/29/2007	10:35:00 AM	4.6	SU	8.7	°C	2004	uS/cm	2912	uS/cm	14.067	gpm	14.4	gpm
09/25/2007	10:40:00 AM	4.5	SU	8.9	°C	2006	uS/cm	2897	uS/cm	10.929	gpm	11.6	gpm

Field Data:

EC - Electrical Conductivity

SpC - Specific Conductance

Units: SU - Standard Units; °C - degrees celsius; uS/cm - micro siemen per centimeter; gpm - gallons per minute

Lerr - Instrument reading when instument cannot compute SpC due to low water temperature

e - estimated

Q - Qualifiers:

U - Analyte not detected at the given Method Detection Limit (MDL)

J - Analyte detected between the MDL and the Practical Quantitation Limit

QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to the analyte concentration being greater than 4 times the spike concentration. The QC batch was accepted based on LCSD recoveries within the acceptance limits

QM-07 - The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery

QR-04 - Duplicate results are within one reporting limit and pass all necessary QC criteria

R-08 - The sample was diluted due to sample matrix resulting in elevated reporting limits

Table B-18: Station 1 Laboratory and Field Results

Sta 1 Dissolved Metals - mg/L																														
Sample ID	**Date**	**Time**	**Al**	**Q**	**As**	**Q**	**Ca**	**Q**	**Cd**	**Q**	**Co**	**Q**	**Cr**	**Q**	**Cu**	**Q**	**Fe**	**Q**	**Mg**	**Q**	**Mn**	**Q**	**Ni**	**Q**	**Zn**	**Q**	**TDS**	**Q**	**Sulfate**	**Q**
067LM052-Sta 1	10/24/2006	9:15:00 AM	0.022		0.0026	J	13		0.000050	J	0.0050		0.00030	J	0.00042	J	0.11		5.0		0.012		0.00092	J	0.0068	J	130		7.1	J
067LM069-Sta 1	11/29/2006	10:10:00 AM	0.048		0.0022	J	15		0.000023	U	0.00026	J	0.00028	J	0.00028	J	0.085	*	5.6		0.0054		0.00048	J	0.003	J	130		9.4	J
067LM072-Sta1 Dup	11/29/2006	10:15:00 AM	0.044		0.002	J	15		0.000023	U	0.00022	J	0.00027	J	0.00024	J	0.12	*	5.6		0.0054		0.00032	J	0.003	J	120		11	
067LM084-STA1	12/19/2006	10:45:00 AM	0.12		0.0008	J	13		0.000047	U	0.000027	U	0.00042	J	0.00017	U	0.16		4.6		0.005	J	0.0016	J	0.0044	J	130		9.3	M, J
067LM093-STA 1	01/24/2007	10:20:00 AM	0.091		0.0019	J	13		0.000023	U	0.00009	J	0.00028	J	0.000085	U	0.12		4.5		0.0044	J	0.00026	J	0.0018	J	140		9	J
067LM106-Sta 1	03/06/2007	11:40:00 AM	0.12		0.0018	J	12		0.00012	U	0.000068	U	0.00025	J	0.00042	U	0.17		4.2		0.0051	J	0.0007	U	0.0048	J	110		9.9	
067LM132	04/25/2007	8:45:00 AM	0.0947	QR-04	0.0044		15		0.00025	U	0.0009	J,QM-07	0.0005	QR-04,U	0.0007	J,QM-07	0.098	QM-07	5		0.0059		0.0010	QM-07,U	0.0028	J, QR-04	120		11	
067LM145	05/29/2007	12:25:00 PM	0.0376		0.0030		17		0.00005	U	0.0002	J	0.0003	J	0.0004	J	0.146		5		0.0057	QM-4X	0.0004	J	0.0012	J	140		9.1	
067LM154	05/29/2007	12:30:00 PM	0.0336		0.0027		16		0.00005	U	0.0002	J	0.0004	J	0.0005		0.123		5		0.0056		0.0005	J	0.0014	J	130		9.1	
078LM004	07/02/2007	9:10:00 AM	0.0505	QM-4X,QR-04	0.0039	J	16		0.00025	U	0.0006	J	0.0008	J	0.0008	J	0.145		5		0.0102	QM-4X	0.0010	U	0.0020	U	130		9.0	
078LM014	07/23/2007	10:50:00 AM	0.0379	QR-04	0.0044		18		0.00005	U	0.0033		0.0005		0.0006	QR-04	0.180	QR-04	6		0.0152	QR-04	0.0011		0.0027		155		9.69	
078LM027	08/29/2007	9:45:00 AM	0.0705		0.0037	J	16		0.00025	U	0.0005	U	0.0005	J, Z-01	0.0007	J	0.159		5		0.0100		0.0010	U	0.0020	U	137		8.03	
078LM043	09/25/2007	9:40:00 AM	0.0316	QR-04	0.0027	J	13		0.00025	U	0.0005	U	0.0007	J	0.0005	J	0.036	J	5		0.0057		0.0010	U	0.0020	U	134		7.62	

Sta 1 Total Metals - mg/L																										
Sample ID	**Date**	**Time**	**Al**	**Q**	**As**	**Q**	**Ca**	**Q**	**Cd**	**Q**	**Co**	**Q**	**Cr**	**Q**	**Cu**	**Q**	**Fe**	**Q**	**Mg**	**Q**	**Mn**	**Q**	**Ni**	**Q**	**Zn**	**Q**
067LM052-Sta 1	10/24/2006	9:15:00 AM	0.058		0.0028	J	13		0.000053	J	0.00013	J	0.00041	J	0.00051	J	0.19		4.7		0.0067		0.00041	J	0.0032	J
067LM069-Sta 1	11/29/2006	10:10:00 AM	0.093		0.0023	J	15		0.000023	U	0.000077	J	0.00041	J	0.00033	J	0.16		5.5		0.0065		0.00039	J	0.0028	J
067LM072-Sta1 Dup	11/29/2006	10:15:00 AM	0.088		0.0023	J	15		0.000023	U	0.000082	J	0.00035	J	0.00034	J	0.19		5.6		0.0064		0.0005	J	0.0028	J
067LM084-STA1	12/19/2006	10:45:00 AM	0.19		0.0001	U	13		0.000047	U	0.000027	U	0.00069	J	0.00017	U	0.27		4.7		0.0026	J	0.00097	J	0.0045	J
067LM093-STA 1	01/24/2007	10:20:00 AM	0.16		0.0019	J	13		0.000023	U	0.00006	J	0.0004	J	0.000085	U	0.22		4.6		0.0078		0.00032	J	0.0024	J
067LM106-Sta 1	03/06/2007	11:40:00 AM	0.33		0.002	J	12		0.00012	U	0.000068	U	0.0004	J	0.0008	J	0.42		4.1		0.0083	J	0.0007	U	0.0058	J
067LM119	03/28/2007	12:50:00 PM	0.536	QM-4X	0.0026		12		0.00025	U	0.0005	U	0.0005	U	0.0011	J	0.402		4		0.0101		0.0010	QR-04,U	0.0023	J, QR-04
067LM132	04/25/2007	8:45:00 AM	0.169		0.0012	J	16		0.00025	U	0.0005	U	0.0005	U	0.0007	J	0.140		5		0.0099		0.0010	U	0.0020	QR-04, U
067LM145	05/29/2007	12:25:00 PM	0.0918	QM-4X	0.0029		17		0.00025	U	0.0005	U	0.0005	U	0.0007	J	0.180		5		0.0127	QM-4X	0.0010	U	0.0020	U
067LM154	05/29/2007	12:30:00 PM	0.0912		0.0017	J	16		0.00025	U	0.0005	U	0.0005	U	0.0010	J	0.180		5		0.0130		0.0010	U	0.0033	J
078LM004	07/02/2007	9:10:00 AM	0.0541	QM-4X	0.0039	QR-04	17		0.00025	U	0.0005	U	0.0005	U	0.0007	J	0.222		6		0.0133		0.0010	U	0.0021	J
078LM014	07/23/2007	10:50:00 AM	0.0800		0.0048		17		0.00025	U	0.0005	U	0.0005	U	0.0008	J	0.234		6		0.0175		0.0010	U	0.0020	QR-04, U
078LM027	08/29/2007	9:45:00 AM	0.0967	QM-07	0.0035		16		0.00025	U	0.0005	U	0.0006	J	0.0009	J	0.252		5		0.0159		0.0010	U	0.0020	U
078LM043	09/25/2007	9:40:00 AM	0.0611		0.0027	QR-04	15		0.00025	U	0.0005	U	0.0005	U	0.0006	J	0.086		5		0.0074		0.0010	U	0.0020	U

Sta 1 Field and Flow Data										Daily Mean Flow		Monthly Mean Flow	
Date	**Time**	**pH**		**Temp**		**EC**		**SpC**					
10/24/2006	9:15:00 AM	7.2	SU	1.7	°C	82	uS/cm	Lerr	uS/cm	0.09	cfs	0.09	cfs
11/29/2006	10:10:00 AM	7.4	SU	0.0	°C	88	uS/cm	Lerr	uS/cm	e0.10	cfs	0.13	cfs
12/19/2006	10:45:00 AM	7.0	SU	0.0	°C	79	uS/cm	Lerr	uS/cm	e0.10	cfs	0.1	cfs
1/24/2007	10:20:00 AM	6.9	SU	0.2	°C	76	uS/cm	Lerr	uS/cm	e0.10	cfs	0.11	cfs
3/6/2007	11:40:00 AM	7.1	SU	0.8	°C	70	uS/cm	Lerr	uS/cm	e0.15	cfs	e0.15	cfs
3/28/2007	12:50:00 PM	7.1	SU	0.7	°C	73	uS/cm	Lerr	uS/cm	0.3	cfs	e0.15	cfs
4/25/2007	8:45:00 AM	7.2	SU	1.7	°C	82	uS/cm	Lerr	uS/cm	0.21	cfs	0.26	cfs
5/29/2007	12:25:00 PM	7.8	SU	10.0	°C	115	uS/cm	161	uS/cm	0.07	cfs	0.1	cfs
5/29/2007	12:30:00 PM	7.8	SU	10.0	°C	115	uS/cm	161	uS/cm	0.07	cfs	0.1	cfs
07/02/2007	9:10:00 AM	7.1	SU	8.2	°C	115	uS/cm	170	uS/cm	0.04	cfs	0.03	cfs
07/23/2007	10:50:00 AM	7.3	SU	12.1	°C	116	uS/cm	154	uS/cm	0.02	cfs	0.03	cfs
08/29/2007	9:45:00 AM	7.2	SU	11.0	°C	121	uS/cm	166	uS/cm	0.03	cfs	0.02	cfs
09/25/2007	9:40:00 AM	6.8	SU	3.3	°C	89	uS/cm	152	uS/cm	0.04	cfs	0.03	cfs

Field Data:

EC - Electrical Conductivity

SpC - Specific Conductance

Units: SU - Standard Units; °C - degrees celsius; uS/cm - micro siemen per centimeter; cfs - cubic feet per second

Lerr - Instrument reading when instument cannot compute SpC due to low water temperature

e - estimated

Q - Qualifiers:

U - Analyte not detected at the given Method Detection Limit (MDL)

J - Analyte detected between the MDL and the Practical Quantitation Limit

* - Relative Percent Difference between sample and field duplicate exceeds 25%

QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to the analyte concentration being greater than 4 times the spike concentration. The QC batch was accepted based on LCSD recoveries within the acceptance limits

QM-07 - The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery

QR-04 - Duplicate results are within one reporting limit and pass all necessary QC criteria

Z-01 - The duplicate result was below the RL resulting in a LIMS calculation error. The actual RPD for chromium is 8.8%

Table B-19: Station 15 Laboratory and Field Results

Sta 15 Dissolved Metals - mg/L																													
Sample ID	**Date**	**Time**	**Al**	**Q**	**As**	**Q**	**Ca**	**Q**	**Cd**	**Q**	**Co**	**Q**	**Cr**	**Q**	**Cu**	**Q**	**Fe**	**Q**	**Mg**	**Q**	**Mn**	**Q**	**Ni**	**Q**	**Zn**	**Q**	**TDS**	**Q**	**Sulfate**	**Q**
067LM059-Sta 15	10/24/2006	11:15:00 AM	0.64		0.042		160		0.00033	J	0.21		0.00048	J	0.0044	J	64		42		6.0		0.44		0.11		1300		780	
067LM067-Sta 15	11/29/2006	11:40:00 AM	14		0.026		180		0.00027	J	0.21		0.00092	J	0.0083		46		44		10		0.44		0.091		1200		800	
067LM086-STA15	12/19/2006	12:10:00 PM	10		0.013		170		0.0003	J	0.17		0.00066	J	0.01		24		41		5.8		0.4		0.078		1100		300	
067LM098-STA 15	01/24/2007	12:00:00 PM	2.9		0.018		130		0.00018	J	0.17		0.00065	J	0.0066		28		33		4.8		0.35		0.062		830		560	
067LM099-STA 15 D	01/24/2007	12:05:00 PM	3.3		0.018		130		0.00017	J	0.17		0.00065	J	0.0066		28		33		4.9		0.35		0.06		890		570	
067LM110-Sta 15	03/06/2007	2:00:00 PM	0.58		0.017	J	100		0.0002	J	0.12		0.00035	J	0.021	J	22		26		3.6		0.25		0.068		680		490	
067LM124	03/28/2007	1:55:00 PM	0.0479		0.0145		81		0.00125	U	0.0745		0.0005	U	0.0010	J	16.3		20		2.47		0.153		0.0386		520		330	
067LM136	04/25/2007	11:30:00 AM	0.103		0.0263		99		0.00018	J	0.0988		0.0001	U	0.0006		26.2		25		3.25	QM-4X	0.213		0.0464		630		410	
067LM149	05/29/2007	11:20:00 AM	4.83	QR-04	0.0337		160		0.00028		0.171		0.0009		0.0067		45.2	QM-07	40		5.85		0.358		0.0855		1000		710	
078LM020	07/23/2007	12:10:00 PM	1.51	QR-04	0.0029		581		0.00040		0.0353		0.0005		0.0050	QR-04	1.18	QR-04	62		1.84	QR-04	0.0841		0.0243		2500		1740	
078LM050	09/25/2007	1:30:00 PM	3.90	QM-4X,QR-04	0.0005	U	406		0.00107	J	0.109		0.0005	U	0.0180		0.023	J	52		4.20	QM-4X	0.233		0.0508		1770		1190	

Sta 15 Total Metals - mg/L																										
Sample ID	**Date**	**Time**	**Al**	**Q**	**As**	**Q**	**Ca**	**Q**	**Cd**	**Q**	**Co**	**Q**	**Cr**	**Q**	**Cu**	**Q**	**Fe**	**Q**	**Mg**	**Q**	**Mn**	**Q**	**Ni**	**Q**	**Zn**	**Q**
067LM059-Sta 15	10/24/2006	11:15:00 AM	8.7		0.059		160		0.00034	J	0.22		0.0048	J	0.014		66		40		6.2		0.45		0.12	
067LM067-Sta 15	11/29/2006	11:40:00 AM	16		0.034		190		0.00028	J	0.21		0.0031	J	0.0095		50		46		10		0.45		0.095	
067LM086-STA15	12/19/2006	12:10:00 PM	11		0.021		180		0.00038	J	0.18		0.0021	J	0.013		27		43		6		0.42		0.082	
067LM098-STA 15	01/24/2007	12:00:00 PM	6.7		0.026		130		0.00018	J	0.17		0.0024	J	0.0078		30		33		4.9		0.35		0.061	
067LM099-STA 15 D	01/24/2007	12:05:00 PM	6.7		0.025		130		0.00018	J	0.16		0.0023	J	0.0074		29		32		4.7		0.34		0.06	
067LM110-Sta 15	03/06/2007	2:00:00 PM	5.9		0.028		100		0.0002	J	0.11		0.0029	J	0.036		23		25		3.6		0.25		0.061	
067LM136	04/25/2007	11:30:00 AM	4.92	QM-4X	0.0342		98		0.00025	U	0.101		0.0010	J	0.0069		27.2		24		3.12	QM-4X	0.214		0.0524	
067LM149	05/29/2007	11:20:00 AM	9.10	QM-4X	0.0414		156		0.00025	U	0.178		0.0019	J	0.0081		44.1		39		5.61	QM-4X	0.372		0.0852	
078LM020	07/23/2007	12:10:00 PM	2.72		0.0027		551		0.00031	J	0.0369		0.0006	J	0.0066		1.44		59		1.89		0.107		0.0214	QR-04
078LM050	09/25/2007	1:30:00 PM	3.87	QM-4X	0.0005	QR-04, U	443		0.00118	J	0.105		0.0005	U	0.0175		0.034	J	55		4.00		0.219		0.0552	

Sta 15 Field and Flow Data										Daily Mean Flow		Monthly Mean Flow	
Date	**Time**	**pH**		**Temp**		**EC**		**SpC**					
10/24/2006	11:15:00 AM	5.6	SU	4.8	°C	812	uS/cm	1323	uS/cm	0.3	cfs	0.26	cfs
11/29/2006	11:40:00 AM	4.6	SU	0.0	°C	736	uS/cm	Lerr	uS/cm	e0.38	cfs	0.43	cfs
12/19/2006	12:10:00 PM	4.9	SU	0.0	°C	693	uS/cm	Lerr	uS/cm	e0.32	cfs	0.33	cfs
1/24/2007	12:00:00 PM	4.8	SU	0.4	°C	571	uS/cm	Lerr	uS/cm	e0.18	cfs	0.21	cfs
1/24/2007	12:05:00 PM	4.8	SU	0.4	°C	571	uS/cm	Lerr	uS/cm	e0.18	cfs	0.21	cfs
3/6/2007	2:00:00 PM	5.7	SU	5.8	°C	539	uS/cm	855	uS/cm	0.46	cfs	0.6	cfs
3/28/2007	1:55:00 PM	6.9	SU	7.4	°C	438	uS/cm	660	uS/cm	0.58	cfs	0.6	cfs
4/25/2007	11:30:00 AM	6.1	SU	8.8	°C	561	uS/cm	812	uS/cm	e0.25	cfs	0.35	cfs
5/29/2007	11:20:00 AM	4.3	SU	11.9	°C	900	uS/cm	1200	uS/cm	0.21	cfs	0.29	cfs
07/23/2007	12:10:00 PM	4.7	SU	19.2	°C	2153	uS/cm	2426	uS/cm	0	cfs	0.15	cfs
09/25/2007	1:30:00 PM	4.2	SU	14.7	°C	1628	uS/cm	2026	uS/cm	0.03	cfs	0.46	cfs

Field Data:

EC - Electrical Conductivity

SpC - Specific Conductance

Units: SU - Standard Units; °C - degrees celsius; uS/cm - micro siemen per centimeter; cfs - cubic feet per second

Lerr - Instrument reading when instument cannot compute SpC due to low water temperature

e - estimated

Q - Qualifiers:

U - Analyte not detected at the given Method Detection Limit (MDL)

J - Analyte detected between the MDL and the Practical Quantitation Limit

QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to the analyte concentration being greater than 4 times the spike concentration. The QC batch was accepted based on LCSD recoveries within the acceptance limits

QM-07 - The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery

QR-04 - Duplicate results are within one reporting limit and pass all necessary QC criteria

Table B-20: Station 16 Laboratory and Field Results

Sta 16 Dissolved Metals - mg/L																														
Sample ID	**Date**	**Time**	**Al**	**Q**	**As**	**Q**	**Ca**	**Q**	**Cd**	**Q**	**Co**	**Q**	**Cr**	**Q**	**Cu**	**Q**	**Fe**	**Q**	**Mg**	**Q**	**Mn**	**Q**	**Ni**	**Q**	**Zn**	**Q**	**TDS**	**Q**	**Sulfate**	**Q**
067LM060-Sta 16	10/24/2006	11:05:00 AM	0.097		0.0073		73		0.000023	U	0.0050		0.00030	J	0.0012	J	0.051		19		0.63		0.0098		0.0049	J	490		240	
067LM066-Sta 16	11/29/2006	11:30:00 AM	0.021		0.0047	J	73		0.000023	U	0.0085		0.00022	J	0.00083	J	0.24		18		2.2		0.019		0.0048	J	430		240	
067LM081-STA16	12/19/2006	11:50:00 AM	0.026		0.0054		79		0.000023	U	0.0092		0.0007	J	0.00088	J	0.18		20		1		0.022		0.005	J	490		320	
067LM087-STA 16 DUP	12/19/2006	12:00:00 PM	0.028		0.004	J	80		0.000047	U	0.009	J	0.0005	J	0.00069	J	0.19		20		0.98		0.024		0.0052	J	490		320	
067LM097-STA 16	01/24/2007	11:50:00 AM	0.015		0.0049	J	69		0.000023	U	0.0092		0.00018	J	0.00032	J	0.15		18		1.1		0.019		0.0038	J	430		220	
067LM111-Sta 16	03/06/2007	1:50:00 PM	0.061		0.0074	J	67		0.00012	U	0.0088	J	0.00015	J	0.0015	J	0.089		17		0.73		0.018	J	0.0082	J	400		240	
067LM123	03/28/2007	1:45:00 PM	0.0227		0.0089		80		0.00125	U	0.0039		0.0005	U	0.0018	J	0.018	QR-04	19		0.445		0.0086		0.0020	U	340		180	
067LM137	04/25/2007	11:20:00 AM	0.0159		0.0127		64		0.00005	U	0.0053		0.0002	J	0.0017		0.048		16		0.546	QM-4X	0.0121		0.0020		350		180	
067LM150	05/29/2007	11:10:00 AM	0.0121		0.0159		60		0.00005	U	0.0044		0.0004	J	0.0014		0.034		15		0.572		0.0095		0.0014	J	320		160	
078LM009	07/02/2007	10:30:00 AM	0.0111	QM-4X,QR-04	0.0142		50		0.00025	U	0.0044		0.0005	J	0.0020	J	0.020		12		0.467	QM-4X	0.0069		0.0020	U	270		24	
078LM019	07/23/2007	11:55:00 AM	0.0757	QR-04	0.0180		53		0.00005	U	0.0041		0.0008		0.0021	QR-04	0.054	QR-04	12		0.467	QR-04	0.0094		0.0017	J	277		119	
078LM034	08/29/2007	11:05:00 AM	0.0073	J	0.0146		48		0.00025	U	0.0030		0.0005	J, Z-01	0.0028		0.016		11		0.443		0.0058		0.0025	J	259		119	
078LM051	09/25/2007	1:40:00 PM	0.0064	J,QM-4X,QR-04	0.0142		45		0.00025	U	0.0010	J	0.0012	J	0.0025		0.003	J	11		0.127	QM-4X	0.0024	J	0.0020	U	269		115	

Sta 16 Total Metals - mg/L																										
Sample ID	**Date**	**Time**	**Al**	**Q**	**As**	**Q**	**Ca**	**Q**	**Cd**	**Q**	**Co**	**Q**	**Cr**	**Q**	**Cu**	**Q**	**Fe**	**Q**	**Mg**	**Q**	**Mn**	**Q**	**Ni**	**Q**	**Zn**	**Q**
067LM060-Sta 16	10/24/2006	11:05:00 AM	0.10		0.0096		69		0.000025	J	0.0049	J	0.00036	J	0.0038	J	0.26		18		0.71		0.011		0.0056	J
067LM066-Sta 16	11/29/2006	11:30:00 AM	0.19		0.0085		72		0.000029	J	0.0088		0.0004	J	0.0033	J	0.95		18		2.2		0.018		0.0066	J
067LM081-STA16	12/19/2006	11:50:00 AM	0.16	*	0.008	*	82		0.000023	U	0.01	*	0.00028	J	0.0034	J	0.68		21		1.1	*	0.025	*	0.0073	J
067LM087-STA 16 DUP	12/19/2006	12:00:00 PM	0.27	*	0.016	*	82		0.000047	U	0.019	*	0.00078	J	0.0063	J	0.61		21		1.9	*	0.045	*	0.013	J
067LM097-STA 16	01/24/2007	11:50:00 AM	0.17		0.0086		68		0.000023	U	0.0099		0.00033	J	0.003	J	0.73		18		1.1		0.02		0.0053	J
067LM111-Sta 16	03/06/2007	1:50:00 PM	1.2		0.019	J	65		0.00012	U	0.01	J	0.001	J	0.0086	J	1.7		16		0.95		0.021	J	0.011	J
067LM123	03/28/2007	1:45:00 PM	4.29	QM-4X	0.0375		63		0.00025	U	0.0091		0.0020	J	0.0236		4.16		16		1.21		0.0168	QR-04	0.0204	QR-04
067LM137	04/25/2007	11:20:00 AM	0.226	QM-4X	0.0183		63		0.00025	U	0.0060		0.0005	U	0.0067		0.386		15		0.678	QM-4X	0.0134		0.0053	J
067LM150	05/29/2007	11:10:00 AM	0.158		0.0204		58		0.00025	U	0.0049		0.0005	U	0.0047		0.272		14		0.631		0.0102		0.0034	J
078LM009	07/02/2007	10:30:00 AM	0.115	QM-4X	0.0180	QR-04	53		0.00025	U	0.0049		0.0005	U	0.0041		0.274		12		0.631		0.0091		0.0038	J
078LM019	07/23/2007	11:55:00 AM	0.213		0.0218		50		0.00025	U	0.0043		0.0005	U	0.0043		0.276		11		0.598		0.0119		0.0020	QR-04,U
078LM034	08/29/2007	11:05:00 AM	0.164	QM-07	0.0202		47		0.00025	U	0.0040		0.0007	J	0.0076		0.449		11		0.655		0.0075		0.0044	J
078LM051	09/25/2007	1:40:00 PM	0.135	QM-4X	0.0179	QR-04	50		0.00025	U	0.0018	J	0.0005	U	0.0063		0.295		12		0.278		0.0043	J	0.0040	J

Sta 16 Field and Flow Data								
Date	**Time**	**pH**		**Temp**		**EC**		**SpC**	
10/24/2006	11:05:00 AM	7.3	SU	6.1	°C	397	uS/cm	621	uS/cm
11/29/2006	11:30:00 AM	6.8	SU	0.0	°C	336	uS/cm	Lerr	uS/cm
12/19/2006	11:50:00 AM	7.0	SU	0.0	°C	381	uS/cm	Lerr	uS/cm
12/19/2006	12:00:00 PM	7.0	SU	0.0	°C	381	uS/cm	Lerr	uS/cm
1/24/2007	11:50:00 AM	6.7	SU	0.0	°C	318	uS/cm	Lerr	uS/cm
3/6/2007	1:50:00 PM	7.3	SU	4.2	°C	357	uS/cm	592	uS/cm
3/28/2007	1:45:00 PM	7.7	SU	6.4	°C	329	uS/cm	508	uS/cm
4/25/2007	11:20:00 AM	7.1	SU	10.2	°C	370	uS/cm	515	uS/cm
5/29/2007	11:10:00 AM	7.9	SU	13.1	°C	357	uS/cm	462	uS/cm
07/02/2007	10:30:00 AM	7.8	SU	12.1	°C	309	uS/cm	411	uS/cm
07/23/2007	11:55:00 AM	7.6	SU	20.4	°C	332	uS/cm	364	uS/cm
08/29/2007	11:05:00 AM	7.8	SU	16.0	°C	320	uS/cm	387	uS/cm
09/25/2007	1:40:00 PM	7.8	SU	11.1	°C	325	uS/cm	443	uS/cm

Field Data:

EC - Electrical Conductivity

SpC - Specific Conductance

Units: SU - Standard Units; °C - degrees celsius; uS/cm - micro siemen per centimeter; cfs - cubic feet per second

Lerr - Instrument reading when instument cannot compute SpC due to low water temperature

Q - Qualifiers:

U - Analyte not detected at the given Method Detection Limit (MDL)

J - Analyte detected between the MDL and the Practical Quantitation Limit

* - Relative Percent Difference between sample and field duplicate exceeds 25%

QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to the analyte concentration being greater than 4 times the spike concentration. The QC batch was accepted based on LCSD recoveries within the acceptance limits

QM-07 - The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery

QR-04 - Duplicate results are within one reporting limit and pass all necessary QC criteria

Z-01 - The duplicate result was below the RL resulting in a LIMS calculation error. The actual RPD for chromium is 8.8%

Table B-21: Station 22 Laboratory and Field Results

Sta 22 Dissolved Metals - mg/L																														
Sample ID	**Date**	**Time**	**Al**	**Q**	**As**	**Q**	**Ca**	**Q**	**Cd**	**Q**	**Co**	**Q**	**Cr**	**Q**	**Cu**	**Q**	**Fe**	**Q**	**Mg**	**Q**	**Mn**	**Q**	**Ni**	**Q**	**Zn**	**Q**	**TDS**	**Q**	**Sulfate**	**Q**
067LM056-Sta 22	10/24/2006	10:25:00 AM	0.0028	J	0.00036	J	23		0.000023	U	0.0012	J	0.00031	J	0.00013	J	0.016		5.3		0.0024	J	0.00040	J	0.0022	J	150		1.4	J
067LM065-Sta 22	11/29/2006	9:25:00 AM	0.0047	J	0.00049	J	24		0.000023	U	0.000058	J	0.00028	J	0.000089	J	0.0074	J	5.4		0.00067	J	0.00027	J	0.0016	J	230		0.14	U
067LM088-STA 22	12/19/2006	10:00:00 AM	0.013	J	0.00013	U	23		0.000047	U	0.000027	U	0.00094	J	0.00017	U	0.017	J	5.2		0.00088	J	0.001	J	0.002	J	130		1.8	J
067LM091-STA 22	01/24/2007	09:35:00 AM	0.0073	J	0.00052	J	24		0.000023	U	0.00002	J	0.00023	J	0.000085	U	0.011		5.3		0.00068	J	0.00014	U	0.00089	J	120		1.6	J
067LM104-Sta 22	03/06/2007	10:15:00 AM	0.017	J	0.00055	J	23		0.00012	U	0.000068	U	0.0002	J	0.00042	U	0.044		5.3		0.0047	J	0.0007	U	0.0042	J	120		2	
067LM117	03/28/2007	12:00:00 PM	0.0082	J	0.0010	J	26		0.00125	U	0.0005	U	0.0005	U	0.0005	U	0.007	J,QR-04	6		0.0036		0.0010	U	0.0020	U	130		1.9	J
067LM130	04/25/2007	1:10:00 PM	0.0061	J	0.0005		27		0.00005	U	0.0001	U	0.0003	J	0.0001	J	0.005	J	6		0.0008	QM-4X	0.0002	J	0.0006	J	100		1.3	J
067LM143	05/29/2007	12:05:00 PM	0.0021	J	0.0006		26		0.00005	U	0.0002	J	0.0005		0.0001	U	0.003	U	5		0.0008	QM-4X	0.0002	U	0.0004	J	130		1.1	
078LM001	07/02/2007	11:15:00 AM	0.0011	J, QR-04	0.0005	J	24		0.00005	U	0.0001	U	0.0007		0.0001	J	0.011		5		0.0006		0.0002	U	0.0004	U	110		1.1	
078LM003	07/02/2007	11:25:00 AM	0.0033	QR-04	0.0005	J	25		0.00005	U	0.0003	J	0.0006		0.0002	J	0.013		5		0.0008		0.0002	U	0.0004	U	110		1.2	
078LM025	07/23/2007	2:15:00 PM	0.0020	QR-04, J	0.0007		26		0.00005	U	0.0004	J	0.0010		0.0002	J,QR-04	0.004	J,QR-04	6		0.0018	QR-04	0.0003	J	0.0005	J	123		1.08	
078LM031	08/29/2007	12:45:00 PM	0.0044		0.0004	J	25		0.00005	U	0.0002	J	0.0009	Z-01	0.0008		0.025		5		0.0016		0.0003	J	0.0004	U	132		1.12	
078LM048	09/25/2007	12:00:00 PM	0.0016	J, QR-04	0.0005	J	23		0.00005	U	0.0001	U	0.0012		0.0001	J	0.005	J	5		0.0004	J	0.0002	U	0.0004	U	146		3.52	

Sta 22 Total Metals - mg/L																										
Sample ID	**Date**	**Time**	**Al**	**Q**	**As**	**Q**	**Ca**	**Q**	**Cd**	**Q**	**Co**	**Q**	**Cr**	**Q**	**Cu**	**Q**	**Fe**	**Q**	**Mg**	**Q**	**Mn**	**Q**	**Ni**	**Q**	**Zn**	**Q**
067LM056-Sta 22	10/24/2006	10:25:00 AM	0.11		0.00041	J	23		0.000023	U	0.00013	J	0.00047	J	0.00026	J	0.15		5.3		0.0044	J	0.00027	J	0.0027	J
067LM065-Sta 22	11/29/2006	9:25:00 AM	0.045		0.00041	J	24		0.000023	U	0.000058	J	0.00037	J	0.00011	J	0.054		5.4		0.0096		0.00021	J	0.0016	J
067LM088-STA 22	12/19/2006	10:00:00 AM	0.21		0.00013	J	24		0.000047	U	0.000027	U	0.0011	J	0.00029	J	0.1		5.7		0.0019	J	0.00068	J	0.0042	J
067LM091-STA 22	01/24/2007	09:35:00 AM	0.14		0.00059	J	24		0.000023	U	0.00004	J	0.00033	J	0.000085	U	0.13		5.5		0.0034	J	0.00014	U	0.0012	J
067LM104-Sta 22	03/06/2007	10:15:00 AM	0.18		0.00075	J	24		0.00012	U	0.000068	U	0.0004	J	0.00042	U	0.19		5.6		0.0069	J	0.0007	U	0.005	J
067LM117	03/28/2007	12:00:00 PM	0.160	QM-4X	0.0011	J	25		0.00025	U	0.0005	U	0.0005	U	0.0005	J	0.066		6		0.0078		0.0010	QR-04,U	0.0031	J,QR-04
067LM130	04/25/2007	1:10:00 PM	0.108		0.0005	U	26		0.00025	U	0.0005	U	0.0005	U	0.0005	U	0.128		5		0.0092		0.0010	U	0.0020	QR-04,U
067LM143	05/29/2007	12:05:00 PM	0.103	QM-4X	0.0005	U	25		0.00025	U	0.0005	U	0.0005	U	0.0005	J	0.088		5		0.0071	QM-4X	0.0010	U	0.0089	J
078LM001	07/02/2007	11:15:00 AM	0.0396		0.0005	QR-04	26		0.00005	U	0.0001	U	0.0008		0.0002	J	0.070		5		0.0034		0.0002	J	0.0005	J
078LM003	07/02/2007	11:25:00 AM	0.0389		0.0006	QR-04	26		0.00005	U	0.0001	U	0.0007		0.0002	J	0.069		5		0.0032		0.0002	J	0.0006	J
078LM025	07/23/2007	2:15:00 PM	0.0597		0.0005	U	25		0.00025	U	0.0005	U	0.0005	U	0.0005	U	0.003	U	5		0.0055		0.0010	U	0.0022	J,QR-04
078LM031	08/29/2007	12:45:00 PM	0.0470	QM-07	0.0005		25		0.00005	U	0.0001	U	0.0008		0.0002	J	0.081		5		0.0043		0.0003	J	0.0004	U
078LM048	09/25/2007	12:00:00 PM	0.0256		0.0005	QR-04	26		0.00005	U	0.0001	U	0.0011		0.0002	J	0.054		5		0.0028		0.0002	J	0.0004	U

Sta 22 Field and Flow Data										Daily Mean Flow		Monthly Mean Flow	
Date	**Time**	**pH**		**Temp**		**EC**		**SpC**					
10/24/2006	10:25:00 AM	7.8	SU	7.3	°C	123	uS/cm	185	uS/cm	0.11	cfs	0.13	cfs
11/29/2006	9:25:00 AM	7.8	SU	0.0	°C	102	uS/cm	Lerr	uS/cm	e0.09	cfs	0.14	cfs
12/19/2006	10:00:00 AM	7.4	SU	0.0	°C	106	uS/cm	Lerr	uS/cm	e0.14	cfs	0.14	cfs
1/24/2007	9:35:00 AM	7.7	SU	1.8	°C	112	uS/cm	Lerr	uS/cm	0.13	cfs	0.14	cfs
3/6/2007	10:15:00 AM	7.6	SU	6.9	°C	103	uS/cm	159	uS/cm	e0.20	cfs	0.18	cfs
3/28/2007	12:00:00 PM	7.8	SU	9.2	°C	129	uS/cm	186	uS/cm	e0.16	cfs	0.18	cfs
4/25/2007	1:10:00 PM	8.5	SU	17.4	°C	167	uS/cm	195	uS/cm	0.13	cfs	0.14	cfs
5/29/2007	12:05:00 PM	8.2	SU	17.4	°C	161	uS/cm	189	uS/cm	0.28	cfs	0.25	cfs
07/02/2007	11:15:00 AM	8.0	SU	13.4	°C	148	uS/cm	191	uS/cm	e0.20	cfs	0.18	cfs
07/02/2007	11:25:00 AM	8.0	SU	13.4	°C	148	uS/cm	191	uS/cm	e0.20	cfs	0.18	cfs
07/23/2007	2:15:00 PM	7.9	SU	17.7	°C	164	uS/cm	191	uS/cm	0.19	cfs	0.18	cfs
08/29/2007	12:45:00 PM	7.9	SU	16.4	°C	160	uS/cm	191	uS/cm	0.21	cfs	0.19	cfs
09/25/2007	12:00:00 PM	7.9	SU	12.1	°C	131	uS/cm	178	uS/cm	0.21	cfs	0.22	cfs

Field Data:

EC - Electrical Conductivity

SpC - Specific Conductance

Units: SU - Standard Units; °C - degrees celsius; uS/cm - micro siemen per centimeter; cfs - cubic feet per second

Lerr - Instrument reading when instument cannot compute SpC due to low water temperature

e - estimated

Q - Qualifiers:

U - Analyte not detected at the given Method Detection Limit (MDL)

J - Analyte detected between the MDL and the Practical Quantitation Limit

QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to the analyte concentration being greater than 4 times the spike concentration. The QC batch was accepted based on LCSD recoveries within the acceptance limits

QM-07 - The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery

QR-04 - Duplicate results are within one reporting limit and pass all necessary QC criteria

Z-01 -The duplicate result was below the RL resulting in a LIMS calculation error.The actual RPD for chromium is 8.8%

Table B-22: Station 23 Laboratory and Field Results

Sta 23 Dissolved Metals - mg/L																														
Sample ID	**Date**	**Time**	**Al**	**Q**	**As**	**Q**	**Ca**	**Q**	**Cd**	**Q**	**Co**	**Q**	**Cr**	**Q**	**Cu**	**Q**	**Fe**	**Q**	**Mg**	**Q**	**Mn**	**Q**	**Ni**	**Q**	**Zn**	**Q**	**TDS**	**Q**	**Sulfate**	**Q**
067LM061-Sta 23	10/24/2006	12:10:00 PM	0.0068	J	0.00057	J	100		0.00011	J	0.054		0.00024	J	0.00053	J	4.9		26		1.8		0.11		0.026		680		390	
067LM074-Sta 23	11/29/2006	12:25:00 PM	0.017		0.0031	J	120		0.00011	J	0.052		0.00023	J	0.00051	J	7.2		29		1.9		0.12		0.024		710		480	
067LM089-STA 23	12/19/2006	1:00:00 PM	0.024		0.0015	J	110		0.000034	J	0.033		0.00024	J	0.00041	J	2.1		27		1.4		0.12		0.02		680		460	
067LM100-STA 23	01/24/2007	01:00:00 PM	0.027		0.0028	J	97		0.00008	J	0.051		0.00023	J	0.000085	U	3.5		25		1.9		0.12		0.02		560		370	
067LM112-Sta 23	03/06/2007	2:30:00 PM	0.024	J	0.0016	J	85		0.00012	U	0.035		0.0001	J	0.00095	J	1.7		21		1.3		0.086		0.018	J	490		340	
067LM125	03/28/2007	2:15:00 PM	0.0199		0.0022	J	83		0.00125	U	0.0386		0.0005	U	0.0009	J	3.28		20		1.53		0.0848		0.0180		450		300	
067LM126	03/28/2007	2:25:00 PM	0.0134		0.0025		82		0.00125	U	0.0388		0.0005	U	0.0007	J	3.31		20		1.53	QM-4X	0.0883		0.0143		480		290	
067LM138	04/25/2007	12:05:00 PM	0.0156		0.0023		84		0.00005	U	0.0372		0.0001	U	0.0005		2.26		21		1.40	QM-4X	0.0866		0.0130		460		310	
067LM151	05/29/2007	10:50:00 AM	0.0109		0.0010		104		0.00008	J	0.0407		0.0004	J	0.0005		0.852		25		1.65		0.0979		0.0137		550		370	
078LM010	07/02/2007	10:15:00 AM	0.0393	QM-4X,QR-04	0.0024	J	53		0.00025	U	0.0005	U	0.0005	J	0.0014	J	0.022		13		0.0161	QM-4X	0.0056		0.0020	U	300		170	
078LM021	07/23/2007	1:00:00 PM	0.0390	QR-04	0.0016		297		0.00008	J	0.0094		0.0005		0.0012	QR-04	0.007	J, QR-04	44		0.669	QR-04	0.0363		0.0038		1330		872	
078LM035	08/29/2007	11:40:00 AM	0.0241		0.0018	J	71		0.00025	U	0.0005	U	0.0006	J, Z-01	0.0016	J	0.021		14		0.0067		0.0048	J	0.0020	U	371		213	
078LM052	09/25/2007	1:00:00 PM	0.0197	QR-04	0.0026	J	88		0.00025	U	0.0006	J	0.0010	J	0.0016	J	0.003	U	18		0.0341		0.0090		0.0020	U	492		272	

Sta 23 Total Metals - mg/L																										
Sample ID	**Date**	**Time**	**Al**	**Q**	**As**	**Q**	**Ca**	**Q**	**Cd**	**Q**	**Co**	**Q**	**Cr**	**Q**	**Cu**	**Q**	**Fe**	**Q**	**Mg**	**Q**	**Mn**	**Q**	**Ni**	**Q**	**Zn**	**Q**
067LM061-Sta 23	10/24/2006	12:10:00 PM	0.49		0.0049	J	100		0.00014	J	0.056		0.00061	J	0.0020	J	7.5		25		1.8		0.12		0.032	
067LM074-Sta 23	11/29/2006	12:25:00 PM	1.7		0.0058		130		0.00013	J	0.054		0.00055	J	0.002	J	8.6		30		4.4		0.13		0.028	
067LM089-STA 23	12/19/2006	1:00:00 PM	0.42		0.0025	J	110		0.00017	J	0.034		0.00027	J	0.0012	J	2.6		27		1.4		0.12		0.02	
067LM100-STA 23	01/24/2007	01:00:00 PM	1.2		0.0051		98		0.00008	J	0.052		0.00049	J	0.0017	J	4.5		25		1.9		0.12		0.022	
067LM112-Sta 23	03/06/2007	2:30:00 PM	2		0.009	J	80		0.00012	U	0.035		0.0011	J	0.014	J	4.8		20		1.3		0.087		0.023	J
067LM125	03/28/2007	2:15:00 PM	3.59	QM-4X	0.0203		79		0.00025	U	0.0389		0.0005	U	0.0167		11.4		19		1.53		0.0924	QR-04	0.0277	QR-04
067LM126	03/28/2007	2:25:00 PM	3.84	QM-4X	0.0210		81		0.00025	U	0.0387		0.0006	J	0.0172		11.5		20		1.53		0.0931	QR-04	0.0275	QR-04
067LM138	04/25/2007	12:05:00 PM	1.55	QM-4X	0.0106		83		0.00025	U	0.0367		0.0005	U	0.0037		5.80		20		1.32	QM-4X	0.0854		0.0197	
067LM151	05/29/2007	10:50:00 AM	2.13		0.0131		100		0.00025	U	0.0419		0.0005	U	0.0041		6.45		24		1.55		0.0960		0.0237	
078LM010	07/02/2007	10:15:00 AM	0.334	QM-4X	0.0057	QR-04	57		0.00025	U	0.0007	J	0.0005	U	0.0021	J	1.41		13		0.0278		0.0070		0.0037	J
078LM021	07/23/2007	1:00:00 PM	0.842		0.0064		308		0.00025	U	0.0099		0.0005	U	0.0031		1.55		42		0.689		0.0471		0.0065	J, QR-04
078LM035	08/29/2007	11:40:00 AM	0.0578	QM-07	0.0024	J	71		0.00025	U	0.0005	U	0.0006	J	0.0017	J	0.185		14		0.0104		0.0047	J	0.0020	J
078LM052	09/25/2007	1:00:00 PM	0.0381		0.0031	QR-04	103		0.00025	U	0.0005	U	0.0005	U	0.0016	J	0.066		20		0.0332		0.0090		0.0020	U

Sta 23 Field and Flow Data												
Date	**Time**	**pH**		**Temp**		**EC**		**SpC**		**Daily Mean Flow**		**Monthly Mean Flow**	
10/24/2006	12:10:00 PM	6.9	SU	4.1	°C	497	uS/cm	828	uS/cm	0.52	cfs	0.51	cfs
11/29/2006	12:25:00 PM	6.9	SU	0.0	°C	499	uS/cm	Lerr	uS/cm	e0.50	cfs	0.55	cfs
12/19/2006	1:00:00 PM	7.1	SU	0.0	°C	468	uS/cm	Lerr	uS/cm	e0.50	cfs	0.52	cfs
1/24/2007	1:00:00 PM	6.9	SU	0.0	°C	410	uS/cm	Lerr	uS/cm	e0.61	cfs	0.6	cfs
3/6/2007	2:30:00 PM	7.2	SU	2.0	°C	386	uS/cm	688	uS/cm	1.1	cfs	1.29	cfs
3/28/2007	2:15:00 PM	7.2	SU	4.7	°C	387	uS/cm	632	uS/cm	1.1	cfs	1.29	cfs
3/28/2007	2:25:00 PM	7.2	SU	4.7	°C	387	uS/cm	632	uS/cm	1.1	cfs	1.29	cfs
4/25/2007	12:05:00 PM	7.1	SU	8.3	°C	441	uS/cm	648	uS/cm	e0.32	cfs	0.57	cfs
5/29/2007	10:50:00 AM	7.2	SU	10.0	°C	523	uS/cm	733	uS/cm	0.33	cfs	0.39	cfs
07/02/2007	10:15:00 AM	7.7	SU	11.5	°C	334	uS/cm	449	uS/cm	0.11	cfs	0.31	cfs
07/23/2007	1:00:00 PM	7.6	SU	18.9	°C	1360	uS/cm	1536	uS/cm	0.55	cfs	0.31	cfs
08/29/2007	11:40:00 AM	7.7	SU	15.7	°C	439	uS/cm	534	uS/cm	0.02	cfs	0.08	cfs
09/25/2007	1:00:00 PM	7.8	SU	8.1	°C	463	uS/cm	683	uS/cm	0.1	cfs	0.08	cfs

Field Data:

EC - Electrical Conductivity

SpC - Specific Conductance

Units: SU - Standard Units; °C - degrees celsius; uS/cm - micro siemen per centimeter; cfs - cubic feet per second

Lerr - Instrument reading when instument cannot compute SpC due to low water temperature

e - estimated

Q - Qualifiers:

U - Analyte not detected at the given Method Detection Limit (MDL)

J - Analyte detected between the MDL and the Practical Quantitation Limit

QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to the analyte concentration being greater than 4 times the spike concentration. The QC batch was accepted based on LCSD recoveries within the acceptance limits

QM-07 - The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery

QR-04 - Duplicate results are within one reporting limit and pass all necessary QC criteria

Z-01 -The duplicate result was below the RL resulting in a LIMS calculation error.The actual RPD for chromium is 8.8%

Table B-23: Station 24 Laboratory and Field Results

Sta 24 Dissolved Metals - mg/L																														
Sample ID	**Date**	**Time**	**Al**	**Q**	**As**	**Q**	**Ca**	**Q**	**Cd**	**Q**	**Co**	**Q**	**Cr**	**Q**	**Cu**	**Q**	**Fe**	**Q**	**Mg**	**Q**	**Mn**	**Q**	**Ni**	**Q**	**Zn**	**Q**	**TDS**	**Q**	**Sulfate**	**Q**
067LM062-Sta 24	10/24/2006	12:00:00 PM	0.0066	J	0.0011	J	18		0.000023	U	0.0014	J	0.00034	J	0.00025	J	0.026		6.6		0.0055		0.00048	J	0.0032	J	130		2.4	J
067LM076-Sta 24	11/29/2006	12:15:00 PM	0.024	J	0.0012	J	20		0.00012	U	0.00016	J	0.00019	J	0.00043	J	0.057		7.2		0.0043	J	0.0007	U	0.0039	J	140		0.14	U
067LM083-STA24	12/19/2006	12:55:00 PM	0.029		0.0012	J	18		0.000023	U	0.000029	J	0.00037	J	0.00073	J	0.022		6.4		0.0036	J	0.0005	J	0.0025	J	120		2.3	J
067LM101-STA 24	01/24/2007	12:50:00 PM	0.0079	J	0.0011	J	17		0.000023	U	0.00012	J	0.00022	J	0.000085	U	0.019		6.2		0.0024	J	0.00014	U	0.0011	J	66		1.5	J
067LM113-Sta 24	03/06/2007	2:20:00 PM	0.044	J	0.0012	J	17		0.00012	U	0.00015	J	0.00035	J	0.00042	U	0.066		6.4		0.0042	J	0.0007	U	0.0048	J	99		2.1	
067LM127	03/28/2007	2:10:00 PM	0.0271		0.0012	J	18		0.00125	U	0.0005	U	0.0005	U	0.0005	U	0.041	QR-04	6		0.0051	QM-4X	0.0010	U	0.0020	U	100		1.7	J
067LM139	04/25/2007	11:50:00 AM	0.0065	J	0.0013		19		0.00005	U	0.0004	J	0.0001	U	0.0002	J	0.005	J	7		0.0026	QM-4X	0.0003	J	0.0005	J	93		1.5	J
067LM140	04/25/2007	11:55:00 AM	0.0067	J	0.0013		19		0.00005	U	0.0004	J	0.0002	J	0.0002	J	0.004	J	7		0.0027	QM-4X	0.0002	J	0.0008	J	100		1.5	J
067LM152	05/29/2007	10:40:00 AM	0.0081	J	0.0014		20		0.00005	U	0.0002	J	0.0003	J	0.0002	J	0.016		7		0.0031		0.0002	J	0.0004	U	110		1.2	
078LM011	07/02/2007	10:00:00 AM	0.0042	QR-04	0.0014	J	18		0.00005	U	0.0004	J	0.0006		0.0002	J	0.017		5		0.0035		0.0002	U	0.0004	U	110		1.0	
078LM022	07/23/2007	12:45:00 PM	0.0064	J,QR-04	0.0016		18		0.00005	U	0.0021		0.0006		0.0003	J, QR-04	0.007	J,QR-04	6		0.0071	QR-04	0.0005	J	0.0016	J	115		0.99	
078LM036	08/29/2007	11:30:00 AM	0.0038		0.0013	J	17		0.00005	U	0.0001	J	0.0007	Z-01	0.0004	J	0.022		6		0.0038		0.0002	J	0.0010	J	116		0.87	
078LM055	09/25/2007	12:50:00 PM	0.0024	QR-04	0.0011	J	17		0.00005	U	0.0001	J	0.0009		0.0001	J	0.014		6		0.0024		0.0002	U	0.0004	U	130		1.41	

Sta 24 Total Metals - mg/L																										
Sample ID	**Date**	**Time**	**Al**	**Q**	**As**	**Q**	**Ca**	**Q**	**Cd**	**Q**	**Co**	**Q**	**Cr**	**Q**	**Cu**	**Q**	**Fe**	**Q**	**Mg**	**Q**	**Mn**	**Q**	**Ni**	**Q**	**Zn**	**Q**
067LM062-Sta 24	10/24/2006	12:00:00 PM	0.040		0.00086	J	17		0.000023	U	0.00012	J	0.00030	J	0.00024	J	0.076		6.1		0.0077		0.00028	J	0.0028	J
067LM076-Sta 24	11/29/2006	12:15:00 PM	0.08		0.001	J	20		0.000023	U	0.00012	J	0.00032	J	0.00033	J	0.13		7.3		0.0098		0.0003	J	0.0017	J
067LM083-STA24	12/19/2006	12:55:00 PM	0.074		0.0005	J	19		0.000023	U	0.000014	U	0.00033	J	0.000085	U	0.12		7.1		0.0065		0.00042	J	0.0023	J
067LM101-STA 24	01/24/2007	12:50:00 PM	0.1		0.0012	J	17		0.000023	U	0.0001	J	0.00037	J	0.000085	U	0.14		6.3		0.014		0.00014	J	0.001	J
067LM113-Sta 24	03/06/2007	2:20:00 PM	0.24		0.0013	J	18		0.00012	U	0.0001	J	0.0004	J	0.0005	J	0.38		6.6		0.021	J	0.0007	U	0.0087	J
067LM139	04/25/2007	11:50:00 AM	0.0842	QM-4X	0.0005	U	19		0.00025	U	0.0005	U	0.0005	U	0.0008	J	0.114		7		0.0176	QM-4X	0.0010	U	0.0022	J
067LM140	04/25/2007	11:55:00 AM	0.0856	QM-4X	0.0005	U	19		0.00025	U	0.0005	U	0.0005	U	0.0006	J	0.115		6		0.0177	QM-4X	0.0010	U	0.0021	J
067LM152	05/29/2007	10:40:00 AM	0.128		0.0005	J	19		0.00025	U	0.0005	U	0.0005	U	0.0008	J	0.083		7		0.0232		0.0010	U	0.0020	U
078LM011	07/02/2007	10:00:00 AM	0.0399		0.0014	QR-04	18		0.00005	U	0.0001	J	0.0006		0.0003	J	0.075		6		0.0132		0.0002	J	0.0004	U
078LM022	07/23/2007	12:45:00 PM	0.0617		0.0008	J	18		0.00025	U	0.0005	U	0.0005	U	0.0005	U	0.003	U	6		0.0165		0.0010	U	0.0020	QR-04,U
078LM036	08/29/2007	11:30:00 AM	0.0343	QM-07	0.0012		17		0.00005	U	0.0001	J	0.0005		0.0006		0.075		6		0.0134		0.0003	J	0.0018	J
078LM055	09/25/2007	12:50:00 PM	0.0183		0.0011	QR-04	18		0.00005	U	0.0001	U	0.0009		0.0002	J	0.037		6		0.0068		0.0002	J	0.0004	U

Sta 24 Field and Flow Data									
Date	**Time**	**pH**		**Temp**		**EC**		**SpC**	
10/24/2006	12:00:00 PM	7.6	SU	5.2	°C	103	uS/cm	165	uS/cm
11/29/2006	12:15:00 PM	7.4	SU	0.0	°C	98	uS/cm	Lerr	uS/cm
12/19/2006	12:55:00 PM	7.6	SU	0.0	°C	96	uS/cm	Lerr	uS/cm
1/24/2007	12:50:00 PM	7.6	SU	1.0	°C	90	uS/cm	Lerr	uS/cm
3/6/2007	2:20:00 PM	7.7	SU	4.5	°C	100	uS/cm	164	uS/cm
3/28/2007	2:10:00 PM	7.8	SU	4.3	°C	100	uS/cm	165	uS/cm
4/25/2007	11:50:00 AM	7.7	SU	8.2	°C	116	uS/cm	172	uS/cm
4/25/2007	11:55:00 AM	7.7	SU	8.2	°C	116	uS/cm	172	uS/cm
5/29/2007	10:40:00 AM	7.8	SU	9.2	°C	119	uS/cm	171	uS/cm
07/02/2007	10:00:00 AM	7.9	SU	10.9	°C	119	uS/cm	162	uS/cm
07/23/2007	12:45:00 PM	7.6	SU	16.9	°C	136	uS/cm	161	uS/cm
08/29/2007	11:30:00 AM	7.9	SU	14.3	°C	128	uS/cm	160	uS/cm
09/25/2007	12:50:00 PM	7.7	SU	7.4	°C	105	uS/cm	158	uS/cm

Field Data:

EC - Electrical Conductivity

SpC - Specific Conductance

Units: SU - Standard Units; °C - degrees celsius; uS/cm - micro siemen per centimeter; cfs - cubic feet per second

Lerr - Instrument reading when instument cannot compute SpC due to low water temperature

Q - Qualifiers:

U - Analyte not detected at the given Method Detection Limit (MDL)

J - Analyte detected between the MDL and the Practical Quantitation Limit

* - Relative Percent Difference between sample and field duplicate exceeds 25%

QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to the analyte concentration being greater than 4 times the spike concentration. The QC batch was accepted based on LCSD recoveries within the acceptance limits

QM-07 - The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery

QR-04 - Duplicate results are within one reporting limit and pass all necessary QC criteria

Z-01 -The duplicate result was below the RL resulting in a LIMS calculation error.The actual RPD for chromium is 8.8%

Table B-24: Station 25 Laboratory and Field Results

Sta 25 Dissolved Metals - mg/L																														
Sample ID	**Date**	**Time**	**Al**	**Q**	**As**	**Q**	**Ca**	**Q**	**Cd**	**Q**	**Co**	**Q**	**Cr**	**Q**	**Cu**	**Q**	**Fe**	**Q**	**Mg**	**Q**	**Mn**	**Q**	**Ni**	**Q**	**Zn**	**Q**	**TDS**	**Q**	**Sulfate**	**Q**
067LM063-Sta 25	10/24/2006	12:25:00 PM	0.46		0.00072	J	42		0.000023	U	0.012		0.00051	J	0.00033	J	0.44		12		0.41		0.026		0.0066	J	270		99	
067LM068-Sta 25	11/29/2006	12:40:00 PM	0.022		0.0013	J	45		2.3E-05	U	0.011		0.0002	J	0.00027	J	1.1		13		0.75		0.026		0.006	J	280		100	
067LM090-STA25	12/19/2006	1:15:00 PM	0.019		0.0012	J	37		2.3E-05	U	0.0055		0.0004	J	0.0001	J	0.25		11		0.25		0.023		0.0052	J	230		93	
067LM102-STA 25	01/24/2007	01:15:00 PM	0.015		0.0013	J	40		2.3E-05	U	0.013		0.00023	J	8.5E-05	U	0.58		12		0.48		0.031		0.0054	J	180		94	
067LM114-Sta 25	03/06/2007	2:40:00 PM	0.025	J	0.001	J	40		0.00012	U	0.0098	J	0.00025	J	0.00055	J	0.25		11		0.4		0.024	J	0.0054	J	220		110	
067LM115-Sta 25-D	03/06/2007	2:45:00 PM	0.026	J	0.0012	J	41		0.00012	U	0.0098	J	0.00015	J	0.00042	U	0.25		12		0.4		0.024	J	0.006	J	220		110	
067LM128	03/28/2007	2:35:00 PM	0.0156		0.0010	J	45		0.00125	U	0.0136		0.0005	U	0.0005	U	0.456		12		0.581	QM-4X	0.0313		0.0029	J	300		130	
067LM141	04/25/2007	12:20:00 PM	0.0075	J	0.0013		42		0.00005	U	0.0110		0.0003	J	0.0003	J	0.171		11		0.438	QM-4X	0.0260		0.0022		220		100	
067LM153	05/29/2007	10:25:00 AM	0.0146		0.0010		42		0.00005	U	0.0078		0.0004	J	0.0003	J	0.027		12		0.335		0.0191		0.0013	J	230		92	
078LM012	07/02/2007	9:45:00 AM	0.0062	J,QM-4X,QR-04	0.0018	J	24		0.00025	U	0.0005	J	0.0006	J	0.0006	J	0.016		7		0.0055	QM-4X	0.0010	U	0.0020	U	140		26	
078LM023	07/23/2007	1:18:00 PM	0.0115	QR-04	0.0018		99		0.00005	U	0.0018		0.0008		0.0006	QR-04	0.003	QR-04,U	17		0.139	QR-04	0.0088		0.0008	J	464		248	
078LM037	08/29/2007	11:55:00 AM	0.0057	J	0.0009	J	26		0.00025	U	0.0005	U	0.0006	J,Z-01	0.0007	J	0.006	J	7		0.0031		0.0010	U	0.0031	J	160		28.0	
078LM053	09/25/2007	1:10:00 PM	0.0031	J, QR-04	0.0018	J	30		0.00025	U	0.0005	U	0.0010	J	0.0006	J	0.005	J	8		0.0047		0.0010	U	0.0020	U	189		44.1	

Sta 25 Total Metals - mg/L																										
Sample ID	**Date**	**Time**	**Al**	**Q**	**As**	**Q**	**Ca**	**Q**	**Cd**	**Q**	**Co**	**Q**	**Cr**	**Q**	**Cu**	**Q**	**Fe**	**Q**	**Mg**	**Q**	**Mn**	**Q**	**Ni**	**Q**	**Zn**	**Q**
067LM063-Sta 25	10/24/2006	12:25:00 PM	0.12		0.0016	J	38		0.000029	J	0.013		0.00035	J	0.00058	J	1.4		11		0.41		0.027		0.0084	J
067LM068-Sta 25	11/29/2006	12:40:00 PM	0.33		0.0024	J	45		3.7E-05	J	0.011		0.00042	J	0.00085	J	1.9		12		0.69		0.029		0.0081	J
067LM090-STA25	12/19/2006	1:15:00 PM	0.18		0.0012	J	38		5.9E-05	J	0.0059		0.00035	J	0.00034	J	0.78		11		0.26		0.023		0.0056	J
067LM102-STA 25	01/24/2007	01:15:00 PM	0.31		0.002	J	40		2.3E-05	U	0.013		0.00035	J	0.00011	J	1		11		0.49		0.031		0.0054	J
067LM114-Sta 25	03/06/2007	2:40:00 PM	0.73		0.0034	J	40		0.00012	U	0.0099	J	0.0006	J	0.0042	J	1.7		11		0.4		0.025		0.0096	J
067LM115-Sta 25-D	03/06/2007	2:45:00 PM	0.89		0.0036	J	39		0.00003	J	0.011		0.0007	J	0.0054		1.7		11		0.42		0.026		0.0073	J
067LM141	04/25/2007	12:20:00 PM	0.469	QM-4X	0.0029		42		0.00025	U	0.0110		0.0005	U	0.0015	J	1.58		11		0.416	QM-4X	0.0255		0.0072	J
067LM153	05/29/2007	10:25:00 AM	0.626		0.0045		40		0.00025	U	0.0090		0.0005	U	0.0014	J	1.60		11		0.354		0.0220		0.0054	J
078LM012	07/02/2007	9:45:00 AM	0.132	QM-4X	0.0023	J,QR-04	26		0.00025	U	0.0012	J	0.0005	U	0.0009	J	0.407		8		0.0449		0.0023	J	0.0033	J
078LM023	07/23/2007	1:18:00 PM	0.246		0.0024	J	97		0.00025	U	0.0024	J	0.0005	U	0.0011	J	0.410		16		0.163		0.0118		0.0020	QR-04,U
078LM037	08/29/2007	11:55:00 AM	0.0399	QM-07	0.0018	J	72		0.00025	U	0.0005	U	0.0007	J	0.0008	J	0.087		14		0.0129		0.0011	J	0.0020	U
078LM053	09/25/2007	1:10:00 PM	0.0292		0.0015	J,QR-04	33		0.00025	U	0.0005	U	0.0005	U	0.0007	J	0.051		8		0.0090		0.0014	J	0.0052	J

Sta 25 Field and Flow Data										Daily Mean Flow		Monthly Mean Flow	
Date	**Time**	**pH**		**Temp**		**EC**		**SpC**					
10/24/2006	12:25:00 PM	7.5	SU	5.3	°C	220	uS/cm	353	uS/cm	2.5	cfs	2.57	cfs
11/29/2006	12:40:00 PM	7.7	SU	0.1	°C	204	uS/cm	Lerr	uS/cm	e2.0	cfs	2.15	cfs
12/19/2006	1:15:00 PM	7.8	SU	0.0	°C	181	uS/cm	Lerr	uS/cm	e2.0	cfs	2.02	cfs
1/24/2007	1:15:00 PM	7.6	SU	1.0	°C	193	uS/cm	Lerr	uS/cm	2.3	cfs	2.18	cfs
3/6/2007	2:40:00 PM	7.9	SU	4.2	°C	211	uS/cm	350	uS/cm	3.7	cfs	3.64	cfs
3/6/2007	2:45:00 PM	7.9	SU	4.2	°C	211	uS/cm	350	uS/cm	3.7	cfs	3.64	cfs
3/28/2007	2:35:00 PM	7.6	SU	5.1	°C	232	uS/cm	375	uS/cm	3.6	cfs	3.64	cfs
4/25/2007	12:20:00 PM	7.6	SU	9.1	°C	241	uS/cm	346	uS/cm	2.6	cfs	2.88	cfs
5/29/2007	10:25:00 AM	7.7	SU	8.8	°C	230	uS/cm	332	uS/cm	1.8	cfs	1.98	cfs
07/02/2007	9:45:00 AM	7.7	SU	10.9	°C	151	uS/cm	207	uS/cm	1.2	cfs	1.27	cfs
07/23/2007	1:18:00 PM	8.0	SU	17.5	°C	537	uS/cm	627	uS/cm	1.4	cfs	1.27	cfs
08/29/2007	11:55:00 AM	7.8	SU	14.5	°C	177	uS/cm	221	uS/cm	1.1	cfs	1	cfs
09/25/2007	1:10:00 PM	8.0	SU	8.5	°C	175	uS/cm	255	uS/cm	1.3	cfs	1.17	cfs

Field Data:

EC - Electrical Conductivity

SpC - Specific Conductance

Units: SU - Standard Units; °C - degrees celsius; uS/cm - micro siemen per centimeter; cfs - cubic feet per second

Lerr - Instrument reading when instument cannot compute SpC due to low water temperature

e - estimated

Q - Qualifiers:

U - Analyte not detected at the given Method Detection Limit (MDL)

J - Analyte detected between the MDL and the Practical Quantitation Limit

QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to the analyte concentration being greater than 4 times the spike concentration. The QC batch was accepted based on LCSD recoveries within the acceptance limits

QM-07 - The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery

QR-04 - Duplicate results are within one reporting limit and pass all necessary QC criteria

Z-01 -The duplicate result was below the RL resulting in a LIMS calculation error.The actual RPD for chromium is 8.8%

M - Sample result is matrix suspect

Table B-25: Semi Annual Stations and other samples Laboratory and Field Results

Dissolved Metals - mg/L																															
Station	**Sample ID**	**Date**	**Time**	**Al**	**Q**	**As**	**Q**	**Ca**	**Q**	**Cd**	**Q**	**Co**	**Q**	**Cr**	**Q**	**Cu**	**Q**	**Fe**	**Q**	**Mg**	**Q**	**Mn**	**Q**	**Ni**	**Q**	**Zn**	**Q**	**TDS**	**Q**	**Sulfate**	**Q**
4L	067LM048-4LCrk	10/17/2006	11:30:00 AM	0.0051	J	0.0035	J	48		0.000023	U	0.00059	J	0.00026	J	0.00036	J	0.017		14		0.0041	J	0.0011	J	0.0034	J	320	*	140	
4L	067LM051-4L-D	10/17/2006	11:35:00 AM	0.0056	J	0.0035	J	48		0.000023	U	0.00012	J	0.00027	J	0.00035	J	0.014		14		0.0033	J	0.0013	J	0.0036	J	210	*	140	
4L	067LM157	05/30/2007	10:50:00 AM	0.0101		0.0030		54		0.00005	U	0.0001	J	0.0005		0.0008		0.012		14		0.0027		0.0009	J	0.0019	J	310		140	
DS	067LM047-DS	10/17/2006	11:05:00 AM	7.2		0.049		270		0.0011	J	0.26		0.0011	J	0.046		21		84		14		0.51		0.16		1800		1200	
DS	067LM156	05/30/2007	10:15:00 AM	3.64		0.059		281		0.0050	U	0.223		0.008	J, QR-04	0.018	J	20.9	QM-4X	80		14.4	QM-4X	0.435		0.124		1600		1100	
DS	067LM161	05/30/2007	10:25:00 AM	3.62		0.054		290		0.0050	U	0.220		0.008	J, QR-04	0.020	J	20.8	QM-4X	84		14.0	QM-4X	0.429		0.118		1600		1100	
Sta 26	067LM049-Sta 26	10/17/2006	1:45:00 PM	0.0031	J	0.0048	J	31		0.000023	U	0.00030	J	0.00039	J	0.00049	J	0.048		11		0.022		0.0030	J	0.0029	J	210		60	
Sta 26	067LM158	05/30/2007	1:45:00 PM	0.0067	J	0.0052		33		0.00005	U	0.0002	J	0.0006		0.0006		0.017		12		0.0180		0.0022		0.0007	J	200		52	

Total Metals - mg/L																											
Station	**Sample ID**	**Date**	**Time**	**Al**	**Q**	**As**	**Q**	**Ca**	**Q**	**Cd**	**Q**	**Co**	**Q**	**Cr**	**Q**	**Cu**	**Q**	**Fe**	**Q**	**Mg**	**Q**	**Mn**	**Q**	**Ni**	**Q**	**Zn**	**Q**
4L	067LM048-4LCrk	10/17/2006	11:30:00 AM	0.0095	J	0.0032	J	49		0.000023	U	0.00011	J	0.00029	J	0.00033	J	0.023		14		0.0035	J	0.0015	J	0.0041	J
4L	067LM051-4L-D	10/17/2006	11:35:00 AM	0.0090	J	0.0037	J	50		0.000023	U	0.00010	J	0.00031	J	0.00035	J	0.020		14		0.0034	J	0.0013	J	0.0031	J
4L	067LM157	05/30/2007	10:50:00 AM	0.0932		0.0054		54		0.00025	U	0.0007	J	0.0005	U	0.0011	J	0.161		14		0.0479		0.0032	J	0.0020	U
DS	067LM047-DS	10/17/2006	11:05:00 AM	7.7		0.050		280		0.0012	J	0.27		0.0029	J	0.056		24		86		14		0.52		0.16	
DS	067LM156	05/30/2007	10:15:00 AM	3.90		0.055		273		0.0014	J	0.218		0.007		0.034		20.9	QM-4X	79		13.7	QM-4X	0.409		0.112	
DS	067LM161	05/30/2007	10:25:00 AM	4.02		0.056		285		0.0014	J	0.213		0.006		0.035		20.3	QM-4X	81		13.4	QM-4X	0.398		0.112	
Sta 26	067LM049-Sta 26	10/17/2006	1:45:00 PM	0.060		0.0050		31		0.000023	U	0.00059	J	0.00047	J	0.00072	J	0.21		11		0.034		0.0036	J	0.0026	J
Sta 26	067LM158	05/30/2007	1:45:00 PM	0.0134		0.0058		34		0.00025	U	0.0005	U	0.0005	U	0.0005	U	0.236		12		0.0454		0.0010	U	0.0020	U

Field and Flow Data												Daily Mean Flow		Monthly Mean Flow	
Station	**Sample ID**	**Date**	**Time**	**pH**		**Temp**		**EC**		**SpC**					
4L	067LM048-4LCrk	10/17/2006	11:30:00 AM	6.80	SU	4.9	°C	273	uS/cm	443	uS/cm	0.03	cfs	0.03	cfs
4L	067LM051-4L-D	10/17/2006	11:35:00 AM	6.80	SU	4.9	°C	273	uS/cm	443	uS/cm	0.03	cfs	0.03	cfs
4L	067LM157	05/30/2007	10:50:00 AM	6.90	SU	8.6	°C	293	uS/cm	427	uS/cm	0.02	cfs	0.04	cfs
DS	067LM047-DS	10/17/2006	11:05:00 AM	5.10	SU	8.1	°C	1247	uS/cm	1770	uS/cm	NA	cfs	NA	cfs
DS	067LM156	05/30/2007	10:15:00 AM	5.40	SU	9.6	°C	1266	uS/cm	1791	uS/cm	NA	cfs	NA	cfs
DS	067LM161	05/30/2007	10:25:00 AM	5.40	SU	9.6	°C	1266	uS/cm	1791	uS/cm	NA	cfs	NA	cfs
Sta 26	067LM049-Sta 26	10/17/2006	1:45:00 PM	7.90	SU	10.8	°C	221	uS/cm	303	uS/cm	4.4	cfs	3.88	cfs
Sta 26	067LM158	05/30/2007	1:45:00 PM	7.40	SU	19.5	°C	265	uS/cm	296	uS/cm	2.3	cfs	2.53	cfs

Field Data:

EC - Electrical Conductivity

SpC - Specific Conductance

Lerr - Instrument reading when instument cannot compute SpC due to low water temperature

Units: SU - Standard Units; °C - degrees celsius; uS/cm - micro siemen per centimeter; cfs - cubic feet per second

e - estimated

NA - Not Available

Q - Qualifiers:

U - Analyte not detected at the given Method Detection Limit (MDL)

J - Analyte detected between the MDL and the Practical Quantitation Limit

* - Relative Percent Difference between sample and field duplicate exceeds 25%

QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to the analyte concentration being greater than 4 times the spike concentration. The QC batch was accepted based on LCSD recoveries within the acceptance limits

QR-04 - Duplicate results are within one reporting limit and pass all necessary QC criteria

R-08 - The sample was diluted due to sample matrix resulting in elevated reporting limits

Attachment B-1

Level A/B and Field Data Validation Checklists

Leviathan Mine
Level A/B Screening Checklist

I. General Information

Project: Fall Semi-Annual
Sample Date: 10/17/06
Client/Lab: Water Board / Weck Labs
Sample Matrix: AQ
Sample Location(s): DS, 4L, 26

II. Screening Results

Data are:
1) Unusable_____
2) Level A _____
3) Level B ___X___

III. Level A Screening

Criteria	Yes/No
1. Sampling date	Yes – COC/field book
2. Sample team/or leader	Yes – field book
3. Physical description of sample location	Yes - SAP
4. Sample depth (soils)	NA
5. Sample collection technique	Yes - SAP
6. Field preparation technique	Yes - SAP
7. Sample preservation technique	Yes – SAP/COC
8. Sample shipping records	Yes - COC

IV. Level B Screening

Criteria	Yes/No
1. Field instrumentation methods and standardization complete	Yes
2. Sample container preparation	Yes
3. Collection of field replicates (1/20 minimum)	Yes
4. Proper and decontaminated sampling equipment	Yes
5. Field custody documentation	Yes
6. Shipping custody documentation	Yes
7. Traceable sample designation number	Yes
8. Field notebook(s), custody records in secure repository	Yes – Water Board office
9. Completed field forms	Field book

Leviathan Mine
Data Validation
Checklist for Field Quality Control

Site: Leviathan Mine
Project: Fall Semi-Annual
Sample Dates: 10/17/06
Data Validator: LS

Report No.: 6101810
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 2/7/08

Laboratory: Weck Labs
Analyses: TDS, Sulfate, Dis. & Total: Al, As, Ca, Cd, Cr, Co, Cu, Fe, Mg, Mn, Ni, Zn

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1. Holding Times

Analyte	Matrix	Method	Collection date	Analysis date	Affected data flagged? (Y/N)
Sulfate	AQ	300.0	10/17/06	10/18,19/06	NA
Total Dissolved Solids	AQ	SM2540C	10/17/06	10/23/06	NA
Metals	AQ	200.7	10/17/06	11/07/06	NA
Metals	AQ	200.8	10/17/06	11/09/06	NA

2. Field QC Samples

Field Blanks

Were field blanks submitted as specified in the Sampling & Analysis Plan? Y_X_ N____
Were any data qualified because of field blank problems? Y____ N__X_

Field Duplicates

Were field duplicates submitted as specified in the Sampling & Analysis Plan? Y_X__ N____
Were any data qualified because of field duplicate results? Y____ N__X__
Were results for field duplicates within the target control limits in the QAPP? Y_X__ N____

Field Reference Materials

Were field Reference Materials or Performance Evaluation Samples submitted as specified in the Sampling & Analysis Plan? Y____ N____ NA

Were the results within the manufacturer's control limits? Y____ N____ NA

Leviathan Mine
Level A/B Screening Checklist

I. General Information

Project: October Monthly
Sample Date: 10/24/06
Client/Lab: Water Board / Weck Labs
Sample Matrix: AQ
Sample Location(s): 25, 24, 23, 22, 16, 15, 1, OS, CUD, PUD, Adit, duplicate at OS

II. Screening Results

Data are:
1) Unusable_____
2) Level A _____
3) Level B ___X___

III. Level A Screening

Criteria	Yes/No
1. Sampling date	Yes – COC/field book
2. Sample team/or leader	Yes – field book
3. Physical description of sample location	Yes - SAP
4. Sample depth (soils)	NA
5. Sample collection technique	Yes - SAP
6. Field preparation technique	Yes - SAP
7. Sample preservation technique	Yes – SAP/COC
8. Sample shipping records	Yes - COC

IV. Level B Screening

Criteria	Yes/No
1. Field instrumentation methods and standardization complete	Yes
2. Sample container preparation	Yes
3. Collection of field replicates (1/20 minimum)	Yes
4. Proper and decontaminated sampling equipment	Yes
5. Field custody documentation	Yes
6. Shipping custody documentation	Yes
7. Traceable sample designation number	Yes
8. Field notebook(s), custody records in secure repository	Yes – Water Board office
9. Completed field forms	Field book

Leviathan Mine
Data Validation
Checklist for Field Quality Control

Site: Leviathan Mine
Project: October Monthly
Sample Dates: 10/24/06
Data Validator: LS

Report No.: 6102620
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 2/7/08

Laboratory: Weck Labs
Analyses: TDS, Sulfate, Dis. & Total: Al, As, Ca, Cd, Cr, Co, Cu, Fe, Mg, Mn, Ni, Zn

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1. Holding Times

Analyte	Matrix	Method	Collection date	Analysis date	Affected data flagged? (Y/N)
Sulfate	AQ	300.0	10/24/06	10/27/06	NA
Total Dissolved Solids	AQ	SM2540C	10/24/06	10/30/06	NA
Metals	AQ	200.7	10/24/06	11/18,19/06	NA
Metals	AQ	200.8	10/24/06	11/17,18/06	NA

2. Field QC Samples

Field Blanks

Were field blanks submitted as specified in the Sampling & Analysis Plan? Y_X_ N____
Were any data qualified because of field blank problems? Y____ N__X_

Field Duplicates

Were field duplicates submitted as specified in the Sampling & Analysis Plan? Y_X__ N____
Were any data qualified because of field duplicate results? Y____ N__X_
Were results for field duplicates within the target control limits in the QAPP? Y_Y__ N____

Field Reference Materials

Were field Reference Materials or Performance Evaluation Samples submitted as specified in the Sampling & Analysis Plan? Y____ N____ NA

Were the results within the manufacturer's control limits? Y____ N____ NA

Leviathan Mine
Level A/B Screening Checklist

I. General Information

Project: November Monthly
Sample Date: 11/29/06
Client/Lab: Water Board / Weck Labs
Sample Matrix: AQ
Sample Location(s): 25, 24, 23, 22, 16, 15, 1, OS, CUD, PUD, Adit, duplicate at 1

II. Screening Results

Data are:
1) Unusable_____
2) Level A _____
3) Level B ___X____

III. Level A Screening

Criteria	Yes/No
1. Sampling date	Yes – COC/field book
2. Sample team/or leader	Yes – field book
3. Physical description of sample location	Yes - SAP
4. Sample depth (soils)	NA
5. Sample collection technique	Yes - SAP
6. Field preparation technique	Yes - SAP
7. Sample preservation technique	Yes – SAP/COC
8. Sample shipping records	Yes - COC

IV. Level B Screening

Criteria	Yes/No
1. Field instrumentation methods and standardization complete	Yes
2. Sample container preparation	Yes
3. Collection of field replicates (1/20 minimum)	Yes
4. Proper and decontaminated sampling equipment	Yes
5. Field custody documentation	Yes
6. Shipping custody documentation	Yes
7. Traceable sample designation number	Yes
8. Field notebook(s), custody records in secure repository	Yes – Water Board office
9. Completed field forms	Field book

Leviathan Mine
Data Validation
Checklist for Field Quality Control

Site: Leviathan Mine
Project: November Monthly
Sample Dates: 11/29/06
Data Validator: LS

Report No.: 6120113
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 2/8/08

Laboratory: Weck Labs
Analyses: TDS, Sulfate, Dis. & Total: Al, As, Ca, Cd, Cr, Co, Cu, Fe, Mg, Mn, Ni, Zn

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1. Holding Times

Analyte	Matrix	Method	Collection date	Analysis date	Affected data flagged? (Y/N)
Sulfate	AQ	300.0	11/29/06	12/8,11/06	NA
Total Dissolved Solids	AQ	SM2540C	11/29/06	12/05/06	NA
Metals	AQ	200.7	11/29/06	12/22/06; 1/7/07	NA
Metals	AQ	200.8	11/29/06	12/15,16/06	NA

2. Field QC Samples

Field Blanks

Were field blanks submitted as specified in the Sampling & Analysis Plan? Y_X_ N____
Were any data qualified because of field blank problems? Y____ N__X__

Field Duplicates

Were field duplicates submitted as specified in the Sampling & Analysis Plan? Y_X__ N____
Were any data qualified because of field duplicate results? Y__X_ N____
Were results for field duplicates within the target control limits in the QAPP? Y____ N__X__

- RPD for dissolved Iron was out of control limits

Field Reference Materials

Were field Reference Materials or Performance Evaluation Samples submitted as specified in the Sampling & Analysis Plan? Y____ N____ NA

Were the results within the manufacturer's control limits? Y____ N____ NA

Leviathan Mine
Level A/B Screening Checklist

I. General Information

Project: December Monthly
Sample Date: 12/19/06
Client/Lab: Water Board / Weck Labs
Sample Matrix: AQ
Sample Location(s): 25, 24, 23, 22, 16, 15, 1, CUD, PUD, Adit, duplicate at 16

II. Screening Results

Data are:
1) Unusable_____
2) Level A _____
3) Level B ___X____

III. Level A Screening

Criteria	Yes/No
1. Sampling date	Yes – COC/field book
2. Sample team/or leader	Yes – field book
3. Physical description of sample location	Yes - SAP
4. Sample depth (soils)	NA
5. Sample collection technique	Yes - SAP
6. Field preparation technique	Yes - SAP
7. Sample preservation technique	Yes – SAP/COC
8. Sample shipping records	Yes - COC

IV. Level B Screening

Criteria	Yes/No
1. Field instrumentation methods and standardization complete	Yes
2. Sample container preparation	Yes
3. Collection of field replicates (1/20 minimum)	Yes
4. Proper and decontaminated sampling equipment	Yes
5. Field custody documentation	Yes
6. Shipping custody documentation	Yes
7. Traceable sample designation number	Yes
8. Field notebook(s), custody records in secure repository	Yes – Water Board office
9. Completed field forms	Field book

Leviathan Mine
Data Validation
Checklist for Field Quality Control

Site: Leviathan Mine
Project: December Monthly
Sample Dates: 12/19/06
Data Validator: LS

Report No.: 6122140
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 2/8/08

Laboratory: Weck
Analyses: TDS, Sulfate, Dis. & Total: Al, As, Ca, Cd, Cr, Co, Cu, Fe, Mg, Mn, Ni, Zn

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1. Holding Times

Analyte	Matrix	Method	Collection date	Analysis date	Affected data flagged? (Y/N)
Sulfate	AQ	300.0	12/19/06	12/26,27,28/06; 1/3/07	NA
Total Dissolved Solids	AQ	SM2540C	12/19/06	1/4/07 (prepared on 12/26/06)	NA
Metals	AQ	200.7	12/19/06	1/11,17/07	NA
Metals	AQ	200.8	12/19/06	1/29,30/07; 2/1/07	NA

2. Field QC Samples

Field Blanks

Were field blanks submitted as specified in the Sampling & Analysis Plan? Y_X_ N____
Were any data qualified because of field blank problems? Y____ N__X__

Field Duplicates

Were field duplicates submitted as specified in the Sampling & Analysis Plan? Y_X__ N____
Were any data qualified because of field duplicate results? Y_X__ N____
Were results for field duplicates within the target control limits in the QAPP? Y____ N__X__

- RPD for Total Al, Total As, Total Co, Total Mn, and Total Ni were out of control limits.

Field Reference Materials

Were field Reference Materials or Performance Evaluation Samples submitted as specified in the Sampling & Analysis Plan? Y____ N____ NA

Were the results within the manufacturer's control limits? Y____ N____ NA

Leviathan Mine
Level A/B Screening Checklist

I. General Information

Project: January Monthly
Sample Date: 1/24/07
Client/Lab: Water Board / Weck Labs
Sample Matrix: AQ
Sample Location(s): 25, 24, 23, 22, 16, 15, 1, OS, CUD, PUD, Adit, duplicate at 15

II. Screening Results

Data are:
1) Unusable_____
2) Level A _____
3) Level B ___X____

III. Level A Screening

Criteria	Yes/No
1. Sampling date	Yes – COC/field book
2. Sample team/or leader	Yes – field book
3. Physical description of sample location	Yes - SAP
4. Sample depth (soils)	NA
5. Sample collection technique	Yes - SAP
6. Field preparation technique	Yes - SAP
7. Sample preservation technique	Yes – SAP/COC
8. Sample shipping records	Yes - COC

IV. Level B Screening

Criteria	Yes/No
1. Field instrumentation methods and standardization complete	Yes
2. Sample container preparation	Yes
3. Collection of field replicates (1/20 minimum)	Yes
4. Proper and decontaminated sampling equipment	Yes
5. Field custody documentation	Yes
6. Shipping custody documentation	Yes
7. Traceable sample designation number	Yes
8. Field notebook(s), custody records in secure repository	Yes – Water Board office
9. Completed field forms	Field book

Leviathan Mine
Data Validation
Checklist for Field Quality Control

Site: Leviathan Mine
Project: January Monthly
Sample Dates: 1/24/07
Data Validator: LS

Report No.: 7013015
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 2/8/08

Laboratory: Weck
Analyses: TDS, Sulfate, Dis. & Total: Al, As, Ca, Cd, Cr, Co, Cu, Fe, Mg, Mn, Ni, Zn

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1. Holding Times

Analyte	Matrix	Method	Collection date	Analysis date	Affected data flagged? (Y/N)
Sulfate	AQ	300.0	1/24/07	2/3/07	NA
Total Dissolved Solids	AQ	SM2540C	1/24/07	1/30/07	NA
Metals	AQ	200.7	1/24/07	2/14,15/07	NA
Metals	AQ	200.8	1/24/07	2/15,16/07; 3/12/07	NA

2. Field QC Samples

Field Blanks

Were field blanks submitted as specified in the Sampling & Analysis Plan? Y_X_ N____
Were any data qualified because of field blank problems? Y____ N_X___

Field Duplicates

Were field duplicates submitted as specified in the Sampling & Analysis Plan? Y_X__ N____
Were any data qualified because of field duplicate results? Y____ N__X__
Were results for field duplicates within the target control limits in the QAPP? Y_X__ N____

Field Reference Materials

Were field Reference Materials or Performance Evaluation Samples submitted as specified in the Sampling & Analysis Plan? Y____ N____ NA

Were the results within the manufacturer's control limits? Y____ N____ NA

Leviathan Mine
Level A/B Screening Checklist

I. General Information

Project: February Monthly
Sample Date: 3/6/07
Client/Lab: Water Board / Weck Labs
Sample Matrix: AQ
Sample Location(s): 25, 24, 23, 22, 16, 15, 1, OS, CUD, PUD, Adit, duplicate at 25

II. Screening Results

Data are:
1) Unusable_____
2) Level A _____
3) Level B ___X____

III. Level A Screening

Criteria	Yes/No
1. Sampling date	Yes – COC/field book
2. Sample team/or leader	Yes – field book
3. Physical description of sample location	Yes - SAP
4. Sample depth (soils)	NA
5. Sample collection technique	Yes - SAP
6. Field preparation technique	Yes - SAP
7. Sample preservation technique	Yes – SAP/COC
8. Sample shipping records	Yes - COC

IV. Level B Screening

Criteria	Yes/No
1. Field instrumentation methods and standardization complete	Yes
2. Sample container preparation	Yes
3. Collection of field replicates (1/20 minimum)	Yes
4. Proper and decontaminated sampling equipment	Yes
5. Field custody documentation	Yes
6. Shipping custody documentation	Yes
7. Traceable sample designation number	Yes
8. Field notebook(s), custody records in secure repository	Yes – Water Board office
9. Completed field forms	Field book

Leviathan Mine
Data Validation
Checklist for Field Quality Control

Site: Leviathan Mine
Project: February Monthly
Sample Dates: 3/6/07
Data Validator: LS

Report No.: 7030812
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 2/8/08

Laboratory: Weck Labs
Analyses: TDS, Sulfate, Dis. & Total: Al, As, Ca, Cd, Cr, Co, Cu, Fe, Mg, Mn, Ni, Zn

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1. Holding Times

Analyte	Matrix	Method	Collection date	Analysis date	Affected data flagged? (Y/N)
Sulfate	AQ	300.0	3/6/07	3/12,13/07	NA
Total Dissolved Solids	AQ	SM2540C	3/6/07	3/9,14/07	NA
Metals	AQ	200.7	3/6/07	3/20,21,27/07	NA
Metals	AQ	200.8	3/6/07	3/19/07	NA

2. Field QC Samples

Field Blanks

Were field blanks submitted as specified in the Sampling & Analysis Plan? Y_X_ N____
Were any data qualified because of field blank problems? Y____ N_X___

Field Duplicates

Were field duplicates submitted as specified in the Sampling & Analysis Plan? Y_X__ N____
Were any data qualified because of field duplicate results? Y____ N_X___
Were results for field duplicates within the target control limits in the QAPP? Y_X__ N____

Field Reference Materials

Were field Reference Materials or Performance Evaluation Samples submitted as specified in the Sampling & Analysis Plan? Y____ N____ NA

Were the results within the manufacturer's control limits? Y____ N____ NA

Leviathan Mine
Level A/B Screening Checklist

I. General Information

Project: March Monthly (TDS & Sulfate)
Sample Date: 3/28/07
Client/Lab: Water Board / Weck Labs
Sample Matrix: AQ
Sample Location(s): 25, 24, 23, 22, 16, 15, 1, OS, CUD, PUD, Adit, duplicate at 23

II. Screening Results

Data are:
1) Unusable_____
2) Level A _____
3) Level B ___X____

III. Level A Screening

Criteria	Yes/No
1. Sampling date	Yes – COC/field book
2. Sample team/or leader	Yes – field book
3. Physical description of sample location	Yes - SAP
4. Sample depth (soils)	NA
5. Sample collection technique	Yes - SAP
6. Field preparation technique	Yes - SAP
7. Sample preservation technique	Yes – SAP/COC
8. Sample shipping records	Yes - COC

IV. Level B Screening

Criteria	Yes/No
1. Field instrumentation methods and standardization complete	Yes
2. Sample container preparation	Yes
3. Collection of field replicates (1/20 minimum)	Yes
4. Proper and decontaminated sampling equipment	Yes
5. Field custody documentation	Yes
6. Shipping custody documentation	Yes
7. Traceable sample designation number	Yes
8. Field notebook(s), custody records in secure repository	Yes – Water Board office
9. Completed field forms	Field book

Leviathan Mine
Data Validation
Checklist for Field Quality Control

Site: Leviathan Mine
Project: March Monthly
Sample Dates: 3/28/07
Data Validator: LS

Report No.: 7033004
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 2/8/08

Laboratory: Weck Labs
Analyses: TDS, Sulfate

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1. Holding Times

Analyte	Matrix	Method	Collection date	Analysis date	Affected data flagged? (Y/N)
Sulfate	AQ	300.0	3/28/07	4/3/07	NA
Total Dissolved Solids	AQ	SM2540C	3/28/07	4/2,4/07	NA

2. Field QC Samples

Field Blanks

Were field blanks submitted as specified in the Sampling & Analysis Plan? Y_X_ N____
Were any data qualified because of field blank problems? Y____ N_X___

Field Duplicates

Were field duplicates submitted as specified in the Sampling & Analysis Plan? Y_X__ N____
Were any data qualified because of field duplicate results? Y_____ N_X___
Were results for field duplicates within the target control limits in the QAPP? Y_X__ N____

Field Reference Materials

Were field Reference Materials or Performance Evaluation Samples submitted as specified in the Sampling & Analysis Plan? Y____ N____ NA

Were the results within the manufacturer's control limits? Y____ N____ NA

Leviathan Mine
Level A/B Screening Checklist

I. General Information

Project: March Monthly (metals)
Sample Date: 3/28/07
Client/Lab: Water Board / Basic Labs
Sample Matrix: AQ
Sample Location(s): 25, 24, 23, 22, 16, 15, 1, OS, CUD, PUD, Adit, duplicate at 23

II. Screening Results

Data are:
1) Unusable_____
2) Level A _____
3) Level B ___X____

III. Level A Screening

Criteria	Yes/No
1. Sampling date	Yes – COC/field book
2. Sample team/or leader	Yes – field book
3. Physical description of sample location	Yes - SAP
4. Sample depth (soils)	NA
5. Sample collection technique	Yes - SAP
6. Field preparation technique	Yes - SAP
7. Sample preservation technique	Yes – SAP/COC
8. Sample shipping records	Yes - COC

IV. Level B Screening

Criteria	Yes/No
1. Field instrumentation methods and standardization complete	Yes
2. Sample container preparation	Yes
3. Collection of field replicates (1/20 minimum)	Yes
4. Proper and decontaminated sampling equipment	Yes
5. Field custody documentation	Yes
6. Shipping custody documentation	Yes
7. Traceable sample designation number	Yes
8. Field notebook(s), custody records in secure repository	Yes – Water Board office
9. Completed field forms	Field book

Leviathan Mine
Data Validation
Checklist for Field Quality Control

Site: Leviathan Mine
Project: March Monthly
Sample Dates: 3/28/07
Data Validator: LS

Report No.: 7070709
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 2/8/08

Laboratory: Basic Labs
Analyses: Dis. & Total: Al, As, Ca, Cd, Cr, Co, Cu, Fe, Mg, Mn, Ni, Zn

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1. Holding Times

Analyte	Matrix	Method	Collection date	Analysis date	Affected data flagged? (Y/N)
Metals	AQ	6010B	3/28/07	7/26,27,31/07; 8/2/07	NA
Metals	AQ	200.8	3/28/07	9/12,15,21/07	NA

2. Field QC Samples

Field Blanks

Were field blanks submitted as specified in the Sampling & Analysis Plan? Y_X_ N____
Were any data qualified because of field blank problems? Y____ N_X___
Note: The Total Metals portion of the Field Method Blank sample was lost during shipment.

Field Duplicates

Were field duplicates submitted as specified in the Sampling & Analysis Plan? Y_X__ N____
Were any data qualified because of field duplicate results? Y_____ N_X___
Were results for field duplicates within the target control limits in the QAPP? Y_X__ N____

Field Reference Materials

Were field Reference Materials or Performance Evaluation Samples submitted as specified in the Sampling & Analysis Plan? Y____ N____ NA

Were the results within the manufacturer's control limits? Y____ N____ NA

Leviathan Mine
Level A/B Screening Checklist

I. General Information

Project: April Monthly (TDS & Sulfate)
Sample Date: 4/25/07
Client/Lab: Water Board / Weck Labs
Sample Matrix: AQ
Sample Location(s): 25, 24, 23, 22, 16, 15, 1, OS, Adit, PUD, CUD, duplicate at 24

II. Screening Results

Data are:
1) Unusable_____
2) Level A _____
3) Level B ___X____

III. Level A Screening

Criteria	Yes/No
1. Sampling date	Yes – COC/field book
2. Sample team/or leader	Yes – field book
3. Physical description of sample location	Yes - SAP
4. Sample depth (soils)	NA
5. Sample collection technique	Yes - SAP
6. Field preparation technique	Yes - SAP
7. Sample preservation technique	Yes – SAP/COC
8. Sample shipping records	Yes - COC

IV. Level B Screening

Criteria	Yes/No
1. Field instrumentation methods and standardization complete	Yes
2. Sample container preparation	Yes
3. Collection of field replicates (1/20 minimum)	Yes
4. Proper and decontaminated sampling equipment	Yes
5. Field custody documentation	Yes
6. Shipping custody documentation	Yes
7. Traceable sample designation number	Yes
8. Field notebook(s), custody records in secure repository	Yes – Water Board office
9. Completed field forms	Field book

Leviathan Mine
Data Validation
Checklist for Field Quality Control

Site: Leviathan Mine
Project: April Monthly
Sample Dates: 4/25/07
Data Validator: LS

Report No.: 7042719
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 2/8/08

Laboratory: Weck Labs
Analyses: TDS, Sulfate,

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1. Holding Times

Analyte	Matrix	Method	Collection date	Analysis date	Affected data flagged? (Y/N)
Sulfate	AQ	300.0	4/25/07	5/1/07	NA
Total Dissolved Solids	AQ	SM2540C	4/25/07	5/1/07	NA

2. Field QC Samples

Field Blanks

Were field blanks submitted as specified in the Sampling & Analysis Plan? Y_X_ N____
Were any data qualified because of field blank problems? Y____ N_X___

Field Duplicates

Were field duplicates submitted as specified in the Sampling & Analysis Plan? Y_X__ N____
Were any data qualified because of field duplicate results? Y____ N_X___
Were results for field duplicates within the target control limits in the QAPP? Y_X__ N____

Field Reference Materials

Were field Reference Materials or Performance Evaluation Samples submitted as specified in the Sampling & Analysis Plan? Y____ N____ NA

Were the results within the manufacturer's control limits? Y____ N____ NA

Leviathan Mine
Level A/B Screening Checklist

I. General Information

Project: April Monthly (Metals)
Sample Date: 4/25/07
Client/Lab: Water Board / Basic Labs
Sample Matrix: AQ
Sample Location(s): 25, 24, 23, 22, 16, 15, 1, CUD, OS, Adit, PUD, Duplicate at 24

II. Screening Results

Data are:
1) Unusable_____
2) Level A _____
3) Level B ___X___

III. Level A Screening

Criteria	Yes/No
1. Sampling date	Yes – COC/field book
2. Sample team/or leader	Yes – field book
3. Physical description of sample location	Yes - SAP
4. Sample depth (soils)	NA
5. Sample collection technique	Yes - SAP
6. Field preparation technique	Yes - SAP
7. Sample preservation technique	Yes – SAP/COC
8. Sample shipping records	Yes - COC

IV. Level B Screening

Criteria	Yes/No
1. Field instrumentation methods and standardization complete	Yes
2. Sample container preparation	Yes
3. Collection of field replicates (1/20 minimum)	Yes
4. Proper and decontaminated sampling equipment	Yes
5. Field custody documentation	Yes
6. Shipping custody documentation	Yes
7. Traceable sample designation number	Yes
8. Field notebook(s), custody records in secure repository	Yes – Water Board office
9. Completed field forms	Field book

Leviathan Mine
Data Validation
Checklist for Field Quality Control

Site: Leviathan Mine
Project: April Monthly
Sample Dates: 4/25/07
Data Validator: LS

Report No.: 7080094
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 2/8/08

Laboratory: Basic Labs
Analyses: Dis. & Total: Al, As, Ca, Cd, Cr, Co, Cu, Fe, Mg, Mn, Ni, Zn

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1. Holding Times

Analyte	Matrix	Method	Collection date	Analysis date	Affected data flagged? (Y/N)
Metals	AQ	6010B	4/25/07	8/6,8,21,23/07	NA
Metals	AQ	200.8	4/25/07	8/22/07; 9/13,15,21/07	NA

2. Field QC Samples

Field Blanks

Were field blanks submitted as specified in the Sampling & Analysis Plan? Y_X_ N____
Were any data qualified because of field blank problems? Y____ N_X___

Field Duplicates

Were field duplicates submitted as specified in the Sampling & Analysis Plan? Y_X__ N____
Were any data qualified because of field duplicate results? Y____ N_X___
Were results for field duplicates within the target control limits in the QAPP? Y__X__N____

Field Reference Materials

Were field Reference Materials or Performance Evaluation Samples submitted as specified in the Sampling & Analysis Plan? Y____ N____ NA

Were the results within the manufacturer's control limits? Y____ N____ NA

Leviathan Mine
Level A/B Screening Checklist

I. General Information

Project: May Monthly and Semi Annual (TDS and Sulfate)
Sample Date: 5/29-30/07
Client/Lab: Water Board / CLS Labs
Sample Matrix: AQ
Sample Location(s): 26, 25, 24, 23, 22, 16, 15, 1, Adit, PUD, CUD, OS, DS, 4L, OUS, Duplicates at 1 and DS

II. Screening Results

Data are:
1) Unusable_____
2) Level A _____
3) Level B ___X____

III. Level A Screening

Criteria	Yes/No
1. Sampling date	Yes – COC/field book
2. Sample team/or leader	Yes – field book
3. Physical description of sample location	Yes - SAP
4. Sample depth (soils)	NA
5. Sample collection technique	Yes - SAP
6. Field preparation technique	Yes - SAP
7. Sample preservation technique	Yes – SAP/COC
8. Sample shipping records	Yes - COC

IV. Level B Screening

Criteria	Yes/No
1. Field instrumentation methods and standardization complete	Yes
2. Sample container preparation	Yes
3. Collection of field replicates (1/20 minimum)	Yes
4. Proper and decontaminated sampling equipment	Yes
5. Field custody documentation	Yes
6. Shipping custody documentation	Yes
7. Traceable sample designation number	Yes
8. Field notebook(s), custody records in secure repository	Yes – Water Board office
9. Completed field forms	Field book

Leviathan Mine
Data Validation
Checklist for Field Quality Control

Site: Leviathan Mine | Report No.: CQF0007 | Laboratory: CLS Labs
Project: May Monthly and Semi Annual | Sample Matrix: AQ | Analyses: TDS, Sulfate,
Sample Dates: 5/29-30/06 | Analysis Dates: see below
Data Validator: LS | Validation Dates: 2/11/08

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1. Holding Times

Analyte	Matrix	Method	Collection date	Analysis date	Affected data flagged? (Y/N)
Sulfate	AQ	300.0	5/29,30/07	6/1,2,4,5,6/07	NA
Total Dissolved Solids	AQ	SM2540C	5/29,30/27	6/4/07	NA

2. Field QC Samples

Field Blanks

Were field blanks submitted as specified in the Sampling & Analysis Plan? Y_X_ N____
Were any data qualified because of field blank problems? Y____ N_X__

Field Duplicates

Were field duplicates submitted as specified in the Sampling & Analysis Plan? Y_X__ N____
Were any data qualified because of field duplicate results? Y____ N__X_
Were results for field blanks within the target control limits in the QAPP? Y__X_ N____

Field Reference Materials

Were field Reference Materials or Performance Evaluation Samples submitted as specified in the Sampling & Analysis Plan? Y____ N____ NA

Were the results within the manufacturer's control limits? Y____ N____ NA

Leviathan Mine
Level A/B Screening Checklist

I. General Information

Project: May Monthly and Semi-Annual (Metals)
Sample Date: 5/29-30/07
Client/Lab: Water Board / Basic Labs
Sample Matrix: AQ
Sample Location(s): 26, 25, 24, 23, 22, 16, 15, 1, Adit, PUD, CUD, OS, DS, 4L, OUS, Duplicates at 1 and DS

II. Screening Results

Data are:
1) Unusable_____
2) Level A _____
3) Level B ___X____

III. Level A Screening

Criteria	Yes/No
1. Sampling date	Yes – COC/field book
2. Sample team/or leader	Yes – field book
3. Physical description of sample location	Yes - SAP
4. Sample depth (soils)	NA
5. Sample collection technique	Yes - SAP
6. Field preparation technique	Yes - SAP
7. Sample preservation technique	Yes – SAP/COC
8. Sample shipping records	Yes - COC

IV. Level B Screening

Criteria	Yes/No
1. Field instrumentation methods and standardization complete	Yes
2. Sample container preparation	Yes
3. Collection of field replicates (1/20 minimum)	Yes
4. Proper and decontaminated sampling equipment	Yes
5. Field custody documentation	Yes
6. Shipping custody documentation	Yes
7. Traceable sample designation number	Yes
8. Field notebook(s), custody records in secure repository	Yes – Water Board office
9. Completed field forms	Field book

Leviathan Mine
Data Validation
Checklist for Field Quality Control

Site: Leviathan Mine
Project: May Monthly and Semi-Annual
Sample Dates: 5/29-30/07
Data Validator: LS

Report No.: 7080296
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 2/11/08

Laboratory: Basic Labs
Analyses: Dis. & Total: Al, As Ca, Cd, Cr, Co, Cu, Fe, Mg, Mn, Ni, Zn

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1. Holding Times

Analyte	Matrix	Method	Collection date	Analysis date	Affected data flagged? (Y/N)
Metals	AQ	6010B	5/29,30/07	8/21,22,23/07	NA
Metals	AQ	200.8	5/29,30/07	8/22/07; 9/13,15,21/07; 10/12/07	NA

2. Field QC Samples

Field Blanks

Were field blanks submitted as specified in the Sampling & Analysis Plan? Y_X_ N____
Were any data qualified because of field blank problems? Y____ N_X___

Field Duplicates

Were field duplicates submitted as specified in the Sampling & Analysis Plan? Y_X__ N____
Were any data qualified because of field duplicate results? Y____ N_X__
Were results for field blanks within the target control limits in the QAPP? Y_X__ N____

Field Reference Materials

Were field Reference Materials or Performance Evaluation Samples submitted as specified in the Sampling & Analysis Plan? Y____ N____ NA

Were the results within the manufacturer's control limits? Y____ N____ NA

Leviathan Mine
Level A/B Screening Checklist

I. General Information

Project: June Monthly (TDS and Sulfate)
Sample Date: 7/2/07
Client/Lab: Water Board / CLS Labs
Sample Matrix: AQ
Sample Location(s): 25, 24, 23, 22, 16, 1, Adit, PUD, CUD, OS, Duplicate at 22

II. Screening Results

Data are:
1) Unusable_____
2) Level A _____
3) Level B ___X___

III. Level A Screening

Criteria	Yes/No
1. Sampling date	Yes – COC/field book
2. Sample team/or leader	Yes – field book
3. Physical description of sample location	Yes - SAP
4. Sample depth (soils)	NA
5. Sample collection technique	Yes - SAP
6. Field preparation technique	Yes - SAP
7. Sample preservation technique	Yes – SAP/COC
8. Sample shipping records	Yes - COC

IV. Level B Screening

Criteria	Yes/No
1. Field instrumentation methods and standardization complete	Yes
2. Sample container preparation	Yes
3. Collection of field replicates (1/20 minimum)	Yes
4. Proper and decontaminated sampling equipment	Yes
5. Field custody documentation	Yes
6. Shipping custody documentation	Yes
7. Traceable sample designation number	Yes
8. Field notebook(s), custody records in secure repository	Yes – Water Board office
9. Completed field forms	Field book

Leviathan Mine
Data Validation
Checklist for Field Quality Control

Site: Leviathan Mine
Project: June Monthly
Sample Dates: 7/2/07
Data Validator: LS

Report No.: CQG0061
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 2/11/08

Laboratory: CLS Labs
Analyses: TDS, Sulfate,

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1. Holding Times

Analyte	Matrix	Method	Collection date	Analysis date	Affected data flagged? (Y/N)
Sulfate	AQ	300.0	7/2/07	7/6,9/07	NA
Total Dissolved Solids	AQ	SM2540C	7/2/07	7/6/07	NA

2. Field QC Samples

Field Blanks

Were field blanks submitted as specified in the Sampling & Analysis Plan? Y_X_ N____
Were any data qualified because of field blank problems? Y____ N_X___

Field Duplicates

Were field duplicates submitted as specified in the Sampling & Analysis Plan? Y_X__ N____
Were any data qualified because of field duplicate results? Y____ N_X__
Were results for field blanks within the target control limits in the QAPP? Y__X_ N____

Field Reference Materials

Were field Reference Materials or Performance Evaluation Samples submitted as specified in the Sampling & Analysis Plan? Y____ N____ NA

Were the results within the manufacturer's control limits? Y____ N____ NA

Leviathan Mine
Level A/B Screening Checklist

I. General Information

Project: June Monthly (Metals)
Sample Date: 7/2/07
Client/Lab: Water Board / CLS Labs
Sample Matrix: AQ
Sample Location(s): 25, 24, 23, 22, 16, 1, Adit, PUD, CUD, OS, Duplicate at 22

II. Screening Results

Data are:
1) Unusable_____
2) Level A _____
3) Level B ___X___

III. Level A Screening

Criteria	Yes/No
1. Sampling date	Yes – COC/field book
2. Sample team/or leader	Yes – field book
3. Physical description of sample location	Yes - SAP
4. Sample depth (soils)	NA
5. Sample collection technique	Yes - SAP
6. Field preparation technique	Yes - SAP
7. Sample preservation technique	Yes – SAP/COC
8. Sample shipping records	Yes - COC

IV. Level B Screening

Criteria	Yes/No
1. Field instrumentation methods and standardization complete	Yes
2. Sample container preparation	Yes
3. Collection of field replicates (1/20 minimum)	Yes
4. Proper and decontaminated sampling equipment	Yes
5. Field custody documentation	Yes
6. Shipping custody documentation	Yes
7. Traceable sample designation number	Yes
8. Field notebook(s), custody records in secure repository	Yes – Water Board office
9. Completed field forms	Field book

Leviathan Mine
Data Validation
Checklist for Field Quality Control

Site: Leviathan Mine
Project: June Monthly
Sample Dates: 7/2/07
Data Validator: LS

Report No.: 7100199
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 2/11/08

Laboratory: Basic Labs
Analyses: Dis. & Total: Al, As, Ca, Cd, Cr, Co, Cu, Fe, Mg, Mn, Ni, Zn

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1. Holding Times

Analyte	Matrix	Method	Collection date	Analysis date	Affected data flagged? (Y/N)
Metals	AQ	6010B	7/2/07	10/16,17,26/07	NA
Metals	AQ	200.8	7/2/07	10/22,23/07; 11/27/07	NA

2. Field QC Samples

Field Blanks

Were field blanks submitted as specified in the Sampling & Analysis Plan? Y_X_ N____
Were any data qualified because of field blank problems? Y____ N_X___

Field Duplicates

Were field duplicates submitted as specified in the Sampling & Analysis Plan? Y_X__ N____
Were any data qualified because of field duplicate results? Y____ N_X__
Were results for field blanks within the target control limits in the QAPP? Y__X_ N____

Field Reference Materials

Were field Reference Materials or Performance Evaluation Samples submitted as specified in the Sampling & Analysis Plan? Y____ N____ NA

Were the results within the manufacturer's control limits? Y____ N____ NA

Leviathan Mine
Level A/B Screening Checklist

I. General Information

Project: July Monthly
Sample Date: 7/23/07
Client/Lab: Water Board / Basic Labs
Sample Matrix: AQ
Sample Location(s): 25, 24, 23, 22, 16, 15, 1, Adit, PUD, CUD, OS, Duplicate at CUD

II. Screening Results

Data are:
1) Unusable_____
2) Level A _____
3) Level B ___X____

III. Level A Screening

Criteria	Yes/No
1. Sampling date	Yes – COC/field book
2. Sample team/or leader	Yes – field book
3. Physical description of sample location	Yes - SAP
4. Sample depth (soils)	NA
5. Sample collection technique	Yes - SAP
6. Field preparation technique	Yes - SAP
7. Sample preservation technique	Yes – SAP/COC
8. Sample shipping records	Yes - COC

IV. Level B Screening

Criteria	Yes/No
1. Field instrumentation methods and standardization complete	Yes
2. Sample container preparation	Yes
3. Collection of field replicates (1/20 minimum)	Yes
4. Proper and decontaminated sampling equipment	Yes
5. Field custody documentation	Yes
6. Shipping custody documentation	Yes
7. Traceable sample designation number	Yes
8. Field notebook(s), custody records in secure repository	Yes – Water Board office
9. Completed field forms	Field book

Leviathan Mine
Data Validation
Checklist for Field Quality Control

Site: Leviathan Mine
Project: July Monthly
Sample Dates: 7/23/07
Data Validator: LS

Report No.: 7070822
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 2/11/08

Laboratory: Basic Labs
Analyses: TDS, Sulfate, Dis. & Total: Al, As, Ca, Cd, Cr, Co, Cu, Fe, Mg, Mn, Ni, Zn

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1. Holding Times

Analyte	Matrix	Method	Collection date	Analysis date	Affected data flagged? (Y/N)
Sulfate	AQ	300.0	7/23/07	7/31/07; 8/1/07	NA
Total Dissolved Solids	AQ	SM2540C	7/23/07	7/28/07	NA
Metals	AQ	6010B	7/23/07	8/2,6,8,21,22/07	NA
Metals	AQ	200.8	7/23/07	8/22/07; 9/13,15/07	NA

2. Field QC Samples

Field Blanks

Were field blanks submitted as specified in the Sampling & Analysis Plan? Y_X_ N____
Were any data qualified because of field blank problems? Y____ N_X___

Field Duplicates

Were field duplicates submitted as specified in the Sampling & Analysis Plan? Y_X__ N____
Were any data qualified because of field duplicate results? Y____ N_X___
Were results for field blanks within the target control limits in the QAPP? Y_X___N____

Field Reference Materials

Were field Reference Materials or Performance Evaluation Samples submitted as specified in the Sampling & Analysis Plan? Y____ N____ NA

Were the results within the manufacturer's control limits? Y____ N____ NA

Leviathan Mine
Level A/B Screening Checklist

I. General Information

Project: August Monthly
Sample Date: 8/29/07
Client/Lab: Water Board / Basic Labs
Sample Matrix: AQ
Sample Location(s): 25, 24, 23, 22, 16, 1, Adit, PUD, CUD, OS, Duplicate at PUD

II. Screening Results

Data are:
1) Unusable_____
2) Level A _____
3) Level B ___X___

III. Level A Screening

Criteria	Yes/No
1. Sampling date	Yes – COC/field book
2. Sample team/or leader	Yes – field book
3. Physical description of sample location	Yes - SAP
4. Sample depth (soils)	NA
5. Sample collection technique	Yes - SAP
6. Field preparation technique	Yes - SAP
7. Sample preservation technique	Yes – SAP/COC
8. Sample shipping records	Yes - COC

IV. Level B Screening

Criteria	Yes/No
1. Field instrumentation methods and standardization complete	Yes
2. Sample container preparation	Yes
3. Collection of field replicates (1/20 minimum)	Yes
4. Proper and decontaminated sampling equipment	Yes
5. Field custody documentation	Yes
6. Shipping custody documentation	Yes
7. Traceable sample designation number	Yes
8. Field notebook(s), custody records in secure repository	Yes – Water Board office
9. Completed field forms	Field book

Leviathan Mine
Data Validation
Checklist for Field Quality Control

Site: Leviathan Mine
Project: August Monthly
Sample Dates: 8/29/07
Data Validator: LS

Report No.: 7081010
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 2/11/08

Laboratory: Basic Labs
Analyses: TDS, Sulfate, Dis. & Total: Al, As, Ca, Cd, Cr, Co, Cu, Fe, Mg, Mn, Ni, Zn

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1. Holding Times

Analyte	Matrix	Method	Collection date	Analysis date	Affected data flagged? (Y/N)
Sulfate	AQ	300.0	8/29/07	9/12/07	NA
Total Dissolved Solids	AQ	SM2540C	8/29/07	8/30/07	NA
Metals	AQ	6010B	8/29/07	9/6,20,21,24/07	NA
Metals	AQ	200.8	8/29/07	10/9/07	NA

2. Field QC Samples

Field Blanks

Were field blanks submitted as specified in the Sampling & Analysis Plan? Y_X_ N____
Were any data qualified because of field blank problems? Y____ N_X___

Field Duplicates

Were field duplicates submitted as specified in the Sampling & Analysis Plan? Y_X__ N____
Were any data qualified because of field duplicate results? Y____ N____
Were results for field blanks within the target control limits in the QAPP? Y____N____

Field Reference Materials

Were field Reference Materials or Performance Evaluation Samples submitted as specified in the Sampling & Analysis Plan? Y____ N____ NA

Were the results within the manufacturer's control limits? Y____ N____ NA

Leviathan Mine
Level A/B Screening Checklist

I. General Information

Project: September Monthly
Sample Date: 9/25/07
Client/Lab: Water Board / Basic Labs
Sample Matrix: AQ
Sample Location(s): 25, 24, 23, 22, 16, 15, 1, Adit, PUD, CUD, OS, Duplicate at 1

II. Screening Results

Data are:
1) Unusable_____
2) Level A _____
3) Level B ___X____

III. Level A Screening

Criteria	Yes/No
1. Sampling date	Yes – COC/field book
2. Sample team/or leader	Yes – field book
3. Physical description of sample location	Yes - SAP
4. Sample depth (soils)	NA
5. Sample collection technique	Yes - SAP
6. Field preparation technique	Yes - SAP
7. Sample preservation technique	Yes – SAP/COC
8. Sample shipping records	Yes - COC

IV. Level B Screening

Criteria	Yes/No
1. Field instrumentation methods and standardization complete	Yes
2. Sample container preparation	Yes
3. Collection of field replicates (1/20 minimum)	Yes
4. Proper and decontaminated sampling equipment	Yes
5. Field custody documentation	Yes
6. Shipping custody documentation	Yes
7. Traceable sample designation number	Yes
8. Field notebook(s), custody records in secure repository	Yes – Water Board office
9. Completed field forms	Field book

Leviathan Mine
Data Validation
Checklist for Field Quality Control

Site: Leviathan Mine
Project: September Monthly
Sample Dates: 9/25/07
Data Validator: LS

Report No.:7090815
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 2/11/08

Laboratory: Basic Labs
Analyses: TDS, Sulfate, Dis. & Total: Al, As, Ca, Cd, Cr, Co, Cu, Fe, Mg, Mn, Ni, Zn

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1. Holding Times

Analyte	Matrix	Method	Collection date	Analysis date	Affected data flagged? (Y/N)
Sulfate	AQ	300.0	9/25/07	10/9,10/07	NA
Total Dissolved Solids	AQ	SM2540C	9/25/07	10/1/07	NA
Metals	AQ	6010B	9/25/07	10/11,15,16/07	NA
Metals	AQ	200.8	9/25/07	10/22,23/07; 11/27/07	NA

2. Field QC Samples

Field Blanks
Were field blanks submitted as specified in the Sampling & Analysis Plan? Y_X_ N____
Were any data qualified because of field blank problems? Y____ N_X___

Field Duplicates
Were field duplicates submitted as specified in the Sampling & Analysis Plan? Y_X__ N____
Were any data qualified because of field duplicate results? Y____ N_X___
Were results for field blanks within the target control limits in the QAPP? Y_X___N____

Field Reference Materials
Were field Reference Materials or Performance Evaluation Samples submitted as specified in the Sampling & Analysis Plan? Y____ N____ NA

Were the results within the manufacturer's control limits? Y____ N____ NA