Data Summary Report

For

Leviathan Mine
Surface Water Monitoring
2005-2006 Water Year

(Appendix B to the Year End Report for the 2006 Field Season)

Prepared by:

California Regional Water Quality Control Board, Lahontan Region

January 2007

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I. Acronyms and Abbreviations

AMD	Acid mine drainage
ARC	Atlantic Richfield Company
CUD	Channel Under-Drain
DSR	Data Summary Report
PQL	Practical Quantitation Limit
PUD	Pit Under-Drain
QA	Quality Assurance
QC	Quality Control
RPD	Relative Percent Difference
SAP	Sampling and Analysis Plan for Leviathan Mine Site Surface Water Monitoring
USGS	United States Geological Survey
USEPA	U.S. Environmental Protection Agency
Water Board	CA Regional Water Quality Control Board, Lahontan Region
Work Plan	Work Plan for 2006 Site Work by the Water Board
Year-End Report	Year-End Report for the 2006 Field Season at Leviathan Mine

II. Introduction

This Data Summary Report (DSR) presents the results of surface water sampling and analysis for the 2005-2006 water-year at the Leviathan Mine Site, as described in the Work Plan for 2006 Site Work (Work Plan) (*Water Board, 2006*) by the California Regional Water Quality Control Board, Lahontan Region (Water Board). The 2005-2006 water-year is the period from October 1, 2005, to September 30, 2006. 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 (SAP) (*Water Board, January 2004*). Overall site objectives and requirements are outlined in the Leviathan Mine Site Site-Wide Sampling and Analysis Plan (*MWH, April 2002*). The following information is included in the DSR:

- Results of field measurements and laboratory analyses,
- Location of sampling stations,
- Flow monitoring results, and
- Data Validation Checklist for Field QC and Level A/B Screening Checklists.

The SAP, field notebook, and monitoring program records for this project are located at the Water Board offices in South Lake Tahoe, California, and are available for review.

a. Investigation Site Description

Leviathan Mine is located in Alpine County, California, approximately six miles east of Markleeville, California and five miles west of Topaz Lake, Nevada, as shown in Figure 1. The site is an inactive sulfur mine that the State of California acquired in the early 1980s in order to improve water quality problems caused by historic mining. In May 2000, the United States Environmental Protection Agency (USEPA) placed Leviathan Mine on the Comprehensive Environmental Response, Compensation, and Liability Act, National Priorities List, thus making Leviathan a federal Superfund site. USEPA identified the State of California and Atlantic Richfield Company (ARC) as Potentially Responsible Parties at the site.

Leviathan and Aspen creeks flow across the mine site and Aspen Creek joins Leviathan just below the mine. Approximately 1.5 miles downstream of the confluence of Leviathan and Aspen creeks, Leviathan Creek joins Mountaineer Creek. The combined flow of Leviathan and Mountaineer creeks forms Bryant Creek. Approximately 3.5 miles downstream of the confluence of Leviathan and Mountaineer creeks, Bryant Creek flows across the Nevada state line. Approximately 1.8 miles downstream of the Nevada state line there exists an irrigation structure that enables the diversion of water from Bryant Creek to an irrigation ditch. The irrigation ditch is used seasonally to divert flow from Bryant Creek to the River Ranch property, owned by Park Cattle Company. Doud Springs joins Bryant Creek just upstream of the irrigation diversion. From the irrigation diversion, the natural course of Bryant Creek continues to the northwest, and approximately 1.5 miles downstream from the irrigation diversion, Bryant Creek joins the East Fork of the Carson River. Additional information on Leviathan Mine can be found in the Water Board's Year-End Report for the 2006 Field Season at Leviathan Mine.

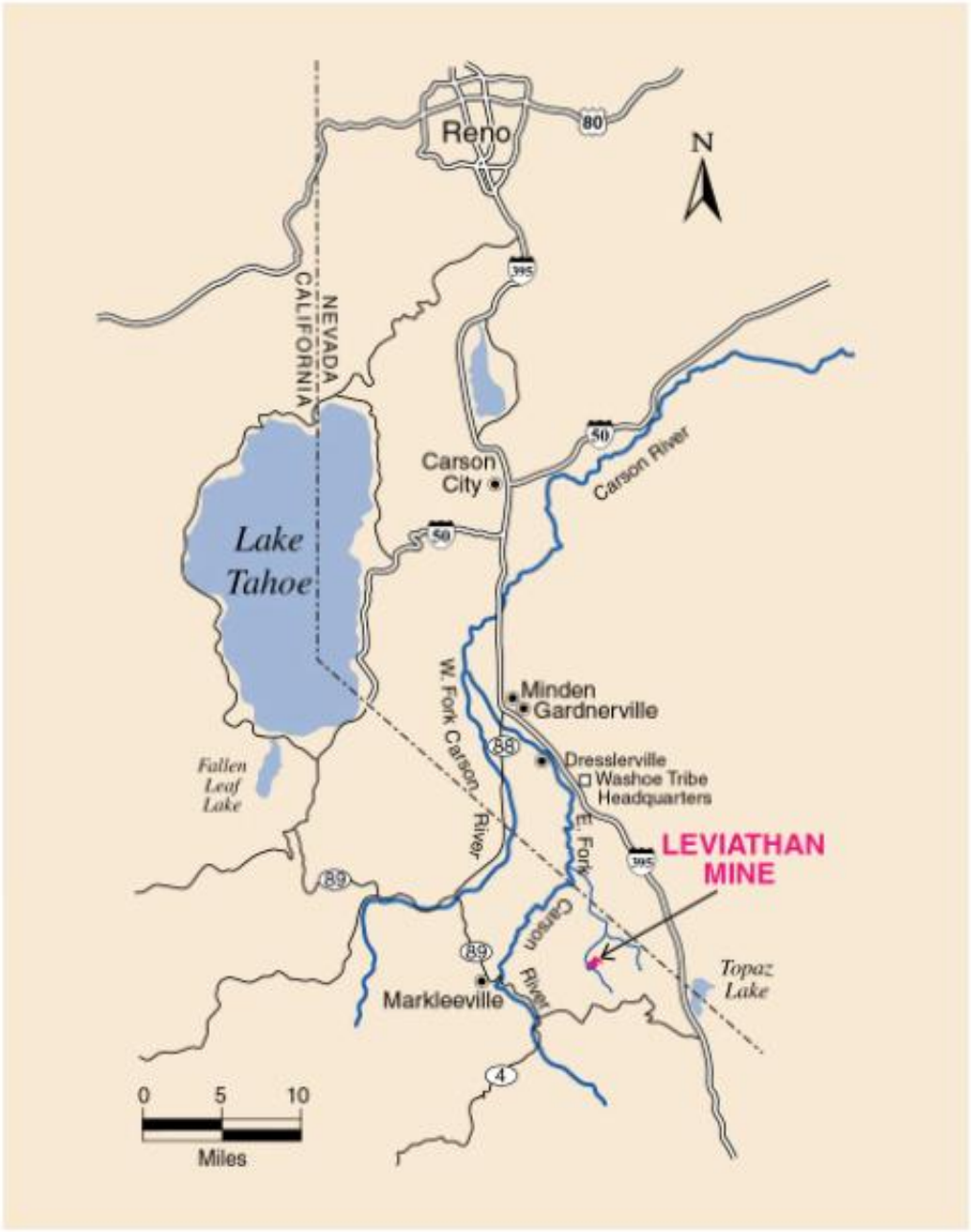

FIGURE 1
SITE LOCATION

b. Investigation Objectives

The overall objective of the surface water monitoring program is to characterize and track changes in surface water quality and pollutant loading in the Leviathan Creek watershed. Samples are collected at various locations at Leviathan Mine as well as in the surrounding watersheds. Specific objectives outlined in the Work Plan are as follows:

- To continue monitoring surface water quality at eleven stations on a monthly basis and three stations on a semi-annual basis.
- To continue monitoring surface water and acid mine drainage flow rates.

The results of this investigation supplement the existing data contained within the Leviathan Mine database that is maintained by ARC. All data presented in this report were forwarded to ARC for incorporation into the Site-wide database. The Water Board, ARC, USEPA, and other trustee groups and agencies will use the data collected to evaluate site conditions and make decisions about future remedial actions.

III. Data Summary

a. Data Quality Objectives

The data quality objectives of the surface water monitoring program, as outlined in the SAP, were as follows:

- Identify the chemical characteristics of the various surface waters in the vicinity of Leviathan Mine, including acid mine drainage (AMD) and creek waters.
- Monitor flows of AMD discharges and flow in selected creeks.
- Track the impacts of remediation projects on downstream surface waters.
- Identify seasonal and annual variations in the chemical characteristics and field parameters of surface waters in the vicinity of Leviathan Mine.
- Calculate the loading of metals to the downstream surface waters from the various discharges at Leviathan Mine.

An evaluation of the completeness of the required field collection shows that 138 samples were to be collected during the water-year (eleven stations sampled monthly and three stations sampled twice). In total, 137 of the required 138 were collected, resulting in a completeness of 99%. The Overburden Seep was not sampled in December due to limited site access from icy

road conditions. All other stations were sampled as scheduled and an additional sample was collected at the Delta Slope Under-drain.

b. Sampling and Analysis Summary

Table 1, Surface Water Sampling Stations, summarizes all of the surface water stations sampled this year, including their name, a description of their locations, frequency of sampling, and the parameters they were analyzed for. There are eleven sites that are sampled monthly and three sites that are sampled semi-annually, in the spring and fall. Additional sampling occurred this year at one other location in the mine area, the Delta Slope Under-drain. Figure 2, Surface Water Monitoring Locations, shows the locations of the monthly and semi-annual sampling locations. The Delta Slope Under-drain outflow is located just above the Delta Seep and flows into the Delta Seep. This under-drain was installed during the Delta Slope Stabilization Project to dewater and help stabilize the failing slope above the Delta Seep.

Samples were collected in the field using a peristaltic pump, disposable tubing, and if required, a disposable 0.45-micron filter. Samples for dissolved metals, Total Dissolved Solids (TDS), and Sulfate were field filtered through a 0.45-micron filter. Metals samples were collected for total and dissolved: Aluminum, Arsenic, Calcium, Cadmium, Chromium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, and Zinc. Water Board staff collected metals samples in bottles pre-preserved with nitric acid by the contract laboratory. A duplicate sample and a field method blank were collected for each sampling event detailed in DSR. Detailed sample collection and handling procedures and QA/QC protocols are described in the SAP.

Due to a change in contracted laboratories, three separate laboratories analyzed samples collected by the Water Board during this water-year. ACZ Laboratories located in Steamboat Springs, CO analyzed all samples collected in October 2005, November 2005, and December 2005, and the TDS and Sulfate samples collected in January 2006. California Laboratory Services in Sacramento, CA analyzed TDS and Sulfate samples collected in February 2006. Weck Laboratories in Industry, California analyzed metals samples collected in January 2006 and February 2006, and all samples collected from March 2006 to September 2006.

The analytical results of the sampling along with any qualifiers are presented in Attachment B. The tables also show the field data results collected by Water Board staff, including pH, temperature, electrical conductivity, and specific conductance.

Table 1. Surface Water Sampling Stations

Water Board Station ID	Site Description	Sampling Frequency	Parameters Measured
Station 1	Leviathan Creek above Leviathan Mine.	Monthly	Total and Dissolved Metals for Al, As, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Ni, Zn; Total Dissolved Solids (TDS); Sulfate; field: pH, temperature, electrical conductivity, and specific conductance.
Adit	Drainage from Tunnel #5 (the Adit), prior to entering evaporation ponds.	Monthly	Same as above.
Pit Under - Drain (PUD)	Drainage from shallow ground water collection pipes in pit, prior to entering evaporation ponds.	Monthly	Same as above.
Channel Under-Drain (CUD)	Discharge from Channel Under-Drain below Leviathan Creek concrete channel.	Monthly	Same as above.
Delta Seep (DS)	Seepage from the toe of the Delta Slope, located north of Pond 4.	Semi-annually	Same as above.
Station 15	Leviathan Creek, above the confluence of Leviathan and Aspen creeks.	Monthly	Same as above.
Station 16	Aspen Creek, above the confluence of Leviathan and Aspen creeks.	Monthly	Same as above.
Station 4L	4L Creek, just above the confluence of Leviathan Creek.	Semi-annually	Same as above.
Station 22	Aspen Creek above Leviathan Mine.	Monthly	Same as above.
Overburden Seep (OS)	Overburden seepage (a.k.a. Aspen Seep), above the bioreactors.	Monthly	Same as above.
Station 23	Leviathan Creek above the confluence of Leviathan and Mountaineer creeks.	Monthly	Same as above.
Station 24	Mountaineer above the confluence of Leviathan and Mountaineer creeks.	Monthly	Same as above.
Station 25	Bryant Creek below the confluence of Leviathan and Mountaineer creeks.	Monthly	Same as above.
Station 26	Bryant Creek above the confluence of Doud Springs and Bryant Creek.	Semi-annually	Same as above.
Delta Slope Under-drain	Installed as part of the Delta Slope stabilization project, dewaters portions of the slope above the Delta Seep.	Intermittent	Same as above.

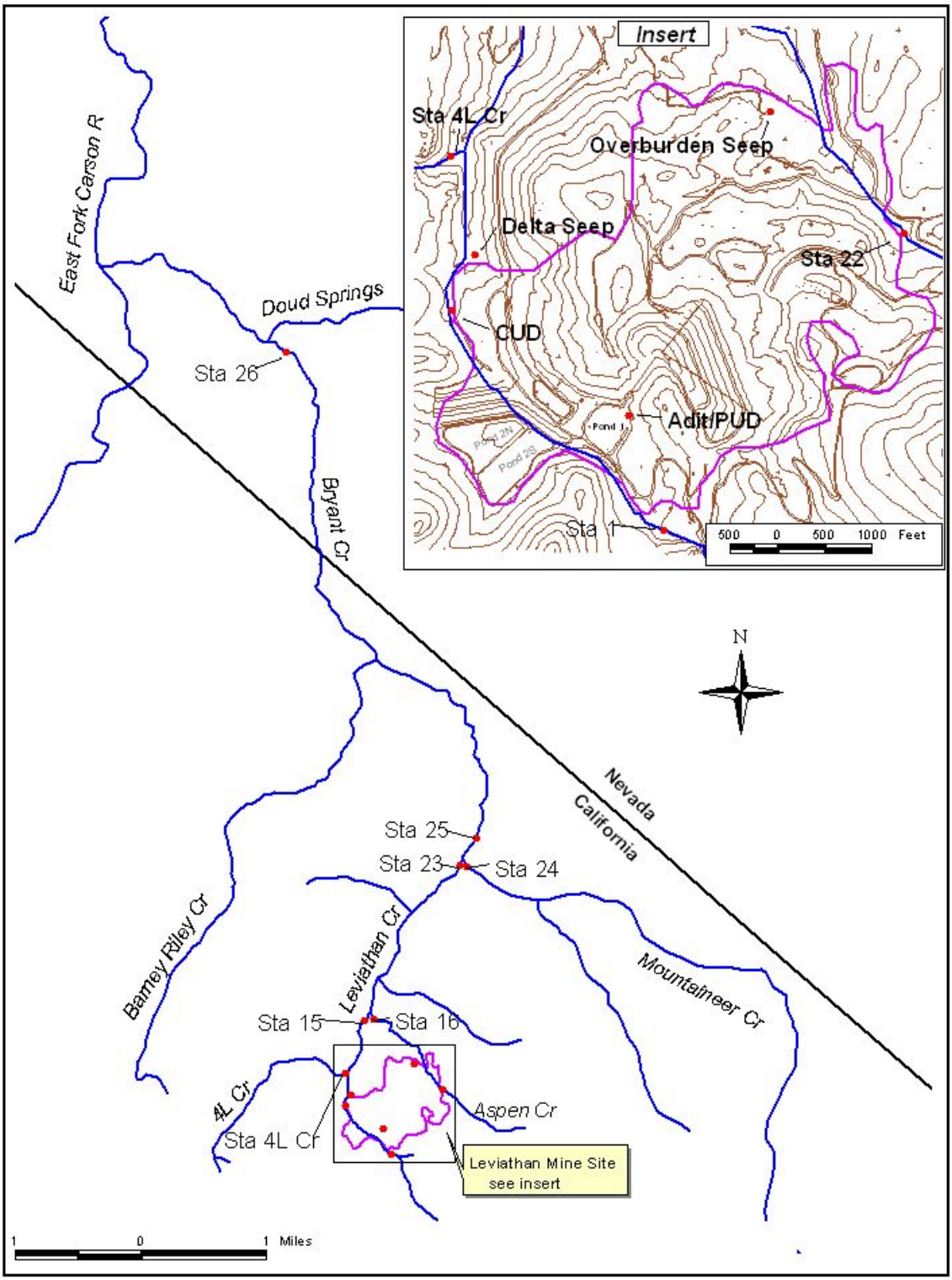

Figure 2 Surface Water Monitoring Locations

c. USGS Flow Data

Under contract to the Water Board, the United States Geological Survey (USGS) conducted flow monitoring at Leviathan Mine. Attachment A contains the flow monitoring results collected by the USGS. Included in Attachment A are the daily and monthly average flow data for 11 stations with continuous flow recorders and daily and monthly average stage data for water levels in Pond 1 and Pond 4. Table 2, Flow Monitoring Locations, gives details on the various flow monitoring stations. Flow from the Channel Under-Drain (CUD) was directed into the ARC treatment system beginning in mid July 2006 and continuing until October 10, 2006. Many of the sites around the mine showed increased flows due to above average precipitation. The PUD flows showed significant increases compared to previous records. The USGS submits the flow data directly to ARC for incorporation into the Leviathan Mine database.

d. Data Quality Evaluation

ACZ Laboratories and Weck Laboratories completed Data Validation Checklists for all reports. They are not included in this report but are available for viewing at the Water Board. Attachment C contains the Data Validation Checklists for Field QC and Level A/B Screening Checklists completed by Water Board staff for each sampling event. Data were assessed to confirm that holding times were met and that field quality control samples were collected. Any exceedences of method hold times are denoted with an "H" qualifier on the data tables

Water Board staff collected a field duplicate for each monthly and semi-annual sampling event. The location of the duplicate sample was rotated each month. The Relative Percent Difference (RPD) was calculated for the duplicate and corresponding sample. If both the sample and duplicate values were greater than or equal to five times the Practical Quantitation Limit (PQL), then the RPD must be less than or equal to 25% to be in control limits. If either the sample or duplicate value was less than five times the PQL, then the absolute difference between the sample and duplicate values had to be less than the PQL to be in control limits. Results that were out of control limits were flagged with "*" qualifier on the data tables in Attachment B. Out of the total number of results presented in this report, five sets of sample and duplicate results were flagged for exceeding the control limits for RPD.

Field Method Blanks (FMBs) were also collected once per sampling event and submitted for the same analyses as other samples. FMBs were collecting and processing distilled deionized water in the same method as effluent samples. No data were qualified based on FMB results.

Table 2. Flow Monitoring Locations

STATION LOCATION/DESCRIPTION	EQUIPMENT	USGS STARTUP DATE
Leviathan Creek above the mine **(Station 1)**	Continuous flow recorder and appurtenances, solar power supply.	October 98
Pit Under-Drain at the flow control structure **(PUD)**	Continuous flow recorder and appurtenances, solar power supply, telemetry.	October 99
Adit at the flow control Structure **(Adit)**	Continuous flow recorder and appurtenances, solar power supply, telemetry.	October 99
Pond 1 Stage	Continuous stage recorder and appurtenances, solar power supply, telemetry.	October 99
Pond 4 Stage	Continuous stage recorder and appurtenances, solar power supply, telemetry.	October 99
Channel Under-Drain **(CUD)**	Continuous flow recorder and appurtenances, solar power supply, telemetry.	October 99
Aspen Creek above the mine **(Station 22)**	Continuous flow recorder and appurtenances, solar power supply.	October 03
4L Creek above its confluence with Leviathan Creek **(4L Creek)**	Continuous flow recorder and appurtenances, solar power supply.	October 03
Leviathan Creek above its confluence with Aspen Creek **(Station 15)**	Continuous flow recorder and appurtenances, solar power supply, telemetry.	October 98
Aspen Creek above its confluence with Leviathan Creek **(Station 16)**	None. Monthly flow measurements to establish relationship w/STA 15.	October 98
Overburden (Aspen) Seep, above the Bioreactors **(OS)**	Continuous flow recorder and appurtenances, solar power supply.	October 98
Bryant Creek just below the confluence of Mountaineer and Leviathan Creeks **(Station 25)**	Continuous flow recorder and appurtenances, solar power supply.	October 98
Leviathan Creek just above the confluence of Mountaineer and Leviathan Creeks **(Station 23)**	Continuous flow recorder and appurtenances, solar power supply	November 99
Mountaineer Creek just above the confluence of Leviathan and Mountaineer Creeks **(Station 24)**	None. Monthly flow measurements to establish relationship w/STA 23.	December 99
Bryant Creek just above confluence with Doud Springs **(Station 26)**	Continuous flow recorder and appurtenances, solar power supply	August 01

IV. Deviations from the SAP

Deviations from the SAP were noted during the initial data review including the use of methods other than those specified in the SAP. The SAP specifies the use of USEPA Method 300.0 for quantifying sulfate by ion chromatography. ACZ Labs prefers to use Method 375.3, which is a gravimetric method for sulfate. When discussing the use of this method with ACZ Labs, they stated that this method produces more accurate results when there are high concentrations of sulfate present. The use of this method is appropriate for many of the sampling stations but results in a PQL that is too high for some of the cleaner, non-mine impacted stations. Recent discussions with ACZ Labs on this subject lead to the decision to use Method 300.0 for the non-mine impacted stations and Method 375.3 for other stations. Method 375.3 will be added to the table of methods in the SAP.

The methods detailed in the SAP for metals analysis are 6010 and 6020, though Weck Labs is using Methods 200.7 and 200.8 for metals analysis. These are essentially equivalent methods that were developed by different branches of EPA but produce similar results and are run on the same instrumentation (ICP and ICP-MS). Methods 200.7 and 200.8 will be added to the table of methods in the SAP.

V. References

California Regional Water Quality Control Board, Lahontan Region. January 2004. Sampling and Analysis Plan for Leviathan Mine Site Surface Water Monitoring.

California Regional Water Quality Control Board, Lahontan Region. 2006. Work Plan for 2006 Site Work by the California Regional Water Quality Control Board, Lahontan Region.

MWH (Montgomery Watson Harza). April 2002. Leviathan Mine Site, Site-Wide Sampling and Analysis Plan.

Attachment A

United States Geological Survey
Flow Monitoring Results

2005-2006 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 COUN

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

Date Processed: 2007-01-02 10:43 By glrock

Lowest aging status in period is APPROVED

DD #4

Discharge, gallons per minute

WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.027	13.425	13.422	15.002	17.328	18.544	20.646	39.69	28.317	23.642	20.235	18.325
2	14.278	13.456	13.606	14.926	17.303	18.527	20.205	40.628	28.186	23.641	20.135	18.218
3	14.308	13.529	13.628	14.897	17.54	18.844	20.236	41.3	27.697	23.724	19.991	18.341
4	14.382	13.496	13.672	14.83	17.634	18.823	20.708	42.303	27.517	23.621	20.016	18.051
5	14.537	13.545	13.635	14.891	17.829	18.707	21.349	41.947	27.072	23.483	19.795	18.054
6	14.197	13.366	13.606	14.979	17.715	18.88	21.402	41.846	26.976	22.656	19.894	17.998
7	13.968	13.38	13.465	14.995	17.815	19.118	21.953	42.161	26.749	22.381	19.777	18.09
8	13.99	13.298	13.244	15.135	17.963	19.305	22.26	42.115	26.629	22.494	19.663	18.063
9	13.857	13.406	13.366	15.252	17.822	19.696	22.543	41.52	26.635	22.443	19.547	18.023
10	13.894	13.451	13.406	15.345	17.788	19.636	22.808	40.714	26.507	22.148	19.416	18.104
11	13.53	13.385	13.465	15.138	17.855	19.622	22.858	39.971	26.25	22.081	19.558	18.05
12	13.598	13.421	13.33	15.473	17.956	19.536	23.172	39.457	26.053	21.916	19.467	17.916
13	13.85	13.204	13.246	15.653	18.063	19.623	23.67	39.055	26.36	21.764	19.406	18.01
14	13.669	13.271	13.468	15.938	18.038	19.741	24.706	37.985	26.177	21.563	19.363	18.24
15	13.798	13.418	13.598	16.101	18.403	19.86	25.121	37.308	25.639	21.411	19.392	18.358
16	13.746	13.533	13.539	15.99	18.401	20.045	26.191	36.686	25.362	21.146	19.265	18.224
17	13.746	13.498	13.277	16.307	18.427	20.158	26.633	35.939	25.057	21.061	19.262	18.104
18	13.643	13.508	13.085	16.55	18.346	20.406	27.516	35.224	24.981	21.149	19.149	17.783
19	13.57	13.535	12.883	16.656	18.251	20.545	28.057	34.92	24.863	20.711	19.161	17.898
20	13.584	13.471	12.64	16.6	18.319	20.584	28.697	34.511	24.665	20.716	18.96	17.889
21	13.539	13.452	12.818	16.694	18.268	20.391	29.648	34.336	24.52	20.2	18.963	17.488
22	13.385	13.57	12.644	16.9	18.144	20.313	30.366	33.713	24.295	19.798	18.778	17.192
23	13.231	13.33	12.75	17.141	18.023	20.36	31.307	32.985	24.488	19.709	18.716	17.1
24	13.408	13.206	12.863	17.288	18.016	20.344	32.154	32.45	24.206	19.686	18.916	17.025
25	13.527	13.204	12.778	17.249	18.05	20.755	33.156	31.883	24.293	19.887	18.864	16.9
26	13.643	13.592	13.167	17.225	17.823	20.723	34.248	31.76	24.311	20.431	18.799	16.837
27	13.658	13.813	13.135	17.393	18.11	20.692	34.992	31.904	24.12	20.341	18.617	16.775
28	13.554	13.731	13.028	17.36	18.292	21.035	35.799	31.352	24.264	20.274	18.567	17.067
29	13.495	13.286	13.337	17.15	---	20.909	37.211	30.628	23.813	20.128	18.595	17.408
30	13.601	13.194	13.037	17.394	---	20.684	38.398	29.904	23.805	20.354	18.447	17.309
31	13.342	---	13.95	17.433	---	20.778	---	29.173	---	20.416	18.423	---
TOTAL	426.555	402.974	411.088	499.885	503.522	617.184	808.01	1135.368	769.807	664.975	597.137	532.84
MEAN	13.76	13.432	13.261	16.125	17.983	19.909	26.934	36.625	25.66	21.451	19.262	17.761
MAX	14.537	13.813	13.95	17.433	18.427	21.035	38.398	42.303	28.317	23.724	20.235	18.358
MIN	13.231	13.194	12.64	14.83	17.303	18.527	20.205	29.173	23.805	19.686	18.423	16.775

2005-2006 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 COUNT

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

Date Processed: 2007-01-02 10:43 By glrock

Lowest aging status in period is APPROVED

DD #4

Discharge, gallons per minute

WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.526	0.321	0.376	5.146	7.974	10.605	13.841	37.855	20.006	11.25	6.599	3.207
2	0.538	0.41	0.427	4.872	8.113	10.899	14.384	37.653	19.709	11.089	6.465	3.105
3	0.459	0.406	0.461	4.424	8.261	10.955	15.331	37.586	19.308	10.784	6.426	2.986
4	0.374	0.412	0.438	4.256	8.553	10.371	18.263	37.166	18.897	10.192	6.396	2.838
5	0.365	0.417	0.423	4.607	8.391	10.677	18.669	36.887	18.573	10.456	6.367	2.132
6	0.386	0.414	0.415	5.115	8.309	10.894	18.921	36.437	18.725	10.08	6.245	1.866
7	0.408	0.409	0.421	5.248	8.546	10.993	20.989	35.988	18.57	9.877	6.167	2.096
8	0.417	0.397	0.414	5.175	8.732	10.973	22.392	35.838	18.533	9.798	5.95	2.146
9	0.308	0.395	0.392	5.358	8.837	12.237	24.439	35.224	17.871	9.843	5.907	2.065
10	0.296	0.414	0.4	5.694	8.665	12.48	25.503	34.591	16.955	9.664	5.92	2.027
11	0.304	0.409	0.409	5.991	8.641	12.25	25.747	34.224	16.866	9.389	5.872	e2.027
12	0.263	0.386	0.404	6.189	8.775	11.409	26.695	33.708	16.3	8.934	5.766	e2.000
13	0.252	0.38	0.395	6.627	9.317	11.662	28.433	32.794	15.446	8.564	5.485	e1.950
14	0.303	0.398	0.402	7.624	10.107	12.312	30.51	31.948	15.226	8.487	5.258	e1.900
15	0.403	0.395	0.421	7.288	9.848	12.031	30.841	31.43	14.998	8.351	5.176	e1.850
16	0.28	0.397	0.415	7.279	9.644	12.483	31.874	30.622	14.051	8.128	5.138	e1.800
17	0.272	0.394	0.411	7.936	9.811	12.888	30.816	30.204	13.816	8.072	5.076	1.769
18	0.328	0.393	0.371	8.459	9.476	12.922	30.603	29.804	13.803	8.127	5.034	1.815
19	0.256	0.39	0.357	8.056	9.117	12.999	31.271	29.468	13.76	7.733	4.991	e1.800
20	0.25	0.396	0.365	8.081	8.927	13.186	31.496	28.422	13.525	7.307	4.927	1.755
21	0.25	0.4	0.396	8.134	8.761	12.252	32.202	28.168	12.895	7.18	4.761	e1.700
22	0.25	0.402	0.609	7.704	8.675	11.848	32.657	26.857	12.486	7.122	4.671	e1.550
23	0.25	0.396	0.764	7.942	8.684	12.292	33.203	24.518	12.474	7.063	4.732	e1.400
24	0.25	0.393	0.653	8.319	8.727	12.662	33.222	23.881	12.284	7.368	4.75	1.287
25	0.252	0.407	0.647	8.436	8.536	13.614	34.418	24.046	12.158	7.452	4.717	1.213
26	0.28	0.399	0.655	8.178	8.931	12.72	35.41	24.402	12.259	7.622	4.415	e1.213
27	0.31	0.4	0.598	7.986	9.642	13.569	35.782	23.122	11.924	7.554	4.116	1.182
28	0.258	0.391	0.769	7.997	10.732	14.065	37.157	21.319	11.463	7.013	4.315	1.2
29	0.25	0.391	0.915	7.704	---	13.667	37.964	20.533	11.273	6.995	4.358	1.2
30	0.25	0.374	0.823	8.154	---	13.714	38.208	20.27	11.273	6.934	4.041	1.327
31	0.25	---	4.6	7.92	---	14.166	---	20.224	---	7.128	3.36	---
TOTAL	9.838	11.886	19.546	211.899	250.732	379.795	841.241	935.189	455.427	265.556	163.401	56.406
MEAN	0.317	0.396	0.631	6.835	8.955	12.251	28.041	30.167	15.181	8.566	5.271	1.88
MAX	0.538	0.417	4.6	8.459	10.732	14.166	38.208	37.855	20.006	11.25	6.599	3.207
MIN	0.25	0.321	0.357	4.256	7.974	10.371	13.841	20.224	11.273	6.934	3.36	1.182

e Estimated

2005-2006 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 COU

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

Date Processed: 2007-01-02 10:44 By glrock

Lowest aging status in period is APPROVED

DD #4

Discharge, gallons per minute

WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e11.150	10.693	14.862	15.515	13.435	14.7	e16.100	26.328	21.46	19.817	14.361	14.385
2	e11.150	10.308	11.608	14.232	13.823	14.539	e16.200	25.961	21.791	19.756	13.97	14.407
3	11.164	9.864	8.992	12.854	13.121	14.567	e16.800	25.285	21.525	19.595	13.934	14.395
4	10.989	9.651	8.699	12.298	13.21	14.509	e17.500	24.895	21.466	19.658	14.114	14.426
5	10.936	9.296	8.614	12.031	12.565	14.809	e17.789	24.544	21.486	19.653	14.059	13.957
6	10.952	9.811	8.491	12.169	12.425	14.804	e17.869	24.397	21.325	19.556	13.839	13.011
7	11.18	10.619	8.54	11.986	12.402	14.67	17.87	24.196	21.19	19.288	13.813	13.171
8	11.089	10.488	8.423	11.622	12.299	14.777	18.24	24.169	21.152	19.342	14.562	12.97
9	10.925	10.308	8.38	11.504	12.348	15.008	18.601	23.885	21.042	19.139	13.645	12.745
10	11.018	10.079	8.307	11.731	12.316	14.901	19.242	23.785	21.023	18.567	13.474	12.669
11	11.08	9.858	8.308	12.175	12.29	14.619	19.6	23.659	20.964	18.12	13.851	12.634
12	10.933	9.653	8.295	12.097	12.369	14.605	20.221	23.741	20.939	17.949	13.836	12.592
13	10.901	9.72	8.234	12.657	12.454	14.692	20.852	23.511	20.999	17.603	14.041	e12.550
14	10.952	9.563	8.128	12.696	12.575	14.851	23.028	23.359	20.78	17.356	14.037	e12.550
15	11.123	9.296	8.094	12.478	12.245	14.922	23.976	23.294	20.863	16.983	14.226	e12.550
16	10.882	9.167	8.105	12.354	12.306	14.958	25.694	23.474	20.552	16.81	14.547	e12.550
17	10.927	9.032	8.097	12.627	12.146	14.936	25.394	23.334	20.385	16.715	14.324	e12.550
18	11.076	8.906	8.934	12.809	12.345	15.025	24.683	23.013	20.246	16.669	14.206	e12.550
19	10.86	8.903	8.82	12.552	12.189	14.949	24.697	23.089	20.298	16.245	14.325	e12.550
20	10.764	8.913	8.696	12.437	12.173	15.007	24.665	22.885	20.305	17.088	14.425	e12.550
21	10.82	8.854	10.884	12.49	12.107	14.996	25.621	23.498	20.242	16.123	14.229	e12.550
22	10.872	8.765	12.812	12.463	12.115	14.947	e26.068	22.988	20.071	15.675	14.214	e12.550
23	10.935	8.817	9.891	12.441	12.193	e15.000	e26.830	22.415	20.201	15.442	14.265	e12.550
24	11.165	8.891	9.279	12.527	12.594	e15.000	e27.560	22.197	20.006	15.329	14.218	e12.550
25	11.288	9.416	9.396	12.698	12.809	e15.000	e27.725	22.427	19.985	14.936	14.444	e12.550
26	11.206	8.623	9.179	12.645	13.288	e15.100	e27.747	22.343	20.049	14.903	14.433	e12.550
27	11.398	8.467	10.096	12.544	14.169	e15.100	e27.758	22.414	20.107	14.669	14.324	e12.550
28	11.197	8.702	10.86	12.573	15.029	e15.400	e27.736	21.968	20.408	14.674	14.219	e12.550
29	10.98	9.278	9.28	12.917	---	15.68	27.662	21.709	20.043	14.509	14.357	e12.550
30	10.782	8.931	17.185	13.33	---	15.766	27.078	21.502	19.976	14.41	14.341	e12.550
31	10.866	---	142.82	13.003	---	e15.900	---	21.37	---	14.376	14.579	---
TOTAL	341.56	282.872	430.309	390.455	355.34	463.737	680.806	725.635	620.879	530.955	439.212	387.262
MEAN	11.018	9.429	13.881	12.595	12.691	14.959	22.694	23.408	20.696	17.128	14.168	12.909
MAX	11.398	10.693	142.82	15.515	15.029	15.9	27.758	26.328	21.791	19.817	14.579	14.426
MIN	10.764	8.467	8.094	11.504	12.107	14.509	16.1	21.37	19.976	14.376	13.474	12.55

e Estimated

2005-2006 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 SOURCE AGENCY USGS STATE 06 COU

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

Date Processed: 2007-01-19 14:26 By glrock

Lowest aging status in period is WORKING

DD #3

Discharge, gallons per minute

WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e10.142	20.907	17.413	33.61	29.621	36.411	28.855	38.463	40.247	42.367	---	3.28
2	22.825	20.533	17.487	30.865	29.877	36.44	28.881	37.49	40.054	42.287	---	56.738
3	22.814	19.902	22.311	28.846	29.34	36.47	28.9	37.227	40.425	42.061	---	5.295
4	23.313	19.666	29.335	28.406	30.261	36.145	30.277	35.364	40.297	42.043	---	6.214
5	23.434	19.752	19.233	28.392	30.304	36.176	32.801	37.337	40.473	42.043	---	1.307
6	24.59	19.516	18.478	28.953	30.297	36.352	30.058	36.495	40.678	36.167	---	0
7	24.182	19.431	20.255	29.26	30.409	36.145	28.673	35.6	40.279	40.262	0	0
8	23.786	19.431	21.759	29.888	27.982	35.644	29.207	36.241	40.02	38.382	0	0
9	23.81	19.349	22.553	30.515	28.056	35.02	29.649	36.158	40.022	39.795	37.956	0
10	22.854	19.238	21.645	30.568	28.543	33.668	30.114	36.308	40.444	40.319	36.236	0
11	21.987	19.359	21.421	30.835	28.798	33.367	31.043	36.765	40.088	---	35.54	0
12	23.508	19.389	21.1	30.675	29.687	33.363	32.627	37.15	40.486	---	0	0
13	23.906	19.409	20.95	30.862	29.874	34.053	33.007	37.366	40.195	---	0	35.889
14	98.035	19.248	19.634	30.942	31.518	35.892	33.526	37.583	42.074	---	0	33.317
15	157.57	18.856	18.836	30.942	33.61	35.381	33.759	37.227	41.474	---	0	31.535
16	74.063	19.077	17.477	30.942	31.546	33.751	34.007	37.043	41.315	---	0	30.872
17	25.203	19.007	17.477	30.97	30.942	33.717	35.305	37.088	43.156	---	0	30.923
18	22.859	19.047	21.693	31.027	31.209	33.586	e35.850	37.799	41.587	---	0	21.131
19	22.212	19.128	27.695	30.942	33.498	33.809	e36.302	37.428	40.694	---	42.287	0
20	22.054	19.198	24.948	30.942	30.859	32.949	36.831	37.847	40.916	---	40.473	0
21	21.94	18.896	26.128	33.138	26.352	32.732	38.866	37.134	40.616	---	39.605	0
22	22.031	18.805	22.873	30.975	27.213	32.709	39.632	36.964	42.092	---	39.835	0
23	22.076	18.493	23.347	31.167	35.37	33.67	40.052	38.286	42.547	---	37.02	0
24	21.645	18.614	23.642	30.641	40.177	33.684	40.991	38.61	42.481	---	0	0
25	21.335	18.252	23.882	30.195	38.465	33.957	40.318	63.574	42.452	---	4.211	0
26	21.399	17.477	24.83	30.37	33.115	33.895	41.281	54.354	42.447	---	3.843	0
27	20.961	17.477	25.454	30.381	33.582	31.835	40.565	47.016	42.447	---	3.921	0
28	20.458	17.478	25.826	30.088	35.423	28.602	40.431	48.227	42.286	---	4.393	0
29	20.479	17.459	24.962	30.622	---	27.86	42.984	48.454	42.483	---	3.873	0
30	20.336	17.497	26.686	30.515	---	27.937	40.85	47.125	42.334	---	3.273	0
31	20.768	---	30.204	31.413	---	28.848	---	40.237	---	---	3.303	---
TOTAL	946.575	569.891	699.534	947.887	875.928	1044.068	1045.642	1239.96	1237.109	---	---	256.501
MEAN	30.535	18.996	22.566	30.577	31.283	33.68	34.855	39.999	41.237	---	---	8.55
MAX	157.57	20.907	30.204	33.61	40.177	36.47	42.984	63.574	43.156	---	---	56.738
MIN	10.142	17.459	17.413	28.392	26.352	27.86	28.673	35.364	40.02	---	---	0

e Estimated

2005-2006 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: 2007-01-02 10:43 By glrock

Lowest aging status in period is APPROVED

DD #2

Discharge, cubic feet per second

WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.06	0.08	0.38	2.6	0.25	1.6	0.72	17	1.3	0.35	0.08	e0.04
2	0.06	0.08	e0.20	1.2	0.32	1.1	0.73	15	1.3	0.31	0.07	e0.03
3	0.07	0.08	e0.10	0.99	0.3	1.2	2.1	12	1.3	0.28	0.07	e0.04
4	0.07	0.09	e0.07	0.88	0.35	1	2.8	8.9	1.1	0.24	0.08	e0.03
5	0.08	0.09	e0.07	0.76	0.35	0.89	2.2	8.3	1.2	0.27	0.14	e0.04
6	0.08	0.08	e0.07	0.78	0.38	0.87	2	8.5	0.99	0.31	0.13	e0.04
7	0.07	0.09	e0.07	0.84	0.37	0.78	3	7.9	1.1	0.25	0.08	0.06
8	0.07	0.09	e0.07	e0.63	0.35	0.81	3.2	8.8	0.98	0.25	0.07	0.05
9	0.07	e0.09	0.08	e0.56	0.32	0.79	4.4	7.8	0.87	e0.22	0.06	0.05
10	0.08	e0.09	0.07	e0.42	0.35	0.79	4.1	8.6	0.83	e0.20	0.07	0.06
11	0.07	0.09	0.07	e0.40	0.38	0.74	3.1	8.3	0.91	0.17	e0.07	0.06
12	0.07	0.08	0.07	e0.38	0.42	0.75	3.7	7.8	0.82	0.15	0.08	0.07
13	0.07	e0.09	0.07	e0.38	0.45	0.81	5.4	8.9	0.82	0.14	0.09	0.06
14	0.07	e0.09	0.09	e0.38	0.49	0.81	5.6	6.7	0.79	0.19	e0.09	0.05
15	0.08	0.09	e0.07	e0.38	0.45	0.78	5.6	6.3	0.7	0.13	0.07	0.05
16	0.08	e0.09	e0.07	e0.31	0.7	0.62	5.2	6	0.8	0.12	e0.06	0.04
17	0.08	0.09	e0.14	e0.29	0.4	e0.40	5	4.9	0.77	0.11	e0.06	0.05
18	0.08	e0.09	0.13	e0.28	0.35	e0.30	3.7	5.1	0.56	0.1	e0.06	0.04
19	0.08	0.09	0.06	e0.28	0.31	e0.21	4.4	4.5	0.65	0.11	e0.06	0.04
20	0.08	0.09	0.08	e0.28	0.3	e0.25	5.7	4.3	0.48	0.17	e0.06	e0.05
21	0.08	0.07	0.09	e0.31	0.26	e0.29	6.1	3.5	0.55	0.17	e0.06	e0.04
22	0.08	0.06	0.72	e0.28	0.26	0.29	6.6	3.6	0.52	0.09	e0.05	e0.05
23	0.08	0.06	0.36	e0.29	0.23	0.36	6.6	3	0.66	0.09	e0.04	e0.06
24	0.08	0.06	0.11	e0.26	0.2	0.42	7.6	2.7	0.56	0.07	e0.03	e0.06
25	0.1	0.08	0.1	e0.24	0.19	0.44	8.8	e3.5	0.5	0.08	e0.04	0.06
26	0.08	0.06	0.08	e0.15	0.18	0.45	11	2.8	0.45	0.07	e0.05	0.07
27	0.09	e0.05	0.07	e0.12	1.2	0.58	13	2.5	0.45	0.07	e0.06	e0.07
28	0.09	e0.05	0.19	e0.10	3.5	0.56	14	e2.9	0.42	0.08	e0.06	0.06
29	0.09	0.09	0.11	e0.10	---	0.5	16	2.1	0.33	0.08	e0.04	0.07
30	0.08	e0.07	0.53	e0.15	---	0.58	16	e2.4	0.37	0.07	e0.04	e0.08
31	0.09	---	e8.3	e0.19	---	0.71	---	1.9	---	0.07	e0.03	---
TOTAL	2.41	2.4	12.69	15.21	13.61	20.68	178.35	196.5	23.08	5.01	2.05	1.57
MEAN	0.08	0.08	0.41	0.49	0.49	0.67	5.95	6.34	0.77	0.16	0.07	0.05
MAX	0.1	0.09	8.3	2.6	3.5	1.6	16	17	1.3	0.35	0.14	0.08
MIN	0.06	0.05	0.06	0.1	0.18	0.21	0.72	1.9	0.33	0.07	0.03	0.03
AC-FT	4.8	4.8	25	30	27	41	354	390	46	9.9	4.1	3.1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2006, BY WATER YEAR (WY)

MEAN	0.08	0.12	0.16	0.19	0.21	0.59	2.26	2.62	0.39	0.11	0.06	0.06
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	0.29	0.47	0.18	0.08	0.05	0.03	0.03
(WY)	2002	2006	2003	2001	2001	2002	2001	2001	2001	2004	2001	2004

SUMMARY STATISTICS	FOR 2005 CALENDAR YEAR		FOR 2006 WATER YEAR		WATER YEARS 1999 - 2006	
ANNUAL TOTAL	404.93		473.56			
ANNUAL MEAN	1.11		1.3		0.51	
HIGHEST ANNUAL MEAN					1.3	2006
LOWEST ANNUAL MEAN					0.13	2001
HIGHEST DAILY MEAN	13	16-May	17	1-May	17	1-May 2006
LOWEST DAILY MEAN	0.03	25-Aug	0.03	24-Aug	0.01	15-Sep 2004
ANNUAL SEVEN-DAY MINIMUM	0.03	25-Aug	0.04	29-Aug	0.02	26-Sep 2004
MAXIMUM PEAK FLOW			40	31-Dec	40	31-Dec 2005
MAXIMUM PEAK STAGE			5.09	31-Dec	5.09	31-Dec 2005
ANNUAL RUNOFF (AC-FT)	803		939		371	
10 PERCENT EXCEEDS	4.4		4.4		1.1	
50 PERCENT EXCEEDS	0.16		0.24		0.11	
90 PERCENT EXCEEDS	0.05		0.06		0.04	

e Estimated

2005-2006 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: 2007-01-02 10:43 By glrock

Lowest aging status in period is APPROVED

DD #2

Discharge, cubic feet per second

WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.21	e0.23	e0.34	0.43	0.36	0.26	0.18	0.37	0.26	0.21	0.19	0.19
2	0.22	e0.24	e0.38	0.38	0.23	0.25	0.18	0.35	0.25	0.2	0.19	0.2
3	0.2	e0.26	e0.23	0.46	0.14	0.24	0.39	0.31	0.25	0.2	0.2	0.2
4	0.19	e0.26	e0.17	0.37	0.21	0.21	0.45	0.28	0.26	0.2	0.2	0.23
5	0.21	e0.25	e0.16	0.31	0.21	0.21	0.41	0.26	0.26	0.2	0.21	0.24
6	0.25	e0.23	e0.16	0.35	0.23	0.19	0.4	0.26	0.26	0.21	0.22	0.21
7	0.21	e0.23	e0.16	0.35	0.2	0.17	0.46	0.27	0.26	0.2	0.2	0.25
8	0.2	e0.23	e0.16	0.33	0.23	0.16	0.45	0.26	0.26	0.2	0.19	0.32
9	0.19	e0.25	e0.16	0.3	0.23	0.2	0.43	0.27	0.25	0.2	0.19	0.39
10	0.19	e0.23	e0.16	0.24	0.24	0.21	0.43	0.25	0.25	0.19	0.14	0.33
11	0.2	e0.23	e0.16	0.26	0.25	0.19	0.39	0.23	0.26	0.2	0.14	0.27
12	0.27	e0.24	e0.16	0.26	0.26	0.19	0.4	0.23	0.25	0.2	0.13	0.29
13	0.28	e0.24	e0.16	0.27	0.28	0.17	0.42	0.22	0.26	0.2	0.15	0.26
14	0.22	e0.25	e0.16	0.24	e0.27	0.17	0.42	0.23	0.25	0.22	0.16	0.29
15	0.19	e0.28	0.16	0.17	e0.25	0.17	0.42	0.23	0.25	0.23	0.12	0.31
16	0.2	e0.24	0.16	0.16	e0.24	0.17	0.43	0.24	0.24	0.22	0.12	0.22
17	0.23	e0.24	0.19	0.13	0.23	0.16	0.43	0.23	0.27	0.21	0.12	0.22
18	0.22	e0.21	0.21	0.28	0.23	0.17	0.43	0.23	0.29	0.21	0.14	0.22
19	0.2	e0.24	0.16	0.29	0.22	0.18	0.42	0.24	0.27	0.21	0.2	0.22
20	0.21	e0.22	0.15	0.31	0.23	0.17	0.42	0.25	0.24	0.22	0.19	0.23
21	0.21	e0.24	0.17	0.25	0.22	0.16	0.43	0.26	0.24	0.22	0.18	0.22
22	0.22	e0.24	0.21	0.24	0.22	0.18	0.45	0.27	0.24	0.21	0.16	0.23
23	0.19	e0.24	0.17	0.25	0.22	0.22	0.48	0.28	0.23	0.21	0.12	0.23
24	0.2	e0.23	0.19	0.23	0.23	0.25	0.4	0.27	0.23	0.22	0.11	0.22
25	0.2	e0.24	0.2	0.14	0.22	0.24	0.4	0.26	0.24	0.2	0.16	0.22
26	0.19	e0.21	0.22	0.15	0.23	0.24	0.42	0.27	0.23	0.2	0.16	0.22
27	0.19	e0.20	0.23	0.14	0.48	0.23	0.41	0.27	0.23	0.2	0.18	0.21
28	0.19	e0.24	0.25	0.14	0.4	0.23	0.4	0.27	0.23	0.2	0.16	0.2
29	0.18	e0.26	0.23	0.21	---	0.23	0.39	0.27	0.23	0.2	0.24	0.2
30	0.16	e0.23	0.32	0.19	---	0.21	0.37	0.27	0.22	0.2	0.27	0.19
31	0.21	---	0.77	0.29	---	0.18	---	0.26	---	0.19	0.22	---
TOTAL	6.43	7.13	6.71	8.12	6.96	6.21	12.11	8.16	7.46	6.38	5.36	7.23
MEAN	0.21	0.24	0.22	0.26	0.25	0.2	0.4	0.26	0.25	0.21	0.17	0.24
MAX	0.28	0.28	0.77	0.46	0.48	0.26	0.48	0.37	0.29	0.23	0.27	0.39
MIN	0.16	0.2	0.15	0.13	0.14	0.16	0.18	0.22	0.22	0.19	0.11	0.19
AC-FT	13	14	13	16	14	12	24	16	15	13	11	14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2006, BY WATER YEAR (WY)

MEAN	0.14	0.17	0.16	0.2	0.19	0.23	0.32	0.25	0.2	0.19	0.17	0.18
MAX	0.21	0.24	0.22	0.26	0.25	0.27	0.4	0.27	0.25	0.22	0.18	0.24
(WY)	2006	2006	2006	2006	2006	2004	2006	2005	2006	2005	2005	2006
MIN	0.06	0.09	0.08	0.14	0.09	0.2	0.19	0.21	0.16	0.15	0.17	0.1
(WY)	2005	2005	2005	2005	2005	2006	2004	2004	2004	2004	2004	2004

SUMMARY STATISTICS	FOR 2005 CALENDAR YEAR			FOR 2006 WATER YEAR			WATER YEARS 2004 - 2006		
ANNUAL TOTAL	78.2			88.26					
ANNUAL MEAN	0.21			0.24			0.2		
HIGHEST ANNUAL MEAN							0.24		2006
LOWEST ANNUAL MEAN							0.18		2005
HIGHEST DAILY MEAN	0.77	Dec	31	0.77	31-Dec		0.77	31-Dec	2005
LOWEST DAILY MEAN	0.05	Feb	10	0.11	24-Aug		0.03	15-Oct	2004
ANNUAL SEVEN-DAY MINIMUM	0.06	Feb	10	0.13	11-Aug		0.04	15-Oct	2004
MAXIMUM PEAK FLOW				1.1	31-Dec		1.2	19-Mar	2004
MAXIMUM PEAK STAGE				4.99	31-Dec		4.99	31-Dec	2005
ANNUAL RUNOFF (AC-FT)	155			175			146		
10 PERCENT EXCEEDS	0.31			0.37			0.29		
50 PERCENT EXCEEDS	0.2			0.23			0.19		
90 PERCENT EXCEEDS	0.13			0.16			0.09		

e Estimated

2005-2006 Station 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: 2007-01-02 10:43 By glrock

Lowest aging status in period is APPROVED

DD #2

Discharge, cubic feet per second

WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.01	0.02	0.13	1.2	0.09	0.98	e0.23	e2.0	0.52	0.03	0.03	e0.03
2	0.01	0.02	0.08	0.66	0.13	0.73	0.25	e5.0	0.4	0.02	0.03	e0.04
3	0.01	0.03	0.03	0.26	0.17	0.52	1.4	3.9	0.37	0.02	0.02	e0.03
4	0.02	0.03	0.02	0.19	0.18	e0.40	1.3	7.1	0.33	0.02	0.02	e0.03
5	0.02	0.03	0.02	0.15	0.16	0.31	0.97	7.5	0.29	0.03	0.04	e0.03
6	0.02	0.03	0.02	0.15	0.14	0.28	0.76	7.8	0.25	0.04	0.05	0.03
7	0.02	0.03	0.03	0.16	0.13	0.22	0.93	8.1	0.21	0.04	0.04	0.03
8	0.02	0.03	0.03	0.14	e0.14	0.21	1	8.2	0.18	0.06	0.03	0.03
9	0.02	0.03	0.03	0.12	0.14	0.2	0.94	7.9	0.16	0.07	0.03	0.04
10	0.02	0.04	0.03	0.11	0.13	e0.22	0.86	6.7	0.15	0.05	0.02	0.03
11	0.02	0.04	0.03	0.11	0.15	e0.20	0.79	6.4	0.14	0.05	0.02	0.03
12	0.01	0.04	0.03	0.11	0.18	e0.16	0.93	5.8	0.12	0.05	0.03	0.03
13	0.01	0.04	0.03	0.11	0.2	0.14	1.4	4.9	0.12	0.05	0.03	0.02
14	0.01	0.04	0.03	0.11	0.22	0.15	1.8	4.3	0.12	0.05	0.03	0.02
15	0.01	0.04	0.03	e0.10	e0.20	0.13	1.7	4	0.11	0.04	0.02	0.03
16	0.02	0.04	0.03	e0.10	e0.15	0.13	1.4	5	0.1	0.04	0.03	0.03
17	0.02	0.04	0.03	0.09	e0.11	0.13	1	2.6	0.09	0.03	0.04	0.03
18	0.02	0.04	0.04	0.09	0.11	0.12	0.99	2	0.07	0.03	e0.06	0.03
19	0.01	0.04	0.04	e0.09	0.11	0.12	1.2	1.8	0.06	0.04	e0.06	0.02
20	0.01	0.04	0.03	e0.09	0.09	0.12	1.8	1.6	0.05	0.05	e0.06	0.03
21	0.01	0.04	0.06	0.09	0.09	0.11	2	1.6	0.05	0.06	e0.06	0.02
22	0.01	0.05	0.1	0.08	0.08	0.11	2.1	1.5	0.05	0.04	e0.05	0.02
23	0.01	0.05	0.06	0.08	0.08	0.14	2.5	1.3	0.05	0.04	e0.05	0.03
24	0.01	0.05	0.04	0.08	0.08	0.32	3.3	1.2	0.04	0.03	e0.04	0.02
25	0.02	0.06	0.04	0.08	0.07	0.35	4.7	1.1	0.04	0.03	e0.04	0.02
26	0.02	0.05	0.04	0.08	0.08	e0.31	4	0.97	0.04	0.03	e0.04	0.02
27	0.03	0.05	0.04	0.08	1.5	0.33	4.3	1.1	0.04	0.02	e0.04	0.01
28	0.03	0.07	0.14	0.08	2.3	0.31	3.6	1	0.04	0.02	e0.03	0.01
29	0.03	0.09	0.08	0.08	---	0.25	2.7	0.92	0.03	0.02	e0.03	0.01
30	0.03	0.08	0.2	0.08	---	0.23	4.1	0.79	0.03	0.02	e0.03	0.01
31	0.03	---	5.2	0.08	---	e0.23	---	0.68	---	0.03	e0.03	---
TOTAL	0.54	1.28	6.74	5.03	7.21	8.16	54.95	114.76	4.25	1.15	1.13	0.76
MEAN	0.02	0.04	0.22	0.16	0.26	0.26	1.83	3.7	0.14	0.04	0.04	0.03
MAX	0.03	0.09	5.2	1.2	2.3	0.98	4.7	8.2	0.52	0.07	0.06	0.04
MIN	0.01	0.02	0.02	0.08	0.07	0.11	0.23	0.68	0.03	0.02	0.02	0.01
AC-FT	1.1	2.5	13	10	14	16	109	228	8.4	2.3	2.2	1.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2006, BY WATER YEAR (WY)

MEAN	0.01	0.03	0.11	0.09	0.12	0.43	1.07	1.83	0.17	0.03	0.02	0.01
MAX	0.02	0.04	0.22	0.16	0.26	0.66	1.83	3.7	0.33	0.04	0.04	0.03
(WY)	2006	2006	2006	2006	2006	2004	2006	2006	2005	2005	2006	2006
MIN	0	0.02	0.03	0.03	0.04	0.26	0.54	0.08	0.04	0.01	0	0
(WY)	2005	2005	2004	2004	2004	2006	2004	2004	2004	2004	2004	2004

SUMMARY STATISTICS	FOR 2005 CALENDAR YEAR		FOR 2006 WATER YEAR		WATER YEARS 2004 - 2006	
ANNUAL TOTAL	113.98		205.96			
ANNUAL MEAN	0.31		0.56		0.33	
HIGHEST ANNUAL MEAN					0.56	2006
LOWEST ANNUAL MEAN					0.12	2004
HIGHEST DAILY MEAN	5.2	31-Dec	8.2	8-May	8.2	May 8 2006
LOWEST DAILY MEAN	0	26-Aug	0.01	1-Oct	0	Oct 1 2003
ANNUAL SEVEN-DAY MINIMUM	0	1-Sep	0.01	18-Oct	0	Jul 25 2004
MAXIMUM PEAK FLOW			15	31-Dec	15	Dec 31 2005
MAXIMUM PEAK STAGE			4.75	31-Dec	4.75	Dec 31 2005
ANNUAL RUNOFF (AC-FT)	226		409		238	
10 PERCENT EXCEEDS	1		1.5		0.94	
50 PERCENT EXCEEDS	0.06		0.06		0.04	
90 PERCENT EXCEEDS	0.01		0.02		0	

e Estimated

2005-2006 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: 2007-01-02 10:43 By glrock

Lowest aging status in period is APPROVED

DD #2

Discharge, cubic feet per second

WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.43	0.2	e0.66	8.9	0.47	10	2.3	23	3	1.2	0.54	0.09
2	0.47	0.19	e0.40	4.2	e0.63	4.5	2.7	20	3.2	1.3	0.5	0.08
3	0.4	0.2	e0.20	2.3	e0.65	3.2	8.6	18	2.5	2	0.48	0.05
4	0.48	0.21	e0.13	1.7	e0.69	e2.5	7.8	19	2.3	1.4	0.42	0.05
5	0.42	0.2	e0.12	1.1	e0.75	2.4	4.9	17	2.2	1.1	0.45	0.05
6	0.14	0.21	e0.16	1.2	e0.79	1.9	4.4	17	2	0.85	0.67	0.05
7	0.12	0.2	0.23	1.2	e0.77	1.7	6.3	19	2	0.83	0.56	0.05
8	0.12	0.2	0.25	0.83	e0.81	1.6	6.7	18	1.9	0.76	0.42	0.06
9	0.11	0.21	0.24	0.77	e0.79	1.6	6	18	1.8	0.65	0.53	0.05
10	0.12	0.2	0.24	0.68	e0.81	e1.4	5.4	18	1.7	1.4	0.58	0.06
11	0.11	0.2	0.23	0.89	e0.86	e1.4	5.2	16	1.7	0.99	0.51	0.06
12	0.11	0.19	0.23	0.88	0.94	e1.4	7.3	16	1.9	0.98	0.32	0.05
13	0.11	0.2	0.24	0.9	1	1.5	10	15	1.6	0.89	0.18	0.11
14	0.25	0.2	0.24	e0.70	1.1	e1.5	12	14	1.5	0.62	0.13	0.23
15	0.51	e0.16	0.26	e0.70	e1.1	e1.5	13	14	1.5	0.53	0.11	0.27
16	0.28	e0.17	0.25	e0.66	e1.4	1.2	12	14	1.4	0.55	0.1	0.31
17	0.17	e0.18	e0.25	e0.57	e1.2	e0.50	9.2	12	1.3	0.62	0.1	0.3
18	0.15	e0.19	e0.34	0.64	1.1	e0.40	8.6	11	1.2	0.67	0.09	0.22
19	0.15	e0.19	e0.38	e0.58	e0.82	e0.40	9.9	9.3	1.2	0.6	0.19	0.11
20	0.16	e0.19	0.38	e0.52	e0.55	e0.50	13	8.2	1.1	0.6	0.26	0.12
21	0.16	e0.20	e0.56	e0.53	e0.48	e0.40	15	8.1	1.1	0.61	0.24	0.11
22	0.17	e0.19	e1.4	e0.46	e0.48	e0.70	15	7.9	1	0.55	0.23	0.11
23	0.17	e0.20	e0.94	e0.51	0.52	1	16	6.5	0.96	0.47	0.13	0.12
24	0.17	e0.20	0.5	e0.57	0.49	2.8	16	5.7	0.97	0.59	0.06	0.13
25	0.2	e0.21	0.48	e0.50	0.45	2.5	18	5.1	0.9	0.52	0.09	0.12
26	0.17	e0.20	0.72	e0.29	e0.23	2.8	20	5.1	0.86	0.48	0.11	0.1
27	0.19	0.17	0.61	e0.23	7.5	2.2	20	4.9	0.84	0.46	0.1	0.1
28	0.21	0.2	e0.75	e0.23	11	2.1	23	4.5	0.92	0.45	0.1	0.1
29	0.2	e0.20	0.79	e0.25	---	2.1	23	4	0.86	0.45	0.09	0.1
30	0.2	0.2	4.5	e0.36	---	1.8	26	3.7	1	0.42	0.09	0.09
31	0.2	---	27	e0.43	---	1.9	---	3.3	---	0.45	0.09	---
TOTAL	6.85	5.86	43.68	34.28	38.38	61.4	347.3	375.3	46.41	23.99	8.47	3.45
MEAN	0.22	0.2	1.41	1.11	1.37	1.98	11.6	12.1	1.55	0.77	0.27	0.12
MAX	0.51	0.21	27	8.9	11	10	26	23	3.2	2	0.67	0.31
MIN	0.11	0.16	0.12	0.23	0.23	0.4	2.3	3.3	0.84	0.42	0.06	0.05
AC-FT	14	12	87	68	76	122	689	744	92	48	17	6.8

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2006, BY WATER YEAR (WY)

MEAN	0.16	0.23	0.38	0.4	0.57	1.44	3.89	4.39	0.84	0.3	0.18	0.18
MAX	0.34	0.36	1.41	1.11	1.37	2.08	11.6	12.1	2.18	0.77	0.31	0.46
(WY)	2000	1999	2006	2006	2006	2004	2006	2006	1999	2006	1999	1999
MIN	0.08	0.14	0.15	0.16	0.2	0.71	1.3	0.47	0.12	0.07	0.04	0.04
(WY)	2002	2005	2003	2001	2001	2001	2001	2004	2001	2001	2001	2004

SUMMARY STATISTICS	FOR 2005 CALENDAR YEAR		FOR 2006 WATER YEAR		WATER YEARS 1999 - 2006	
ANNUAL TOTAL	648.32		995.37			
ANNUAL MEAN	1.78		2.73		0.96	
HIGHEST ANNUAL MEAN					2.73	2006
LOWEST ANNUAL MEAN					0.3	2001
HIGHEST DAILY MEAN	27	31-Dec	27	31-Dec	27	31-Dec 2005
LOWEST DAILY MEAN	0.1	9-Jan	0.05	3-Sep	0	5-Aug 2001
ANNUAL SEVEN-DAY MINIMUM	0.11	7-Oct	0.05	3-Sep	0	28-Jul 2004
MAXIMUM PEAK FLOW			68	31-Dec	68	31-Dec 2005
MAXIMUM PEAK STAGE			5.4	31-Dec	5.4	31-Dec 2005
ANNUAL RUNOFF (AC-FT)	1290		1970		699	
10 PERCENT EXCEEDS	5.5		9.9		2.1	
50 PERCENT EXCEEDS	0.35		0.6		0.26	
90 PERCENT EXCEEDS	0.16		0.11		0.08	

e Estimated

2005-2006 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: 2007-01-02 10:44 By glrock

Lowest aging status in period is APPROVED

DD #1

Discharge, cubic feet per second

WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.75	0.54	e3.3	12	1.2	12	e6.7	29	3.7	1.5	0.92	0.35
2	0.78	0.6	e2.2	12	e4.2	8.5	7.8	26	3.5	1.5	0.89	0.34
3	0.69	0.72	e0.46	7.8	e3.5	6.8	23	27	3.3	1.5	0.85	0.25
4	0.8	0.79	e0.38	6	e2.6	6.1	19	26	3.2	1.5	0.77	0.23
5	0.81	0.81	e0.38	5.2	e2.1	5.1	15	20	3	1.4	0.82	0.23
6	0.46	0.76	e0.35	5.5	e1.9	4.8	13	18	2.7	1.4	0.98	0.22
7	0.42	0.64	e0.37	5.4	e1.6	4.1	15	16	2.3	1.4	0.86	0.27
8	0.4	0.69	e0.37	4.3	e1.5	3.7	16	16	2.1	1.4	0.65	0.28
9	0.41	0.82	e0.39	3.6	e1.4	3.3	14	15	2	1.3	0.72	0.24
10	0.38	0.76	e0.39	3.3	e1.4	e2.6	14	14	2	1.8	0.74	0.24
11	0.35	0.77	0.42	3.4	e1.2	e2.3	13	14	1.8	1.5	0.71	0.24
12	0.38	0.78	0.43	3.5	e1.3	e3.4	16	13	1.6	1.5	0.54	0.23
13	0.39	0.97	0.45	3.5	e1.5	2.5	20	13	1.6	1.4	0.4	0.31
14	0.51	0.99	0.43	2.8	e1.8	2.4	23	12	1.6	1.2	0.32	0.55
15	0.95	1	0.38	3.6	e1.4	e3.9	24	12	1.7	1.1	0.3	0.58
16	0.86	0.91	e0.38	2.8	e2.4	2.5	23	12	1.6	1.1	0.29	0.6
17	0.63	0.99	0.38	1.7	e1.8	0.82	20	9.7	1.6	1.2	0.29	0.53
18	0.61	0.86	1	1.8	e1.7	0.71	20	8.8	1.5	1.2	0.28	0.34
19	0.51	0.94	1.4	e1.6	1.3	0.74	20	8.7	1.5	1	0.37	0.12
20	0.54	0.86	1.3	e1.4	0.96	e0.89	24	8.1	1.5	1.2	0.5	0.16
21	0.57	0.87	6.2	1.1	0.93	0.64	25	8	1.5	1.1	0.47	0.15
22	0.54	0.86	13	0.89	0.92	1.1	26	7.6	1.5	0.98	0.47	0.15
23	0.43	0.94	2.7	1	1	1.6	27	6.3	1.4	0.91	0.36	0.19
24	0.44	0.94	1.3	1.1	1.5	6.2	27	6	1.4	1	0.24	0.2
25	0.56	1	0.96	1	1.7	7.9	29	5.5	1.4	0.94	0.27	0.2
26	0.49	0.75	0.98	0.57	0.99	e6.0	34	5.3	1.3	0.88	0.32	0.19
27	0.51	0.62	2.3	0.51	e16	6.1	34	5.2	1.3	0.83	0.31	0.18
28	0.48	e0.96	12	0.51	25	5.5	33	4.9	1.5	0.81	0.3	0.16
29	0.48	e1.1	2.8	0.56	---	5.6	31	4.6	1.4	0.81	0.28	0.14
30	0.48	e0.90	17	0.77	---	5.3	33	4.3	1.4	0.79	0.31	0.14
31	0.52	---	102	0.88	---	6.2	---	4	---	0.84	0.34	---
TOTAL	17.13	25.14	176.4	100.09	84.8	129.3	645.5	380	57.9	36.99	15.87	8.01
MEAN	0.55	0.84	5.69	3.23	3.03	4.17	21.5	12.3	1.93	1.19	0.51	0.27
MAX	0.95	1.1	102	12	25	12	34	29	3.7	1.8	0.98	0.6
MIN	0.35	0.54	0.35	0.51	0.92	0.64	6.7	4	1.3	0.79	0.24	0.12
AC-FT	34	50	350	199	168	256	1280	754	115	73	31	16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2006, BY WATER YEAR (WY)

MEAN	0.3	0.55	1.36	1.16	1.22	2.95	6.54	4.41	0.88	0.42	0.31	0.29
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	1.56	1.83	0.76	0.21	0.13	0.11	0.1
(WY)	2004	2004	2004	2002	2002	2001	2004	2004	2001	2001	2001	2004

SUMMARY STATISTICS	FOR 2005 CALENDAR YEAR		FOR 2006 WATER YEAR		WATER YEARS 2000 - 2006		
ANNUAL TOTAL	1207.63		1677.13				
ANNUAL MEAN	3.31		4.59		1.81		
HIGHEST ANNUAL MEAN					4.59		2006
LOWEST ANNUAL MEAN					0.65		2001
HIGHEST DAILY MEAN	102	31-Dec	102	31-Dec	102	31-Dec	2005
LOWEST DAILY MEAN	0.21	10-Aug	0.12	19-Sep	0.02	11-Aug	2001
ANNUAL SEVEN-DAY MINIMUM	0.24	15-Aug	0.17	19-Sep	0.05	9-Sep	2004
MAXIMUM PEAK FLOW			250	31-Dec	250	31-Dec	2005
MAXIMUM PEAK STAGE			10.15	31-Dec	10.15	31-Dec	2005
ANNUAL RUNOFF (AC-FT)	2400		3330		1310		
10 PERCENT EXCEEDS	11		15		3.8		
50 PERCENT EXCEEDS	0.82		1.3		0.56		
90 PERCENT EXCEEDS	0.36		0.34		0.13		

e Estimated

2005-2006 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: 2007-01-02 10:44 By glrock

Lowest aging status in period is APPROVED

DD #1

Discharge, cubic feet per second

WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.6	e4.8	e20	2.7	33	10	39	8.2	3.9	3	2.3
2	1.7	1.8	e3.8	e20	5.5	28	11	35	8.3	3.9	3	2.2
3	1.4	2.1	e1.1	e10	4.3	23	28	33	7.5	4.4	2.9	2.1
4	1.5	2.1	e1.0	e8.3	4	21	26	30	7.1	3.9	2.9	2.1
5	1.5	1.4	e1.0	e7.6	2.9	17	20	31	6.8	3.8	3	2.1
6	1.3	1.5	1.5	e8.2	2.6	16	17	31	6.6	3.8	3.2	2.1
7	1.2	1.6	1.6	e7.8	2.2	13	19	31	6.5	3.7	3	2.2
8	1.2	1.7	1.5	e6.6	2.1	11	20	31	6.2	3.7	2.8	2.3
9	e1.2	1.7	1.4	e5.6	2.1	9.7	18	29	6.1	3.7	2.9	2.2
10	e1.2	1.6	1.4	e5.1	2	7.4	17	26	5.9	4.2	2.9	2.2
11	e1.2	1.6	1.3	e5.4	2	6.7	16	25	5.7	3.7	2.9	2.2
12	e1.2	1.5	1.3	e6.0	2.1	8.9	18	24	5.8	3.7	2.7	2.1
13	e1.3	1.5	1.4	e6.1	2.2	5.8	21	24	5.6	3.6	2.5	2.2
14	e1.6	1.7	1.3	e6.0	2.3	5.5	23	22	5.5	3.4	2.4	2.4
15	e2.0	1.7	1.2	e5.9	1.9	7.7	24	21	5.4	3.3	2.3	2.5
16	e2.0	1.8	1.3	e7.5	3.4	5.3	23	21	5.2	3.2	2.3	2.7
17	e1.7	1.9	1.5	3.9	2.2	5.1	20	19	5	3.4	2.3	2.7
18	e1.7	1.4	1.9	3.6	2.1	4.9	19	18	4.8	3.5	2.3	2.5
19	e1.6	1.5	2	3.1	1.9	4.7	19	16	4.7	3.4	2.4	2.3
20	e1.6	2	2.2	e5.6	1.9	4.7	22	15	4.6	4.3	2.5	2.4
21	e1.7	1.7	7.6	2.9	1.9	4.5	23	15	4.5	3.6	2.4	2.4
22	e1.6	1.7	15	2.5	2.1	4.6	23	15	4.2	3.3	2.4	2.5
23	e1.6	1.5	6.9	2.6	2.2	6	26	13	4.2	3.2	2.3	2.5
24	e1.6	1.4	3.8	2.5	2.3	9.9	26	12	4.2	3.3	2.1	2.5
25	e1.7	1.6	3.5	2.3	2.3	12	31	11	4.1	3.1	2.2	2.5
26	e1.6	1.3	3	2	2.5	9.7	32	11	4.1	3	2.3	2.3
27	1.6	1.1	5.8	1.9	32	9.6	33	11	4	2.9	2.2	2.3
28	e1.6	1.7	16	1.9	47	8.9	42	10	4.2	2.9	2.2	2.3
29	e1.6	e2.0	6.8	1.9	---	8.9	42	9.8	4.1	2.9	2.2	2.3
30	e1.6	e1.8	e30	2.1	---	8.8	48	9.4	3.9	2.8	2.2	2.3
31	e1.6	---	e130	1.9	---	9.3	---	8.8	---	2.9	2.3	---
TOTAL	47.3	49.5	262.9	176.8	144.7	330.6	717	647	163	108.4	79	69.7
MEAN	1.53	1.65	8.48	5.7	5.17	10.7	23.9	20.9	5.43	3.5	2.55	2.32
MAX	2	2.1	130	20	47	33	48	39	8.3	4.4	3.2	2.7
MIN	1.2	1.1	1	1.9	1.9	4.5	10	8.8	3.9	2.8	2.1	2.1
AC-FT	94	98	521	351	287	656	1420	1280	323	215	157	138

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2006, BY WATER YEAR (WY)

MEAN	1.45	1.76	2.67	2.9	3.07	6.36	9.68	9.32	2.91	1.64	1.47	1.55
MAX	2.47	2.59	8.48	5.7	5.17	10.7	23.9	20.9	6.12	3.5	2.55	2.66
(WY)	2000	2000	2006	2006	2006	2006	2006	2006	1999	2006	2006	1999
MIN	0.99	1.39	1.28	1.77	2.06	3.53	3.07	1.91	1.09	0.91	0.79	0.84
(WY)	2004	2004	2003	2001	2001	2001	2004	2001	2001	2003	2002	2002

SUMMARY STATISTICS	FOR 2005 CALENDAR YEAR		FOR 2006 WATER YEAR		WATER YEARS 1999 - 2006	
ANNUAL TOTAL	2065.9		2795.9			
ANNUAL MEAN	5.66		7.66		3.44	
HIGHEST ANNUAL MEAN					7.66	2006
LOWEST ANNUAL MEAN					1.89	2001
HIGHEST DAILY MEAN	130	31-Dec	130	31-Dec	130	31-Dec 2005
LOWEST DAILY MEAN	1	4-Dec	1	4-Dec	0.54	18-Aug 2003
ANNUAL SEVEN-DAY MINIMUM	1.2	6-Oct	1.2	6-Oct	0.69	16-Aug 2002
MAXIMUM PEAK FLOW			290	31-Dec	290	31-Dec 2005
MAXIMUM PEAK STAGE			7.35	31-Dec	7.39	12-Nov 2000
ANNUAL RUNOFF (AC-FT)	4100		5550		2490	
10 PERCENT EXCEEDS	15		22		6.7	
50 PERCENT EXCEEDS	2		3.2		1.9	
90 PERCENT EXCEEDS	1.5		1.6		0.96	

e Estimated

2005-2006 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: 2006-12-14 17:20 By snberris

Lowest aging status in period is IN REVIEW

DD #2

Discharge, cubic feet per second

WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	3.2	e7.5	49	7.1	27	13	63	9.1	e4.4	3.3	2.9
2	3	3.5	e10	41	9.7	22	14	61	9	e4.5	3.3	2.9
3	3	3.5	e5.0	20	9.7	19	34	55	8.5	e4.9	3.1	2.8
4	2.9	3.4	e4.0	15	9.4	16	34	50	8.1	e4.5	3.1	2.8
5	3.1	3.1	e3.8	13	8.7	16	27	49	7.8	e4.4	3.3	2.8
6	2.8	3	e3.9	14	8.1	16	22	48	e7.5	e4.3	3.5	2.8
7	2.8	2.9	e4.0	13	7.8	15	24	51	e7.2	e4.2	3.4	2.8
8	2.9	2.9	e4.0	11	7.6	14	24	53	e7.0	e4.2	3.2	3
9	2.9	3.1	e4.0	10	7.5	13	23	47	e6.9	e4.3	3.2	2.9
10	2.9	3	e3.9	9.4	7.4	12	22	41	e6.7	e4.6	3.2	2.9
11	2.9	e2.8	e3.9	10	7.4	11	21	38	e6.5	e4.3	3.3	2.9
12	2.9	e2.7	e3.9	9.4	7.4	10	23	35	e6.5	e4.2	3	2.8
13	3	2.6	e4.0	9	7.6	10	26	32	e6.3	e4.1	3	2.7
14	2.8	2.2	e3.9	9	7.8	9.9	29	30	e6.2	e3.9	2.8	3
15	3.3	2.2	e3.8	7.9	7.5	9.6	30	27	e6.1	e3.8	2.8	3.2
16	3.4	2.2	e3.9	7.5	5.9	9.5	29	28	e5.9	e3.7	2.8	3.4
17	3.1	2.3	e4.0	7.8	6.9	9.3	26	24	e5.7	e3.8	2.8	3.5
18	3.1	2.2	e4.5	7.8	7.5	8.9	24	21	e5.5	e3.9	2.8	3.4
19	3	2.4	e5.0	7	7.5	8.5	24	19	e5.3	e3.9	2.8	3.2
20	3	2.5	e6.0	e6.0	7.2	8.2	26	18	e5.2	e4.7	3	3.3
21	3	2.8	e15	e6.4	6.8	8.1	28	17	e5.0	e4.0	2.9	3.3
22	3.3	2.5	27	6.8	7.1	7.9	30	17	e4.8	e3.7	2.9	3.4
23	3.5	2.5	e12	6.3	7.2	8.6	33	15	e4.8	e3.6	2.9	3.4
24	3.4	2.4	e8.0	6.3	7.6	11	33	13	e4.8	e3.7	2.8	3.4
25	3.7	2.5	e7.5	6.4	7.6	15	35	13	e4.7	e3.5	3	3.2
26	3.7	2.8	e7.0	6.4	7.7	13	44	12	e4.7	e3.4	3.1	3.2
27	3.7	2.5	e10	6	49	13	51	12	e4.6	e3.3	3	3.2
28	3.7	e3.0	31	6.2	71	12	57	12	e4.7	e3.2	3	3.1
29	3.3	e3.5	14	6.2	---	12	59	11	e4.6	3.1	3	3.1
30	3.3	e3.5	18	6.6	---	11	63	10	e4.5	3.1	3	3.1
31	3.3	---	378	6.6	---	12	---	9.7	---	3.2	2.9	---
TOTAL	97.6	83.7	620.5	347	319.7	388.5	928	931.7	184.2	122.4	94.2	92.4
MEAN	3.15	2.79	20	11.2	11.4	12.5	30.9	30.1	6.14	3.95	3.04	3.08
MAX	3.7	3.5	378	49	71	27	63	63	9.1	4.9	3.5	3.5
MIN	2.8	2.2	3.8	6	5.9	7.9	13	9.7	4.5	3.1	2.8	2.7
AC-FT	194	166	1230	688	634	771	1840	1850	365	243	187	183

e Estimated

2005-2006 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

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

Date Processed: 2007-01-02 10:44 By glrock

Lowest aging status in period is APPROVED

DD #1

Gage height, feet

WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e4.59	4.52	4.49	5.4	6.03	6.75	7.56	8.01	7.93	7.24	5.1	4.52
2	e4.54	4.51	4.48	5.53	6.06	6.76	7.58	e8.02	7.92	7.12	5.29	4.52
3	4.49	4.49	4.48	5.54	6.07	6.84	7.67	e8.02	7.92	7.02	5.34	4.52
4	4.5	4.48	4.49	5.55	6.09	6.86	7.74	8.02	7.91	6.89	5.1	e4.52
5	4.5	4.48	4.49	5.56	6.1	6.87	7.77	8.02	7.9	6.72	5.21	4.52
6	4.5	4.49	4.49	5.58	6.11	6.91	7.8	8.01	7.9	6.46	5.22	4.52
7	4.5	4.49	4.49	5.58	6.13	6.93	7.84	8.02	7.88	6.41	5.33	4.52
8	4.5	4.49	4.49	5.59	6.14	6.95	7.87	8.01	7.87	6.71	5.34	4.52
9	4.5	4.48	4.49	5.6	6.15	6.98	e7.89	8.01	7.86	6.48	4.97	4.52
10	4.5	4.48	4.49	5.61	6.17	6.99	e7.91	8	7.86	6.45	4.54	4.52
11	4.5	4.48	4.49	5.63	6.18	7	7.94	7.99	7.85	6.38	4.5	4.52
12	4.5	4.49	4.49	5.64	6.19	7.02	7.97	8	7.84	6.21	4.5	4.52
13	4.51	4.49	4.49	5.65	6.21	7.04	7.99	7.99	7.8	6.25	4.5	4.52
14	4.51	4.48	4.49	5.71	6.22	7.12	8.01	7.99	7.82	6.08	4.5	4.52
15	4.51	4.48	4.49	5.72	6.24	7.13	8.02	7.98	7.81	6.04	4.5	4.5
16	4.51	4.49	4.49	5.74	6.25	7.15	8.1	8.01	7.8	5.84	4.5	4.51
17	4.51	4.48	4.49	5.76	6.27	7.18	8.09	8.01	7.79	5.75	4.5	4.52
18	4.51	4.48	4.49	5.79	6.29	7.2	8.1	8	7.78	5.65	4.51	4.52
19	4.51	4.49	4.5	5.8	6.31	7.21	8.09	8.01	7.76	5.61	4.51	4.52
20	4.51	4.49	4.5	5.82	6.33	7.23	8.1	8	7.75	5.52	4.51	4.52
21	4.51	4.49	4.56	5.83	6.35	7.24	8.11	8.01	7.74	5.45	4.51	4.52
22	4.51	4.49	4.65	5.85	6.37	7.25	8.15	8	7.73	5.32	4.51	4.52
23	4.51	4.49	4.66	5.86	6.38	7.26	8.17	7.99	7.71	5.27	4.51	4.52
24	4.51	4.49	4.67	5.89	6.39	7.29	e8.17	e7.98	7.7	5.26	4.51	4.52
25	4.53	4.49	4.68	5.91	6.41	7.35	e8.16	7.97	7.69	5.07	4.52	4.52
26	4.53	4.46	4.75	5.92	6.43	7.37	e8.14	7.97	7.69	5.03	4.52	4.52
27	4.53	4.47	4.78	5.93	6.62	7.38	e8.09	7.95	7.63	5.01	4.52	4.52
28	4.53	4.47	4.84	5.94	6.73	7.44	8.04	7.96	7.54	5	4.52	4.52
29	4.52	4.48	4.85	5.95	---	7.45	7.97	7.96	7.47	4.99	4.52	4.52
30	4.52	4.49	4.99	6	---	7.48	7.99	7.95	7.34	4.95	4.52	4.52
31	4.52	---	5.34	6.02	---	7.55	---	7.96	---	4.92	4.52	---
MEAN	4.51	4.49	4.6	5.74	6.26	7.13	7.97	7.99	7.77	5.91	4.71	4.52
MAX	4.59	4.52	5.34	6.02	6.73	7.55	8.17	8.02	7.93	7.24	5.34	4.52
MIN	4.49	4.46	4.48	5.4	6.03	6.75	7.56	7.95	7.34	4.92	4.5	4.5

e Estimated

2005-2006 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

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

Date Processed: 2007-01-02 10:44 By glrock

Lowest aging status in period is APPROVED

DD #1

Gage height, feet

WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.54	3.96	4.32	5.78	6.25	6.66	6.97	7.53	7.06	6.51	7.1	6.16
2	6.53	e3.96	4.49	5.93	6.21	6.67	6.96	7.53	7.04	6.49	7.08	6.27
3	6.46	e3.96	4.46	5.95	6.23	6.74	6.98	7.49	7.02	6.45	7.12	6.46
4	6.6	e3.93	4.44	5.96	6.24	6.74	6.98	7.5	7	6.42	7.39	6.66
5	6.49	e3.92	4.48	5.97	6.26	6.75	6.97	7.49	6.99	6.4	7.62	6.84
6	6.51	e3.94	4.47	6	6.26	6.77	6.97	7.47	6.96	6.39	7.33	7.02
7	6.48	e3.94	4.43	6.01	6.27	6.77	7	7.46	6.93	6.38	7.31	7.22
8	6.54	e3.94	4.43	6.01	6.27	6.78	6.99	7.44	6.9	6.37	7.51	7.39
9	6.53	e3.92	4.44	6.02	6.27	6.79	7.01	7.4	6.89	6.35	7.19	7.55
10	6.52	e3.90	4.45	6.02	6.27	6.78	7.04	7.39	6.87	6.33	6.63	7.75
11	6.5	e3.90	4.44	6.03	6.26	6.79	7.09	7.37	6.84	5.69	6.47	7.93
12	6.52	e3.87	4.46	6.03	6.27	6.78	7.19	7.34	6.82	4.75	6.71	8.09
13	6.51	e3.85	e4.46	6.05	6.2	6.79	7.24	7.33	6.79	3.68	6.95	7.96
14	5.87	e3.86	e4.46	6.09	6.28	6.84	7.26	7.34	6.78	3.33	7.18	7.34
15	4.54	e3.85	4.46	6.11	6.28	6.84	7.28	7.3	6.76	3.57	7.38	6.73
16	4.05	e3.84	4.48	6.11	6.3	6.83	7.36	7.32	6.76	3.71	7.61	6.1
17	3.9	3.86	4.44	6.12	6.3	6.84	7.38	7.3	6.75	3.73	7.79	5.46
18	3.78	3.85	4.58	6.16	6.3	6.85	7.38	7.27	6.71	3.68	7.99	5.27
19	3.83	3.85	4.63	6.15	6.3	6.85	7.39	7.27	6.69	3.93	7.74	5.51
20	3.86	3.85	4.64	6.16	6.31	6.85	7.39	7.24	6.68	e4.23	7.16	5.74
21	3.86	3.84	4.82	6.16	6.32	6.85	7.4	7.24	6.67	4.64	6.58	5.95
22	3.75	3.84	4.87	6.17	6.31	6.85	7.45	7.22	6.68	4.94	5.98	6.19
23	3.87	3.84	4.87	6.18	6.31	6.86	7.52	7.21	6.65	5.26	5.97	6.38
24	3.87	3.86	4.88	6.17	6.31	6.87	7.52	7.19	6.63	5.53	6.22	6.59
25	3.87	3.87	4.89	6.17	6.31	6.89	7.56	7.19	6.61	5.81	6.29	6.77
26	3.86	3.85	4.97	6.17	6.31	6.89	7.56	7.13	6.6	6.1	6.28	6.94
27	3.81	3.9	5.03	6.18	6.55	6.9	7.56	7.13	6.57	6.35	6.27	7.12
28	3.91	3.9	5.12	6.17	6.66	6.93	7.56	7.12	6.57	6.59	6.25	7.32
29	3.8	3.92	5.14	6.19	---	6.94	7.56	7.1	6.54	6.85	6.22	7.47
30	3.98	3.93	5.27	6.22	---	6.94	7.56	7.09	6.53	7.08	6.19	7.66
31	3.95	---	5.71	6.24	---	6.98	---	7.07	---	7.33	6.19	---
MEAN	5.07	3.89	4.68	6.09	6.3	6.83	7.27	7.31	6.78	5.51	6.89	6.79
MAX	6.6	3.96	5.71	6.24	6.66	6.98	7.56	7.53	7.06	7.33	7.99	8.09
MIN	3.75	3.84	4.32	5.78	6.2	6.66	6.96	7.07	6.53	3.33	5.97	5.27

e Estimated

Attachment B

Laboratory and Field Data Results

List of Tables for Laboratory and Field Data Results

Table 1: Adit

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**
056LM053-ADIT	10/25/2005	10:04:00 AM	293		14.3		127		0.0499		2.17		1.1		1.19		745		38		7.84		5.48		0.75		5650		4540	
056LM073-ADIT	11/30/2005	10:30:00 AM	303		14.3		125		0.0468		2.03		1.18		1.17		810		38.4		7.87		5.72		0.758		5440		4210	
056LM079	12/27/2005	12:55:00 PM	300		13.2		122		0.0424		2.07		0.99		1.05		760		37		7.74		4.93		0.9		5740	H	4120	
056LM094-ADIT	1/24/2006	11:10 AM	360		13		130		0.049		1.6		1.0		1.4		860		41		8.6		4.9		0.78		6310		3990	
056LM112-Adit	2/22/2006	11:55 AM	330		12		120		0.049		1.3		1.2		1.4		730		38		7.9		5.3		0.59		5300		5700	
056LM121	3/22/2006	11:35:00 AM	330		11		120		0.044		1.2		1		0.96		740		39		8		4		0.56		6200		5600	
056LM157	4/25/2006	10:40:00 AM	400		15		130		0.093		1.6		1.4		2.3		990		44		9.3		6.3		0.93		8000		5200	
056LM194-Adit	5/30/2006	10:40 AM	310		16		130		0.069		1.3		1.2		3.2		790		42		9.9		5.9		1.0		5200		4900	
056LM210-Adit	6/26/2006	10:45 AM	280		20		130		0.086		2.8		1.4		2.0		900		42		9.5		7.0		0.85		7000		4700	
067LM005-Adit	7/25/2006	10:35 AM	320		19		130		0.080		2.5		1.3		1.5		830		41		9.2		6.1		0.80		5900		4100	
067LM010-Adit-D	7/25/2006	10:40 AM	350		18		130		0.079		2.5		1.3		1.6		820		40		8.6		6.2		0.80		6500		4300	
067LM124-Adit	08/29/2006	10:35:00 AM	310		14		130		0.059		2.1		0.80		0.93		700		38		6.7		3.8		0.53		5500		3900	
067LM035-Adit	09/28/2006	11:00:00 AM	250		12		120		0.045		1.8		0.95		1.0		540		38		5.5		4.5		0.64		5100		3900	
067LM036-Adit dup	09/28/2006	11:10:00 AM	200		11		120		0.046		1.7		0.94		1.1		650		38		5.2		4.2		0.64		5300		3900	

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**
056LM053-ADIT	10/25/2005	10:04:00 AM	311		12.1		138		0.0728		2.29		0.918		1.63		783		41		8.37		4.51		1.02	
056LM073-ADIT	11/30/2005	10:30:00 AM	301		13.2		125		0.0425		2.17		1.06		1.13		770		37		7.7		5.32		0.642	
056LM079	12/27/2005	12:55:00 PM	322		14.3		131		0.046		2.21		1.09		1.14		786		39		8.29		5.01		0.87	
056LM094-ADIT	1/24/2006	11:10 AM	360		14		130		0.051		1.6		1.0		1.4		840		41		8.6		4.9		0.80	
056LM112-Adit	2/22/2006	11:55 AM	320		14		120		0.048		1.4		1.2		1.5		740		38		7.8		5.6		0.75	
056LM121	3/22/2006	11:35:00 AM	330		12		120		0.048		1.3		1.2		1		740		40		8.1		4		0.58	
056LM157	4/25/2006	10:40:00 AM	410		15		130		0.094		1.6		1.5		2.3		990		45		9.4		6.5		0.95	
056LM194-Adit	5/30/2006	10:40 AM	340		15		140		0.068		1.4		1.3		3.2		830		46		11		5.8		0.99	
056LM210-Adit	6/26/2006	10:45 AM	310		19		140		0.092		2.7		1.4		1.9		880		42		9.2		6.8		0.91	
067LM005-Adit	7/25/2006	10:35 AM	310		21		130		0.080		2.5		1.3		1.7		810		40		9.0		6.4		0.87	
067LM010-Adit-D	7/25/2006	10:40 AM	330		18		140		0.079		2.5		1.4		1.7		830		41		8.6		6.7		0.89	
067LM124-Adit	08/29/2006	10:35:00 AM	360		15		130		0.061		2.3		0.82		1.4		700		38		7.5		4.0		0.54	
067LM035-Adit	09/28/2006	11:00:00 AM	450		11		110		0.046		2.1		1.1		0.94		610		39		7.9		5.3		0.58	
067LM036-Adit dup	09/28/2006	11:10:00 AM	450		11		110		0.045		2.0		1.1		0.91		610		36		7.7		5.2		0.56	

Adit Field and Flow Data											Daily Mean Flow		Monthly Mean Flow	
Date	**Time**	**pH**		**Temp**		**EC**		**SpC**						
10/25/2005	10:04:00 AM	2.3	SU	12	°C	3902	uS/cm	5200	uS/cm		13.527	gpm	13.76	gpm
11/30/2005	10:30:00 AM	2.5	SU	11.9	°C	3750	uS/cm	5000	uS/cm		13.194	gpm	13.432	gpm
12/27/2005	12:55:00 PM	2.44	SU	11.9	°C	3690	uS/cm	4923	uS/cm		13.135	gpm	13.261	gpm
1/24/2006	11:50:00 AM	2.4	SU	11.8	°C	4020	uS/cm	5370	uS/cm		17.288	gpm	16.125	gpm
2/22/2006	11:55:00 AM	2.3	SU	11.9	°C	3930	uS/cm	5240	uS/cm		18.144	gpm	17.983	gpm
3/22/2006	11:35:00 AM	2.3	SU	11.9	°C	4295	uS/cm	5730	uS/cm		20.313	gpm	19.909	gpm
4/25/2006	10:40:00 AM	1.7	SU	11.8	°C	6360	uS/cm	8500	uS/cm		33.156	gpm	26.934	gpm
5/30/2006	10:40:00 AM	1.9	SU	11.8	°C	6140	uS/cm	8210	uS/cm		29.904	gpm	36.625	gpm
6/26/2006	10:45:00 AM	1.8	SU	11.8	°C	5430	uS/cm	7260	uS/cm		24.311	gpm	25.66	gpm
7/25/2006	10:35:00 AM	1.95	SU	11.9	°C	4770	uS/cm	6360	uS/cm		19.887	gpm	21.451	gpm
7/25/2006	10:40:00 AM	1.95	SU	11.9	°C	4770	uS/cm	6360	uS/cm		19.887	gpm	21.451	gpm
8/29/2006	10:35:00 AM	2.3	SU	11.9	°C	4121	uS/cm	5500	uS/cm		18.595	gpm	19.262	gpm
9/28/2006	11:00:00 AM	2.1	SU	11.9	°C	3781	uS/cm	5040	uS/cm		17.067	gpm	17.761	gpm
9/28/2006	11:10:00 AM	2.1	SU	11.9	°C	3781	uS/cm	5040	uS/cm		17.067	gpm	17.761	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)

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

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

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

H - Analysis performed outside of method holding time

Table 2: Pit Under-drain

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**
056LM055-PUD	10/25/2005	10:20:00 AM	290		0.754		295		0.0158		1.26		0.391		0.329		991		109		40.7		2.48		1.8		7480		6750	
056LM072-PUD	11/30/2005	10:50:00 AM	305		0.95		314		0.0172		1.4		0.364		0.4		1120		124		51.9		3.19		2.4		7810		7250	
056LM080	12/27/2005	1:05:00 PM	349		0.955		335		0.0169		1.46		0.413		0.73		1020		117		48.8		2.79		2.42		8300	H	6730	
056LM095-PUD	1/24/2006	11:10:00 AM	200		1.5		180		0.011		0.38		0.51		0.10		470		67		9.8		1.5		0.66		4320		2910	
056LM113-Pud	2/22/2006	11:45:00 AM	290		2.9		200		0.022		0.46		0.62		0.089		630		70		10		2.2		0.64		5100		5600	
056LM122	3/22/2006	11:25:00 AM	370		4.4		200		0.03		0.56		0.99		0.065		800		71		9.2		2.3		0.64		6800		4900	
056LM158	4/25/2006	10:30:00 AM	590		10		210		0.075		1.2		1.5		6.5		1300		74		12		4.6		1.3		11000		7400	
056LM193-PUD	5/30/2006	10:50:00 AM	640		16		230		0.091		1.3		1.6		1.1		1500		81		13		7.2		1.5		6000		8600	
056LM211-PUD	6/26/2006	10:30:00 AM	400		12		250		0.064		2.0		1.5		0.17		1200		85		14		5.6		1.5		9800		6400	
067LM006-PUD	7/25/2006	10:30:00 AM	430		8.9		260		0.048		1.5		1.3		0.14		1100		86		17		4.6		1.5		7800		5400	
067LM122-PUD	08/29/2006	10:25:00 AM	360		4.3		260		0.025		0.99		0.85		0.16	*	780		82		16		3.2		1.0		6700		5300	
067LM123-PUD-D	08/29/2006	10:20:00 AM	350		4.5		270		0.021		0.99		0.84		0.085	*	790		86		16		3.2		1.3		6700		5400	
067LM037-PUD	09/28/2006	10:45:00 AM	240		3.2		170		0.017		0.92		0.61		0.26		710		93		18		2.8		1.2		6100		4700	

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**
056LM055-PUD	10/25/2005	10:20:00 AM	302		1.08		310		0.0251		1.27		0.551		0.466		1020		114		42.2		2.34		2.59	
056LM072-PUD	11/30/2005	10:50:00 AM	309		1.03		268		0.016		1.47		0.388		0.358		1080		123		51.2		3.46		2.36	
056LM080	12/27/2005	1:05:00 PM	351		1.15		337		0.018		1.49		0.452		0.87		1030		118		49.6		3.37		2.5	
056LM095-PUD	1/24/2006	11:10:00 AM	230		1.5		210		0.011		0.38		0.51		0.10		510		73		11		1.5		0.66	
056LM113-Pud	2/22/2006	11:45:00 AM	300		3.1		200		0.022		0.46		0.78		0.11		620		72		10		2.2		0.75	
056LM122	3/22/2006	11:25:00 AM	370		4.3		200		0.038		0.54		1.1		0.084		800		76		9.6		2.9		0.91	
056LM158	4/25/2006	10:30:00 AM	610		11		210		0.076		1.2		1.6		6.7		1300		75		12		4.7		1.3	
056LM193-PUD	5/30/2006	10:50:00 AM	650		16		250		0.094		1.5		1.9		1.2		1600		84		14		7.2		1.5	
056LM211-PUD	6/26/2006	10:30:00 AM	440		12		250		0.073		2.0		1.6		0.20		1200		85		13		5.6		1.6	
067LM006-PUD	7/25/2006	10:30:00 AM	420		8.1		270		0.047		1.5		1.2		0.22		1100		85		15		4.7		1.4	
067LM122-PUD	08/29/2006	10:25:00 AM	390		4.6		260		0.025		1.0		0.87		0.15	*	820		82		23		3.2		1.0	
067LM123-PUD-D	08/29/2006	10:20:00 AM	390		4.5		270		0.022		1.0		0.86		0.088	*	840		83		23		3.2		1.4	
067LM037-PUD	09/28/2006	10:45:00 AM	460		3.3		240		0.017		0.91		0.56		0.25		690		86		35		2.8		1.1	

PUD Field and Flow Data											Daily Mean Flow		Monthly Mean Flow	
Date	**Time**	**pH**		**Temp**		**EC**		**SpC**						
10/25/2005	10:20:00 AM	2.7	SU	10.1	°C	4000	uS/cm	5600	uS/cm		0.252	gpm	0.317	gpm
11/30/2005	10:50:00 AM	2.9	SU	8.2	°C	3858	uS/cm	5700	uS/cm		0.374	gpm	0.396	gpm
12/27/2005	1:05:00 PM	2.6	SU	7.8	°C	3945	uS/cm	5890	uS/cm		0.598	gpm	0.631	gpm
1/24/2006	12:00:00 PM	3.1	SU	9	°C	2428	uS/cm	3496	uS/cm		8.319	gpm	6.835	gpm
2/22/2006	11:45:00 AM	2.5	SU	8.9	°C	3160	uS/cm	4563	uS/cm		8.675	gpm	8.955	gpm
3/22/2006	11:25:00 AM	2.6	SU	8.9	°C	3601	uS/cm	5200	uS/cm		11.848	gpm	12.251	gpm
4/25/2006	10:30:00 AM	1.8	SU	9.1	°C	6410	uS/cm	9210	uS/cm		34.418	gpm	28.041	gpm
5/30/2006	10:50:00 AM	2.1	SU	9.5	°C	6330	uS/cm	9000	uS/cm		20.27	gpm	30.167	gpm
6/26/2006	10:30:00 AM	1.9	SU	9.7	°C	5350	uS/cm	7580	uS/cm		12.259	gpm	15.181	gpm
7/25/2006	10:30:00 AM	2.08	SU	9.7	°C	4750	uS/cm	6630	uS/cm		7.452	gpm	8.566	gpm
8/29/2006	10:25:00 AM	2.4	SU	10.7	°C	4096	uS/cm	5650	uS/cm		4.358	gpm	5.271	gpm
8/29/2006	10:20:00 AM	2.4	SU	10.7	°C	4096	uS/cm	5650	uS/cm		4.358	gpm	5.271	gpm
9/28/2006	10:45:00 AM	2.3	SU	10.7	°C	1899	uS/cm	2608	uS/cm		1.2	gpm	1.88	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)

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

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

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

H - Analysis performed outside of method holding time

Table 3: Overburden Seep

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**
056LM052-OS	10/25/2005	12:05:00 PM	50		0.001	B	363		0.0025		0.37		0.0042		0.927		132		90.5		21.2		0.494		0.688		2730		2320	
056LM057-OS-D	10/25/2005	12:10:00 PM	48.4		0.002	B	357		0.0027		0.37		0.0044		0.952		128		87.7		20.8		0.508		0.698		2750		2500	
056LM075-OS	11/30/2005	1:15:00 PM	48		0.001	B	355		0.0021		0.31		0.0054		0.93		143		88.3		20.5		0.51		0.739		2650		2740	
056LM076-OS-D	11/30/2005	1:20:00 PM	47.7		0.001	B	355		0.0021		0.33		0.0053		0.928		144		88		20.1		0.508		0.74		2720		2750	
056LM093-OS	1/24/2006	11:10:00 AM	48		0.0014	J	320		0.0021		0.32		0.0056		0.97		130		83		19		0.54		0.69		2690		1840	
056LM115-OS	2/22/2006	1:00:00 PM	50		0.00069		340		0.0022		0.31		0.0053		0.98		130		85		20		0.52		0.70		2500		2600	
056LM119	3/22/2006	10:10:00 AM	45		0.00091		340		0.002		0.29		0.0058		0.94		130		83		19		0.47		0.57		2900		2200	
056LM161	4/25/2006	12:05:00 PM	55		0.0011		370		0.0033		0.34		0.0087		1.8		130		90		21		0.56		0.74		1300		1900	
056LM190-OS	5/30/2006	12:05:00 PM	61		0.0014	J	360		0.0038		0.39		0.010		2.1		140		93		21		0.64		0.85		1600		2300	
056LM215-0S	6/26/2006	11:45:00 AM	51		0.0012	J	390		0.0035		0.38		0.0078		1.9		150		100		23		0.60		0.82		3300		2200	
067LM009-OS	7/25/2006	12:45:00 PM	57		0.0015	J	380		0.0037		0.37		0.0070		2.1		140		100		23		0.58		0.82		3000		2200	
067LM126-OS	08/29/2006	11:55:00 AM	46		0.0016	J	360		0.0030		0.39		0.0045	J	1.7		150		98		23		0.60		0.89		3100		2200	
067LM040-OS	09/27/2006	11:20:00 AM	50		0.0016	J	350		0.0030		0.37		0.0059		1.5		150		97		20		0.56		0.83		2800		2300	

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**
056LM052-OS	10/25/2005	12:05:00 PM	49.4		0.001	B	359		0.0039		0.37		0.0073		0.869		128		88.8		20.9		0.73		0.974	
056LM057-OS-D	10/25/2005	12:10:00 PM	47.1		0.002	B	343		0.0044		0.35		0.0084		0.818		122		84.5		19.9		0.815		1.11	
056LM075-OS	11/30/2005	1:15:00 PM	44.6		0.001	B	329		0.0019		0.36		0.0046		0.973		129		80.5		19		0.469		0.703	
056LM076-OS-D	11/30/2005	1:20:00 PM	46.2		0.001	B	344		0.0019		0.37		0.0045		0.944		134		84.1		19.7		0.462		0.695	
056LM093-OS	1/24/2006	11:10:00 AM	53		0.0017	J	360		0.0020		0.33		0.0056		0.96		140		90		22		0.53		0.69	
056LM115-OS	2/22/2006	1:00:00 PM	52		0.0016		330		0.0021		0.31		0.0060		0.94		130		84		19		0.52		0.67	
056LM119	3/22/2006	10:10:00 AM	47		0.00092		340		0.0021		0.31		0.0063		0.95		130		85		21		0.48		0.57	
056LM161	4/25/2006	12:05:00 PM	59		0.0019		370		0.0033		0.34		0.0088		1.8		130		91		21		0.57		0.75	
056LM190-OS	5/30/2006	12:05:00 PM	71		0.0016	J	400		0.0040		0.39		0.0098		2.1		150		100		23		0.64		0.83	
056LM215-0S	6/26/2006	11:45:00 AM	52		0.0021	J	390		0.0034		0.39		0.0072		2.2		140		100		23		0.66		0.88	
067LM009-OS	7/25/2006	12:45:00 PM	56		0.0016	J	390		0.0036		0.37		0.0081		2.4		140		100		23		0.66		0.97	
067LM126-OS	08/29/2006	11:55:00 AM	78		0.0010	J	350		0.0030		0.38		0.0055		2.0		150		92		33		0.58		0.85	
067LM040-OS	09/27/2006	11:20:00 AM	94		0.0025	J	360		0.0031		0.35		0.0059		1.4		150		95		42		0.60		0.77	

OS Field and Flow Data														
Date	**Time**	**pH**		**Temp**		**EC**		**SpC**		**Daily Mean Flow**		**Monthly Mean Flow**	
10/25/2005	12:05:00 PM	3	SU	8.4	°C	1944	uS/cm	2846	uS/cm	11.288	gpm	11.018	gpm
10/25/2005	12:10:00 PM	3	SU	8.4	°C	1944	uS/cm	2846	uS/cm	11.288	gpm	11.018	gpm
11/30/2005	1:15:00 PM	3.1	SU	5.4	°C	1751	uS/cm	2800	uS/cm	8.931	gpm	9.429	gpm
11/30/2005	1:20:00 PM	3.1	SU	5.4	°C	1751	uS/cm	2800	uS/cm	8.931	gpm	9.429	gpm
1/24/2006	10:45:00 AM	3.1	SU	4.6	°C	1695	uS/cm	2778	uS/cm	12.527	gpm	12.595	gpm
2/22/2006	1:00:00 PM	2.9	SU	5.2	°C	1735	uS/cm	2780	uS/cm	12.115	gpm	12.691	gpm
3/22/2006	10:10:00 AM	3	SU	5.3	°C	1757	uS/cm	2818	uS/cm	14.497	gpm	14.959	gpm
4/25/2006	12:05:00 PM	2.6	SU	8.4	°C	1977	uS/cm	2893	uS/cm	e27.725	gpm	22.694	gpm
5/30/2006	12:05:00 PM	2.9	SU	9.8	°C	2210	uS/cm	3106	uS/cm	21.502	gpm	23.408	gpm
6/26/2006	11:45:00 AM	2.8	SU	11.9	°C	2375	uS/cm	3165	uS/cm	20.049	gpm	20.696	gpm
7/25/2006	12:45:00 PM	2.7	SU	13.7	°C	2335	uS/cm	2971	uS/cm	14.936	gpm	17.128	gpm
8/29/2006	11:55:00 AM	3	SU	10.6	°C	2195	uS/cm	3036	uS/cm	14.357	gpm	14.168	gpm
9/27/2006	11:20:00 AM	2.7	SU	8.5	°C	2017	uS/cm	2945	uS/cm	e12.550	gpm	12.909	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)

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

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

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

H - Analysis performed outside of method holding time

Table 4: Channel Under-drain

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
056LM054-CUD	10/25/2005	10:50:00 AM	38.6		0.532		345		0.0006	B	0.83		0.0184		0.006		384		82.2		18.8		1.72		0.305		3330		2480	
056LM071-CUD	11/30/2005	11:55:00 AM	40.3		0.502		364		0.0001	B	0.75		0.0215		0.0005	U	395		86.7		19.1		1.62		0.33		3500		2990	
056LM081	12/27/2005	1:53:00 PM	41.4		0.556		359		0.0001	B	0.82		0.0213		0.003	U	383		83.3		19.3		1.47		0.36		3430	H	2690	
056LM097-CUD	1/24/2006	11:10 AM	52		0.60		270		0.00033	J	0.87		0.026		0.00026	J	380		72		17		1.7		0.34		3220		2070	
056LM114-Cud	2/22/2006	10:50 AM	55		0.61		290		0.00035		0.78		0.030		0.00016	J	400		73		17		2.0		0.38		3000		2700	
056LM123	3/22/2006	12:55:00 PM	55		0.55		290		0.00086		0.81		0.029		0.0005	U	400		74		18		1.6		0.3		3200		2500	
056LM159	4/25/2006	11:25:00 A	81		1.2		310		0.0034		1.3		0.049		0.054		500		83		19		2.3		0.51		1400		2500	
056LM192-CUD	5/30/2006	11:15 AM	100		1.5		310		0.0062		1.4		0.083		0.047		580		86		20		3.0		0.61		2400		3200	
056LM213-CUD	6/26/2006	11:05 AM	60		1.2		340		0.0022		1.3		0.049		0.015		570		89		22		2.7		0.51		4400		2800	
067LM007-CUD	7/25/2006	11:25 AM	66		0.84		320		0.0014	J	1.1		0.035		0.00052	J	530		86		21		2.6		0.50		3900		2500	
067LM125-CUD	08/29/2006	11:05:00 AM	44		0.62		320		0.00051	J	0.94		0.028		0.00073	J	480		84		19		2.2		0.45		3700		2500	
067LM038-CUD	09/27/2006	10:40:00 AM	46		0.58		310		0.00029	J	0.75		0.026		0.00021	J	450		83		18		2.1		0.39		3400		2500	

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
056LM054-CUD	10/25/2005	10:50:00 AM	37.4		0.73		332		0.001		0.78		0.0258		0.01		365		78.7		18.1		1.43		0.426	
056LM071-CUD	11/30/2005	11:55:00 AM	39.2		0.527		353		0.0001	B	0.83		0.0197		0.0007	B	390		82.8		18.7		1.7		0.286	
056LM081	12/27/2005	1:53:00 PM	42.2		0.588		353		0.0005	U	0.85		0.022		0.005	U	385		84.7		19.6		1.77		0.4	
056LM097-CUD	1/24/2006	11:10 AM	55		0.60		300		0.00038		0.84		0.026		0.011		410		76		18		1.7		0.34	
056LM114-Cud	2/22/2006	10:50 AM	57		0.66		290		0.00044		0.78		0.030		0.0092		400		75		17		2.0		0.35	
056LM123	3/22/2006	12:55:00 PM	56		0.62		290		0.00085		0.83		0.032		0.015		400		75		19		1.6		0.31	
056LM159	4/25/2006	11:25:00 A	85		1.2		310		0.0034		1.3		0.051		0.082		500		85		19		2.4		0.51	
056LM192-CUD	5/30/2006	11:15 AM	120		1.5		360		0.0065		1.5		0.085		0.051		640		95		22		3.0		0.57	
056LM213-CUD	6/26/2006	11:05 AM	66		1.2		340		0.0022		1.3		0.047		0.025		550		88		21		2.7		0.58	
067LM007-CUD	7/25/2006	11:25 AM	70		0.96		330		0.0013	J	1.1		0.041		0.021		520		85		20		2.7		0.55	
067LM125-CUD	08/29/2006	11:05:00 AM	75		0.66		300		0.00047	J	0.98		0.029		0.0045	J	450		79		7.0		2.2		0.46	
067LM038-CUD	09/27/2006	10:40:00 AM	86		0.61		320		0.00032	J	0.80		0.024		0.0022	J	440		81		36		2.2		0.37	

CUD Field and Flow Data										Daily Mean Flow		Monthly Mean Flow	
Date	Time	pH		Temp		EC		SpC					
10/25/2005	10:50:00 AM	4.5	SU	9	°C	2046	uS/cm	2957	uS/cm	21.335	gpm	30.535	gpm
11/30/2005	11:55:00 AM	4.8	SU	8.7	°C	2092	uS/cm	3038	uS/cm	17.497	gpm	18.996	gpm
12/27/2005	1:53:00 PM	4.7	SU	8.5	°C	2052	uS/cm	2995	uS/cm	25.454	gpm	22.566	gpm
1/24/2006	12:55:00 PM	4.6	SU	8.7	°C	1955	uS/cm	2840	uS/cm	30.641	gpm	30.577	gpm
2/22/2006	10:50:00 AM	4.3	SU	8.6	°C	2018	uS/cm	2939	uS/cm	27.213	gpm	31.283	gpm
3/22/2006	12:55:00 PM	4.5	SU	8.5	°C	2068	uS/cm	3020	uS/cm	32.709	gpm	33.68	gpm
4/25/2006	11:25:00 AM	4.1	SU	8.4	°C	2282	uS/cm	3341	uS/cm	40.318	gpm	34.855	gpm
5/30/2006	11:15:00 AM	3.6	SU	8.6	°C	2655	uS/cm	3864	uS/cm	47.125	gpm	39.999	gpm
6/26/2006	11:05:00 AM	3.6	SU	8.7	°C	2426	uS/cm	3521	uS/cm	42.447	gpm	41.237	gpm
7/25/2006	11:25:00 AM	4	SU	8.7	°C	2275	uS/cm	3304	uS/cm	NA	gpm	NA	gpm
8/29/2006	11:05:00 AM	4.3	SU	8.6	°C	2156	uS/cm	3140	uS/cm	NA	gpm	NA	gpm
9/27/2006	10:40:00 AM	4.3	SU	8.4	°C	2141	uS/cm	3085	uS/cm	NA	gpm	NA	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

NA - data not available due to CUD being pumped to treatment system

Q - Qualifiers:

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

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

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

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

H - Analysis performed outside of method holding time

Table 5: Station 1

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**
056LM045-STA1	10/25/2005	11:10:00 AM	0.15	B	0.0033		14.6		0.0001	B	0.01	B	0.0008		0.0013	B	0.18		5.3		0.015	B	0.0017	B	0.006	B	110		6.5	
056LM065-STA 1	11/30/2005	11:10:00 AM	0.09	B	0.0021	B	11.7		0.0001	U	0.01	U	0.0003	B	0.0005	U	0.12		4.2		0.012	B	0.0006	B	0.004	B	110		6.4	
056LM078	12/27/2005	1:25:00 PM	0.13	B	0.0018	B	11.9		0.0001	U	0.01	U	0.0002	B	0.0005	U	0.14		4.3		0.013	B	0.0008	B	0.007	B	150	H	8	
056LM096-STA1	1/24/2006	11:10:00 AM	0.70		0.0022	J	12		0.000023	U	0.0026	J	0.00078	J	0.0013	J	0.52		4.3		0.012		0.0012	J	0.0038	J	140		12.4	
056LM105-Stal	2/22/2006	11:25:00 AM	0.47		0.0023		13		0.000023	U	0.0011		0.00044		0.00075		0.40		4.1		0.011		0.0011		0.0034		120		9.9	
056LM120	3/22/2006	12:05:00 PM	0.53		0.0019		12		0.0001	U	0.0043		0.00073		0.0025		0.41		4.0		0.019		0.0021		0.01		120		12	
056LM156	4/25/2006	10:10:00 AM	0.21		0.0012		9.4		0.0001	U	0.0053		0.00036		0.0014		0.15		2.7		0.016		0.0019		0.0096		68		4.6	
056LM195-STA 1	5/30/2006	10:00:00 AM	0.24	*	0.0012	J	9.0		0.000023	U	0.0024	J	0.00023	J	0.00052	J	0.21		2.7		0.017		0.00080	J	0.0027	J	130		3.6	
056LM196-STA 1 Dup	5/30/2006	10:10:00 AM	0.33	*	0.0010	J	9.0		0.000023	U	0.0032	J	0.00030	J	0.00062	J	0.22		2.7		0.019		0.0010	J	0.0033	J	120		3.5	
056LM212-STA 1	6/26/2006	10:05:00 AM	0.077		0.0028	J	13		0.000023	U	0.0028	J	0.00016	J	0.00047	J	0.15		4.1		0.017		0.0012	J	0.0039	J	130		5.2	J
067LM004-STA 1	7/25/2006	9:50:00 AM	0.053		0.0031	J	16		0.000023	U	0.00038	J	0.00016	J	0.00048	J	0.18		5.2		0.0090		0.00068	J	0.0043	J	160		6.0	J
067LM121-Sta 1	08/29/2006	9:45:00 AM	0.038		0.0034	J	15		0.000023	U	0.00017	J	0.00017	J	0.00055	J	0.14		5.2		0.0053		0.00071	J	0.0019	J	110		6.6	J
067LM034-Sta 1	09/27/2006	9:40:00 AM	0.034		0.0033	J	13		0.000026	J	0.00013	J	0.00027	J	0.00046	J	0.14		5.0		0.0076		0.00048	J	0.0050	J	110		7.4	J

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**
056LM045-STA1	10/25/2005	11:10:00 AM	0.36		0.0027	B	13.5		0.0001	U	0.01	U	0.0007		0.0016	B	0.4		4.8		0.011	B	0.0008	B	0.004	B
056LM065-STA 1	11/30/2005	11:10:00 AM	0.22		0.0023	B	11.8		0.0001	U	0.01	U	0.0003	B	0.0005	B	0.26		4.2		0.009	B	0.0006	U	0.004	B
056LM078	12/27/2005	1:25:00 PM	0.44		0.0022	B	13.2		0.0001	U	0.01	U	0.0006		0.0008	B	0.56		4.4		0.03	U	0.0006	U	0.006	B
056LM096-STA1	1/24/2006	11:10:00 AM	0.90		0.0027	J	13		0.000023	U	0.00026	J	0.00080	J	0.0015	J	0.79		4.6		0.015		0.0013	J	0.0037	J
056LM105-Stal	2/22/2006	11:25:00 AM	0.64		0.0023		13		0.000023	U	0.00021		0.00063		0.00099		0.59		4.2		0.015		0.0011		0.0030	
056LM120	3/22/2006	12:05:00 PM	1.2		0.0018		12		0.0001	U	0.0002		0.00046		0.00089		0.52		4.2		0.017		0.0011		0.0026	
056LM156	4/25/2006	10:10:00 AM	0.81		0.002		9.9		0.0001	U	0.00065		0.00066		0.0024		0.76		2.9		0.045		0.0019		0.0056	
056LM195-STA 1	5/30/2006	10:00:00 AM	0.40		0.0012	J	10		0.000023	U	0.00020	J	0.00040	J	0.00076	J	0.39		3.0		0.019		0.00096	J	0.0026	J
056LM196-STA 1 Dup	5/30/2006	10:10:00 AM	0.40		0.0014	J	10		0.000023	U	0.00020	J	0.00040	J	0.00073	J	0.38		2.9		0.019		0.00090	J	0.0036	J
056LM212-STA 1	6/26/2006	10:05:00 AM	0.18		0.0041	J	13		0.000023	U	0.00018	J	0.00023	J	0.00056	J	0.34		4.2		0.019		0.0011	J	0.0028	J
067LM004-STA 1	7/25/2006	9:50:00 AM	0.11		0.0037	J	15		0.000023	U	0.00015	J	0.00025	J	0.00060	J	0.32		5.0		0.015		0.00077	J	0.0035	J
067LM121-Sta 1	08/29/2006	9:45:00 AM	0.23		0.0036	J	17		0.000023	U	0.00016	J	0.00049	J	0.00058	J	0.37		6.2		0.010		0.0012	J	0.0030	J
067LM034-Sta 1	09/27/2006	9:40:00 AM	0.059		0.0030	J	13		0.000023	U	0.00011	J	0.00028	J	0.00045	J	0.20		4.8		0.0073		0.00049	J	0.0031	J

Sta 1 Field and Flow Data											Daily Mean Flow		Monthly Mean Flow	
Date	**Time**	**pH**		**Temp**		**EC**		**SpC**						
10/25/2005	11:10:00 AM	7.6	SU	5.2	°C	95	uS/cm	152	uS/cm		0.1	cfs	0.08	cfs
11/30/2005	11:10:00 AM	6.9	SU	0.2	°C	72	uS/cm	LErr	uS/cm		e0.07	cfs	0.08	cfs
12/27/2005	1:25:00 PM	6.7	SU	0.3	°C	74	uS/cm	LErr	uS/cm		0.07	cfs	0.41	cfs
1/24/2006	11:10:00 AM	6.5	SU	1.1	°C	74.2	uS/cm	LErr	uS/cm		e0.26	cfs	0.49	cfs
2/22/2006	11:25:00 AM	7	SU	0.2	°C	73	uS/cm	LErr	uS/cm		0.26	cfs	0.49	cfs
3/22/2006	12:05:00 PM	7.5	SU	1.3	°C	41	uS/cm	LErr	uS/cm		0.29	cfs	0.67	cfs
4/25/2006	10:10:00 AM	7.3	SU	3.5	°C	55	uS/cm	94	uS/cm		8.8	cfs	5.95	cfs
5/30/2006	10:00:00 AM	7.4	SU	5.6	°C	63	uS/cm	100	uS/cm		e2.4	cfs	6.34	cfs
5/30/2006	10:10:00 AM	7.4	SU	5.6	°C	63	uS/cm	100	uS/cm		e2.4	cfs	6.34	cfs
6/26/2006	10:05:00 AM	7.2	SU	10.6	°C	96	uS/cm	132	uS/cm		0.45	cfs	0.77	cfs
7/25/2006	9:50:00 AM	7.2	SU	13.8	°C	124	uS/cm	158	uS/cm		0.08	cfs	0.16	cfs
08/29/2006	9:45:00 AM	7.2	SU	9.4	°C	110	uS/cm	157	uS/cm		e0.04	cfs	0.07	cfs
09/27/2006	9:40:00 AM	7.1	SU	3.6	°C	88	uS/cm	149	uS/cm		e0.07	cfs	0.05	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)

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

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

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

H - Analysis performed outside of method holding time

Table 6: Station 15

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**
056LM047-STA15	10/25/2005	12:40:00 PM	9.63		0.0156		228		0.0004	B	0.21		0.0011		0.0122		31.2		45.5		6.63		0.356		0.082		1180		932	
056LM070-STA 15	11/30/2005	1:55:00 PM	5.34		0.0163		158		0.0003	B	0.15		0.0012		0.0099		23.2		35.1		5.15		0.309		0.067		930		809	
056LM084	12/27/2005	2:30:00 PM	0.78	U	0.0298		150		0.0008		0.15		0.0004	B	0.0273		32		37.3		4.9		0.28		0.079		930	H	640	
056LM098-STA15	1/24/2006	11:10:00 AM	0.20		0.024		99		0.00063	J	0.11		0.00024	J	0.0064		29		27		3.8		0.25		0.069		700		444	
056LM099-STA15D	1/24/2006	11:10:00 AM	0.20		0.025		99		0.00066	J	0.12		0.00032	J	0.0064		29		27		3.9		0.26		0.066		690		443	
056LM107-Sta15	2/22/2006	2:10:00 PM	0.11		0.022		79		0.00085		0.095		0.000075	J	0.0059		23		21		2.9		0.22		0.059		530		330	
056LM124	3/22/2006	2:35:00 PM	0.020	U	0.014		73		0.00053		0.083		0.00012		0.0017		21		20		2.6		0.18		0.042		470		320	
056LM162	4/25/2006	12:40:00 PM	0.14		0.0046		29		0.00022		0.018		0.0002		0.0073		1.5		7.8		0.67		0.041		0.014		160		90	
056LM197-STA 15	5/30/2006	1:15:00 PM	0.071		0.0095		37		0.00025	J	0.053		0.00018	J	0.0012	J	9.1		10		1.1		0.11		0.018		350		170	
056LM216-STA 15	6/26/2006	1:15:00 PM	1.6		0.025		93		0.00050	J	0.15		0.00031	J	0.013		38		26		3.6		0.31		0.075		770		450	
067LM012-STA 15	7/25/2006	1:40:00 PM	0.047		0.0037	J	500		0.00041	J	0.038		0.000072	J	0.0012	J	0.90		31		2.0		0.079		0.016		2100		1300	
067LM128-Sta 15	08/29/2006	1:05:00 PM	10		0.041		250		0.00053	J	0.32		0.0011	J	0.017		95		55		9.2		0.66		0.17		1700		1100	
067LM041-Sta15	09/27/2006	12:10:00 PM	0.042		0.0044	J	140		0.00027	J	0.067		0.00020	J	0.00069	J	0.93		37		3.0		0.14		0.025		800		500	

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**
056LM047-STA15	10/25/2005	12:40:00 PM	8.68		0.0236		208		0.0005	B	0.18		0.0021		0.0154		28.6		40.1		5.92		0.394		0.086	
056LM070-STA 15	11/30/2005	1:55:00 PM	6.4		0.0212		159		0.0003	B	0.16		0.0016		0.0096		23.4		34.8		5.05		0.293		0.064	
056LM084	12/27/2005	2:30:00 PM	8.4		0.0426		150		0.0008		0.14		0.0035		0.0556		36		36.8		5.1		0.28		0.082	
056LM098-STA15	1/24/2006	11:10:00 AM	9.0		0.044		110		0.00064		0.11		0.0051		0.035		33		28		4.0		0.27		0.069	
056LM099-STA15D	1/24/2006	11:10:00 AM	9.2		0.044		110		0.00064		0.11		0.0049	J	0.035		32		28		4.1		0.26		0.069	
056LM107-Sta15	2/22/2006	2:10:00 PM	8.0		0.043		80		0.00082		0.094		0.0061		0.031		27		22		3.0		0.22		0.059	
056LM124	3/22/2006	2:35:00 PM	5.9		0.035		81		0.00052		0.089		0.0029		0.021		25		21		2.6		0.18		0.048	
056LM162	4/25/2006	12:40:00 PM	2.8		0.014		30		0.00029		0.019		0.0022		0.04		5.6		8.2		0.7		0.046		0.024	
056LM197-STA 15	5/30/2006	1:15:00 PM	3.9		0.040		40		0.00031	J	0.055		0.0030	J	0.0081		16		11		1.2		0.12		0.029	
056LM216-STA 15	6/26/2006	1:15:00 PM	8.0		0.083		94		0.00049	J	0.15		0.0054		0.018		41		25		3.5		0.32		0.077	
067LM012-STA 15	7/25/2006	1:40:00 PM	1.9		0.0062		460		0.00043	J	0.037		0.0022	J	0.010		3.6		28		1.9		0.077		0.022	
067LM128-Sta 15	08/29/2006	1:05:00 PM	16		0.054		240		0.00056	J	0.33		0.0061		0.020		100		54		9.5		0.68		0.17	
067LM041-Sta15	09/27/2006	12:10:00 PM	2.5		0.0078		140		0.00029	J	0.065		0.00062	J	0.0097		3.5		34		3.6		0.13		0.033	

Sta 15 Field and Flow Data														
Date	**Time**	**pH**		**Temp**		**EC**		**SpC**		**Daily Mean Flow**		**Monthly Mean Flow**	
10/25/2005	12:40:00 PM	3.8	SU	10.5	°C	1024	uS/cm	1415	uS/cm	0.2	cfs	0.22	cfs
11/30/2005	1:55:00 PM	4.1	SU	2.4	°C	671	uS/cm	1181	uS/cm	0.2	cfs	0.2	cfs
12/27/2005	2:30:00 PM	5.9	SU	2.6	°C	639	uS/cm	1116	uS/cm	0.61	cfs	1.41	cfs
1/24/2006	2:05:00 PM	6.3	SU	1.9	°C	487	uS/cm	LErr	uS/cm	e0.57	cfs	1.11	cfs
1/24/2006	2:10:00 PM	6.3	SU	1.9	°C	487	uS/cm	LErr	uS/cm	e0.57	cfs	1.37	cfs
2/22/2006	2:10:00 PM	6.2	SU	3.2	°C	421	uS/cm	722	uS/cm	e0.48	cfs	1.37	cfs
3/22/2006	2:35:00 PM	6.6	SU	6	°C	421	uS/cm	660	uS/cm	e0.70	cfs	1.98	cfs
4/25/2006	12:40:00 PM	6.9	SU	7	°C	175	uS/cm	266	uS/cm	18	cfs	11.6	cfs
5/30/2006	1:15:00 PM	6.6	SU	13.4	°C	307	uS/cm	395	uS/cm	3.7	cfs	12.1	cfs
6/26/2006	1:15:00 PM	4.4	SU	17	°C	727	uS/cm	857	uS/cm	0.86	cfs	1.55	cfs
7/25/2006	1:40:00 PM	7	SU	22	°C	2076	uS/cm	2203	uS/cm	0.52	cfs	0.77	cfs
8/29/2006	1:05:00 PM	4.4	SU	16	°C	1427	uS/cm	1724	uS/cm	0.09	cfs	0.27	cfs
9/27/2006	12:10:00 PM	7.1	SU	9.2	°C	705	uS/cm	1010	uS/cm	0.1	cfs	0.12	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)

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

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

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

H - Analysis performed outside of method holding time

Table 7: Station 16

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**
056LM048-STA16	10/25/2005	12:55:00 PM	0.03	U	0.0385		84.9		0.0001	U	0.01	B	0.0001	U	0.0032		0.05	B	21.5		0.625		0.0126		0.006	B	440		245	
056LM077-STA 16	11/30/2005	2:05:00 PM	0.03	U	0.0195		75.5		0.0001	U	0.01	U	0.0002	B	0.0019	B	0.09		19.5		0.627		0.0143		0.007	B	430		227	
056LM086	12/27/2005	2:35:00 PM	0.07	B	0.0166		78.2		0.0001	U	0.01	B	0.0002	B	0.0019	B	0.09		20		0.942		0.0175		0.009	B	450	H	215	
056LM087	12/27/2005	2:25:00 PM	0.05	B	0.0165		77.8		0.0001	U	0.01	U	0.0002	B	0.0015	B	0.08		20		0.938		0.0175		0.008	B	450	H	217	
056LM100-STA16	1/24/2006	11:10:00 AM	0.043		0.0056		87		0.000061	J	0.015		0.00024	J	0.0011	J	0.48		22		1.5		0.036		0.016		500		306	
056LM106-Sta16	2/22/2006	2:00:00 PM	0.033		0.017		79		0.000051	J	0.0082		0.000030	J	0.0016		0.073		19		1.0		0.025		0.0081		470		250	
056LM125	3/22/2006	2:25:00 PM	0.041		0.016		84		0.0001	U	0.0065		0.00012		0.002		0.042		21		1.1		0.024		0.0063		470		310	
056LM163	4/25/2006	12:35:00 PM	0.095		0.0075		89		0.00024		0.013		0.0002	U	0.0045		0.12		22		1.2		0.044		0.024		460		300	
056LM198-STA 16	5/30/2006	1:05:00 PM	0.033		0.0055		110		0.00015	J	0.014		0.00011	J	0.0015	J	0.15		28		2.6		0.046		0.021		810		480	
056LM217-STA 16	6/26/2006	1:00:00 PM	0.019		0.016		110		0.000068	J	0.0041	J	0.000060	J	0.0022	J	0.020		28		1.3		0.018		0.0049	J	720		420	
067LM011-STA 16	7/25/2006	1:30:00 PM	0.029		0.017		84		0.000026	J	0.0023	J	0.000087	J	0.0021	J	0.025		21		0.63		0.0063		0.0011	J	550		290	
067LM129-Sta 16	08/29/2006	12:55:00 PM	0.013		0.013		73		0.000023	U	0.0031	J	0.00016	J	0.0015	J	0.050		19		0.75		0.0078		0.0020	J	430		220	
067LM042-Sta 16	09/27/2006	12:00:00 PM	0.0097	J	0.0078		75		0.000023	U	0.0046	J	0.00017	J	0.0015	J	0.038		20		0.58		0.011		0.0032	J	440		230	

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**
056LM048-STA16	10/25/2005	12:55:00 PM	0.34		0.0422		80.4		0.0001	U	0.01	B	0.0004	B	0.0073		0.45		20.3		0.641		0.0156		0.008	B
056LM077-STA 16	11/30/2005	2:05:00 PM	0.24		0.0228		75.3		0.0001	U	0.01	U	0.0003	B	0.0036		0.5		19.2		0.672		0.0133		0.009	B
056LM086	12/27/2005	2:35:00 PM	0.28		0.0189		79.2		0.0001	U	0.01	U	0.0004	B	0.0027	B	0.34		20.3		0.982		0.0173		0.008	B
056LM087	12/27/2005	2:25:00 PM	0.26		0.0201		78.3		0.0001	U	0.01	U	0.0004	B	0.0028	B	0.34		20.1		0.97		0.018		0.008	B
056LM100-STA16	1/24/2006	11:10:00 AM	0.45		0.012		91		0.000093		0.012		0.00036	J	0.0064		1.1		23		1.5		0.036		0.016	
056LM106-Sta16	2/22/2006	2:00:00 PM	0.34		0.023		80		0.000060	J	0.0076		0.00035		0.0049		0.50		20		1.1		0.025		0.0086	
056LM125	3/22/2006	2:25:00 PM	0.32		0.017		85		0.0001	U	0.0067		0.00031		0.0048		0.49		21		1.1		0.022		0.0088	
056LM163	4/25/2006	12:35:00 PM	2.8		0.035		96		0.00036		0.014		0.0019		0.084		3.5		23		1.4		0.057		0.058	
056LM198-STA 16	5/30/2006	1:05:00 PM	0.49		0.016		120		0.00026	J	0.016		0.00026	J	0.023		1.5		32		2.9		0.050		0.033	
056LM217-STA 16	6/26/2006	1:00:00 PM	0.26		0.021		110		0.00010	J	0.0040	J	0.00023	J	0.012		0.65		28		1.4		0.021		0.011	
067LM011-STA 16	7/25/2006	1:30:00 PM	0.20		0.020		83		0.000046	J	0.0031	J	0.00019	J	0.0080		0.47		20		0.76		0.0084		0.0051	J
067LM129-Sta 16	08/29/2006	12:55:00 PM	0.17		0.015		68		0.000032	J	0.0035	J	0.00036	J	0.0049	J	0.37		18		0.87		0.0088		0.0040	J
067LM042-Sta 16	09/27/2006	12:00:00 PM	0.11		0.010		70		0.000027	J	0.0048	J	0.00028	J	0.0062		0.42		18		1.3		0.011		0.0057	J

Sta 16 Field and Flow Data									
Date	**Time**	**pH**		**Temp**		**EC**		**SpC**	
10/25/2005	12:55:00 PM	7.9	SU	10.6	°C	485	uS/cm	669	uS/cm
11/30/2005	2:05:00 PM	7.8	SU	1.5	°C	347.7	uS/cm	LErr	uS/cm
12/27/2005	2:25:00 PM	2.44	SU	1	°C	349	uS/cm	LErr	uS/cm
12/27/2005	2:35:00 PM	2.44	SU	1	°C	349	uS/cm	LErr	uS/cm
1/24/2006	1:55:00 PM	6.9	SU	0.3	°C	327	uS/cm	LErr	uS/cm
2/22/2006	2:00:00 PM	7.2	SU	0.2	°C	353	uS/cm	LErr	uS/cm
3/22/2006	2:25:00 PM	7.6	SU	4.9	°C	436	uS/cm	708	uS/cm
4/25/2006	12:35:00 PM	7.4	SU	11	°C	501	uS/cm	683	uS/cm
5/30/2006	1:05:00 PM	7.5	SU	15.7	°C	59	uS/cm	71	uS/cm
6/26/2006	1:00:00 PM	7.7	SU	17.8	°C	826	uS/cm	958	uS/cm
7/25/2006	1:30:00 PM	7.6	SU	21.3	°C	664	uS/cm	714	uS/cm
8/29/2006	12:55:00 PM	7.7	SU	16.9	°C	345	uS/cm	410	uS/cm
9/27/2006	12:00:00 PM	7.7	SU	10.9	°C	452	uS/cm	619	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

e - estimated

Q - Qualifiers:

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

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

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

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

H - Analysis performed outside of method holding time

Table 8: Station 22

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**
056LM046-STA22	10/25/2005	11:45:00 AM	0.03	U	0.0006	B	26.3		0.0001	U	0.01	B	0.0001	U	0.0007	B	0.02	U	5.8		0.005	U	0.0006	U	0.003	B	100		1.1	B
056LM066-STA 22	11/30/2005	1:00:00 PM	0.03	U	0.0005	U	24		0.0001	U	0.01	U	0.0003	B	0.0005	U	0.02	U	5.3		0.005	B	0.0006	U	0.002	U	60		1.2	B
056LM082	12/27/2005	11:55:00 AM	0.03	U	0.0008	B	24.3		0.0001	U	0.01	U	0.0003	B	0.0005	U	0.13		5.4		0.005	U	0.0006	U	0.002	B	120	H	5	U
056LM092-Sta22	1/24/2006	11:10:00 AM	0.037		0.00060	J	22		0.000023	U	0.000084	J	0.00024	J	0.00017	J	0.0070	J	5.3		0.00095	J	0.00085	J	0.0010	J	130		2.6	B
056LM108-Sta22	2/22/2006	12:35:00 PM	0.0082	U	0.00046		23		0.000023	U	0.000055	J	0.000062	J	0.000099	J	0.022		5.3		0.0015	J	0.0012		0.00093	J	120		1.9	
056LM118	3/22/2006	10:40:00 AM	0.022		0.00058		22		0.0001	U	0.0001	U	0.00012		0.0005	U	0.046		5.4		0.01	U	0.00091		0.005	U	110		1.6	
056LM160	4/25/2006	11:45:00 AM	0.025		0.0012		22		0.0001	U	0.00012		0.0002	U	0.00079		0.02	U	5.5		0.01	U	0.0014		0.005	U	97		1.5	
056LM191-Sta 22	5/30/2006	11:50:00 AM	0.0082	U	0.00048	J	21		0.000023	U	0.00014	J	0.00013	J	0.000085	U	0.025		4.9		0.0024	J	0.00070	J	0.0011	J	140		1.2	
056LM214-Sta 22	6/26/2006	12:05:00 PM	0.0049	J	0.00068	J	23		0.000023	U	0.000092	J	0.00010	J	0.00017	J	0.0089	J	5.1		0.0011	J	0.0011	J	0.00073	U	130		1.2	J
056LM218-Sta 22 D	6/26/2006	12:10:00 PM	0.0047	J	0.00076	J	23		0.000023	U	0.00067	J	0.00011	J	0.00015	J	0.0082	J	5.3		0.0022	J	0.0011	J	0.00073	U	130		1.4	J
067LM008-Sta22	7/25/2006	11:55:00 AM	0.0024	U	0.00074	J	23		0.000023	U	0.000055	J	0.00013	J	0.00038	J	0.0064	J	5.2		0.0012	J	0.00014	U	0.0027	J	150		1.2	J
067LM127-Sta 22	08/29/2006	11:35:00 AM	0.0051	J	0.00057	J	23		0.000023	U	0.00061	J	0.00018	J	0.000092	J	0.0066	J	5.0		0.0019	J	0.00068	J	0.0037	J	110		1.3	J
067LM039-Sta 22	09/27/2006	11:40:00 AM	0.0053	J	0.00072	J	23		0.000023	U	0.000081	J	0.00030	J	0.00049	J	0.0048	U	5.4		0.00076	J	0.00025	J	0.0017	J	110		1.1	J

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**
056LM046-STA22	10/25/2005	11:45:00 AM	0.36		0.0006	B	24.3		0.0001	U	0.01	U	0.0007		0.0005	U	0.34		5.2		0.005	B	0.0007	B	0.003	B
056LM066-STA 22	11/30/2005	1:00:00 PM	0.12	B	0.0006	B	23.6		0.0001	U	0.01	U	0.002		0.0005	U	0.12		5.1		0.005	U	0.0006	U	0.003	B
056LM082	12/27/2005	11:55:00 AM	0.72		0.0009	B	26		0.0001	U	0.01	U	0.0006		0.0005	U	0.52		5.7		0.006	B	0.0006	U	0.002	U
056LM092-Sta22	1/24/2006	11:10:00 AM	0.077		0.00068	J	24		0.000023	U	0.000084	J	0.00024	J	0.00019	J	0.076		5.6		0.0028	J	0.00092	J	0.00073	U
056LM108-Sta22	2/22/2006	12:35:00 PM	0.085		0.00057		23		0.000023	U	0.000093	J	0.00027		0.00017	J	0.097		5.3		0.0033	J	0.0011		0.0011	J
056LM118	3/22/2006	10:40:00 AM	0.057		0.00062		22		0.0001	U	0.0001		0.0002	U	0.0005	U	0.1		5.7		0.01	U	0.00091		0.002	U
056LM160	4/25/2006	11:45:00 AM	0.13		0.0026		22		0.0001	U	0.0002		0.00022		0.00079		0.13		5.6		0.01	U	0.0016		0.0025	
056LM191-Sta 22	5/30/2006	11:50:00 AM	0.10		0.00061	J	24		0.000023	U	0.00014	J	0.00019	J	0.00017	J	0.25		5.5		0.0072	J	0.00090	J	0.0019	J
056LM214-Sta 22	6/26/2006	12:05:00 PM	0.061		0.00068	J	23		0.000023	U	0.000087	J	0.00017	J	0.00015	J	0.10		5.1		0.0044	J	0.00098	J	0.0010	J
056LM218-Sta 22 D	6/26/2006	12:10:00 PM	0.068		0.00059	J	24		0.000023	U	0.00010	J	0.00015	J	0.00015	J	0.11		5.3		0.0046	J	0.0010	J	0.0011	J
067LM008-Sta22	7/25/2006	11:55:00 AM	0.054		0.00077	J	24		0.000023	U	0.00013	J	0.00023	J	0.00023	J	0.18		5.3		0.0066		0.00028	J	0.0019	J
067LM127-Sta 22	08/29/2006	11:35:00 AM	0.29		0.00070	J	23		0.000023	U	0.00017	J	0.00052	J	0.00029	J	0.24		5.0		0.0092		0.00054	J	0.0027	J
067LM039-Sta 22	09/27/2006	11:40:00 AM	0.084		0.00058	J	22		0.000023	U	0.00012	J	0.00031	J	0.00020	J	0.14		4.9		0.0061		0.00033	J	0.0023	J

Sta 22 Field and Flow Data														
										Daily Mean Flow		Monthly Mean Flow	
Date	**Time**	**pH**		**Temp**		**EC**		**SpC**					
10/25/2005	11:45:00 AM	8.4	SU	12.2	°C	147	uS/cm	195	uS/cm	0.2	cfs	0.21	cfs
11/30/2005	1:00:00 PM	8	SU	5	°C	117.1	uS/cm	189.5	uS/cm	e0.23	cfs	0.24	cfs
12/27/2005	11:55:00 AM	8.03	SU	4	°C	111	uS/cm	186	uS/cm	0.23	cfs	0.22	cfs
1/24/2006	11:10:00 AM	7.9	SU	1.9	°C	106	uS/cm	LErr	uS/cm	0.23	cfs	0.26	cfs
2/22/2006	12:35:00 PM	8	SU	7.3	°C	126	uS/cm	190	uS/cm	0.22	cfs	0.25	cfs
3/22/2006	10:40:00 AM	8.2	SU	6.8	°C	123	uS/cm	189	uS/cm	0.18	cfs	0.2	cfs
4/25/2006	11:45:00 AM	7.7	SU	10.6	°C	95	uS/cm	133	uS/cm	0.4	cfs	0.4	cfs
5/30/2006	11:50:00 AM	8	SU	15.2	°C	157	uS/cm	194	uS/cm	0.27	cfs	0.26	cfs
6/26/2006	12:05:00 PM	8.1	SU	18.1	°C	167.5	uS/cm	193	uS/cm	0.23	cfs	0.25	cfs
6/26/2006	12:10:00 PM	8.1	SU	18.1	°C	167.5	uS/cm	193	uS/cm	0.23	cfs	0.25	cfs
7/25/2006	11:55:00 AM	7.8	SU	19.4	°C	170	uS/cm	190	uS/cm	0.2	cfs	0.21	cfs
8/29/2006	11:35:00 AM	8	SU	16.3	°C	158	uS/cm	189	uS/cm	0.24	cfs	0.17	cfs
9/27/2006	11:40:00 AM	8.2	SU	13.8	°C	148	uS/cm	189	uS/cm	0.21	cfs	0.24	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)

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

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

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

H - Analysis performed outside of method holding time

Table 9: Station 23

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**
056LM049-STA23	10/25/2005	1:53:00 PM	0.06	B	0.0018	B	147		0.0001	B	0.07		0.0001	U	0.0042		0.93		30.9		2.43		0.121		0.02		730		481	
056LM067-STA 23	11/30/2005	2:30:00 PM	0.03	U	0.0014	B	116		0.0001	B	0.05		0.0001	B	0.0007	B	1.99		26.1		2.03		0.109		0.02		600		404	
056LM088	12/27/2005	3:05:00 PM	0.03	U	0.0019	B	108		0.0002	B	0.05	B	0.0001	B	0.0013	B	3.75		25.2		2		0.101		0.022		600	H	337	
056LM101-STA23	1/24/2006	11:10:00 AM	0.030		0.0046	J	85		0.00029	J	0.051		0.00027	J	0.0015	J	8.2		22		2.1		0.13		0.027		510		328	
056LM109-Sta23	2/22/2006	2:45:00 PM	0.015	J	0.0059		80		0.00046		0.054		0.000023	J	0.00098		7.6		20		2.0		0.13		0.029		490		290	
056LM126	3/22/2006	3:05:00 PM	0.020	U	0.0026		62		0.00016		0.033		0.0001	U	0.0009		1.9		17		1.3		0.074		0.012		370		240	
056LM130	3/22/2006	3:15:00 PM	0.020	U	0.0027		62		0.00017		0.032		0.0001	U	0.00064		1.9		17		1.3		0.073		0.012		370		230	
056LM164	4/25/2006	1:35:00 PM	0.17		0.0039		32		0.0001		0.013		0.00027		0.006		0.32		8.8		0.55		0.03		0.0079		170		94	
056LM199-Sta 23	5/30/2006	1:50:00 PM	0.038		0.0032	J	50		0.00011	J	0.035		0.00014	J	0.00059	J	0.46		13		1.1		0.080		0.0072	J	380		210	
056LM219-Sta 23	6/26/2006	1:45:00 PM	0.0077	J	0.0024	J	86		0.00022	J	0.069		0.000065	J	0.00047	J	4.3		23		1.9		0.15		0.028		570		350	
067LM013-Sta 23	7/25/2006	2:15:00 PM	0.030		0.0026	J	290		0.00016	J	0.016		0.000085	J	0.0013	J	0.0048	U	30		1.2		0.053		0.0041	J	1300		800	
067LM131-Sta 23	08/29/2006	1:25:00 PM	0.0052	J	0.0012	J	130		0.000099	J	0.057		0.00012	J	0.00068	J	1.1		29		2.6		0.13		0.015		720		480	
067LM043-Sta 23	09/27/2006	12:50:00 PM	0.010		0.0026	J	93		0.000024	J	0.0064		0.00024	J	0.0012	J	0.0048	U	23		0.49		0.024		0.0027	J	510		310	

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**
056LM049-STA23	10/25/2005	1:53:00 PM	1.83		0.0166		142		0.0002	B	0.07		0.0006		0.0063		5.51		29.3		2.33		0.137		0.031	
056LM067-STA 23	11/30/2005	2:30:00 PM	1.15		0.0088		112		0.0001	B	0.05		0.0004	B	0.0025	B	4.19		25.2		1.94		0.0958		0.021	
056LM088	12/27/2005	3:05:00 PM	3.37		0.0183		112		0.0003	B	0.05		0.0015		0.0253		8.76		26.4		2.13		0.105		0.072	
056LM101-STA23	1/24/2006	11:10:00 AM	5.4		0.024		91		0.00035		0.055		0.0030	J	0.022		14		23		2.3		0.13		0.036	
056LM109-Sta23	2/22/2006	2:45:00 PM	5.1		0.027		78		0.00052		0.055		0.0040		0.020		12		20		2.0		0.13		0.036	
056LM126-Sta 23	3/22/2006	3:05:00 PM	2.4		0.014		62		0.00021		0.034		0.0013		0.0093		6.9		18		1.3		0.078		0.021	
056LM130-Sta 23	3/22/2006	3:15:00 PM	2.4		0.014		62		0.00021		0.034		0.0013		0.0093		6.8		17		1.3		0.079		0.021	
056LM164	4/25/2006	1:35:00 PM	2.3		0.015		33		0.00022		0.014		0.0019		0.034		4.5		9.1		0.6		0.036		0.021	
056LM199-Sta 23	5/30/2006	1:50:00 PM	2.5		0.026		55		0.00024	J	0.039		0.0019	J	0.0099		8.1		14		1.2		0.088		0.024	
056LM219-Sta 23	6/26/2006	1:45:00 PM	3.2		0.033		88		0.00025	J	0.069		0.0021	J	0.0097		13		23		1.9		0.16		0.038	
067LM013-Sta 23	7/25/2006	2:15:00 PM	0.92		0.011		290		0.00022	J	0.016		0.00085	J	0.0071		3.0		28		1.1		0.057		0.012	
067LM131-Sta 23	08/29/2006	1:25:00 PM	3.3		0.021		130		0.00019	J	0.063		0.0014	J	0.0074		15		28		2.6		0.14		0.033	
067LM043-Sta 23	09/27/2006	12:50:00 PM	0.092		0.0041	J	90		0.000036	J	0.0068		0.00025	J	0.0016	J	0.53		21		0.93		0.024		0.0044	J

Sta 23 Field and Flow Data											Daily Mean Flow		Monthly Mean Flow	
Date	**Time**	**pH**		**Temp**		**EC**		**SpC**						
10/25/2005	1:53:00 PM	7.3	SU	9.7	°C	689	uS/cm	937	uS/cm		0.56	cfs	0.55	cfs
11/30/2005	2:30:00 PM	7.4	SU	0.4	°C	449.9	uS/cm	LErr	uS/cm		e0.90	cfs	0.84	cfs
12/27/2005	3:05:00 PM	7.1	SU	2.2	°C	453	uS/cm	804	uS/cm		2.3	cfs	5.69	cfs
1/24/2006	2:45:00 PM	7.1	SU	0	°C	370	uS/cm	LErr	uS/cm		1.1	cfs	3.23	cfs
2/22/2006	2:45:00 PM	7.1	SU	0	°C	357	uS/cm	LErr	uS/cm		0.92	cfs	3.03	cfs
3/22/2006	3:05:00 PM	7.3	SU	5.4	°C	336	uS/cm	536	uS/cm		1.1	cfs	4.17	cfs
3/22/2006	3:15:00 PM	7.3	SU	5.4	°C	336	uS/cm	536	uS/cm		1.1	cfs	4.17	cfs
4/25/2006	1:35:00 PM	7.5	SU	8.4	°C	195	uS/cm	285	uS/cm		29	cfs	21.5	cfs
5/30/2006	1:50:00 PM	7.1	SU	13.5	°C	377	uS/cm	484	uS/cm		4.3	cfs	12.3	cfs
6/26/2006	1:45:00 PM	6.4	SU	18.4	°C	623	uS/cm	713	uS/cm		1.3	cfs	1.93	cfs
7/25/2006	2:15:00 PM	7.8	SU	22.3	°C	1452	uS/cm	1531	uS/cm		0.94	cfs	1.19	cfs
8/29/2006	1:25:00 PM	6.6	SU	16.8	°C	795	uS/cm	942	uS/cm		0.28	cfs	0.51	cfs
9/27/2006	12:50:00 PM	7.7	SU	8.6	°C	497	uS/cm	725	uS/cm		0.18	cfs	0.27	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)

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

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

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

H - Analysis performed outside of method holding time

Table 10: Station 24

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**
056LM050-STA24	10/25/2005	1:40:00 PM	0.03	B	0.0012	B	17.8		0.0001	U	0.01	U	0.0001	U	0.0012	B	0.02	B	6.2		0.007	B	0.0006	U	0.003	B	130	H	1.1	B
056LM068-STA 24	11/30/2005	2:20:00 PM	0.03	U	0.0009	B	16.7		0.0001	U	0.01	U	0.0002	B	0.0005	U	0.02	U	5.9		0.006	B	0.0006	U	0.003	B	80		1.2	B
056LM089	12/27/2005	3:15:00 PM	0.08	B	0.0011	B	16.8		0.0001	U	0.01	U	0.0002	B	0.0005	B	0.08		6.1		0.009	B	0.0006	U	0.004	B	120	H	1.7	B
056LM102-STA24	1/24/2006	11:10:00 AM	0.099		0.0017	J	18		0.000023	U	0.0025	J	0.00036	J	0.00072	J	0.086		7.1		0.0097	J	0.0013	J	0.0015	J	120		2	B
056LM110-Sta24	2/22/2006	2:35:00 PM	0.039		0.0015		18		0.000023	U	0.00067		0.00011	J	0.00026	J	0.053		6.9		0.0049	J	0.00089		0.0016	J	120		2	
056LM127	3/22/2006	3:00:00 PM	0.054		0.0016		18		0.0001	U	0.0043		0.00022		0.00055		0.11		7.1		0.1	U	0.0016		0.005	U	120		1.9	
056LM165	4/25/2006	1:20:00 PM	0.088		0.0019	*	16		0.0001	U	0.00023	*	0.00023		0.00093		0.098		5.9		0.01	U	0.0012		0.005	U	98		1.9	
056LM166	4/25/2006	1:25:00 PM	0.11		0.0026	*	16		0.0001	U	0.0018	*	0.00024		0.00091		0.11		5.9		0.01	U	0.0014		0.005	U	100		1.9	
056LM200-Sta 24	5/30/2006	1:40:00 PM	0.035		0.0013	J	14		0.000023	U	0.0045	J	0.00020	J	0.00039	J	0.052		5.2		0.014		0.0014	J	0.0039	J	120		1.3	
056LM220-Sta 24	6/26/2006	1:35:00 PM	0.012		0.0016	J	17		0.000023	U	0.00011	J	0.000083	J	0.00025	J	0.032		6.4		0.0067		0.00079	J	0.0010	J	130		1.1	J
067LM014-Sta 24	7/25/2006	2:05:00 PM	0.012		0.0016	J	18		0.000023	U	0.000095	J	0.00011	J	0.00020	J	0.034		6.7		0.0056		0.00020	J	0.00073	U	140		0.86	J
067LM130-Sta 24	08/29/2006	1:40:00 PM	0.0086	J	0.0014	J	17		0.000023	U	0.0018	J	0.00020	J	0.00022	J	0.024		6.3		0.0049	J	0.00077	J	0.0013	J	110		1.1	J
067LM044-Sta 24	09/27/2006	12:40:00 PM	0.0071	J	0.0012	J	17		0.000023	U	0.000099	J	0.00022	J	0.00028	J	0.014		6.4		0.0024	J	0.00037	J	0.0017	J	99		1.1	J

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**
056LM050-STA24	10/25/2005	1:40:00 PM	0.17	B	0.0012	B	17.3		0.0001	U	0.01	U	0.0003	B	0.0016	B	0.18		6		0.012	B	0.0006	B	0.004	B
056LM068-STA 24	11/30/2005	2:20:00 PM	0.08	B	0.0011	B	17		0.0001	U	0.01	U	0.0003	B	0.0005	U	0.13		5.8		0.012	B	0.0006	U	0.003	B
056LM089	12/27/2005	3:15:00 PM	0.33		0.0015	B	18.2		0.0001	U	0.01	U	0.0006		0.0005	U	0.8		6.5		0.05	U	0.0006	U	0.005	B
056LM102-STA24	1/24/2006	11:10:00 AM	0.13		0.0018	J	19		0.000023	U	0.00015	J	0.00043	J	0.0011	J	0.17		7.4		0.011		0.00084	J	0.0017	J
056LM110-Sta24	2/22/2006	2:35:00 PM	0.12		0.0016		18		0.000023	U	0.00011		0.00035		0.00041	J	0.14		6.7		0.0071	J	0.00098		0.0011	J
056LM127	3/22/2006	3:00:00 PM	0.12		0.0015		18		0.0001	U	0.00012		0.00021		0.0005	U	0.16		7.5		0.01		0.00084		0.002	U
056LM165	4/25/2006	1:20:00 PM	0.54		0.0027		17		0.0001	U	0.00056		0.0005		0.0018		0.63		6.2		0.035		0.0016		0.0028	
056LM166	4/25/2006	1:25:00 PM	0.53		0.0027		17		0.0001	U	0.00053		0.00045		0.0017		0.61		6.3		0.034		0.0014		0.0032	
056LM200-Sta 24	5/30/2006	1:40:00 PM	0.43		0.0014	J	15		0.000023	U	0.00038	J	0.00039	J	0.00063	J	0.40		5.5		0.026		0.00089	J	0.0036	J
056LM220-Sta 24	6/26/2006	1:35:00 PM	0.15		0.0016	J	17		0.000023	U	0.00025	J	0.00018	J	0.00039	J	0.24		6.4		0.024		0.0010	J	0.0015	J
067LM014-Sta 24	7/25/2006	2:05:00 PM	0.10		0.0018	J	17		0.000023	U	0.00019	J	0.00018	J	0.00033	J	0.16		6.4		0.020		0.00045	J	0.0020	J
067LM130-Sta 24	08/29/2006	1:40:00 PM	0.11		0.0013	J	17		0.000023	U	0.00017	J	0.00025	J	0.00032	J	0.16		6.4		0.016		0.00054	J	0.0021	J
067LM044-Sta 24	09/27/2006	12:40:00 PM	0.043		0.0012	J	16		0.000023	U	0.00014	J	0.00026	J	0.00023	J	0.093		5.9		0.011		0.00032	J	0.0020	J

Sta 1 Field and Flow Data								
Date	**Time**	**pH**		**Temp**		**EC**		**SpC**	
10/25/2005	1:40:00 PM	7.9	SU	8.9	°C	114	uS/cm	165	uS/cm
11/30/2005	2:20:00 PM	8.1	SU	2.2	°C	92.1	uS/cm	163.2	uS/cm
12/27/2005	3:15:00 PM	8.1	SU	2.9	°C	95	uS/cm	165	uS/cm
1/24/2006	2:40:00 PM	7.8	SU	0.4	°C	94.3	uS/cm	LErr	uS/cm
2/22/2006	2:35:00 PM	8	SU	0.9	°C	96	uS/cm	LErr	uS/cm
3/22/2006	3:00:00 PM	8.1	SU	4.6	°C	109	uS/cm	180	uS/cm
4/25/2006	1:20:00 PM	7.6	SU	8.2	°C	104	uS/cm	153	uS/cm
4/25/2006	1:25:00 PM	7.6	SU	8.2	°C	104	uS/cm	153	uS/cm
5/30/2006	1:40:00 PM	7.6	SU	12.1	°C	111	uS/cm	148	uS/cm
6/26/2006	1:35:00 PM	7.9	SU	16.1	°C	135	uS/cm	162	uS/cm
7/25/2006	2:05:00 PM	7.7	SU	18.8	°C	146	uS/cm	165	uS/cm
8/29/2006	1:40:00 PM	7.5	SU	14.6	°C	136	uS/cm	170	uS/cm
9/27/2006	12:40:00 PM	7.6	SU	8.3	°C	109	uS/cm	161	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

e - estimated

Q - Qualifiers:

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

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

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

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

H - Analysis performed outside of method holding time

Table 11: Station 25

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**
056LM051-STA25	10/25/2005	1:25:00 PM	0.03	B	0.0012	B	54.3		0.0001	U	0.03	B	0.0001	U	0.0016	B	0.14		13.1		0.652		0.0332		0.006	B	300		140	
056LM069-STA 25	11/30/2005	2:40:00 PM	0.03	U	0.0008	B	46		0.0001	U	0.01	B	0.0001	B	0.0005	U	0.28		12		0.558		0.0296		0.007	B	240		125	
056LM090	12/27/2005	3:40:00 PM	0.03	U	0.0009	B	51.3		0.0001	U	0.02	B	0.0001	B	0.0009	B	0.76		13.5		0.733		0.0368		0.01	B	300	H	134	
056LM103-STA 25	1/24/2006	11:10:00 AM	0.016	J	0.0024	J	50		0.00011	J	0.024		0.00031	J	0.00097	J	2.9		14		1.0		0.058		0.0094	J	300		157	
056LM111-STA 25	2/22/2006	3:00:00 PM	0.015	J	0.0025		46		0.00020		0.023		0.000022	J	0.00071		2.4		13		0.89		0.058		0.010		290		130	
056LM117-STA 25D	2/22/2006	3:05:00 PM	0.011	J	0.0026		47		0.00015		0.024		0.000016	J	0.00074		2.5		13		0.90		0.059		0.011		280		140	
056LM128	3/22/2006	3:30:00 PM	0.020	U	0.0017		41		0.0001	U	0.015		0.0001	U	0.0005	U	0.47		12		0.64		0.033		0.005	U	250		120	
056LM167	4/25/2006	1:50:00 PM	0.16		0.0039		26		0.0001	U	0.0084		0.00027		0.005		0.26		7.7		0.35		0.019		0.005	U	140		62	
056LM201-Sta 25	5/30/2006	2:05:00 PM	0.032		0.0021	J	31		0.000035	J	0.015		0.00014	J	0.00058	J	0.060		9.1		0.50		0.035		0.0026	J	240		99	
056LM221-Sta 25	6/26/2006	2:00:00 PM	0.011		0.0010	J	42		0.000034	J	0.021		0.000079	J	0.00042	J	0.084		12		0.64		0.048		0.0040	J	280		120	
067LM015-Sta 25	7/25/2006	2:30:00 PM	0.012		0.0021	J	110		0.000038	J	0.0047	J	0.00015	J	0.00078	J	0.023		15		0.37		0.017		0.0017	J	560		260	
067LM132-Sta 25	08/29/2006	2:05:00 PM	0.0096	J	0.0013	J	45		0.000023	U	0.011		0.00017	J	0.00043	J	0.0050	J	12		0.51		0.026		0.0016	J	240		110	
067LM045-Sta 25	09/27/2006	1:25:00 PM	0.0047	J	0.0015	J	34		0.000023	U	0.0012	J	0.00022	J	0.00054	J	0.0048	U	10		0.10		0.0049	J	0.0015	J	180		63	

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**
056LM051-STA25	10/25/2005	1:25:00 PM	0.63		0.0053		56.1		0.0001	U	0.02	B	0.0004	B	0.0021	B	1.76		13.5		0.678		0.0403		0.01	B
056LM069-STA 25	11/30/2005	2:40:00 PM	0.36		0.0033		45		0.0001	U	0.02	B	0.0003	B	0.0011	B	1.05		11.6		0.541		0.0281		0.008	B
056LM090	12/27/2005	3:40:00 PM	1.35		0.0076		51.9		0.0001	B	0.02	B	0.0009		0.0079		3.51		13.7		0.765		0.0387		0.014	
056LM103-STA 25	1/24/2006	11:10:00 AM	2.4		0.010		53		0.00017		0.024		0.0016	J	0.011		6.3		15		1.1		0.067		0.019	
056LM111-STA 25	2/22/2006	3:00:00 PM	2.2		0.012		47		0.00021		0.024		0.0019		0.0088		5.3		13		0.90		0.060		0.016	
056LM117-STA 25D	2/22/2006	3:05:00 PM	2.2		0.012		46		0.00022		0.025		0.0018		0.0088		5.3		13		0.90		0.060		0.017	
056LM128	3/22/2006	3:30:00 PM	1.2		0.0071		45		0.0001	U	0.016		0.00072		0.0049		3.2		12		0.69		0.038		0.01	
056LM167	4/25/2006	1:50:00 PM	1.6		0.011		29		0.00014		0.009		0.0013		0.022		3.1		8.3		0.42		0.024		0.014	
056LM201-Sta 25	5/30/2006	2:05:00 PM	1.3		0.013		34		0.00011	J	0.018		0.0011	J	0.0050		4.0		9.5		0.59		0.041		0.012	
056LM221-Sta 25	6/26/2006	2:00:00 PM	1.1		0.013		43		0.000087	J	0.023		0.00084	J	0.0036	J	4.7		12		0.64		0.053		0.014	
067LM015-Sta 25	7/25/2006	2:30:00 PM	0.34		0.0049	J	110		0.000077	J	0.0054		0.00042	J	0.0026	J	1.3		14		0.39		0.019		0.0051	J
067LM132-Sta 25	08/29/2006	2:05:00 PM	0.79		0.0059		43		0.000045	J	0.013		0.00058	J	0.0020	J	3.2		11		0.55		0.030		0.0090	J
067LM045-Sta 25	09/27/2006	1:25:00 PM	0.049		0.0017	J	33		0.000023	U	0.0014	J	0.00025	J	0.00051	J	0.13		9.3		0.11		0.0051		0.0027	J

Sta 25 Field and Flow Data											Daily Mean		Monthly	
Date	**Time**	**pH**		**Temp**		**EC**		**SpC**			**Flow**		**Mean Flow**	
10/25/2005	1:25:00 PM	7.8	SU	9.2	°C	270	uS/cm	387	uS/cm		e1.7	cfs	1.53	cfs
11/30/2005	2:40:00 PM	7.8	SU	2	°C	221.1	uS/cm	394.4	uS/cm		e1.8	cfs	1.65	cfs
12/27/2005	3:40:00 PM	7.8	SU	2.7	°C	248	uS/cm	432	uS/cm		5.8	cfs	8.48	cfs
1/24/2006	2:55:00 PM	7.4	SU	0.4	°C	237	uS/cm	LErr	uS/cm		2.5	cfs	5.7	cfs
2/22/2006	3:00:00 PM	7.4	SU	0.8	°C	229	uS/cm	LErr	uS/cm		2.1	cfs	5.17	cfs
2/22/2006	3:05:00 PM	7.4	SU	0.8	°C	229	uS/cm	LErr	uS/cm		2.1	cfs	5.17	cfs
3/22/2006	3:30:00 PM	7.7	SU	5	°C	225	uS/cm	364	uS/cm		4.6	cfs	10.7	cfs
4/25/2006	1:50:00 PM	7.8	SU	8.7	°C	166	uS/cm	240	uS/cm		31	cfs	23.9	cfs
5/30/2006	2:05:00 PM	7.7	SU	13.2	°C	245	uS/cm	316	uS/cm		9.4	cfs	20.9	cfs
6/26/2006	2:00:00 PM	7.5	SU	17.5	°C	318.8	uS/cm	372	uS/cm		4.1	cfs	5.43	cfs
7/25/2006	2:30:00 PM	7.9	SU	20.7	°C	637	uS/cm	694	uS/cm		3.1	cfs	3.5	cfs
8/29/2006	2:05:00 PM	7.7	SU	16	°C	310	uS/cm	375	uS/cm		2.2	cfs	2.55	cfs
9/27/2006	1:25:00 PM	7.7	SU	9.5	°C	211	uS/cm	301	uS/cm		2.3	cfs	2.32	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)

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

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

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

H - Analysis performed outside of method holding time

Table 12: Semi Annual Stations and other samples

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 Creek	056LM059-4L	10/26/2005	2:45:00 PM	0.03	U	0.0033		53.1		0.0001	U	0.01	U	0.0002	B	0.0006	B	0.02	U	13.7		0.005	U	0.001	B	0.004	B	320		144	
4L Creek	056LM204-4L	05/31/2006	11:20:00 AM	0.10		0.0026	J	20		0.000023	U	0.00028	J	0.00021	J	0.00082	J	0.014	J	5.6		0.024		0.0020	J	0.0027	J	170		40	
Delta Seep	056LM058-DS	10/26/2005	2:20:00 PM	7.55		0.0603		312		0.0013		0.26		0.0011		0.0524		20.3		86.4		16.2		0.476		0.163		1780		1270	
Delta Seep	056LM203-DS	05/31/2006	11:45:00 AM	25		0.047		310		0.0033		0.33		0.011		0.21		39		92		19		0.71		0.37		2200		1500	
Delta Seep	056LM207-DS Dup	05/31/2006	11:55:00 AM	24		0.045		290		0.0033		0.34		0.011		0.21		38		93		18		0.74		0.38		2200		1500	
Delta Slope Under-drain	056LM063-DSUD	10/26/2005	2:05:00 PM	60		0.002	B	416		0.0101		0.55		0.0187		0.49		21.8		121		28.6		1.09		0.95		2860		1490	
Station 26	056LM060-26	10/26/2005	12:10:00 PM	0.03	U	0.004		43.6		0.0001	U	0.01	U	0.0004	B	0.0005	U	0.03	B	13.2		0.025	B	0.0044		0.004	B	250		89.7	
Station 26	056LM062-26-D	10/26/2005	12:15:00 PM	0.03	U	0.0039		43.8		0.0001	U	0.01	U	0.0004	B	0.0005	U	0.03	B	13.2		0.024	B	0.0042		0.007	B	250		90	
Station 26	056LM205-Sta 26	05/31/2006	9:55:00 AM	0.088		0.0029	J	27		0.000023	U	0.0065		0.00022	J	0.00074	J	0.14		8.5		0.27		0.020		0.0022	J	210		71	

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 Creek	056LM059-4L	10/26/2005	2:45:00 PM	0.05	B	0.0032		56.8		0.0001	U	0.01	U	0.0003	B	0.0005	U	0.03	B	15		0.005	U	0.0007	B	0.003	B
4L Creek	056LM204-4L	05/31/2006	11:20:00 AM	0.99		0.0036	J	21		0.000023	U	0.00036	J	0.00068	J	0.0013	J	0.57		5.8		0.031		0.0022	J	0.0041	J
Delta Seep	056LM058-DS	10/26/2005	2:20:00 PM	9.72		0.0579		336		0.0012		0.29		0.0033		0.0531		23.3		95.2		17.9		0.441		0.151	
Delta Seep	056LM203-DS	05/31/2006	11:45:00 AM	27		0.046		320		0.0034		0.34		0.012		0.21		43		97		19		0.72		0.35	
Delta Seep	056LM207-DS Dup	05/31/2006	11:55:00 AM	28		0.045		330		0.0033		0.34		0.012		0.21		44		100		20		0.70		0.39	
Delta Slope Under-drain	056LM063-DSUD	10/26/2005	2:05:00 PM	64.3		0.004	B	436		0.011		0.61		0.0232		0.586		23.2		130		30.6		1.32		1.04	
Station 26	056LM060-26	10/26/2005	12:10:00 PM	0.07	B	0.004		44.3		0.0001	U	0.01	U	0.0005	B	0.0005	U	0.18		13.6		0.029	B	0.0043		0.003	B
Station 26	056LM062-26-D	10/26/2005	12:15:00 PM	0.09	B	0.004		44.5		0.0001	U	0.01	U	0.0005	B	0.0009	B	0.17		13.6		0.028	B	0.0043		0.004	B
Station 26	056LM205-Sta 26	05/31/2006	9:55:00 AM	0.97		0.0099		29		0.000079	J	0.0089		0.00091	J	0.0035	J	2.9		9.1		0.33		0.026		0.0084	J

Field and Flow Data												Daily Mean Flow		Monthly Mean Flow	
Station	**Sample ID**	**Date**	**Time**	**pH**		**Temp**		**EC**		**SpC**					
4L Creek	056LM059-4L	10/26/2005	2:45:00 PM	7	SU	6.9	°C	288	uS/cm	440	uS/cm	0.02	cfs	0.02	cfs
4L Creek	056LM204-4L	5/31/2006	11:20:00 AM	7.2	SU	9.8	°C	140	uS/cm	198	uS/cm	0.68	cfs	3.7	cfs
Delta Seep	056LM058-DS	10/26/2005	2:20:00 PM	5.1	SU	8.7	°C	1353	uS/cm	1965	uS/cm	NA	cfs	NA	cfs
Delta Seep	056LM203-DS	5/31/2006	11:45:00 AM	3.5	SU	10.4	°C	1598	uS/cm	2217	uS/cm	NA	cfs	NA	cfs
Delta Seep	056LM207-DS Dup	5/31/2006	11:55:00 AM	3.5	SU	10.4	°C	1598	uS/cm	2217	uS/cm	NA	cfs	NA	cfs
Delta Slope Under-drain	056LM063-DSUD	10/26/2005	2:05:00 PM	2.9	SU	10.4	°C	2168	uS/cm	2977	uS/cm	NA	cfs	NA	cfs
Station 26	056LM060-26	10/26/2005	12:10:00 PM	7.85	SU	10.5	°C	264	uS/cm	364	uS/cm	3.7	cfs	3.15	cfs
Station 26	056LM062-26-D	10/26/2005	12:15:00 PM	7.85	SU	10.5	°C	264	uS/cm	364	uS/cm	3.7	cfs	3.15	cfs
Station 26	056LM205-Sta 26	5/31/2006	9:55:00 AM	7.6	SU	10	°C	190	uS/cm	267	uS/cm	9.7	cfs	30.1	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)

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

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

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

H - Analysis performed outside of method holding time

Attachment C

Level A/B and Data Validation Checklists

Leviathan Mine
Level A/B Screening Checklist

I. General Information

Project: October Monthly
Sample Date: 10/25/05
Client/Lab: Water Board / ACZ 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: 10/25/05
Data Validator: LS

Report No.: L53935, L54583
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 1/25/07

Laboratory: ACZ 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	10/25/05	11/11,16,22/05	NA
Total Dissolved Solids	AQ	160.1	10/25/05	10/28/05	NA
Metals	AQ	200.7	10/25/05	11/1,2/05	NA
Metals	AQ	200.8	10/25/05	11/2,3,5/05	NA
Total Dissolved Solids (re-analysis)	AQ	160.1	10/25/05	12/18/05	Y
Metals (re-analyses)	AQ	200.7	10/25/05	12/20,30/05	NA
Metals (re-analyses)	AQ	200.8	10/25/05	12/17/05, 1/3/06	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: November Monthly
Sample Date: 11/30/05
Client/Lab: Water Board / ACZ 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: November Monthly
Sample Dates: 11/30/05
Data Validator: LS

Report No.: L54455
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 1/24/07

Laboratory: ACZ 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	11/30/05	12/13/05	NA
Total Dissolved Solids	AQ	160.1	11/30/05	12/7,12/05	Y
Metals	AQ	200.7	11/30/05	12/10,12,13,14,15,20,29/05	NA
Metals	AQ	200.8	11/30/05	12/9,11,13,14/05	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: Fall Semi-Annual
Sample Date: 10/26/05
Client/Lab: Water Board / ACZ Labs
Sample Matrix: AQ
Sample Location(s): Delta Seep, 4L Creek, Sta 26, Delta Seep Under-drain

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: 10/26/05
Data Validator: LS

Report No.: L53980
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 1/24/07

Laboratory: ACZ 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	10/26/05	11/22/05	NA
Total Dissolved Solids	AQ	160.1	10/26/05	10/31/05	NA
Metals	AQ	200.7	10/26/05	11/4,6,9/04	NA
Metals	AQ	200.8	10/26/05	11/5,8,11/04; 12/3/05	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: December Monthly
Sample Date: 12/27/05
Client/Lab: Water Board / ACZ 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: 12/27/05
Data Validator: LS

Report No.: L54743,L55349,L55625
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 1/24/07

Laboratory: ACZ
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	12/27/05	1/5,6,23/06	NA
Total Dissolved Solids	AQ	160.1	12/27/05	1/4/06	Y
Metals	AQ	200.7	12/27/05	1/4,5,6,25/06	NA
Metals	AQ	200.8	12/27/05	1/5,6,9,11/06	NA
Metals (re-analyses)	AQ	200.7	12/27/05	2/24,28/06	NA
Metals (re-analyses)	AQ	200.7	12/27/05	3/14,17,24,28/06	NA
Metals (re-analyses)	AQ	200.8	12/27/05	3/15,17/06	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: January Monthly
Sample Date: 1/24/06
Client/Lab: Water Board / ACZ 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: 1/24/06
Data Validator: LS

Report No.: L55073
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 1/24/07

Laboratory: ACZ
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	1/24/06	1/27,30/06; 2/8/06	NA
Total Dissolved Solids	AQ	160.1	1/24/06	1/26/06	Yes

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: January Monthly
Sample Date: 1/24/06
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 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: 1/24/06
Data Validator: LS

Report No.: 6051027
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 1/24/07

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)
Metals	AQ	200.7	1/24/06	5/17/06	NA
Metals	AQ	200.8	1/24/06	5/16/06	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____ 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: 2/22/06
Client/Lab: Water Board / CLS 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: 2/22/06
Data Validator: LS

Report No.: CPB0728
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 1/24/07

Laboratory: CLS 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	2/22/06	2/28/06; 3/1/06	NA
Total Dissolved Solids	AQ	160.1	2/22/06	2/28/06	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: February Monthly
Sample Date: 2/22/06
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 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: 2/22/06
Data Validator: LS

Report No.: 6061418
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 1/24/07

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)
Metals	AQ	200.7	2/22/06	6/20,22/06	NA
Metals	AQ	200.8	2/22/06	6/15,16,19/06	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: March Monthly
Sample Date: 3/22/06
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 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: 3/22/06
Data Validator: LS

Report No.: 6032426
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 1/24/07

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	3/22/06	3/30/06; 4/7/06	NA
Total Dissolved Solids	AQ	SM2540C	3/22/06	3/29,30/06	NA
Metals	AQ	200.7	3/22/06	4/5,6/06	NA
Metals	AQ	200.8	3/22/06	4/4,5,11,12,13/06	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: April Monthly
Sample Date: 4/25/06
Client/Lab: Water Board / Weck 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: 4/25/06
Data Validator: LS

Report No.: 6042812
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 1/24/07

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	4/25/06	5/2,4,5/06	NA
Total Dissolved Solids	AQ	SM2540C	4/25/06	5/2/06	Yes
Metals	AQ	200.7	4/25/06	5/3,4/06	NA
Metals	AQ	200.8	4/25/06	5/3/06	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 Cobalt and Dissolved Arsenic 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: May Monthly
Sample Date: 5/30/06
Client/Lab: Water Board / Weck 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: May Monthly
Sample Dates: 5/30/06
Data Validator: LS

Report No.: 6060115
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 1/24/07

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	5/30/06	6/1,2,6/06	NA
Total Dissolved Solids	AQ	SM2540C	5/30/06	6/2/06	NA
Metals	AQ	200.7	5/30/06	6/7,13/06	NA
Metals	AQ	200.8	5/30/06	6/5,6,7/06	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 blanks within the target control limits in the QAPP? Y____ N_X___

- RPD for Dissolved Aluminum was outside 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: Spring Semi-Annual
Sample Date: 5/31/06
Client/Lab: Water Board / Weck Labs
Sample Matrix: AQ
Sample Location(s): Delta Seep (DS), 4L Creek, 26, duplicate at 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: Spring Semi-Annual
Sample Dates: 5/31/06
Data Validator: LS

Report No.: 6060112
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 1/24/07

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	5/31/06	6/1,2/06	NA
Total Dissolved Solids	AQ	SM2540C	5/31/06	6/7/06	NA
Metals	AQ	200.7	5/31/06	6/6,7,13/06	NA
Metals	AQ	200.8	5/31/06	6/5,6/06	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 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
Sample Date: 6/26/06
Client/Lab: Water Board / Weck Labs
Sample Matrix: AQ
Sample Location(s): 25, 24, 23, 22, 16, 15, 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: 6/26/06
Data Validator: LS

Report No.: 6062818
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 1/24/07

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	6/26/06	6/28,29/06	NA
Total Dissolved Solids	AQ	SM2540C	6/26/06	7/3/06	NA
Metals	AQ	200.7	6/26/06	7/10,11/06	NA
Metals	AQ	200.8	6/26/06	7/7,11/06	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 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: 7/25/06
Client/Lab: Water Board / Weck Labs
Sample Matrix: AQ
Sample Location(s): 25, 24, 23, 22, 16, 15, 1, Adit, PUD, CUD, OS, Duplicate at Adit

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: 7/25/06
Data Validator: LS

Report No.: 6072709
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 1/24/07

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	375.3	7/25/06	7/27,28,31/06; 8/1/06	NA
Total Dissolved Solids	AQ	SM2540C	7/25/06	8/1/06	NA
Metals	AQ	200.7	7/25/06	8/3,5/06	NA
Metals	AQ	200.8	7/25/06	8/2,3,4/06	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 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: 8/29/06
Client/Lab: Water Board / Weck Labs
Sample Matrix: AQ
Sample Location(s): 25, 24, 23, 22, 16, 15, 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: 8/29/06
Data Validator: LS

Report No.: 6083118
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 1/24/07

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	8/29/06	9/7,12,14/06	NA
Total Dissolved Solids	AQ	SM2540C	8/29/06	9/1,5/06	NA
Metals	AQ	200.7	8/29/06	9/8,14,15/06	NA
Metals	AQ	200.8	8/29/06	10/4,9/06	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__Y__ N____
Were results for field blanks within the target control limits in the QAPP? Y____N_X___

- RPD for Dissolved and Total Copper 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: September Monthly
Sample Date: 9/27/06
Client/Lab: Water Board / Weck Labs
Sample Matrix: AQ
Sample Location(s): 25, 24, 23, 22, 16, 15, 1, CUD, 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: September Monthly
Sample Dates: 9/27/06
Data Validator: LS

Report No.:6092813
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 1/24/07

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	9/27/06	10/6,9/06	NA
Total Dissolved Solids	AQ	SM2540C	9/27/06	10/3/06	NA
Metals	AQ	200.7	9/27/06	10/13,14/06	NA
Metals	AQ	200.8	9/27/06	10/31/06; 11/3/06	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 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: September Monthly
Sample Date: 9/28/06
Client/Lab: Water Board / Weck Labs
Sample Matrix: AQ
Sample Location(s): Adit, PUD, duplicate at Adit

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: 9/28/06
Data Validator: LS

Report No.:6092903
Sample Matrix: AQ
Analysis Dates: see below
Validation Dates: 1/24/07

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	9/28/06	10/9/06	NA
Total Dissolved Solids	AQ	SM2540C	9/28/06	10/3/06	NA
Metals	AQ	200.7	9/28/06	10/13,14/06	NA
Metals	AQ	200.8	9/28/06	10/31/06; 11/3/06	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 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