Selenium Project
Southeast Idaho Phosphate Mining Resource Area

Water Quality Sampling for Metals - Blackfoot River and Tributaries (HUC 17040207), Selected Bear River Tributaries (HUC 16010201), and Selected Salt River Tributaries (HUC 17040105)

May 11 – 24, 2007

Idaho Department of Environmental Quality

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SUMMARY

During May 2007, Idaho Department of Environmental Quality (IDEQ) and U.S. Forest Service personnel conducted surface water sampling of streams in the phosphate district of southeast Idaho. Twenty-four (24) sites located on 15 streams were sampled. Discharge was measured at all sites. In addition, a 25th site, Blackfoot River downstream of Government Dam Road Bridge, was sampled on July 26, 2007. Samples were shipped under chain of custody to ACZ Laboratory (Steamboat Springs, Colorado) for analyses. Eight (8) of 10 metals analyzed for were present in one or more samples at concentrations greater than the minimum detection limit. No metals analyzed for were at concentrations greater than or equal to State of Idaho water quality criteria. Cadmium and silver were not detected at concentrations greater than the method detection limit (MDL).Total selenium concentrations were greater than or equal to chronic aquatic life criteria (CCC) at nine sites. Two of these sites (East Mill Creek-middle and Spring Creek at Blackfoot River) contained selenium at concentrations exceeding acute aquatic life criteria (CMC).

INTRODUCTION

As part of the area-wide Total Maximum Daily Load (TMDL) selenium monitoring project, IDEQ annually samples surface water for analyses of total selenium, 10 dissolved metals, major ions, nutrients, and physicochemical parameters (IDEQ 2004 and IDEQ 2006a). This information is used to continue assessment of water quality impacts from phosphate mining operations and aid in prioritizing and implementing remedial activities in affected water bodies.

METHODS

Study Sites and Dates

On fifteen (15) different streams, 17 sites in the Blackfoot River drainage, 4 sites in the Bear River drainage, and 4 sites in the Salt River drainage were sampled during the period May 11 through 24, 2007, with the exception that the Blackfoot River immediately downstream of Government Dam Road Bridge site was sampled on July 26, 2007. These sampling sites are shown on the map in Figure 1. Figure 1 also shows other sites that were sampled in other years. The key that identifies the individual site locations follows immediately after Figure 1.

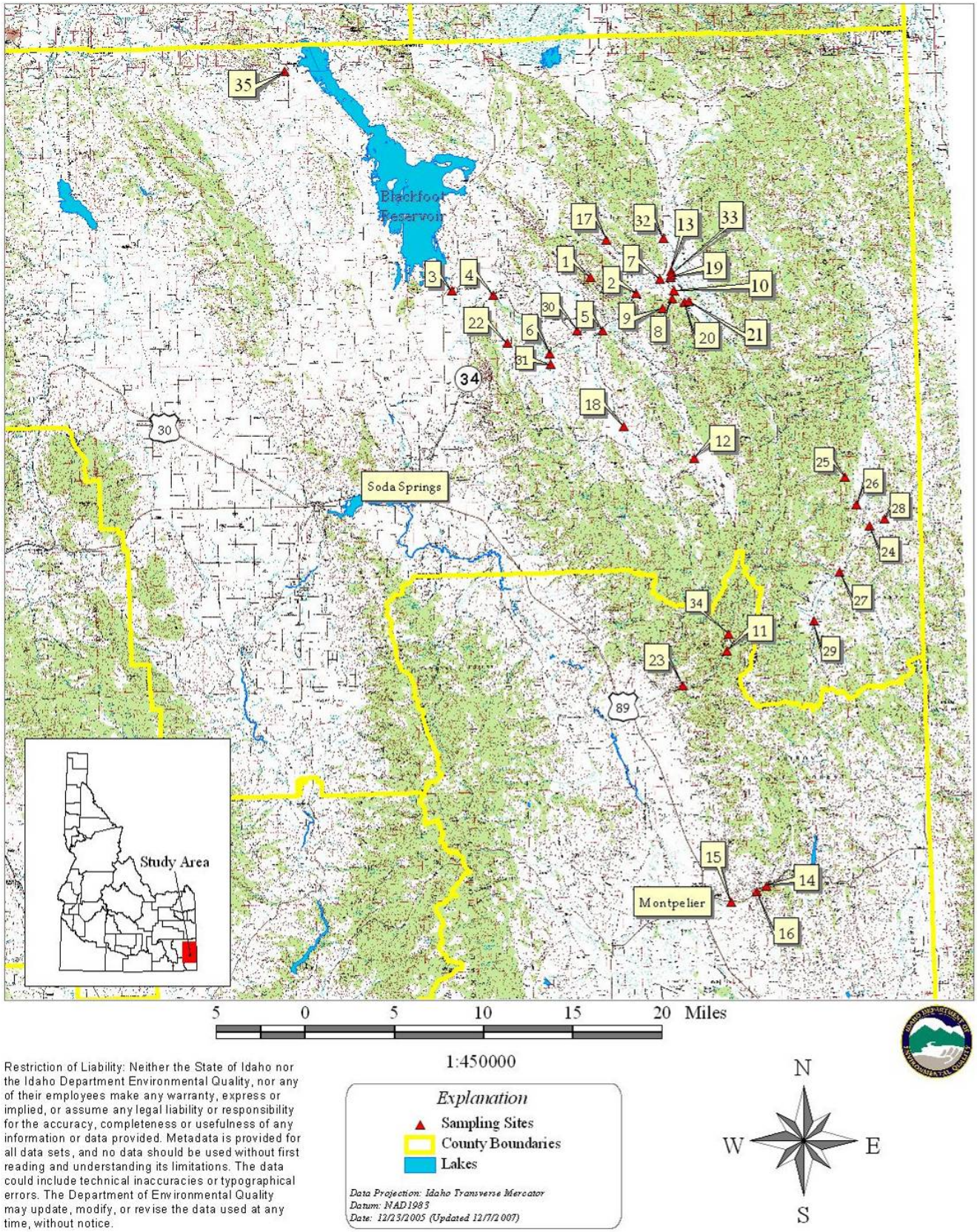

Figure 1. Surface water sampling sites 2004 – 2007, southeast Idaho phosphate district.

Figure 1 key -- sampling locations for 2004- 2006 surface water sampling events.

SiteNo	Sampling Location	Latitude	Longitude	Year(s) Sampled
1	Angus Creek - upper	42.827583	-111.400389	2004- 2007
2	Blackfoot above Narrows	42.813696	-111.350299	2004- 2007
3	Blackfoot @ China Hat	42.820019	-111.553545	2004- 2007
4	Blackfoot @ Monsanto haul Rd	42.815541	-111.507253	2004- 2007
5	Blackfoot @ Slug Cr Rd	42.784243	-111.387956	2004- 2007
6	Blackfoot @ Trail Cr Rd	42.767308	-111.447211	2004- 2007
7	Blackfoot @ upper bridge	42.824076	-111.323242	2004- 2007
8	E. Mill (middle)	42.807934	-111.310923	2004- 2007
9	E. Mill (upper)	42.800539	-111.321803	2004
10	E. Mill (lower)	42.814804	-111.308069	2004
11	Georgetown Cr below mill	42.522972	-111.263333	2004- 2007
12	Goodheart Cr bel Champ Mine	42.679389	-111.291889	2004, 2007
13	Lanes Creek above Diamond confl	42.830729	-111.311123	2004- 2007
14	Montpelier Cr above mining	42.333000	-111.228139	2004
15	Montpelier Cr below Waterloo Mine at KOA	42.320772	-111.266746	2004 - 2006
16	Montpelier Cr below Home Canyon	42.328972	-111.238861	2004
17	Rasmussen Creek @ Rasmussen Valley Rd	42.857332	-111.381155	2004- 2007
18	Slug Cr @ S Trail and Slug Cr Rd	42.706277	-111.368497	2004, 2006, 2007
19	Spring Cr @ Blackfoot R	42.825307	-111.311674	2004- 2007
20	Spring Cr (north spring)	42.805130	-111.297228	2004
21	Spring Cr (south spring)	42.805799	-111.292431	2004
22	State Land Creek	42.776570	-111.493881	2004, 2006, 2007
23	Georgetown Cr above Rt Hand Fork	42.496222	-111.312167	2005-2007
24	Sage Cr @ Crow Creek Rd	42.619767	-111.101467	2006-2007
25	Sage Cr u/s of Smoky Cny Haul Rd	42.660283	-111.126983	2006
26	South Fork Sage Creek d/s of springs	42.637717	-111.115167	2006
27	Deer Cr @ Crow Creek Rd	42.583500	-111.136000	2006-2007
28	Crow Cr @ Hartman Ranch	42.625033	-111.084800	2006-2007
29	Crow Cr @ Stewart Ranch	42.545100	-111.166700	2006-2007
30	Wooley Valley Cr @ Blackfoot River Rd	42.784806	-111.416222	2006-2007
31	Trail Cr @ Lower Trail Creek Rd	42.758152	-111.447033	2006-2007
32	Sheep Cr @ Lanes Creek Rd	42.857000	-111.318617	2006-2007
33	Diamond Cr. @ Blackfoot River	42.82741	-111.3106	2007
34	Georgetown Cr above mill	42.536930	-111.260250	2007
35	Blackfoot River downstream of Government Dam	43.00037	111.730872	2007

Personnel

Sampling was conducted by two teams of personnel, consisting of IDEQ and U.S. Forest Service employees.

Methods and Protocols

Field teams followed U. S. Geological Survey (USGS) and Federal Interagency Sedimentation Project (FISP) sampling protocols described by Tetra Tech EM Inc. (TtEMI) (2001, 2002, 2003, and 2004). Water samples were collected using a depth-integrated sampler (Model US DH-95). A bridge-board winch platform was used at several sites where wading was not possible. Samples were placed in polyethylene or glass containers, preserved with sulfuric or nitric acid as necessary, and stored at 4 °C on ice in a cooler or a refrigerator prior to analysis. Samples were collected in accordance with the IDEQ 4-day averaging protocol at all sites, excepting the Blackfoot River Below Government Dam Bridge site. Crow, Deer, and Sage Creek samples were analyzed for wet chemistry discretely, while metals and all other samples collected at each site over a 4-day period were composited in the laboratory at IDEQ's Pocatello office and shipped under chain of custody and within holding times, via overnight service, to ACZ Laboratory, Steamboat Springs, Colorado. A YSI multiparameter monitoring system (model 6920 sonde, model 650 MDS display, Yellow Springs Instruments, Ohio) was used to acquire in-situ readings of dissolved oxygen, temperature, turbidity, conductivity, and pH level concurrent with water sampling. At each site, measurements were made at up to three locations along the stream channel (middle, left third, right third). Discharge (flow volume) was measured using a portable electromagnetic flow meter (Marsh-McBirney model 2000) in conjunction with a top-setting wading rod. For purposes of determining loads, the mean of two discharge measurements taken over the 4-day sampling period was calculated. Flow was measured at all sites except Blackfoot River at China Hat (USGS data available at gage 13063000) and Blackfoot River below Government Dam Road Bridge.

RESULTS

Selected sampling analysis results are discussed in this section. All results are presented in Appendices A and B.

Discharge Measurements

Discharge at individual sites (Table 1 and Figure 2) ranged from 0.1 to 123 cubic feet per second (cfs). Discharge at 19 of the sites decreased over the sampling period, while discharge at 5 sites increased.

Table 1. Discharge at individual sampling sites.

Location	Date	Flow (cfs)	Mean Flow (cfs)	Field personnel*
Angus Cr - upper	8-May-07	0.25	0.2	MT/MR/CFW
	11-May-07	0.18		GM/AMR/WF
Blackfoot above Narrows	7-May-07	122.8	118.6	GM/AMR
	10-May-07	114.4		GM/AMR
Blackfoot @ Monsanto Bridge/China Hat	7-May-07	87[a]	89	GM/AMR
	8-May-07	101[b]		GM/AMR
	10-May-07	79[c]		GM/AMR
Blackfoot @ Slug Cr Rd	7-May-07	115.6	116.8	GM/AMR
	10-May-07	117.9		GM/AMR
Blackfoot @ Trail Cr Rd	7-May-07	118.9	112.1	GM/AMR
	10-May-07	105.4		GM/AMR
Blackfoot @ upper bridge	8-May-07	103.9	93.2	GM/AMR
	11-May-07	82.4		GM/AMR/WF
Crow Cr @ Stewart Ranch	21-May-07	5.4	5.6	GM/AMR
	24-May-07	5.8		GM/MR
Crow Cr @ Hartman Ranch	21-May-07	41.4	40.0	GM/AMR
	24-May-07	38.6		GM/MR
Deer Creek at Crow Creek Road	21-May-07	7.7	7.6	GM/AMR
	24-May-07	7.6		GM/MR
Diamond Creek at Blackfoot River	8-May-07	18.8	17.8	GM/AMR
	11-May-07	16.7		GM/AMR/WF
E. Mill (middle)	8-May-07	1.9	1.8	GM/AMR
	11-May-07	1.7		GM/AMR/WF
Georgetown Cr above mill site	7-May-07	12.2	11.5	MT/MR/CFW
	10-May-07	10.9		MT/MR/CFW
Georgetown Cr below mine	7-May-07	13.2	11.5	MT/MR/CFW
	10-May-07	9.9		MT/MR/CFW
Georgetown Cr above Right Hand Fork	7-May-07	24.3	23.3	MT/MR/CFW
	10-May-07	22.3		MT/MR/CFW
Goodheart Cr, lower	7-May-07	0.49	0.4	MT/MR/CFW
	10-May-07	0.31		MT/MR/CFW
Lanes Creek above Diamond confluence	8-May-07	57.4	49.6	GM/AMR
	11-May-07	41.8		GM/AMR/WF
Rasmussen Cr	7-May-07	0.94	0.8	MT/MR/CFW
	10-May-07	0.62		MT/MR/CFW
Sage Cr @ Crow Cr Rd	21-May-07	14.0	13.7	GM/AMR
	24-May-07	13.5		GM/MR

Location	Date	Flow (cfs)	Mean Flow (cfs)	Field personnel*
South Fork Sage d/s of springs	Not Sampled in 2007			
Sheep Cr	8-May-07	5.2	5.5	GM/AMR
	11-May-07	5.9		GM/AMR/WF
Slug Cr @ S Trail and Slug Cr Rd	7-May-07	7.0	6.4	MT/MR/CFW
	10-May-07	5.8		MT/MR/CFW
Spring Cr @ Blackfoot R	8-May-07	20.9	22.2	GM/AMR
	11-May-07	23.4		GM/AMR/WF
State Land Cr	7-May-07	0.32	0.3	GM/AMR
	10-May-07	0.28		GM/AMR
Trail Cr	7-May-07	4.6	4.2	GM/AMR
	10-May-07	3.8		GM/AMR
Wooley Valley Cr	7-May-07	0.08	0.1	MT/MR/CFW
	10-May-07	0.10		MT/MR/CFW
minimum		**0.08**		
maximum		**122.80**		

[a] provisional data from USGS gage 13063000
[b] provisional data from USGS gage 13063001
[c] provisional data from USGS gage 13063002

* MT= Melissa Thompson (IDEQ)
AMR= Andy Ray (IDEQ)
GM = Greg Mladenka (IDEQ)
CFW = Christine Waite (IDEQ)
WF = Will Frymire (US Forest Service)
MR = Mike Rowe (IDEQ)

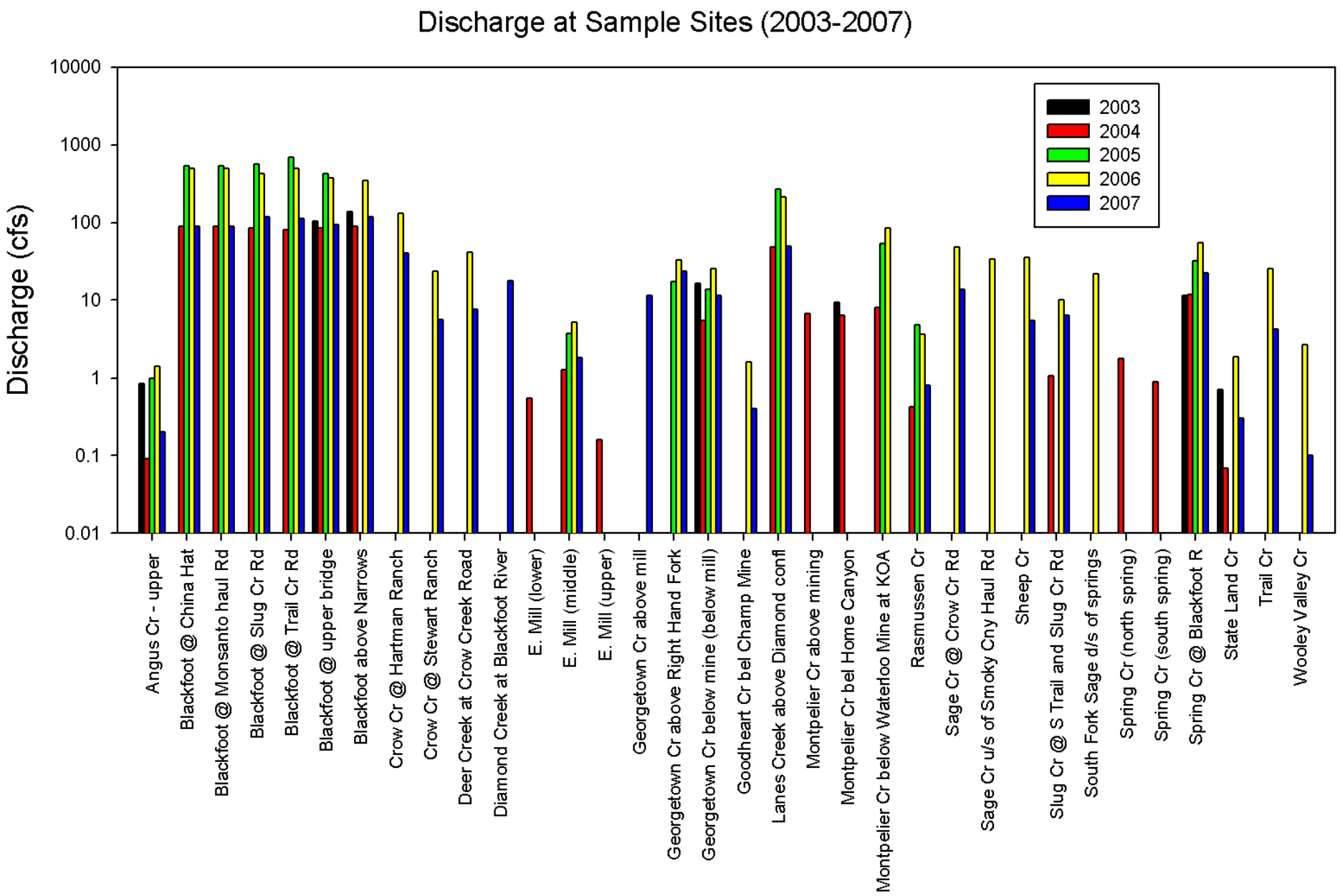

Figure 2. Discharge at individual sampling sites.

Physicochemical Measurements

Water temperature ranged from 5.49 to 15.17 °C. Specific conductance ranged from 0.326 to 0.926 microsiemens per centimeter (µs/cm). Dissolved oxygen ranged from 7.54 to 11.50 milligrams per liter (mg/L). The pH values ranged from 7.83 to 8.58. Turbidity ranged from 1.5 to 17.6 nephelometric turbidity units (NTU). Mean values for physicochemical parameters at all sites are presented in Table 2.

Chemical Constituents

In the Blackfoot River watershed, selenium concentrations at all mainstem Blackfoot River sites (except downstream of Government Dam Road bridge), Goodheart, Spring, State Land, and East Mill creeks sites sampled were greater than or equal to the CCC for aquatic life (0.005 mg/L; Figure 3; Tables 3 and 4). Selenium concentrations in samples from East Mill Creek– middle and Spring Creek also were greater than or equal to the CMC for aquatic life (0.02 mg/L; Figure 3; Tables 3 and 4). In the Crow Creek watershed, Sage Creek at Crow Creek Road exceeded the CCC for selenium. The selenium concentration at Crow Creek at Hartman Ranch was 0.003 mg/L. Other sites sampled in the watershed (Deer Creek at Crow Creek Road and Crow Creek at Stewart Ranch) did not contain selenium at concentrations greater than the minimum detection limit (Figure 3; Tables 3 and 4). Georgetown Creek below mine in the Bear River watershed had a selenium concentration greater than or equal to the CCC for aquatic life (Figure 3; Tables 3 and 4). Georgetown Creek above mining was initially sampled this year and exceeded the CCC for selenium (sample = 0.018 mg/L).

Calcium ranged from 44 to 152 (mean = 68) mg/L. Magnesium ranged from 10 to 40 (mean = 16) mg/L. Bicarbonate ranged from 138 to 243 (mean = 182) mg/L. Total organic carbon averaged 3.6 (range = 1 to 8) mg/L. Mean water hardness was 236 (range = 160 to 545) mg/L $CaCO_3$. Nutrient concentrations averaged 0.10 (range = 0.02 to 0.61) mg/L for nitrate + nitrite and 0.08 (range = 0.03 to 0.21) mg/L for total phosphorus. Total alkalinity ranged from 138 to 243 (mean = 190) mg/L. All results for chemical constituents are in Table 3.

Metals concentrations varied among sites (Table 3). Silver was not present above the method detection limit (0.00005 mg/L) in any sample. Cadmium was not detected at greater than 0.0001 mg/L in any sample. Zinc concentrations ranged from less than 0.01 to 0.02 mg/L. Chromium concentrations ranged from 0.0003 to 0.0014 (mean = 0.0007) mg/L. Copper concentrations ranged from 0.0005 to 0.0014 (mean = 0.0007) mg/L, lead concentrations ranged from less than 0.0001 to 0.0004 (mean = 0.0002) mg/L. Nickel concentrations ranged from less than 0.0008 to 0.003 (mean = 0.0015) mg/L. Total selenium concentrations ranged from less than 0.001 to 0.43 (mean = 0.03) mg/L. Vanadium concentrations ranged from less than 0.0004 to 0.003 (mean = 0.0015) mg/L. (See Appendix A for compiled analysis results and Appendix B for complete ACZ analytical reports).

Analyses of three field equipment blanks collected during sampling indicated low concentrations for calcium (0.4 mg/L in blank 1, MDL = 0.2 mg/L), copper (0.002, 0.0014, and 0.0034 mg/L, MDL = 0.0005 mg/L), lead (0.0003 mg/L in blank 2, MDL = 0.0001 mg/L), and hardness (1 mg/L in blank 1, MDL = 1 mg/L). Duplicate samples were within quality control limits (25%) for all constituents present at low concentrations in both samples greater than the practical quantitation limit. Relative percent differences for selenium duplicates were 18, 33, and 0 % for three duplicate samples.

Table 2. Mean physical water parameters for selenium water sampling, 7-24 May 2007.

SITE	T(°C)	SPC	DO %	DO mg/L	pH	Turbidity
Angus Cr - upper	14.21	926	76.3	**7.7**	8.01	5.7
Blackfoot @ China Hat	10.31	401	82.4	9.25	7.83	11.8
Blackfoot @ Monsanto haul Rd	11.01	353	82.3	9.08	8.37	9.8
Blackfoot @ Slug Cr Rd	13.00	343	108.3	11.40	8.58	7.6
Blackfoot @ Trail Cr Rd	11.45	353	95.7	10.43	8.35	8.7
Blackfoot @ upper bridge	10.99	356	91.3	10.04	8.20	8.8
Blackfoot above Narrows	12.39	347	104.7	11.17	8.36	10.0
Crow Cr @ Hartman Ranch	8.27	547	85.8	10.11	8.40	8.2
Crow Cr @ Stewart Ranch	7.74	521	87.4	10.45	8.42	8.6
Deer Creek at Crow Creek Road	7.12	355	88.7	10.78	8.36	3.1
Diamond Creek at Blackfoot River	13.54	326	93.5	9.74	8.28	11.5
E. Mill (lower)	Not Sampled					
E. Mill (middle)	9.19	433	80.3	9.46	8.24	8.7
E. Mill (upper)	Not Sampled					
Georgetown Cr above mill site	5.49	369	81.4	9.84	8.25	1.7
Georgetown Cr above Right Hand Fork	10.38	391	85.2	9.23	8.38	2.3
Georgetown Cr below mine (below mill site)	5.96	370	82.2	9.77	8.35	2.2
Goodheart Cr bel Champ Mine	11.81	506	84.8	8.88	8.52	17.6
Lanes Creek above Diamond confl	13.59	359	93.0	9.68	8.31	7.8
Montpelier Cr above mining	Not Sampled					
Montpelier Cr bel Home Canyon	Not Sampled					
Montpelier Cr below Waterloo Mine at KOA	Not Sampled					
Rasmussen Cr	11.58	358	90.9	10.21	8.28	9.2
Sage Cr @ Crow Cr Rd	9.72	427	88.4	10.08	8.46	3.4
Sage Cr u/s of Smoky Cny Haul Rd	Not Sampled					
Sheep Cr	12.76	339	85.3	9.01	8.32	9.4
Slug Cr @ S Trail and Slug Cr Rd	10.63	429	101.3	11.21	7.95	3.2
South Fork Sage d/s of springs	Not Sampled					
Spring Cr (north spring)	Not Sampled					
Spring Cr (south spring)	Not Sampled					
Spring Cr @ Blackfoot R	14.38	361	96.7	9.89	8.35	5.8
State Land Cr	13.22	330	79.5	8.38	7.84	15.4
Trail Cr	15.17	409	108.5	10.89	8.33	1.5
Wooley Valley Cr	8.25	498	66.5	7.54	7.87	1.9
minimum	5.49	326	66.5	7.54	7.83	1.5
maximum	15.17	926	108.5	11.40	8.58	17.6
mean	10.89	416	88.8	9.77	8.26	7.4

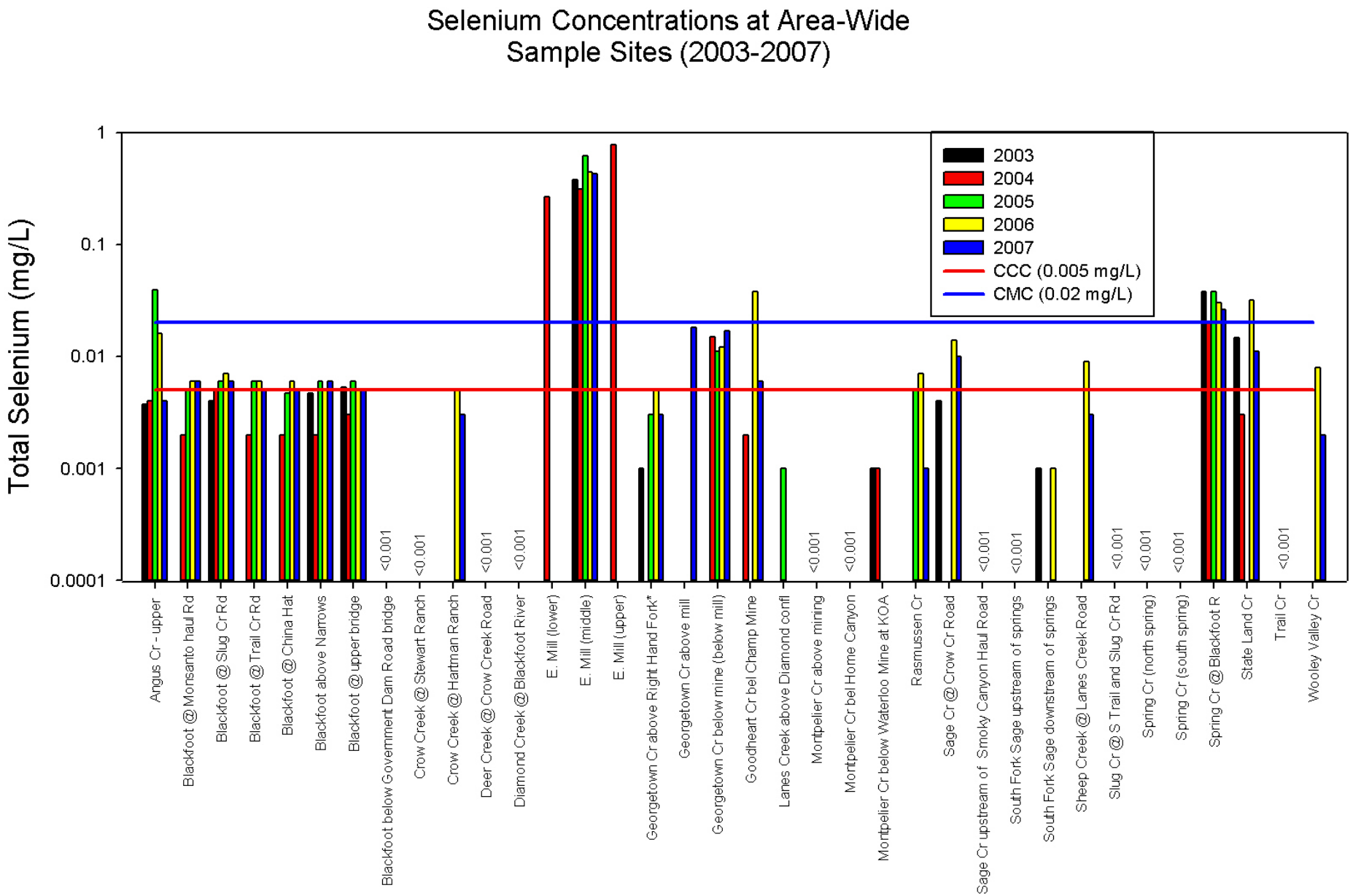

Figure 3. Selenium concentrations at area-wide sample sites (2004-2007).

Table 3. Results of surface water quality sampling, 7-24 May 2007, in the southeastern Idaho phosphate mining district. (All results in mg/L)

	Cadmium, dissolved	Calcium, dissolved	Chromium, dissolved	Copper, dissolved	Lead, dissolved
method detection limit (MDL) *	0.0001	0.2	0.0001	0.0005	0.0001
practical quantitation limit (PQL)	0.0005	1	0.0005	0.003	0.0005
Angus Cr	ND	147	0.0006	0.0006	ND
Angus Cr Duplicate (duplicate 3=Double Cr.)	ND	152	0.0004	0.0007	0.0002
Blackfoot @ China Hat	ND	66.2	0.0004	0.0006	ND
Blackfoot @ Monsanto haul Rd	ND	57.2	0.0004	ND	ND
Blackfoot @ Trail Cr Rd	ND	58.8	0.0004	0.0005	ND
Blackfoot @ Slug Cr Rd	ND	58.1	0.0006	0.0006	0.0001
Blackfoot above Narrows	ND	57.2	0.0005	ND	ND
Blackfoot above Narrows (duplicate 1=White Cr.)	ND	58.1	0.0004	ND	ND
Blackfoot @ upper bridge	ND	59.4	0.0006	ND	ND
Blackfoot below Government Dam Road Bridge	ND	44.2	ND	0.0014	ND
Crow Creek @ Stewart Ranch	ND	71.5	ND	0.0006	ND
Crow Creek @ Hartman Ranch	ND	61.8	0.0012	0.0007	0.0002
Crow Creek @ Hartman Ranch (duplicate 2=Ozzie Cr.)	ND	61.3	0.0009	ND	ND
Deer Creek @ Crow Creek Road	ND	55.2	0.0011	ND	ND
E. Mill (middle)	ND	70.6	0.001	ND	ND
Georgetown Cr above Right Hand Fork	ND	61.3	0.0007	ND	0.0004
Georgetown Cr above mill	ND	60.1	0.0006	ND	0.0005
Georgetown Cr below mine (below mill)	ND	58.8	0.0006	ND	0.0002
Goodheart Cr bel Champ Mine	ND	84.1	0.0005	0.0006	0.0001
Lanes Creek above Diamond confl	ND	63.4	0.0005	0.0007	0.0001
Montpelier Cr below Waterloo Mine at KOA	Not Sampled in 2007				
Rasmussen Cr	ND	58.1	0.0003	ND	0.0002
Sage Cr @ Crow Cr Road	ND	59.5	0.001	ND	ND
Sage Cr upstream of Smoky Canyon Haul Road	Not Sampled in 2007				
South Fork Sage upstream of springs	Not Sampled in 2008				
South Fork Sage downstream of springs	Not Sampled in 2008				
Slug Cr @ S Trail and Slug Cr Rd	ND	67.1	0.0014	ND	0.0001
Sheep Creek @ Lanes Creek Road	ND	55.9	0.0005	ND	ND
Spring Cr @ Blackfoot R	ND	58.8	0.0006	ND	ND
State Land Cr	ND	46.5	0.0006	0.0006	0.0001
Trail Cr	ND	67.8	0.0005	ND	ND
Wooley Valley Cr	ND	74.6	0.0014	0.0006	ND
Field Equipment blank 1 (No Name Cr)	ND	0.4	ND	0.002	ND
Field Equipment blank 2 (Last Cr)	ND	ND	ND	0.0014	ND
Field Equipment blank 3 (Mike Cr)	ND	ND	ND	0.0034	ND
low	ND	44.2	0.0003	0.0005	ND
high	ND	152	0.0014	0.0014	0.0005
mean	ND	67.6643	0.0007	0.0007	0.0002
DUP 1 (% tolerance)		-1.6	20.0	0.0	0.0
DUP 2 (% tolerance)		0.8	25.0	28.6	50.0
DUP 3 (% tolerance)		-3.4	33.3	-16.7	50.0
CCC (mg/L)	0.000748		0.010390	0.016961	0.004182
exceedance (Yes or No)	NO		NO	NO	NO
CMC (mg/L)					
ND = not detected at method detection limit					
* all values given in mg/L					

Table 3 (continued).

	Magnesium, dissolved	Nickel, dissolved	Selenium, total	Silver, dissolved	Vanadium, dissolved	Zinc, dissolved
method detection limit (MDL) *	0.2	0.0006	0.001	0.00005	0.0002	0.01
practical quantitation limit (PQL)	1	0.003	0.005	0.0003	0.001	0.05
Angus Cr	39.2	0.0029	0.004	ND	0.0013	ND
Angus Cr Duplicate (duplicate 3=Double Cr.)	40.2	0.003	0.004	ND	0.0012	0.02
Blackfoot @ China Hat	14.4	0.0011	0.005	ND	0.0012	ND
Blackfoot @ Monsanto haul Rd	11.2	0.0009	0.006	ND	0.0013	ND
Blackfoot @ Trail Cr Rd	11.6	0.0009	0.005	ND	0.0011	0.02
Blackfoot @ Slug Cr Rd	11.4	0.001	0.006	ND	0.0013	ND
Blackfoot above Narrows	11.1	0.0008	0.006	ND	0.0008	ND
Blackfoot above Narrows (duplicate 1=White Cr.)	11.3	0.0008	0.007	ND	0.001	0.01
Blackfoot @ upper bridge	11.6	0.0008	0.005	ND	0.001	ND
Blackfoot below Government Dam Road Bridge	22.2	0.0019	ND	ND	0.003	ND
Crow Creek @ Stewart Ranch	16.1	0.0019	ND	ND	0.0019	ND
Crow Creek @ Hartman Ranch	18.9	0.0017	0.003	ND	0.0019	ND
Crow Creek @ Hartman Ranch (duplicate 2=Ozzie Cr.)	18.8	0.002	0.004	ND	0.003	ND
Deer Creek @ Crow Creek Road	15.2	0.002	ND	ND	0.003	ND
E. Mill (middle)	15.8	0.0012	0.43	ND	0.001	ND
Georgetown Cr above Right Hand Fork	17.1	0.0009	0.003	ND	0.0013	ND
Georgetown Cr above mill	12.6	0.0008	0.018	ND	0.0006	ND
Georgetown Cr below mine (below mill)	12.4	0.0009	0.017	ND	0.0014	ND
Goodheart Cr bel Champ Mine	14.9	0.002	0.006	ND	0.0013	ND
Lanes Creek above Diamond confl	11	0.0012	ND	ND	0.0011	ND
Montpelier Cr below Waterloo Mine at KOA						
Rasmussen Cr	9.9	0.0015	0.001	ND	0.0006	ND
Sage Cr @ Crow Cr Road	21.1	0.0016	0.01	ND	0.0024	ND
Sage Cr upstream of Smoky Canyon Haul Road						
South Fork Sage upstream of springs						
South Fork Sage downstream of springs						
Slug Cr @ S Trail and Slug Cr Rd	15.5	0.0012	ND	ND	0.0017	ND
Sheep Creek @ Lanes Creek Road	11.6	0.0019	0.003	ND	0.001	ND
Spring Cr @ Blackfoot R	11.9	0.001	0.026	ND	0.0009	ND
State Land Cr	10.7	0.0025	0.011	ND	0.003	0.01
Trail Cr	12.4	0.001	ND	ND	0.0007	ND
Wooley Valley Cr	17.9	0.0017	0.002	ND	0.0004	ND
Field Equipment blank 1 (No Name Cr)	ND	ND	ND	ND	ND	ND
Field Equipment blank 2 (Last Cr)	ND	ND	ND	ND	ND	ND
Field Equipment blank 3 (Mike Cr)	ND	ND	ND	ND	ND	ND
low	9.9	0.0008	0.001	ND	0.0004	0.01
high	40.2	0.003	0.43	ND	0.003	0.02
mean	16.0000	0.0015	0.0265	ND	0.0014	0.0150
DUP 1 (% tolerance)	-1.8	0.0	-16.7	0.0	-25.0	0.0
DUP 2 (% tolerance)	0.5	-17.6	-33.3	0.0	-57.9	0.0
DUP 3 (% tolerance)	-2.6	-3.4	0.0	0.0	7.7	50.0
CCC (mg/L)		0.077400	0.0050	NA	NA	0.175932
exceedance (Yes or No)		NO	YES			NO
CMC (mg/L)			0.02	0.0077	NA	
ND = not detected at method detection limit			YES	NO		
* all values given in mg/L						

Table 3 (continued).

	Bicarbonate as CaCO3	Carbon, total organic (TOC)	Carbonate as CaCO3	Hardness as CaCO3	Hydroxide as CaCO3
method detection limit (MDL) *	2	1	2	1	2
practical quantitation limit (PQL)	20	5	20	7	20
Angus Cr	243	4	ND	529	ND
Angus Cr Duplicate (duplicate 3=Double Cr.)	219	5	ND	545	ND
Blackfoot @ China Hat	205	3	ND	225	ND
Blackfoot @ Monsanto haul Rd	172	4	10	189	ND
Blackfoot @ Trail Cr Rd	177	3	8	195	ND
Blackfoot @ Slug Cr Rd	163	4	14	192	ND
Blackfoot above Narrows	174	3	9	189	ND
Blackfoot above Narrows (duplicate 1=White Cr.)	170	3	11	192	ND
Blackfoot @ upper bridge	182	3	6	196	ND
Blackfoot below Government Dam Road Bridge	169	8	11	202	ND
Crow Creek @ Stewart Ranch	196	6	14	245	ND
Crow Creek @ Hartman Ranch	173	4	13	232	ND
Crow Creek @ Hartman Ranch (duplicate 2=Ozzie Cr.)	175	6	14	231	ND
Deer Creek @ Crow Creek Road	164	4	12	200	ND
E. Mill (middle)	175	1	9	241	ND
Georgetown Cr above Right Hand Fork	174	1	9	224	ND
Georgetown Cr above mill	179	1	7	202	ND
Georgetown Cr below mine (below mill)	180	1	7	198	ND
Goodheart Cr bel Champ Mine	200	4	13	271	ND
Lanes Creek above Diamond confl	178	3	9	204	ND
Montpelier Cr below Waterloo Mine at KOA					
Rasmussen Cr	143	3		186	ND
Sage Cr @ Crow Cr Road	170	4	14	235	ND
Sage Cr upstream of Smoky Canyon Haul Road					
South Fork Sage upstream of springs					
South Fork Sage downstream of springs					
Slug Cr @ S Trail and Slug Cr Rd	208	3	10	231	ND
Sheep Creek @ Lanes Creek Road	157	2	4	187	ND
Spring Cr @ Blackfoot R	177	2	11	196	ND
State Land Cr	138	4	ND	160	ND
Trail Cr	199	4	10	220	ND
Wooley Valley Cr	237	5	ND	260	ND
Field Equipment blank 1 (No Name Cr)	ND	ND	ND	1	ND
Field Equipment blank 2 (Last Cr)	ND	ND	ND	ND	ND
Field Equipment blank 3 (Mike Cr)	ND	ND	ND	ND	ND
low	138	1	4	160	ND
high	243	8	14	545	ND
mean	182.0357	3.4881	10.2121	234.8929	ND
DUP 1 (% tolerance)	2.3	0.0	-22.2	-1.6	0.0
DUP 2 (% tolerance)	-1.2	-41.7	-5.1	0.4	0.0
DUP 3 (% tolerance)	9.9	-25.0	0.0	-3.0	0.0
CCC (mg/L)					
exceedance (Yes or No)					
CMC (mg/L)					
ND = not detected at method detection limit					
* all values given in mg/L					

Table 3 (continued).

	Nitrate+Nitrite as N, dissolved	Phosphorus, total	Residue, Non-Filterable (TSS)	Total Alkalinity
method detection limit (MDL) *	0.02	0.01	5	2
practical quantitation limit (PQL)	0.1	0.05	20	20
Angus Cr	0.04	0.11	ND	243
Angus Cr Duplicate (duplicate 3=Double Cr.)	0.04	0.15	ND	219
Blackfoot @ China Hat	ND	0.05	10	205
Blackfoot @ Monsanto haul Rd	ND	0.06	ND	182
Blackfoot @ Trail Cr Rd	ND	0.05	ND	185
Blackfoot @ Slug Cr Rd	ND	0.07	ND	178
Blackfoot above Narrows	ND	0.05	ND	184
Blackfoot above Narrows (duplicate 1=White Cr.)	ND	0.04	ND	180
Blackfoot @ upper bridge	ND	0.04	10	188
Blackfoot below Government Dam Road Bridge	ND	0.15	14	180
Crow Creek @ Stewart Ranch	ND	0.08	8	211
Crow Creek @ Hartman Ranch	0.02	0.07	11	186
Crow Creek @ Hartman Ranch (duplicate 2=Ozzie Cr.)	0.03	0.04	13	188
Deer Creek @ Crow Creek Road	0.02	0.04	ND	176
E. Mill (middle)	0.61	0.14	8	184
Georgetown Cr above Right Hand Fork	0.14	0.06	ND	183
Georgetown Cr above mill	0.03	0.05	ND	185
Georgetown Cr below mine (below mill)	ND	0.17	ND	187
Goodheart Cr bel Champ Mine	ND	0.1	26	213
Lanes Creek above Diamond confl	ND	0.04	ND	187
Montpelier Cr below Waterloo Mine at KOA				
Rasmussen Cr	0.04	0.07	14	143
Sage Cr @ Crow Cr Road	ND	0.03	4	184
Sage Cr upstream of Smoky Canyon Haul Road				
South Fork Sage upstream of springs				
South Fork Sage downstream of springs				
Slug Cr @ S Trail and Slug Cr Rd	ND	0.05	ND	218
Sheep Creek @ Lanes Creek Road	0.03	0.06	ND	161
Spring Cr @ Blackfoot R	ND	0.04	ND	188
State Land Cr	0.02	0.21	22	138
Trail Cr	ND	0.03	ND	209
Wooley Valley Cr	ND	0.09	ND	237
Field Equipment blank 1 (No Name Cr)	ND	ND	ND	ND
Field Equipment blank 2 (Last Cr)	ND	ND	ND	ND
Field Equipment blank 3 (Mike Cr)	ND	ND	ND	ND
low	0.02	0.03	4	138
high	0.61	0.21	26	243
mean	0.0927	0.0764	12.7273	190.0714
DUP 1 (% tolerance)	0.0	20.0	0.0	2.2
DUP 2 (% tolerance)	-50.0	42.9	-18.2	-1.1
DUP 3 (% tolerance)	0.0	-36.4	0.0	9.9
CCC (mg/L)				
exceedance (Yes or No)				
CMC (mg/L)				
ND = not detected at method detection limit				
* all values given in mg/L				

Table 4. Comparison of selenium concentrations 2004-2007.

	Selenium Concentration (mg/L)				NewFields* data	
	2004	2005	2006	2007	May 06	Oct 06
Angus Cr - upper	0.004	0.039	0.016	0.004		
Blackfoot @ Monsanto haul Rd	0.002	0.005	0.006	0.006		
Blackfoot @ Slug Cr Rd	0.005	0.006	0.007	0.006		
Blackfoot @ Trail Cr Rd	0.002	0.006	0.006	0.005		
Blackfoot @ China Hat	0.002	0.005	0.006	0.005		
Blackfoot above Narrows	0.002	0.006	0.005	0.006		
Blackfoot @ upper bridge	0.003	0.006	0.005	0.005		
Blackfoot below Government Dam Road bridge[a]				< 0.001		
Crow Creek @ Stewart Ranch[b]			< 0.001	< 0.001	0.001	
Crow Creek @ Hartman Ranch			0.005	0.003		
Deer Creek @ Crow Creek Road			< 0.001	< 0.001		
NF Deer Cr spring[c]					0.0086	0.0047
NF Deer Cr					0.0012	0.0014
E. Mill (lower)	0.265					
E. Mill (middle)	0.31	0.62	0.44	0.43		
E. Mill (upper)	0.78					
Georgetown Cr above Right Hand Fork[d]		0.003	0.005	0.003		
Georgetown Cr above mill				0.018		
Georgetown Cr below mine (below mill)	0.015	0.011	0.012	0.017		
Goodheart Cr below Champ Mine	0.002		0.038	0.006		
Lanes Creek above Diamond confl	< 0.001	0.001	< 0.001	< 0.001		
Montpelier Cr above mining	< 0.001					
Montpelier Cr below Home Canyon	< 0.001					
Montpelier Cr below Waterloo Mine at KOA	0.001	<0.001	< 0.001			
Rasmussen Cr	< 0.001	0.005	0.007	0.001		
Sage Cr @ Crow Cr Road[e]			0.014	0.01	0.0146	0.0078
Sage Cr upstream of Smoky Canyon Haul Road			< 0.001			
Sage Cr downstream of NF Sage confluence[f]					0.0336	0.0012
Sage Cr downstream of SF Sage confluence[f]					0.0232	0.0074
South Fork Sage upstream of springs			< 0.001			
South Fork Sage downstream of springs			0.001		0.0019	0.0056
Sheep Creek @ Lanes Creek Road			0.009	0.003		
Slug Cr @ S Trail and Slug Cr Rd	< 0.001		< 0.001	< 0.001		
Spring Cr (north spring)	< 0.001					
Spring Cr (south spring)	< 0.001					
Spring Cr @ Blackfoot R	0.02	0.038	0.03	0.026		
State Land Cr	0.003		0.032	0.011		
Trail Cr			< 0.001	< 0.001		
Wooley Valley Cr			0.008	0.002		
Equipment blank	< 0.001	< 0.001	< 0.001	< 0.001		

	Selenium Concentration (mg/L)				NewFields* data	
	2004	2005	2006	2007	May 06	Oct 06
Angus Cr - upper (duplicate)		0.039		0.004		
Blackfoot above Narrows (duplicate)		0.011	0.006	0.007		
Goodheart Cr bel Champ Mine (duplicate)			0.033			
Crow Creek @ Hartman Ranch (duplicate)			0.004	0.004		

Notes:
* NewFields is the environmental consultant that performed this sampling
[a] Single sample 26 July 2007
[b] Site SW-CC-300 - just downstream of Deer Creek confluence - measured flow at 83.72cfs on 23 May 2006
[c] Some upper Deer Creek springs have selenium concentrations of .001-.008
[d] 2006 composite sample did not include the 11 May sample
[e] NewFields sample on 21 May 2006 - flow not measured, Q=52.33 d/s of SF confluence on same day
[f] Lower Pole Canyon Creek – dry

DISCUSSION

Sample Sites

Several sites sampled in 2006 were not sampled in 2007 due to inaccessibility. These included Sage Creek upstream of Smoky Canyon haul road, South Fork Sage Creek upstream of springs, and South Fork Sage Creek downstream of springs. Roads were impassible because of recent precipitation events. Montpelier Creek below Waterloo Mine at KOA was not sampled as the previous three years' samples did not indicate selenium contamination. Georgetown Creek above mill site was added to try and further define the extent and origin of Georgetown Creek selenium contamination. Depth-integrated water sampling (using a wading rod) was conducted at all sites including the main stem Blackfoot River sites this year, as permitted by lower flows.

Discharge

Discharge measured at all sites was much lower in 2007 than in 2006 (Table 5). Blackfoot River sites generally had less than one-fourth of the flow measured in 2006. All smaller streams sampled had lower flows than in 2006 (IDEQ 2006b). Flow at 18 sites decreased during the 4-day sampling period. Generally, flows at Blackfoot River sites decreased over the sampling period (Table 1).

Table 5. Comparison of mean stream flows during 2003-2007 water sampling events.

	Flow (cfs)				
	2003	**2004**	**2005**	**2006**	**2007**
Angus Creek - upper	0.9	0.1	1.0	1.4	0.2
Blackfoot @ China Hat[a]	---	90.0	531	492	89.0
Blackfoot @ Monsanto haul Rd[a]	---	90.0	531	492	89.0
Blackfoot @ Slug Cr Rd	---	84.3	569.3	422.8	116.8
Blackfoot @ Trail Cr Rd	---	81.5	692.9	490.9	112.1
Blackfoot @ upper bridge	105.1	84.5	424.7	371.1	93.2
Blackfoot above Narrows	138.7	88.6	---	346.5	118.6
Crow Cr @ Hartman Ranch	---	---	---	130.0	40.0
Crow Cr @ Stewart Ranch	---	---	---	23.3	5.6
Deer Creek at Crow Creek Road	---	---	---	41.2	7.6
Diamond Creek at Blackfoot River	---	---	---	---	17.8
E. Mill (lower)	---	0.6	---	---	---
E. Mill (middle)	---	1.3	3.7	5.2	1.8
E. Mill (upper)	---	0.2	---	---	---
Georgetown Cr above mill site	---	---	---	---	11.5
Georgetown Cr above Right Hand Fork	---	---	17.4	33.2	23.3
Georgetown Cr below mine (below mill site)	16.3	5.5	13.9	25.7	11.5
Goodheart Cr below Champ Mine	---	0.0	---	1.6	0.4
Lanes Creek above Diamond confluence	---	48.1	265.1	210.0	49.6
Montpelier Cr above mining	---	6.7	---	---	---
Montpelier Cr below Home Canyon	9.5	6.4	---	---	---
Montpelier Cr below Waterloo Mine at KOA	---	8.1	53.2	84.2	---
Rasmussen Cr	---	0.4	4.9	3.6	0.8
Sage Cr @ Crow Cr Rd	---	---	---	48.6	13.7
Sage Cr upstream of Smoky Canyon Haul Rd	---	---	---	33.3	---
Sheep Creek	---	---	---	35.1	5.5
Slug Cr @ S Trail and Slug Cr Rd	---	1.1	---	10.1	6.4
South Fork Sage downstream of springs	---	---	---	21.6	---
Spring Cr (north spring)	---	1.8	---	---	---
Spring Cr (south spring)	---	0.9	---	---	---
Spring Cr @ Blackfoot R	11.5	11.9	32.2	54.6	22.2
State Land Cr	0.7	0.1	---	1.9	0.3
Trail Cr	---	---	---	25.4	4.2
Wooley Valley Cr	---	---	---	2.7	0.1

Notes:
--- indicates no measurement was taken
[a] provisional data from USGS gage 13063000

Chemical Constituents and Handling

Wet chemistry for the Sage, Crow, and Deer Creek sites was analyzed discretely, due to those samples exceeding the 4 °C holding temperature requirement during storage at IDEQ. Average values for these samples are reported (Table 3). All other samples were composited at IDEQ prior to being shipped to the laboratory for analyses. A number of constituents in duplicate samples were less than or near the practical quantitation limit, making very accurate comparisons difficult. During future sampling events, duplicate samples will be obtained at sites where constituents of concern are known to occur at higher concentrations. This will provide for more meaningful comparisons of duplicate sample results.

Physicochemical Parameters

Mean water temperature ranged from 5.5 to 15.2 °C. The highest individual temperature measurement was 17.6 °C at 1518 h, May 8, in Spring Creek, just upstream of its confluence with Blackfoot River. Mean specific conductance ranged from 326 (Diamond Creek) to 926 (Angus Creek) µ/cm. Mean dissolved oxygen was greater than 7 mg/L at all sites. Mean pH ranged from 7.83 to 8.58 units. Individual turbidity measurements ranged from 1.2 to 22.7 NTU.

Chemical Constituents

State of Idaho criteria for metals consists of acute (CMC) and chronic (CCC) concentration limits. In the Blackfoot River watershed, selenium concentrations at all mainstem Blackfoot River sites (except downstream of Government Dam Road bridge), Goodheart, Spring, State Land, and East Mill creeks sites sampled were greater than or equal to the CCC for aquatic life (0.005 mg/L; Figure 3; Tables 3 and 4). Selenium concentrations in samples from East Mill Creek – middle and Spring Creek also were greater than or equal to the CMC for aquatic life (0.02 mg/L; Figure 3; Tables 3 and 4). Sites in the Blackfoot River watershed had lower selenium concentrations during 2007 sampling than in 2006, presumably due to less than "normal" winter snowpack.

Provisional USGS data from Blackfoot River above Henry gage (USGS 13063000) indicate dissolved selenium concentrations (the USGS has determined that the dissolved component of selenium at this site accounts for more than 90% of total selenium, and other constituents need to be filtered, so all samples are filtered) varied considerably and exceeded 0.008 mg/L on May 2, 2007 (Figure 4). The IDEQ 4-day average sample for this site (Blackfoot River at Monsanto) had a lower concentration of 0.006 mg/L. The IDEQ 4-day average samples were taken May 7, 8, and 10, 2007, while USGS data exceeding 0.008 mg/L was acquired May 2, 2007. The USGS sample taken 3 days prior, on April 29, contained 0.0039 mg/L dissolved selenium. These data illustrate how dynamic selenium concentrations are in surface waters and how sample timing can influence results. Selenium concentrations were not related to flow (R^2 = 0.004 for 2007 data; Figure 5). As an example, selenium concentration was 0.0023 mg/L on April 9, 2007 (flow = 350 cfs), while selenium concentration on May 2, 2007, was 0.0082 mg/L (flow = 174 cfs).

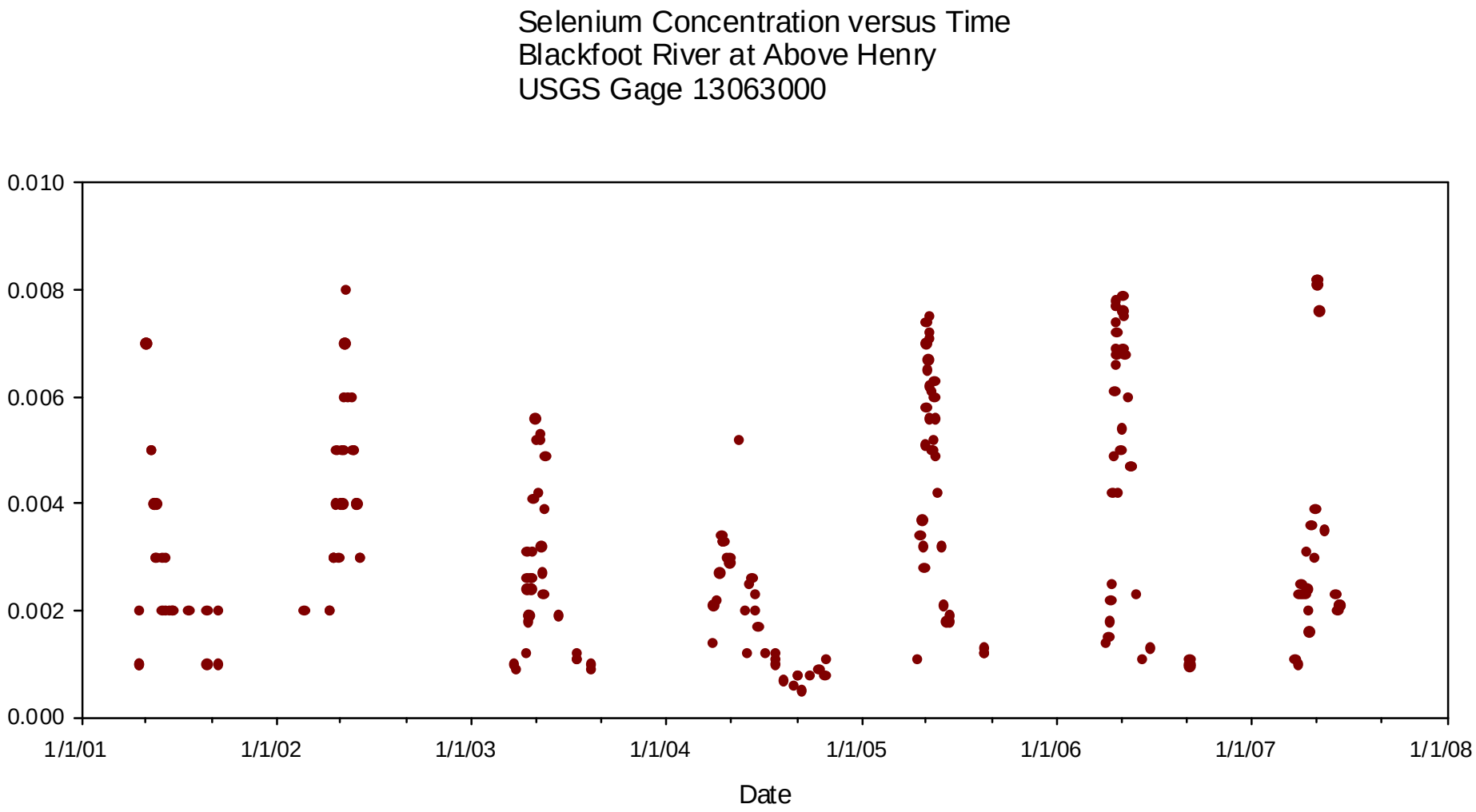

Figure 4. Selenium concentration at USGS gage 13063000, 2001-2007. 2007 data are provisional.

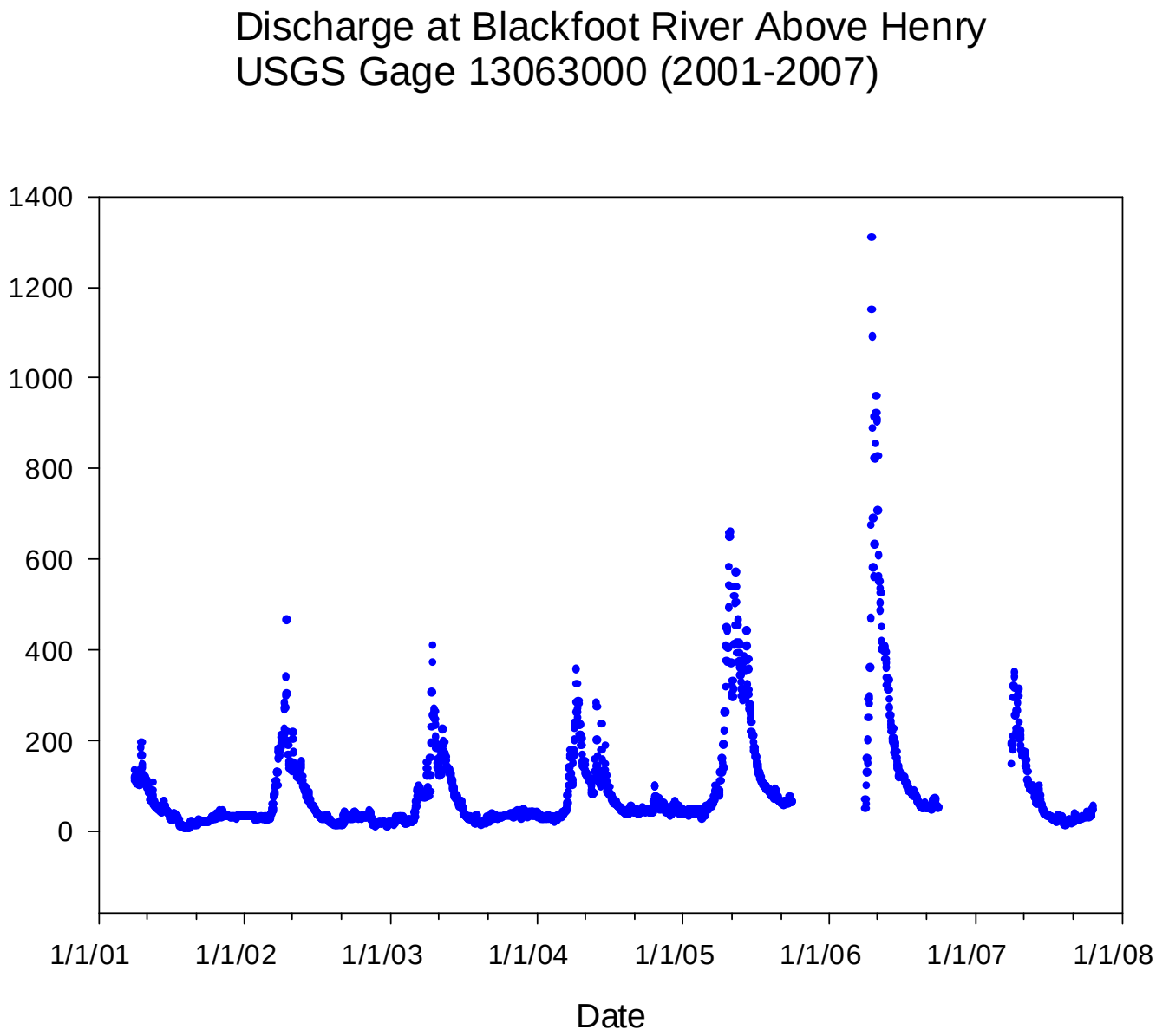

Figure 5. Blackfoot River flow, 2001-2006. 2007 data are provisional.

In the Crow Creek watershed, Sage Creek at Crow Creek Road exceeded the CCC for selenium. The selenium concentration at Crow Creek at Hartman Ranch was 0.003 mg/L (between the minimum detection limit and practical quantitation limit). The selenium concentration in Sage Creek at Crow Creek Road was less than concentrations reported in 2006. Other sites sampled in the watershed (Deer Creek at Crow Creek Road and Crow Creek at Stewart Ranch) did not contain selenium at concentrations greater than the minimum detection limit (Figure 3; Tables 3 and 4). Upper Sage Creek sites were not sampled, as they were inaccessible to vehicular access due to poor road conditions.

At time of sampling Crow Creek and associated tributaries, it was noted that some Sage Creek water (IDEQ did not measure actual diverted flow) was being diverted upstream of its confluence with Crow Creek (which is also upstream of IDEQ's Crow Creek at Hartman Ranch sample site). This diversion (listed as a 4.9 cfs claim) takes water to the Hartman Ranch. In addition, a number of current water rights are listed in the Idaho Department of Water Resources database (diversion claims total approximately 21 cfs) and to IDEQ's knowledge, all are diverted upstream of Crow Creek Road. Based on IDEQ sampling, the selenium concentration in Crow Creek at Hartman Ranch is dependent on selenium levels in Sage Creek (i.e., IDEQ sample results indicate selenium upstream of this site in Deer Creek at Crow Creek Road and Crow Creek at Stewart Ranch to be less than 0.001mg/L). Depending on the total amount of Sage Creek water being diverted (assuming that Sage Creek at Crow Creek Road is generally carrying selenium above the MDL of 0.001 mg/l), diversion of Sage Creek water above the Crow Creek sampling site would reduce Crow Creek's total selenium concentration. Sage Creek and Crow Creek flows averaged 13.7 and 40 cfs, respectively, over the 4-day sampling period. IDEQ calculates that in order for the Crow Creek at Hartman Ranch selenium concentration to exceed the cold water aquatic life criterion of 0.005 mg/L (with Sage Creek selenium concentration being 0.01 mg/L as reported), the total, non-diverted Sage Creek flow would have to be 34 cfs. In other words, Crow Creek's selenium concentration could have been greater than 0.005 mg/L if all of the appropriated water (~ 21 cfs) was being diverted from Sage Creek at the time of IDEQ sampling (which is possible based on total diversion claims of 21 cfs). IDEQ considers this scenario possible; therefore, it may be necessary to sample both Sage Creek at Crow Creek Road and Crow Creek at Hartman Ranch outside the irrigation season to more accurately characterize selenium concentrations at these sites.

Georgetown Creek below mine (below mill site) and Georgetown Creek above mill site were the only sites sampled in the Bear River watershed having a selenium concentration greater than or equal to the CCC for aquatic life (Figure 3; Tables 3 and 4). Georgetown Creek above Right Hand Fork selenium concentration was less than that measured in 2006; however the Georgetown Creek below mine site selenium concentration was actually greater than that measured in 2006 (0.017 in 2007 versus 0.012 mg/L in 2006). Except for a slight increase (0.005 to 0.006 mg/L) at Blackfoot River upstream of Narrows, this was the only site to show any increase in selenium concentration over concentrations measured during the 2006 area-wide effort.

Criteria for several metals (cadmium, chromium, copper, lead, silver, nickel, and zinc) are hardness-dependent. Acute and chronic criteria concentrations were calculated for each of

these metals using the most conservative hardness value (160) from the analytical report (Table 6). Concentrations of all hardness-dependent metals analyzed for (cadmium, chromium, copper, lead, silver, nickel, and zinc) were less than detection limits, or were at least an order of magnitude less than the CCC at all sites. Vanadium concentrations ranged from less than 0.0004 to 0.003 mg/L (mean = 0.0015 mg/L). No criteria except for human consumption of drinking water (0.26 mg/L) are available for vanadium.

No new listings for streams in the Blackfoot River watershed are proposed as a result of this year's sample results.

Table 6. Calculated CMC and CCC values for hardness-dependent metals.

	Hardness	CMC[1] Conversion factor	CCC[2] Conversion factor	CMC (ug/l)	CCC (ug/l)	CMC (mg/L)	CCC (mg/L)
Statewide criteria							
Cadmium	160	0.924	0.889	**1.99**	**0.75**	**0.0020**	**0.000748**
Chromium III	160	0.316	0.860	**837**	**109**	**0.8373**	**0.108912**
Chromium VI	160	0.982	0.962	**15**	**10**	**0.0155**	**0.010390**
Copper	160	0.960	0.960	**26.5**	**17.0**	**0.0265**	**0.016961**
Lead	160	0.723	0.723	**107**	**4.18**	**0.1073**	**0.004182**
Mercury	160	0.850	1.000	**NA**	**NA**		
Nickel	160	0.998	0.997	**697**	**77**	**0.6969**	**0.077400**
Silver	160	0.850		**7.74**		**0.0077**	
Zinc	160	0.978	0.986	**175**	**176**	**0.1745**	**0.175932**

Acute and chronic concentrations calculated using the lowest hardness detected = 160 mg/L
Calculations based on IDAPA July 2006
1. CMC – acute aquatic life criteria
2. CCC – chronic aquatic life criteria

Data Quality

Three field equipment blanks and duplicate samples were taken during the sampling effort in order to account for sampling and contamination issues. Total selenium was not detected in any blank. Generally, study constituents were not detected in blanks. Copper, lead, calcium, and hardness concentrations in blanks were less than or equal to practical quantitation limits (PQL). As the MDL is defined by the U.S. Environmental Protection Agency as "the minimum concentration of substance that can be measured by a specific testing protocol and reported with 99% confidence that the analyte concentration is greater than zero," it is, by definition, not quantifiable. The PQL (reporting limit or RL) represents the "lowest quantitative level that can be achieved with good certainty during routine operations" (ACZ 2007). Therefore, sample concentrations below the PQL are not accurately comparable. Duplicate samples were within tolerance limits for low-level sample concentrations of total selenium, except in Duplicate 2, where selenium concentrations were less than the PQL. Except for vanadium in Duplicate sample 2 and total phosphorous in Duplicate sample 3, duplicate samples with concentrations greater

than PQL were within tolerance limits for low-level sample concentrations (25% for low level duplicates; APHA 1998).

ACZ Laboratory quality assurance/quality control (QA/QC) was acceptable for all runs. Selenium spike or spike duplicate recoveries for the Crow, Deer, and Sage Creek samples were out of acceptance limits; however, relative percent differences of these samples were within acceptance limits. All three of these samples had selenium concentrations less than 0.005 mg/L (PQL = 0.005 mg/L). Nitrate+nitrite and some alkalinity analysis results should be used with caution, as most samples exceeded method hold times for these constituents due to IDEQ holding requirements for 4-day average samples. No certification qualifiers were associated with any analyses.

RECOMMENDATIONS

Angus, Goodheart below Champ Mine, and Georgetown Creek below the mine exceeded the selenium CCC in two IDEQ samples over the past three years and have been included in IDEQ's Integrated Report as recommended for addition to the next 303(d) list. State Land Creek, based on data collected by IDEQ and Whetstone Associates (Whetstone 2006), also exceeds the selenium CCC and was also recommended for 303(d) listing. Additionally, the mainstem Blackfoot River from Monsanto Bridge to its confluence with Blackfoot Reservoir exceeded the selenium CCC in 2005 and 2006 (see graph of USGS data; Figure 4) and was recommended for 303(d) listing. Sheep, Crow at Hartman Ranch, Wooley Valley, and Georgetown above Right Hand Fork creek had concentrations of total selenium less than or equal to the CCC in 2007 (lower than concentrations in these streams in 2006) and therefore will not be listed unless further monitoring indicates exceedances. A selenium concentration greater than the CCC in Georgetown Creek above mining/mill site indicates most contamination at the Georgetown Creek below mine site originates upstream of the above mining/mill site and below the Right Hand Fork confluence the selenium concentration has dropped to 0.003 mg/L. Sampling will continue to assess whether streams are in compliance with water quality standards. IDEQ will continue water quality monitoring at all sites investigated in this study and others as needs become apparent. An effort will be made to schedule sampling in conjunction with spring runoff; however, logistical constraints may preclude sampling at peak runoff in some cases.

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Appendix A – Sampling Analysis Results, Compiled

This appendix contains a single spreadsheet that compiles all the sample analysis results, which are drawn from the individual analytical reports (presented in Appendix B).

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DEPTNAME	COLLECT DATE	RECEIVE DATE	ANALYTE	MATRIX	METHOD	RESULT	QUAL	UNITS	MDL	PQL	ANALYZE DATE	ANA-LYST	CAS #*	Mean/Note
Metals Analysis	5/11/2007	5/15/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	
Metals Analysis	5/11/2007	5/15/2007	Calcium, dissolved	SW	M200.7 ICP	147		mg/L	0.2	1	5/23/2007	djt	7440-70-2	
Metals Analysis	5/11/2007	5/15/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0006		mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/11/2007	5/15/2007	Copper, dissolved	SW	M200.8 ICP-MS	0.0006	B	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/11/2007	5/15/2007	Lead, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/11/2007	5/15/2007	Magnesium, dissolved	SW	M200.7 ICP	39.2		mg/L	0.2	1	5/23/2007	djt	7439-95-4	
Metals Analysis	5/11/2007	5/15/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.0029	B	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/11/2007	5/15/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid	0.004	B	mg/L	0.001	0.005	5/25/2007	gme	7782-49-2	
Metals Analysis	5/11/2007	5/15/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/11/2007	5/15/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.0013		mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/11/2007	5/15/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	5/23/2007	djt	7440-66-6	
Wet Chemistry	5/11/2007	5/15/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	243		mg/L	2	20	5/25/2007	wpa	10139	
Wet Chemistry	5/11/2007	5/15/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR	4	B	mg/L	1	5	5/21/2007	nps	10355	
Wet Chemistry	5/11/2007	5/15/2007	Carbonate as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/25/2007	wpa		
Wet Chemistry	5/11/2007	5/15/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	529		mg/L	1	7	5/30/2007	calc		
Wet Chemistry	5/11/2007	5/15/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/25/2007	wpa		
Wet Chemistry	5/11/2007	5/15/2007	Nitrate/Nitrite as N, dissolve	SW	M353.2 - Automated C	0.04	BH	mg/L	0.02	0.1	5/15/2007	pjb		
Wet Chemistry	5/11/2007	5/15/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.11		mg/L	0.01	0.05	5/19/2007	pjb	7723-14-0	
Wet Chemistry	5/11/2007	5/15/2007	Residue, Non-Filterable (TSS)	SW	M160.2 - Gravimetric		U	mg/L	5	20	5/17/2007	aeh		
Wet Chemistry	5/11/2007	5/15/2007	Total Alkalinity	SW	SM2320B - Titration	243		mg/L	2	20	5/25/2007	wpa	10093	
Metals Analysis	5/10/2007	5/15/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	
Metals Analysis	5/10/2007	5/15/2007	Calcium, dissolved	SW	M200.7 ICP	57.2		mg/L	0.2	1	5/23/2007	djt	7440-70-2	
Metals Analysis	5/10/2007	5/15/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0005	B	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/10/2007	5/15/2007	Copper, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/10/2007	5/15/2007	Lead, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/10/2007	5/15/2007	Magnesium, dissolved	SW	M200.7 ICP	11.1		mg/L	0.2	1	5/23/2007	djt	7439-95-4	
Metals Analysis	5/10/2007	5/15/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.0008	B	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/10/2007	5/15/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid	0.006		mg/L	0.001	0.005	5/25/2007	gme	7782-49-2	
Metals Analysis	5/10/2007	5/15/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/10/2007	5/15/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.0008	B	mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/10/2007	5/15/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	5/23/2007	djt	7440-66-6	
Wet Chemistry	5/10/2007	5/15/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	174		mg/L	2	20	5/24/2007	wpa	10139	
Wet Chemistry	5/10/2007	5/15/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR	3	B	mg/L	1	5	5/25/2007	nps/jag	10355	
Wet Chemistry	5/10/2007	5/15/2007	Carbonate as CaCO3	SW	SM2320B - Titration	9	B	mg/L	2	20	5/24/2007	wpa		

DEPTNAME	COLLECT DATE	RECEIVE DATE	ANALYTE	MATRIX	METHOD	RESULT	QUAL	UNITS	MDL	PQL	ANALYZE DATE	ANA-LYST	CAS #*	Mean/Note
Wet Chemistry	5/10/2007	5/15/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	189		mg/L	1	7	5/30/2007	calc		
Wet Chemistry	5/10/2007	5/15/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007	wpa		
Wet Chemistry	5/10/2007	5/15/2007	Nitrate/Nitrite as N, dissolve	SW	M353.2 - Automated C		UH	mg/L	0.02	0.1	5/15/2007	pjb		
Wet Chemistry	5/10/2007	5/15/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.05		mg/L	0.01	0.05	5/19/2007	pjb	7723-14-0	
Wet Chemistry	5/10/2007	5/15/2007	Residue, Non-Filterable (TSS)	SW	M160.2 - Gravimetric		U	mg/L	5	20	5/16/2007		aeh	
Wet Chemistry	5/10/2007	5/15/2007	Total Alkalinity	SW	SM2320B - Titration	184		mg/L	2	20	5/24/2007	wpa	10093	
Metals Analysis	5/11/2007	5/15/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	
Metals Analysis	5/11/2007	5/15/2007	Calcium, dissolved	SW	M200.7 ICP	66.2		mg/L	0.2	1	5/22/2007	djt	7440-70-2	
Metals Analysis	5/11/2007	5/15/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0004	B	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/11/2007	5/15/2007	Copper, dissolved	SW	M200.8 ICP-MS	0.0006	B	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/11/2007	5/15/2007	Lead, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/11/2007	5/15/2007	Magnesium, dissolved	SW	M200.7 ICP	14.4		mg/L	0.2	1	5/22/2007	djt	7439-95-4	
Metals Analysis	5/11/2007	5/15/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.0011	B	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/11/2007	5/15/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid	0.005	B	mg/L	0.001	0.005	5/24/2007	wfg	7782-49-2	
Metals Analysis	5/11/2007	5/15/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/11/2007	5/15/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.0012		mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/11/2007	5/15/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	5/25/2007	wfg	7440-66-6	
Wet Chemistry	5/11/2007	5/15/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	205		mg/L	2	20	5/24/2007	wpa	10139	
Wet Chemistry	5/11/2007	5/15/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR	3	B	mg/L	1	5	5/21/2007	nps	10355	
Wet Chemistry	5/11/2007	5/15/2007	Carbonate as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007	wpa		
Wet Chemistry	5/11/2007	5/15/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	225		mg/L	1	7	5/30/2007	calc		
Wet Chemistry	5/11/2007	5/15/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007	wpa		
Wet Chemistry	5/11/2007	5/15/2007	Nitrate/Nitrite as N, dissolve	SW	M353.2 - Automated C		UH	mg/L	0.02	0.1	5/15/2007	pjb		
Wet Chemistry	5/11/2007	5/15/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.05		mg/L	0.01	0.05	5/26/2007	pjb	7723-14-0	
Wet Chemistry	5/11/2007	5/15/2007	Residue, Non-Filterable (TSS)	SW	M160.2 - Gravimetric	10	B	mg/L	5	20	5/17/2007	aeh		
Wet Chemistry	5/11/2007	5/15/2007	Total Alkalinity	SW	SM2320B - Titration	205		mg/L	2	20	5/24/2007	wpa	10093	
Metals Analysis	5/10/2007	5/15/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	
Metals Analysis	5/10/2007	5/15/2007	Calcium, dissolved	SW	M200.7 ICP	57.2		mg/L	0.2	1	5/23/2007	djt	7440-70-2	
Metals Analysis	5/10/2007	5/15/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0004	B	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/10/2007	5/15/2007	Copper, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/10/2007	5/15/2007	Lead, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/10/2007	5/15/2007	Magnesium, dissolved	SW	M200.7 ICP	11.2		mg/L	0.2	1	5/23/2007	djt	7439-95-4	
Metals Analysis	5/10/2007	5/15/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.0009	B	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/10/2007	5/15/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid	0.006		mg/L	0.001	0.005	5/24/2007	wfg	7782-49-2	

DEPTNAME	COLLECT DATE	RECEIVE DATE	ANALYTE	MATRIX	METHOD	RESULT	QUAL	UNITS	MDL	PQL	ANALYZE DATE	ANA-LYST	CAS #*	Mean/Note
Metals Analysis	5/10/2007	5/15/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/10/2007	5/15/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.0013		mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/10/2007	5/15/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	5/23/2007	djt	7440-66-6	
Wet Chemistry	5/10/2007	5/15/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	172		mg/L	2	20	5/24/2007	wpa	10139	
Wet Chemistry	5/10/2007	5/15/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR	4	B	mg/L	1	5	5/21/2007	nps	10355	
Wet Chemistry	5/10/2007	5/15/2007	Carbonate as CaCO3	SW	SM2320B - Titration	10	B	mg/L	2	20	5/24/2007	wpa		
Wet Chemistry	5/10/2007	5/15/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	189		mg/L	1	7	5/30/2007	calc		
Wet Chemistry	5/10/2007	5/15/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007	wpa		
Wet Chemistry	5/10/2007	5/15/2007	Nitrate/Nitrite as N, dissolve	SW	M353.2 - Automated C		UH	mg/L	0.02	0.1	5/15/2007	pjb		
Wet Chemistry	5/10/2007	5/15/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.06		mg/L	0.01	0.05	5/19/2007	pjb	7723-14-0	
Wet Chemistry	5/10/2007	5/15/2007	Residue, Non-Filterable (TSS)	SW	M160.2 - Gravimetric		U	mg/L	5	20	5/16/2007	aeh		
Wet Chemistry	5/10/2007	5/15/2007	Total Alkalinity	SW	SM2320B - Titration	182		mg/L	2	20	5/24/2007	wpa	10093	
Metals Analysis	5/11/2007	5/15/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	
Metals Analysis	5/11/2007	5/15/2007	Calcium, dissolved	SW	M200.7 ICP	58.1		mg/L	0.2	1	5/22/2007	djt	7440-70-2	
Metals Analysis	5/11/2007	5/15/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0006		mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/11/2007	5/15/2007	Copper, dissolved	SW	M200.8 ICP-MS	0.0006	B	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/11/2007	5/15/2007	Lead, dissolved	SW	M200.8 ICP-MS	0.0001	B	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/11/2007	5/15/2007	Magnesium, dissolved	SW	M200.7 ICP	11.4		mg/L	0.2	1	5/22/2007	djt	7439-95-4	
Metals Analysis	5/11/2007	5/15/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.001	B	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/11/2007	5/15/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid	0.006		mg/L	0.001	0.005	5/24/2007	wfg	7782-49-2	
Metals Analysis	5/11/2007	5/15/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/11/2007	5/15/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.0013		mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/11/2007	5/15/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	5/25/2007	wfg	7440-66-6	
Wet Chemistry	5/11/2007	5/15/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	163		mg/L	2	20	5/24/2007	wpa	10139	
Wet Chemistry	5/11/2007	5/15/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR	4	B	mg/L	1	5	5/25/2007	nps/jag	10355	
Wet Chemistry	5/11/2007	5/15/2007	Carbonate as CaCO3	SW	SM2320B - Titration	14	B	mg/L	2	20	5/24/2007	wpa		
Wet Chemistry	5/11/2007	5/15/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	192		mg/L	1	7	5/30/2007	calc		
Wet Chemistry	5/11/2007	5/15/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007	wpa		
Wet Chemistry	5/11/2007	5/15/2007	Nitrate/Nitrite as N, dissolve	SW	M353.2 - Automated C		UH	mg/L	0.02	0.1	5/15/2007	pjb		
Wet Chemistry	5/11/2007	5/15/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.07		mg/L	0.01	0.05	5/26/2007	pjb	7723-14-0	
Wet Chemistry	5/11/2007	5/15/2007	Residue, Non-Filterable (TSS)	SW	M160.2 - Gravimetric		U	mg/L	5	20	5/15/2007	aeh		
Wet Chemistry	5/11/2007	5/15/2007	Total Alkalinity	SW	SM2320B - Titration	178		mg/L	2	20	5/24/2007	wpa	10093	
Metals Analysis	5/11/2007	5/15/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	
Metals Analysis	5/11/2007	5/15/2007	Calcium, dissolved	SW	M200.7 ICP	58.8		mg/L	0.2	1	5/23/2007	djt	7440-70-2	

DEPTNAME	COLLECT DATE	RECEIVE DATE	ANALYTE	MATRIX	METHOD	RESULT	QUAL	UNITS	MDL	PQL	ANALYZE DATE	ANA-LYST	CAS #*	Mean/Note
Metals Analysis	5/11/2007	5/15/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0004	B	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/11/2007	5/15/2007	Copper, dissolved	SW	M200.8 ICP-MS	0.0005	B	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/11/2007	5/15/2007	Lead, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/11/2007	5/15/2007	Magnesium, dissolved	SW	M200.7 ICP	11.6		mg/L	0.2	1	5/23/2007	djt	7439-95-4	
Metals Analysis	5/11/2007	5/15/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.0009	B	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/11/2007	5/15/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid	0.005		mg/L	0.001	0.005	5/24/2007	wfg	7782-49-2	
Metals Analysis	5/11/2007	5/15/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/11/2007	5/15/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.0011		mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/11/2007	5/15/2007	Zinc, dissolved	SW	M200.7 ICP	0.02	B	mg/L	0.01	0.05	5/23/2007	djt	7440-66-6	
Wet Chemistry	5/11/2007	5/15/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	177		mg/L	2	20	5/24/2007	wpa	10139	
Wet Chemistry	5/11/2007	5/15/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR	3	B	mg/L	1	5	5/21/2007	nps	10355	
Wet Chemistry	5/11/2007	5/15/2007	Carbonate as CaCO3	SW	SM2320B - Titration	8	B	mg/L	2	20	5/24/2007	wpa		
Wet Chemistry	5/11/2007	5/15/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	195		mg/L	1	7	5/30/2007	calc		
Wet Chemistry	5/11/2007	5/15/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007	wpa		
Wet Chemistry	5/11/2007	5/15/2007	Nitrate/Nitrite as N, dissolve	SW	M353.2 - Automated C		UH	mg/L	0.02	0.1	5/15/2007	pjb		
Wet Chemistry	5/11/2007	5/15/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.05		mg/L	0.01	0.05	5/19/2007	pjb	7723-14-0	
Wet Chemistry	5/11/2007	5/15/2007	Residue, Non-Filterable (TSS)	SW	M160.2 - Gravimetric		U	mg/L	5	20	5/16/2007	aeh		
Wet Chemistry	5/11/2007	5/15/2007	Total Alkalinity	SW	SM2320B - Titration	185		mg/L	2	20	5/24/2007	wpa	10093	
Metals Analysis	5/11/2007	5/15/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	
Metals Analysis	5/11/2007	5/15/2007	Calcium, dissolved	SW	M200.7 ICP	59.4		mg/L	0.2	1	5/22/2007	djt	7440-70-2	
Metals Analysis	5/11/2007	5/15/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0006		mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/11/2007	5/15/2007	Copper, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/11/2007	5/15/2007	Lead, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/11/2007	5/15/2007	Magnesium, dissolved	SW	M200.7 ICP	11.6		mg/L	0.2	1	5/22/2007	djt	7439-95-4	
Metals Analysis	5/11/2007	5/15/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.0008	B	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/11/2007	5/15/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid	0.005		mg/L	0.001	0.005	5/24/2007	wfg	7782-49-2	
Metals Analysis	5/11/2007	5/15/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/11/2007	5/15/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.001		mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/11/2007	5/15/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	5/25/2007	wfg	7440-66-6	
Wet Chemistry	5/11/2007	5/15/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	182		mg/L	2	20	5/24/2007	wpa	10139	
Wet Chemistry	5/11/2007	5/15/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR	3	B	mg/L	1	5	5/25/2007	nps/jag	10355	
Wet Chemistry	5/11/2007	5/15/2007	Carbonate as CaCO3	SW	SM2320B - Titration	6	B	mg/L	2	20	5/24/2007	wpa		
Wet Chemistry	5/11/2007	5/15/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	196		mg/L	1	7	5/30/2007	calc		
Wet Chemistry	5/11/2007	5/15/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007	wpa		

DEPTNAME	COLLECT DATE	RECEIVE DATE	ANALYTE	MATRIX	METHOD	RESULT	QUAL	UNITS	MDL	PQL	ANALYZE DATE	ANA-LYST	CAS #*	Mean/Note
Wet Chemistry	5/11/2007	5/15/2007	Nitrate/Nitrite as N, dissolve	SW	M353.2 - Automated C		UH	mg/L	0.02	0.1	5/15/2007	pjb		
Wet Chemistry	5/11/2007	5/15/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.04	B	mg/L	0.01	0.05	5/26/2007	pjb	7723-14-0	
Wet Chemistry	5/11/2007	5/15/2007	Residue, Non-Filterable (TSS)	SW	M160.2 - Gravimetric	10	B	mg/L	5	20	5/15/2007	aeh		
Wet Chemistry	5/11/2007	5/15/2007	Total Alkalinity	SW	SM2320B - Titration	188		mg/L	2	20	5/24/2007	wpa	10093	
Metals Analysis	5/24/2007	6/5/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	6/6/2007	jjr	7440-43-9	
Metals Analysis	5/24/2007	6/5/2007	Calcium, dissolved	SW	M200.7 ICP	71.5		mg/L	0.2	1	6/12/2007	wfg	7440-70-2	
Metals Analysis	5/24/2007	6/5/2007	Chromium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	6/6/2007	jjr	7440-47-3	
Metals Analysis	5/24/2007	6/5/2007	Copper, dissolved	SW	M200.8 ICP-MS	0.0006	B	mg/L	0.0005	0.003	6/6/2007	jjr	7440-50-8	
Metals Analysis	5/24/2007	6/5/2007	Lead, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	6/6/2007	jjr	7439-92-1	
Metals Analysis	5/24/2007	6/5/2007	Magnesium, dissolved	SW	M200.7 ICP	16.1		mg/L	0.2	1	6/12/2007	wfg	7439-95-4	
Metals Analysis	5/24/2007	6/5/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.0019	B	mg/L	0.0006	0.003	6/6/2007	jjr	7440-02-0	
Metals Analysis	5/24/2007	6/5/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid		U	mg/L	0.001	0.005	6/15/2007	gme	7782-49-2	
Metals Analysis	5/24/2007	6/5/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	6/6/2007	jjr	7440-22-4	
Metals Analysis	5/24/2007	6/5/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.0019		mg/L	0.0002	0.001	6/6/2007	jjr	7440-62-2	
Metals Analysis	5/24/2007	6/5/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	6/12/2007	wfg	7440-66-6	
Wet Chemistry	5/24/2007	6/5/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	245		mg/L	1	7	6/22/2007	calc		
Wet Chemistry	5/24/2007	6/5/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	197	H	mg/L	2	20	6/9/2007	cas	10139	196
Wet Chemistry	5/24/2007	6/5/2007	Carbon, total organic (TOC)	SW	415.1 / SM5310B	6	H	mg/L	1	5	6/27/2007	jag	10355	6
Wet Chemistry	5/24/2007	6/5/2007	Carbonate as CaCO3	SW	SM2320B - Titration	16	BH	mg/L	2	20	6/9/2007	cas		14
Wet Chemistry	5/24/2007	6/5/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		UH	mg/L	2	20	6/9/2007	cas		#DIV/0!
Wet Chemistry	5/24/2007	6/5/2007	Nitrate/Nitrite as N	SW	M353.2 - H2SO4 prese		U	mg/L	0.02	0.1	6/14/2007	pjb		#DIV/0!
Wet Chemistry	5/24/2007	6/5/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.06		mg/L	0.01	0.05	6/15/2007	pjb	7723-14-0	0.08
Wet Chemistry	5/24/2007	6/5/2007	Residue, Non-Filterable (TSS)	SW	160.1 / SM2540C		UH	mg/L	5	20	6/5/2007	aeh		8
Wet Chemistry	5/24/2007	6/5/2007	Total Alkalinity	SW	SM2320B - Titration	214	H	mg/L	2	20	6/9/2007	cas	10093	211
Wet Chemistry	5/21/2007	6/5/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	192	H	mg/L	2	20	6/9/2007	cas	10139	
Wet Chemistry	5/21/2007	6/5/2007	Carbon, total organic (TOC)	SW	415.1 / SM5310B	6	H	mg/L	1	5	6/27/2007	jag	10355	
Wet Chemistry	5/21/2007	6/5/2007	Carbonate as CaCO3	SW	SM2320B - Titration	13	BH	mg/L	2	20	6/9/2007	cas		
Wet Chemistry	5/21/2007	6/5/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		UH	mg/L	2	20	6/9/2007	cas		
Wet Chemistry	5/21/2007	6/5/2007	Nitrate/Nitrite as N	SW	M353.2 - H2SO4 prese		U	mg/L	0.02	0.1	6/14/2007	pjb		
Wet Chemistry	5/21/2007	6/5/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.08		mg/L	0.01	0.05	6/15/2007	pjb	7723-14-0	
Wet Chemistry	5/21/2007	6/5/2007	Residue, Non-Filterable (TSS)	SW	160.1 / SM2540C	12	BH	mg/L	5	20	6/5/2007	aeh		

DEPTNAME	COLLECT DATE	RECEIVE DATE	ANALYTE	MATRIX	METHOD	RESULT	QUAL	UNITS	MDL	PQL	ANALYZE DATE	ANA-LYST	CAS #*	Mean/Note
Wet Chemistry	5/21/2007	6/5/2007	Total Alkalinity	SW	SM2320B - Titration	205	H	mg/L	2	20	6/9/2007	cas	10093	
Wet Chemistry	5/22/2007	6/5/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	200	H	mg/L	2	20	6/9/2007	cas	10139	
Wet Chemistry	5/22/2007	6/5/2007	Carbon, total organic (TOC)	SW	415.1 / SM5310B	6	H	mg/L	1	5	6/27/2007	jag	10355	
Wet Chemistry	5/22/2007	6/5/2007	Carbonate as CaCO3	SW	SM2320B - Titration	14	BH	mg/L	2	20	6/9/2007		cas	
Wet Chemistry	5/22/2007	6/5/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		UH	mg/L	2	20	6/9/2007		cas	
Wet Chemistry	5/22/2007	6/5/2007	Nitrate/Nitrite as N	SW	M353.2 - H2SO4 prese		U	mg/L	0.02	0.1	6/14/2007	pjb		
Wet Chemistry	5/22/2007	6/5/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.09		mg/L	0.01	0.05	6/15/2007	pjb	7723-14-0	
Wet Chemistry	5/22/2007	6/5/2007	Residue, Non-Filterable (TSS)	SW	160.1 / SM2540C	10	BH	mg/L	5	20	6/5/2007	aeh		
Wet Chemistry	5/22/2007	6/5/2007	Total Alkalinity	SW	SM2320B - Titration	214	H	mg/L	2	20	6/9/2007	cas	10093	
Metals Analysis	5/24/2007	6/5/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	6/6/2007	jjr	7440-43-9	
Metals Analysis	5/24/2007	6/5/2007	Calcium, dissolved	SW	M200.7 ICP	61.8		mg/L	0.2	1	6/12/2007	wfg	7440-70-2	
Metals Analysis	5/24/2007	6/5/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0012		mg/L	0.0001	0.0005	6/7/2007	jjr	7440-47-3	
Metals Analysis	5/24/2007	6/5/2007	Copper, dissolved	SW	M200.8 ICP-MS	0.0007	B	mg/L	0.0005	0.003	6/6/2007	jjr	7440-50-8	
Metals Analysis	5/24/2007	6/5/2007	Lead, dissolved	SW	M200.8 ICP-MS	0.0002	B	mg/L	0.0001	0.0005	6/7/2007	jjr	7439-92-1	
Metals Analysis	5/24/2007	6/5/2007	Magnesium, dissolved	SW	M200.7 ICP	18.9		mg/L	0.2	1	6/12/2007	wfg	7439-95-4	
Metals Analysis	5/24/2007	6/5/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.0017	B	mg/L	0.0006	0.003	6/6/2007	jjr	7440-02-0	
Metals Analysis	5/24/2007	6/5/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid	0.003	B	mg/L	0.001	0.005	6/15/2007	gme	7782-49-2	
Metals Analysis	5/24/2007	6/5/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	6/6/2007	jjr	7440-22-4	
Metals Analysis	5/24/2007	6/5/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.0019		mg/L	0.0002	0.001	6/6/2007	jjr	7440-62-2	
Metals Analysis	5/24/2007	6/5/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	6/12/2007	wfg	7440-66-6	
Wet Chemistry	5/24/2007	6/5/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	232		mg/L	1	7	6/22/2007	calc		
Wet Chemistry	5/22/2007	6/5/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	177	H	mg/L	2	20	6/9/2007	cas	10139	173
Wet Chemistry	5/22/2007	6/5/2007	Carbon, total organic (TOC)	SW	415.1 / SM5310B	5	BH	mg/L	1	5	6/27/2007	jag	10355	4
Wet Chemistry	5/22/2007	6/5/2007	Carbonate as CaCO3	SW	SM2320B - Titration	11	BH	mg/L	2	20	6/9/2007	cas		13
Wet Chemistry	5/22/2007	6/5/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		UH	mg/L	2	20	6/9/2007	cas		#DIV/0!
Wet Chemistry	5/22/2007	6/5/2007	Nitrate/Nitrite as N	SW	M353.2 - H2SO4 prese	0.03	B	mg/L	0.02	0.1	6/14/2007	pjb		0.02
Wet Chemistry	5/22/2007	6/5/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.07		mg/L	0.01	0.05	6/15/2007	pjb	7723-14-0	0.07
Wet Chemistry	5/22/2007	6/5/2007	Residue, Non-Filterable (TSS)	SW	160.1 / SM2540C	8	BH	mg/L	5	20	6/5/2007	aeh		11
Wet Chemistry	5/22/2007	6/5/2007	Total Alkalinity	SW	SM2320B - Titration	188	H	mg/L	2	20	6/9/2007	cas	10093	186
Wet Chemistry	5/24/2007	6/5/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	175	H	mg/L	2	20	6/9/2007	cas	10139	

DEPTNAME	COLLECT DATE	RECEIVE DATE	ANALYTE	MATRIX	METHOD	RESULT	QUAL	UNITS	MDL	PQL	ANALYZE DATE	ANA-LYST	CAS #*	Mean/Note
Wet Chemistry	5/24/2007	6/5/2007	Carbon, total organic (TOC)	SW	415.1 / SM5310B	4	BH	mg/L	1	5	6/27/2007	jag	10355	
Wet Chemistry	5/24/2007	6/5/2007	Carbonate as CaCO3	SW	SM2320B - Titration	13	BH	mg/L	2	20	6/9/2007	cas		
Wet Chemistry	5/24/2007	6/5/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		UH	mg/L	2	20	6/9/2007	cas		
Wet Chemistry	5/24/2007	6/5/2007	Nitrate/Nitrite as N	SW	M353.2 - H2SO4 prese		U	mg/L	0.02	0.1	6/14/2007	pjb		
Wet Chemistry	5/24/2007	6/5/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.07		mg/L	0.01	0.05	6/15/2007	pjb	7723-14-0	
Wet Chemistry	5/24/2007	6/5/2007	Residue, Non-Filterable (TSS)	SW	160.1 / SM2540C	12	BH	mg/L	5	20	6/5/2007	aeh		
Wet Chemistry	5/24/2007	6/5/2007	Total Alkalinity	SW	SM2320B - Titration	188	H	mg/L	2	20	6/9/2007	cas	10093	
Wet Chemistry	5/21/2007	6/5/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	168	H	mg/L	2	20	6/9/2007	cas	10139	
Wet Chemistry	5/21/2007	6/5/2007	Carbon, total organic (TOC)	SW	415.1 / SM5310B	4	BH	mg/L	1	5	6/27/2007	jag	10355	
Wet Chemistry	5/21/2007	6/5/2007	Carbonate as CaCO3	SW	SM2320B - Titration	14	BH	mg/L	2	20	6/9/2007		cas	
Wet Chemistry	5/21/2007	6/5/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		UH	mg/L	2	20	6/9/2007		cas	
Wet Chemistry	5/21/2007	6/5/2007	Nitrate/Nitrite as N	SW	M353.2 - H2SO4 prese		U	mg/L	0.02	0.1	6/14/2007	pjb		
Wet Chemistry	5/21/2007	6/5/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.06		mg/L	0.01	0.05	6/13/2007	mls/jag	7723-14-0	
Wet Chemistry	5/21/2007	6/5/2007	Residue, Non-Filterable (TSS)	SW	160.1 / SM2540C	14	BH	mg/L	5	20	6/5/2007		aeh	
Wet Chemistry	5/21/2007	6/5/2007	Total Alkalinity	SW	SM2320B - Titration	182	H	mg/L	2	20	6/9/2007	cas	10093	
Metals Analysis	5/24/2007	6/5/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	6/7/2007	jjr	7440-43-9	
Metals Analysis	5/24/2007	6/5/2007	Calcium, dissolved	SW	M200.7 ICP	55.2		mg/L	0.2	1	6/12/2007	wfg	7440-70-2	
Metals Analysis	5/24/2007	6/5/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0011		mg/L	0.0001	0.0005	6/7/2007	jjr	7440-47-3	
Metals Analysis	5/24/2007	6/5/2007	Copper, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0005	0.003	6/7/2007	jjr	7440-50-8	
Metals Analysis	5/24/2007	6/5/2007	Lead, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	6/6/2007	jjr	7439-92-1	
Metals Analysis	5/24/2007	6/5/2007	Magnesium, dissolved	SW	M200.7 ICP	15.2		mg/L	0.2	1	6/12/2007	wfg	7439-95-4	
Metals Analysis	5/24/2007	6/5/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.002	B	mg/L	0.0006	0.003	6/7/2007	jjr	7440-02-0	
Metals Analysis	5/24/2007	6/5/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid		U	mg/L	0.001	0.005	6/15/2007	gme	7782-49-2	
Metals Analysis	5/24/2007	6/5/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	6/7/2007	jjr	7440-22-4	
Metals Analysis	5/24/2007	6/5/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.003		mg/L	0.0002	0.001	6/7/2007	jjr	7440-62-2	
Metals Analysis	5/24/2007	6/5/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	6/12/2007	wfg	7440-66-6	
Wet Chemistry	5/24/2007	6/5/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	200		mg/L	1	7	6/22/2007		calc	
Wet Chemistry	5/22/2007	6/5/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	165	H	mg/L	2	20	6/9/2007	cas	10139	164
Wet Chemistry	5/22/2007	6/5/2007	Carbon, total organic (TOC)	SW	415.1 / SM5310B	4	BH	mg/L	1	5	6/27/2007	jag	10355	4
Wet Chemistry	5/22/2007	6/5/2007	Carbonate as CaCO3	SW	SM2320B - Titration	11	BH	mg/L	2	20	6/9/2007	cas		12
Wet Chemistry	5/22/2007	6/5/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		UH	mg/L	2	20	6/9/2007	cas		#DIV/0!

DEPTNAME	COLLECT DATE	RECEIVE DATE	ANALYTE	MATRIX	METHOD	RESULT	QUAL	UNITS	MDL	PQL	ANALYZE DATE	ANA-LYST	CAS #*	Mean/Note
Wet Chemistry	5/22/2007	6/5/2007	Nitrate/Nitrite as N	SW	M353.2 - H2SO4 prese	0.03	B	mg/L	0.02	0.1	6/14/2007	pjb		0.02
Wet Chemistry	5/22/2007	6/5/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.04	B	mg/L	0.01	0.05	6/13/2007	mls/jag	7723-14-0	0.04
Wet Chemistry	5/22/2007	6/5/2007	Residue, Non-Filterable (TSS)	SW	160.1 / SM2540C		UH	mg/L	5	20	6/5/2007	aeh		6
Wet Chemistry	5/22/2007	6/5/2007	Total Alkalinity	SW	SM2320B - Titration	176	H	mg/L	2	20	6/9/2007	cas	10093	176
Wet Chemistry	5/21/2007	6/5/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	161	H	mg/L	2	20	6/9/2007	cas	10139	
Wet Chemistry	5/21/2007	6/5/2007	Carbon, total organic (TOC)	SW	415.1 / SM5310B	4	BH	mg/L	1	5	6/27/2007	jag	10355	
Wet Chemistry	5/21/2007	6/5/2007	Carbonate as CaCO3	SW	SM2320B - Titration	12	BH	mg/L	2	20	6/9/2007		cas	
Wet Chemistry	5/21/2007	6/5/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		UH	mg/L	2	20	6/9/2007		cas	
Wet Chemistry	5/21/2007	6/5/2007	Nitrate/Nitrite as N	SW	M353.2 - H2SO4 prese		U	mg/L	0.02	0.1	6/14/2007	pjb		
Wet Chemistry	5/21/2007	6/5/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.05	B	mg/L	0.01	0.05	6/13/2007	mls/jag	7723-14-0	
Wet Chemistry	5/21/2007	6/5/2007	Residue, Non-Filterable (TSS)	SW	160.1 / SM2540C		UH	mg/L	5	20	6/5/2007		aeh	
Wet Chemistry	5/21/2007	6/5/2007	Total Alkalinity	SW	SM2320B - Titration	174	H	mg/L	2	20	6/9/2007	cas	10093	
Wet Chemistry	5/24/2007	6/5/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	165	H	mg/L	2	20	6/9/2007	cas	10139	
Wet Chemistry	5/24/2007	6/5/2007	Carbon, total organic (TOC)	SW	415.1 / SM5310B	5	BH	mg/L	1	5	6/27/2007	jag	10355	
Wet Chemistry	5/24/2007	6/5/2007	Carbonate as CaCO3	SW	SM2320B - Titration	12	BH	mg/L	2	20	6/9/2007		cas	
Wet Chemistry	5/24/2007	6/5/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		UH	mg/L	2	20	6/9/2007		cas	
Wet Chemistry	5/24/2007	6/5/2007	Nitrate/Nitrite as N	SW	M353.2 - H2SO4 prese	0.03	B	mg/L	0.02	0.1	6/14/2007	pjb		
Wet Chemistry	5/24/2007	6/5/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.04	B	mg/L	0.01	0.05	6/13/2007	mls/jag	7723-14-0	
Wet Chemistry	5/24/2007	6/5/2007	Residue, Non-Filterable (TSS)	SW	160.1 / SM2540C		UH	mg/L	5	20	6/5/2007		aeh	
Wet Chemistry	5/24/2007	6/5/2007	Total Alkalinity	SW	SM2320B - Titration	177	H	mg/L	2	20	6/9/2007	cas	10093	
Metals Analysis	5/11/2007	5/15/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	
Metals Analysis	5/11/2007	5/15/2007	Calcium, dissolved	SW	M200.7 ICP	51.1		mg/L	0.2	1	5/22/2007	djt	7440-70-2	
Metals Analysis	5/11/2007	5/15/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0004	B	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/11/2007	5/15/2007	Copper, dissolved	SW	M200.8 ICP-MS	0.0007	B	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/11/2007	5/15/2007	Lead, dissolved	SW	M200.8 ICP-MS	0.0001	B	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/11/2007	5/15/2007	Magnesium, dissolved	SW	M200.7 ICP	13.4		mg/L	0.2	1	5/22/2007	djt	7439-95-4	
Metals Analysis	5/11/2007	5/15/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.0007	B	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/11/2007	5/15/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid		U	mg/L	0.001	0.005	5/24/2007	wfg	7782-49-2	
Metals Analysis	5/11/2007	5/15/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/11/2007	5/15/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.0012		mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/11/2007	5/15/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	5/25/2007	wfg	7440-66-6	

DEPTNAME	COLLECT DATE	RECEIVE DATE	ANALYTE	MATRIX	METHOD	RESULT	QUAL	UNITS	MDL	PQL	ANALYZE DATE	ANA-LYST	CAS #*	Mean/Note
Wet Chemistry	5/11/2007	5/15/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	162		mg/L	2	20	5/24/2007	wpa	10139	
Wet Chemistry	5/11/2007	5/15/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR	3	B	mg/L	1	5	5/21/2007	nps	10355	
Wet Chemistry	5/11/2007	5/15/2007	Carbonate as CaCO3	SW	SM2320B - Titration	7	B	mg/L	2	20	5/24/2007		wpa	
Wet Chemistry	5/11/2007	5/15/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	183		mg/L	1	7	5/30/2007		calc	
Wet Chemistry	5/11/2007	5/15/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007		wpa	
Wet Chemistry	5/11/2007	5/15/2007	Nitrate/Nitrite as N, dissolve	SW	M353.2 - Automated C	0.02	BH	mg/L	0.02	0.1	5/15/2007	pjb		
Wet Chemistry	5/11/2007	5/15/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.06		mg/L	0.01	0.05	5/26/2007	pjb	7723-14-0	
Wet Chemistry	5/11/2007	5/15/2007	Residue, Non-Filterable (TSS)	SW	M160.2 - Gravimetric	14	B	mg/L	5	20	5/17/2007		aeh	
Wet Chemistry	5/11/2007	5/15/2007	Total Alkalinity	SW	SM2320B - Titration	169		mg/L	2	20	5/24/2007	wpa	10093	
Metals Analysis	5/11/2007	5/15/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	duplicate of Angus Creek
Metals Analysis	5/11/2007	5/15/2007	Calcium, dissolved	SW	M200.7 ICP	152		mg/L	0.2	1	5/23/2007	djt	7440-70-2	
Metals Analysis	5/11/2007	5/15/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0004	B	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/11/2007	5/15/2007	Copper, dissolved	SW	M200.8 ICP-MS	0.0007	B	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/11/2007	5/15/2007	Lead, dissolved	SW	M200.8 ICP-MS	0.0002	B	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/11/2007	5/15/2007	Magnesium, dissolved	SW	M200.7 ICP	40.2		mg/L	0.2	1	5/23/2007	djt	7439-95-4	
Metals Analysis	5/11/2007	5/15/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.003	B	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/11/2007	5/15/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid	0.004	B	mg/L	0.001	0.005	5/25/2007	gme	7782-49-2	
Metals Analysis	5/11/2007	5/15/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/11/2007	5/15/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.0012		mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/11/2007	5/15/2007	Zinc, dissolved	SW	M200.7 ICP	0.02	B	mg/L	0.01	0.05	5/23/2007	djt	7440-66-6	
Wet Chemistry	5/11/2007	5/15/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	219		mg/L	2	20	5/24/2007	wpa	10139	
Wet Chemistry	5/11/2007	5/15/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR	5		mg/L	1	5	5/25/2007	nps/jag	10355	
Wet Chemistry	5/11/2007	5/15/2007	Carbonate as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007		wpa	
Wet Chemistry	5/11/2007	5/15/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	545		mg/L	1	7	5/30/2007		calc	
Wet Chemistry	5/11/2007	5/15/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007		wpa	
Wet Chemistry	5/11/2007	5/15/2007	Nitrate/Nitrite as N, dissolve	SW	M353.2 - Automated C	0.04	BH	mg/L	0.02	0.1	5/15/2007	pjb		
Wet Chemistry	5/11/2007	5/15/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.15		mg/L	0.01	0.05	5/19/2007	pjb	7723-14-0	
Wet Chemistry	5/11/2007	5/15/2007	Residue, Non-Filterable (TSS)	SW	M160.2 - Gravimetric		U	mg/L	5	20	5/16/2007		aeh	
Wet Chemistry	5/11/2007	5/15/2007	Total Alkalinity	SW	SM2320B - Titration	219		mg/L	2	20	5/24/2007	wpa	10093	
Metals Analysis	5/11/2007	5/16/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	
Metals Analysis	5/11/2007	5/16/2007	Calcium, dissolved	SW	M200.7 ICP	70.6		mg/L	0.2	1	5/23/2007	msh	7440-70-2	
Metals Analysis	5/11/2007	5/16/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.001		mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/11/2007	5/16/2007	Copper, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	

DEPTNAME	COLLECT DATE	RECEIVE DATE	ANALYTE	MATRIX	METHOD	RESULT	QUAL	UNITS	MDL	PQL	ANALYZE DATE	ANA-LYST	CAS #*	Mean/Note
Metals Analysis	5/11/2007	5/16/2007	Lead, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/11/2007	5/16/2007	Magnesium, dissolved	SW	M200.7 ICP	15.8		mg/L	0.2	1	5/23/2007	msh	7439-95-4	
Metals Analysis	5/11/2007	5/16/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.0012	B	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/11/2007	5/16/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid	0.43		mg/L	0.01	0.05	5/25/2007	gme	7782-49-2	
Metals Analysis	5/11/2007	5/16/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/11/2007	5/16/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.001	B	mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/11/2007	5/16/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	5/23/2007	msh	7440-66-6	
Wet Chemistry	5/11/2007	5/16/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	175		mg/L	2	20	5/25/2007	cas	10139	
Wet Chemistry	5/11/2007	5/16/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR	1	B	mg/L	1	5	5/25/2007	nps/jag	10355	
Wet Chemistry	5/11/2007	5/16/2007	Carbonate as CaCO3	SW	SM2320B - Titration	9	B	mg/L	2	20	5/25/2007		cas	
Wet Chemistry	5/11/2007	5/16/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	241		mg/L	1	7	5/30/2007		calc	
Wet Chemistry	5/11/2007	5/16/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/25/2007		cas	
Wet Chemistry	5/11/2007	5/16/2007	Nitrate/Nitrite as N, dissolve	SW	M353.2 - Automated C	0.61	H	mg/L	0.02	0.1	5/16/2007	pjb		
Wet Chemistry	5/11/2007	5/16/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.14		mg/L	0.01	0.05	5/26/2007	pjb	7723-14-0	
Wet Chemistry	5/11/2007	5/16/2007	Residue, Non-Filterable (TSS)	SW	M160.2 - Gravimetric	8	B	mg/L	5	20	5/17/2007		aeh	
Wet Chemistry	5/11/2007	5/16/2007	Total Alkalinity	SW	SM2320B - Titration	184		mg/L	2	20	5/25/2007	cas	10093	
Metals Analysis	5/10/2007	5/15/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	
Metals Analysis	5/10/2007	5/15/2007	Calcium, dissolved	SW	M200.7 ICP	60.1		mg/L	0.2	1	5/22/2007	djt	7440-70-2	
Metals Analysis	5/10/2007	5/15/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0006		mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/10/2007	5/15/2007	Copper, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/10/2007	5/15/2007	Lead, dissolved	SW	M200.8 ICP-MS	0.0005		mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/10/2007	5/15/2007	Magnesium, dissolved	SW	M200.7 ICP	12.6		mg/L	0.2	1	5/22/2007	djt	7439-95-4	
Metals Analysis	5/10/2007	5/15/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.0008	B	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/10/2007	5/15/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid	0.018		mg/L	0.001	0.005	5/24/2007	wfg	7782-49-2	
Metals Analysis	5/10/2007	5/15/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/10/2007	5/15/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.0006	B	mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/10/2007	5/15/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	5/25/2007	wfg	7440-66-6	
Wet Chemistry	5/10/2007	5/15/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	179		mg/L	2	20	5/24/2007	wpa	10139	
Wet Chemistry	5/10/2007	5/15/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR	1	B	mg/L	1	5	5/21/2007	nps	10355	
Wet Chemistry	5/10/2007	5/15/2007	Carbonate as CaCO3	SW	SM2320B - Titration	7	B	mg/L	2	20	5/24/2007		wpa	
Wet Chemistry	5/10/2007	5/15/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	202		mg/L	1	7	5/30/2007		calc	
Wet Chemistry	5/10/2007	5/15/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007		wpa	
Wet Chemistry	5/10/2007	5/15/2007	Nitrate/Nitrite as N, dissolve	SW	M353.2 - Automated C	0.03	BH	mg/L	0.02	0.1	5/15/2007	pjb		
Wet Chemistry	5/10/2007	5/15/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.05		mg/L	0.01	0.05	5/26/2007	pjb	7723-14-0	

DEPTNAME	COLLECT DATE	RECEIVE DATE	ANALYTE	MATRIX	METHOD	RESULT	QUAL	UNITS	MDL	PQL	ANALYZE DATE	ANA-LYST	CAS #*	Mean/Note
Wet Chemistry	5/10/2007	5/15/2007	Residue, Non-Filterable (TSS)	SW	M160.2 - Gravimetric		U	mg/L	5	20	5/15/2007		aeh	
Wet Chemistry	5/10/2007	5/15/2007	Total Alkalinity	SW	SM2320B - Titration	185		mg/L	2	20	5/24/2007	wpa	10093	
Metals Analysis	5/10/2007	5/15/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	
Metals Analysis	5/10/2007	5/15/2007	Calcium, dissolved	SW	M200.7 ICP	58.8		mg/L	0.2	1	5/23/2007	djt	7440-70-2	
Metals Analysis	5/10/2007	5/15/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0006		mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/10/2007	5/15/2007	Copper, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/10/2007	5/15/2007	Lead, dissolved	SW	M200.8 ICP-MS	0.0002	B	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/10/2007	5/15/2007	Magnesium, dissolved	SW	M200.7 ICP	12.4		mg/L	0.2	1	5/23/2007	djt	7439-95-4	
Metals Analysis	5/10/2007	5/15/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.0009	B	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/10/2007	5/15/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid	0.017		mg/L	0.001	0.005	5/25/2007	gme	7782-49-2	
Metals Analysis	5/10/2007	5/15/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/10/2007	5/15/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.0014		mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/10/2007	5/15/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	5/23/2007	djt	7440-66-6	
Wet Chemistry	5/10/2007	5/15/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	180		mg/L	2	20	5/24/2007	wpa	10139	
Wet Chemistry	5/10/2007	5/15/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR	1	B	mg/L	1	5	5/21/2007	nps	10355	
Wet Chemistry	5/10/2007	5/15/2007	Total Alkalinity	SW	SM2320B - Titration	187		mg/L	2	20	5/24/2007	wpa	10093	
Metals Analysis	5/10/2007	5/16/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	
Metals Analysis	5/10/2007	5/16/2007	Calcium, dissolved	SW	M200.7 ICP	61.3		mg/L	0.2	1	5/23/2007	msh	7440-70-2	
Metals Analysis	5/10/2007	5/16/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0007		mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/10/2007	5/16/2007	Copper, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/10/2007	5/16/2007	Lead, dissolved	SW	M200.8 ICP-MS	0.0004	B	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/10/2007	5/16/2007	Magnesium, dissolved	SW	M200.7 ICP	17.1		mg/L	0.2	1	5/23/2007	msh	7439-95-4	
Metals Analysis	5/10/2007	5/16/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.0009	B	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/10/2007	5/16/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid	0.003	B	mg/L	0.001	0.005	5/25/2007	gme	7782-49-2	
Metals Analysis	5/10/2007	5/16/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/10/2007	5/16/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.0013		mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/10/2007	5/16/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	5/23/2007	msh	7440-66-6	
Wet Chemistry	5/10/2007	5/16/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	174	H	mg/L	2	20	5/25/2007	cas	10139	
Wet Chemistry	5/10/2007	5/16/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR	1	B	mg/L	1	5	5/25/2007	nps/jag	10355	
Wet Chemistry	5/10/2007	5/16/2007	Carbonate as CaCO3	SW	SM2320B - Titration	9	BH	mg/L	2	20	5/25/2007		cas	
Wet Chemistry	5/10/2007	5/16/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	224		mg/L	1	7	5/30/2007		calc	
Wet Chemistry	5/10/2007	5/16/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		UH	mg/L	2	20	5/25/2007		cas	
Wet Chemistry	5/10/2007	5/16/2007	Nitrate/Nitrite as N, dissolve	SW	M353.2 - Automated C	0.14	H	mg/L	0.02	0.1	5/16/2007	pjb		
Wet Chemistry	5/10/2007	5/16/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.06		mg/L	0.01	0.05	5/26/2007	pjb	7723-14-0	

DEPTNAME	COLLECT DATE	RECEIVE DATE	ANALYTE	MATRIX	METHOD	RESULT	QUAL	UNITS	MDL	PQL	ANALYZE DATE	ANA-LYST	CAS #*	Mean/Note
Wet Chemistry	5/10/2007	5/16/2007	Residue, Non-Filterable (TSS)	SW	M160.2 - Gravimetric		U	mg/L	5	20	5/17/2007		aeh	
Wet Chemistry	5/10/2007	5/16/2007	Total Alkalinity	SW	SM2320B - Titration	183	H	mg/L	2	20	5/25/2007	cas	10093	
Metals Analysis	5/10/2007	5/15/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	
Metals Analysis	5/10/2007	5/15/2007	Calcium, dissolved	SW	M200.7 ICP	84.1		mg/L	0.2	1	5/23/2007	djt	7440-70-2	
Metals Analysis	5/10/2007	5/15/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0005	B	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/10/2007	5/15/2007	Copper, dissolved	SW	M200.8 ICP-MS	0.0006	B	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/10/2007	5/15/2007	Lead, dissolved	SW	M200.8 ICP-MS	0.0001	B	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/10/2007	5/15/2007	Magnesium, dissolved	SW	M200.7 ICP	14.9		mg/L	0.2	1	5/23/2007	djt	7439-95-4	
Metals Analysis	5/10/2007	5/15/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.002	B	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/10/2007	5/15/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid	0.006		mg/L	0.001	0.005	5/25/2007	gme	7782-49-2	
Metals Analysis	5/10/2007	5/15/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/10/2007	5/15/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.0013		mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/10/2007	5/15/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	5/23/2007	djt	7440-66-6	
Wet Chemistry	5/10/2007	5/15/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	200		mg/L	2	20	5/24/2007	wpa	10139	
Wet Chemistry	5/10/2007	5/15/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR	4	B	mg/L	1	5	5/25/2007	nps/jag	10355	
Wet Chemistry	5/10/2007	5/15/2007	Carbonate as CaCO3	SW	SM2320B - Titration	13	B	mg/L	2	20	5/24/2007		wpa	
Wet Chemistry	5/10/2007	5/15/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	271		mg/L	1	7	5/30/2007		calc	
Wet Chemistry	5/10/2007	5/15/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007		wpa	
Wet Chemistry	5/10/2007	5/15/2007	Nitrate/Nitrite as N, dissolve	SW	M353.2 - Automated C		UH	mg/L	0.02	0.1	5/15/2007	pjb		
Wet Chemistry	5/10/2007	5/15/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.1		mg/L	0.01	0.05	5/26/2007	pjb	7723-14-0	
Wet Chemistry	5/10/2007	5/15/2007	Residue, Non-Filterable (TSS)	SW	M160.2 - Gravimetric	26		mg/L	5	20	5/17/2007		aeh	
Wet Chemistry	5/10/2007	5/15/2007	Total Alkalinity	SW	SM2320B - Titration	213		mg/L	2	20	5/24/2007	wpa	10093	
Metals Analysis	5/11/2007	5/15/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	
Metals Analysis	5/11/2007	5/15/2007	Calcium, dissolved	SW	M200.7 ICP	63.4		mg/L	0.2	1	5/22/2007	djt	7440-70-2	
Metals Analysis	5/11/2007	5/15/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0005	B	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/11/2007	5/15/2007	Copper, dissolved	SW	M200.8 ICP-MS	0.0007	B	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/11/2007	5/15/2007	Lead, dissolved	SW	M200.8 ICP-MS	0.0001	B	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/11/2007	5/15/2007	Magnesium, dissolved	SW	M200.7 ICP	11		mg/L	0.2	1	5/22/2007	djt	7439-95-4	
Metals Analysis	5/11/2007	5/15/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.0012	B	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/11/2007	5/15/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid		U	mg/L	0.001	0.005	5/24/2007	wfg	7782-49-2	
Metals Analysis	5/11/2007	5/15/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/11/2007	5/15/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.0011		mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/11/2007	5/15/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	5/25/2007	wfg	7440-66-6	
Wet Chemistry	5/11/2007	5/15/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	178		mg/L	2	20	5/24/2007	wpa	10139	

DEPTNAME	COLLECT DATE	RECEIVE DATE	ANALYTE	MATRIX	METHOD	RESULT	QUAL	UNITS	MDL	PQL	ANALYZE DATE	ANA-LYST	CAS #*	Mean/Note
Wet Chemistry	5/11/2007	5/15/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR	3	B	mg/L	1	5	5/25/2007	nps/jag	10355	
Wet Chemistry	5/11/2007	5/15/2007	Carbonate as CaCO3	SW	SM2320B - Titration	9	B	mg/L	2	20	5/24/2007		wpa	
Wet Chemistry	5/11/2007	5/15/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	204		mg/L	1	7	5/30/2007		calc	
Wet Chemistry	5/11/2007	5/15/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007		wpa	
Wet Chemistry	5/11/2007	5/15/2007	Nitrate/Nitrite as N, dissolve	SW	M353.2 - Automated C		UH	mg/L	0.02	0.1	5/15/2007	pjb		
Wet Chemistry	5/11/2007	5/15/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.04	B	mg/L	0.01	0.05	5/26/2007	pjb	7723-14-0	
Wet Chemistry	5/11/2007	5/15/2007	Residue, Non-Filterable (TSS)	SW	M160.2 - Gravimetric		U	mg/L	5	20	5/15/2007		aeh	
Wet Chemistry	5/11/2007	5/15/2007	Total Alkalinity	SW	SM2320B - Titration	187		mg/L	2	20	5/24/2007	wpa	10093	
Metals Analysis	5/10/2007	5/15/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	
Metals Analysis	5/10/2007	5/15/2007	Calcium, dissolved	SW	M200.7 ICP		U	mg/L	0.2	1	5/23/2007	djt	7440-70-2	
Metals Analysis	5/10/2007	5/15/2007	Chromium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/10/2007	5/15/2007	Copper, dissolved	SW	M200.8 ICP-MS	0.0014	B	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/10/2007	5/15/2007	Lead, dissolved	SW	M200.8 ICP-MS	0.0003	B	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/10/2007	5/15/2007	Magnesium, dissolved	SW	M200.7 ICP		U	mg/L	0.2	1	5/23/2007	djt	7439-95-4	
Metals Analysis	5/10/2007	5/15/2007	Nickel, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/10/2007	5/15/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid		U	mg/L	0.001	0.005	5/25/2007	gme	7782-49-2	
Metals Analysis	5/10/2007	5/15/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/10/2007	5/15/2007	Vanadium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/10/2007	5/15/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	5/23/2007	djt	7440-66-6	
Wet Chemistry	5/10/2007	5/15/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007	wpa	10139	
Wet Chemistry	5/10/2007	5/15/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR		U	mg/L	1	5	5/21/2007	nps	10355	
Wet Chemistry	5/10/2007	5/15/2007	Total Alkalinity	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007	wpa	10093	
Metals Analysis	5/24/2007	6/5/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	6/6/2007	jjr	7440-43-9	Blank for Crow Creek drainage samples
Metals Analysis	5/24/2007	6/5/2007	Calcium, dissolved	SW	M200.7 ICP		U	mg/L	0.2	1	6/14/2007	wfg	7440-70-2	
Metals Analysis	5/24/2007	6/5/2007	Chromium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	6/6/2007	jjr	7440-47-3	
Metals Analysis	5/24/2007	6/5/2007	Copper, dissolved	SW	M200.8 ICP-MS	0.0034		mg/L	0.0005	0.003	6/6/2007	jjr	7440-50-8	
Metals Analysis	5/24/2007	6/5/2007	Lead, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	6/6/2007	jjr	7439-92-1	
Metals Analysis	5/24/2007	6/5/2007	Magnesium, dissolved	SW	M200.7 ICP		U	mg/L	0.2	1	6/12/2007	wfg	7439-95-4	
Metals Analysis	5/24/2007	6/5/2007	Nickel, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0006	0.003	6/6/2007	jjr	7440-02-0	
Metals Analysis	5/24/2007	6/5/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid		U	mg/L	0.001	0.005	6/15/2007	gme	7782-49-2	
Metals Analysis	5/24/2007	6/5/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	6/6/2007	jjr	7440-22-4	
Metals Analysis	5/24/2007	6/5/2007	Vanadium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0002	0.001	6/6/2007	jjr	7440-62-2	

DEPTNAME	COLLECT DATE	RECEIVE DATE	ANALYTE	MATRIX	METHOD	RESULT	QUAL	UNITS	MDL	PQL	ANALYZE DATE	ANA-LYST	CAS #*	Mean/Note
Metals Analysis	5/24/2007	6/5/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	6/12/2007	wfg	7440-66-6	
Wet Chemistry	5/24/2007	6/5/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	6/7/2007	jlf	10139	
Wet Chemistry	5/24/2007	6/5/2007	Carbon, total organic (TOC)	SW	415.1 / SM5310B		UH	mg/L	1	5	6/27/2007	jag	10355	
Wet Chemistry	5/24/2007	6/5/2007	Carbonate as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	6/7/2007	jlf		
Wet Chemistry	5/24/2007	6/5/2007	Hardness as CaCO3	SW	SM2340B - Calculatio			mg/L	1	7	6/29/2007		calc	
Wet Chemistry	5/24/2007	6/5/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	6/7/2007	jlf		
Wet Chemistry	5/24/2007	6/5/2007	Nitrate/Nitrite as N	SW	M353.2 - H2SO4 prese		U	mg/L	0.02	0.1	6/14/2007	pjb		
Wet Chemistry	5/24/2007	6/5/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb		U	mg/L	0.01	0.05	6/13/2007	mls/jag	7723-14-0	
Wet Chemistry	5/24/2007	6/5/2007	Residue, Non-Filterable (TSS)	SW	160.1 / SM2540C		UH	mg/L	5	20	6/5/2007		aeh	
Wet Chemistry	5/24/2007	6/5/2007	Total Alkalinity	SW	SM2320B - Titration		U	mg/L	2	20	6/7/2007	jlf	10093	
Metals Analysis	5/10/2007	5/15/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	
Metals Analysis	5/10/2007	5/15/2007	Calcium, dissolved	SW	M200.7 ICP	0.4	B	mg/L	0.2	1	5/22/2007	djt	7440-70-2	
Metals Analysis	5/10/2007	5/15/2007	Chromium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/10/2007	5/15/2007	Copper, dissolved	SW	M200.8 ICP-MS	0.002	B	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/10/2007	5/15/2007	Lead, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/10/2007	5/15/2007	Magnesium, dissolved	SW	M200.7 ICP		U	mg/L	0.2	1	5/22/2007	djt	7439-95-4	
Metals Analysis	5/10/2007	5/15/2007	Nickel, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/10/2007	5/15/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid		U	mg/L	0.001	0.005	5/24/2007	wfg	7782-49-2	
Metals Analysis	5/10/2007	5/15/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/10/2007	5/15/2007	Vanadium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/10/2007	5/15/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	5/25/2007	wfg	7440-66-6	
Wet Chemistry	5/10/2007	5/15/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007	wpa	10139	
Wet Chemistry	5/10/2007	5/15/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR		U	mg/L	1	5	5/21/2007	nps	10355	
Wet Chemistry	5/10/2007	5/15/2007	Carbonate as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007		wpa	
Wet Chemistry	5/10/2007	5/15/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	1	B	mg/L	1	7	5/30/2007		calc	
Wet Chemistry	5/10/2007	5/15/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007		wpa	
Wet Chemistry	5/10/2007	5/15/2007	Nitrate/Nitrite as N, dissolve	SW	M353.2 - Automated C		UH	mg/L	0.02	0.1	5/15/2007	pjb		
Wet Chemistry	5/10/2007	5/15/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb		U	mg/L	0.01	0.05	5/26/2007	pjb	7723-14-0	
Wet Chemistry	5/10/2007	5/15/2007	Residue, Non-Filterable (TSS)	SW	M160.2 - Gravimetric		U	mg/L	5	20	5/15/2007		aeh	
Wet Chemistry	5/10/2007	5/15/2007	Total Alkalinity	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007	wpa	10093	
Metals Analysis	5/24/2007	6/5/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	6/7/2007	jjr	7440-43-9	Duplicate of Crow Creek at Hartman Ranch

DEPTNAME	COLLECT DATE	RECEIVE DATE	ANALYTE	MATRIX	METHOD	RESULT	QUAL	UNITS	MDL	PQL	ANALYZE DATE	ANA-LYST	CAS #*	Mean/Note
Metals Analysis	5/24/2007	6/5/2007	Calcium, dissolved	SW	M200.7 ICP	61.3		mg/L	0.2	1	6/12/2007	wfg	7440-70-2	
Metals Analysis	5/24/2007	6/5/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0009		mg/L	0.0001	0.0005	6/7/2007	jjr	7440-47-3	
Metals Analysis	5/24/2007	6/5/2007	Copper, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0005	0.003	6/7/2007	jjr	7440-50-8	
Metals Analysis	5/24/2007	6/5/2007	Lead, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	6/7/2007	jjr	7439-92-1	
Metals Analysis	5/24/2007	6/5/2007	Magnesium, dissolved	SW	M200.7 ICP	18.8		mg/L	0.2	1	6/12/2007	wfg	7439-95-4	
Metals Analysis	5/24/2007	6/5/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.002	B	mg/L	0.0006	0.003	6/7/2007	jjr	7440-02-0	
Metals Analysis	5/24/2007	6/5/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid	0.004	B	mg/L	0.001	0.005	6/16/2007	gme	7782-49-2	
Metals Analysis	5/24/2007	6/5/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	6/7/2007	jjr	7440-22-4	
Metals Analysis	5/24/2007	6/5/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.003		mg/L	0.0002	0.001	6/7/2007	jjr	7440-62-2	
Metals Analysis	5/24/2007	6/5/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	6/12/2007	wfg	7440-66-6	
Wet Chemistry	5/24/2007	6/5/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	231		mg/L	1	7	6/22/2007		calc	
Wet Chemistry	5/22/2007	6/5/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	176	H	mg/L	2	20	6/9/2007	cas	10139	175
Wet Chemistry	5/22/2007	6/5/2007	Carbon, total organic (TOC)	SW	415.1 / SM5310B	5	BH	mg/L	1	5	6/27/2007	jag	10355	6
Wet Chemistry	5/22/2007	6/5/2007	Carbonate as CaCO3	SW	SM2320B - Titration	14	BH	mg/L	2	20	6/9/2007	cas		14
Wet Chemistry	5/22/2007	6/5/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		UH	mg/L	2	20	6/9/2007	cas		#DIV/0!
Wet Chemistry	5/22/2007	6/5/2007	Nitrate/Nitrite as N	SW	M353.2 - H2SO4 prese	0.04	B	mg/L	0.02	0.1	6/14/2007	pjb		0.03
Wet Chemistry	5/22/2007	6/5/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.04	B	mg/L	0.01	0.05	6/13/2007	mls/jag	7723-14-0	0.04
Wet Chemistry	5/22/2007	6/5/2007	Residue, Non-Filterable (TSS)	SW	160.1 / SM2540C	10	BH	mg/L	5	20	6/5/2007	aeh		13
Wet Chemistry	5/22/2007	6/5/2007	Total Alkalinity	SW	SM2320B - Titration	190	H	mg/L	2	20	6/9/2007	cas	10093	188
Wet Chemistry	5/21/2007	6/5/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	170	H	mg/L	2	20	6/7/2007	jlf	10139	
Wet Chemistry	5/21/2007	6/5/2007	Carbon, total organic (TOC)	SW	415.1 / SM5310B	6	H	mg/L	1	5	6/27/2007	jag	10355	
Wet Chemistry	5/21/2007	6/5/2007	Carbonate as CaCO3	SW	SM2320B - Titration	14	BH	mg/L	2	20	6/7/2007	jlf		
Wet Chemistry	5/21/2007	6/5/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		UH	mg/L	2	20	6/7/2007	jlf		
Wet Chemistry	5/21/2007	6/5/2007	Nitrate/Nitrite as N	SW	M353.2 - H2SO4 prese		U	mg/L	0.02	0.1	6/14/2007	pjb		
Wet Chemistry	5/21/2007	6/5/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.05		mg/L	0.01	0.05	6/13/2007	mls/jag	7723-14-0	
Wet Chemistry	5/21/2007	6/5/2007	Residue, Non-Filterable (TSS)	SW	160.1 / SM2540C	20	H	mg/L	5	20	6/5/2007		aeh	
Wet Chemistry	5/21/2007	6/5/2007	Total Alkalinity	SW	SM2320B - Titration	184	H	mg/L	2	20	6/7/2007	jlf	10093	
Wet Chemistry	5/24/2007	6/5/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	178		mg/L	2	20	6/7/2007	jlf	10139	
Wet Chemistry	5/24/2007	6/5/2007	Carbon, total organic (TOC)	SW	415.1 / SM5310B	6	H	mg/L	1	5	6/27/2007	jag	10355	
Wet Chemistry	5/24/2007	6/5/2007	Carbonate as CaCO3	SW	SM2320B - Titration	13	B	mg/L	2	20	6/7/2007	jlf		
Wet Chemistry	5/24/2007	6/5/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	6/7/2007	jlf		

DEPTNAME	COLLECT DATE	RECEIVE DATE	ANALYTE	MATRIX	METHOD	RESULT	QUAL	UNITS	MDL	PQL	ANALYZE DATE	ANA-LYST	CAS #*	Mean/Note
Wet Chemistry	5/24/2007	6/5/2007	Nitrate/Nitrite as N	SW	M353.2 - H2SO4 prese	0.04	B	mg/L	0.02	0.1	6/14/2007	pjb		
Wet Chemistry	5/24/2007	6/5/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.04	B	mg/L	0.01	0.05	6/13/2007	mls/jag	7723-14-0	
Wet Chemistry	5/24/2007	6/5/2007	Residue, Non-Filterable (TSS)	SW	160.1 / SM2540C	10	BH	mg/L	5	20	6/5/2007		aeh	
Wet Chemistry	5/24/2007	6/5/2007	Total Alkalinity	SW	SM2320B - Titration	191		mg/L	2	20	6/7/2007	jlf	10093	
Metals Analysis	5/10/2007	5/16/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	
Metals Analysis	5/10/2007	5/16/2007	Calcium, dissolved	SW	M200.7 ICP	58.1		mg/L	0.2	1	5/23/2007	msh	7440-70-2	
Metals Analysis	5/10/2007	5/16/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0003	B	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/10/2007	5/16/2007	Copper, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/10/2007	5/16/2007	Lead, dissolved	SW	M200.8 ICP-MS	0.0002	B	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/10/2007	5/16/2007	Magnesium, dissolved	SW	M200.7 ICP	9.9		mg/L	0.2	1	5/23/2007	msh	7439-95-4	
Metals Analysis	5/10/2007	5/16/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.0015	B	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/10/2007	5/16/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid	0.001	B	mg/L	0.001	0.005	5/25/2007	gme	7782-49-2	
Metals Analysis	5/10/2007	5/16/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/10/2007	5/16/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.0006	B	mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/10/2007	5/16/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	5/23/2007	msh	7440-66-6	
Wet Chemistry	5/10/2007	5/16/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	143	H	mg/L	2	20	5/25/2007	cas	10139	
Wet Chemistry	5/10/2007	5/16/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR	3	B	mg/L	1	5	5/25/2007	nps/jag	10355	
Wet Chemistry	5/10/2007	5/16/2007	Carbonate as CaCO3	SW	SM2320B - Titration		UH	mg/L	2	20	5/25/2007		cas	
Wet Chemistry	5/10/2007	5/16/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	186		mg/L	1	7	5/30/2007		calc	
Wet Chemistry	5/10/2007	5/16/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		UH	mg/L	2	20	5/25/2007		cas	
Wet Chemistry	5/10/2007	5/16/2007	Nitrate/Nitrite as N, dissolve	SW	M353.2 - Automated C	0.04	BH	mg/L	0.02	0.1	5/16/2007	pjb		
Wet Chemistry	5/10/2007	5/16/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.07		mg/L	0.01	0.05	5/26/2007	pjb	7723-14-0	
Wet Chemistry	5/10/2007	5/16/2007	Residue, Non-Filterable (TSS)	SW	M160.2 - Gravimetric	14	B	mg/L	5	20	5/17/2007		aeh	
Wet Chemistry	5/10/2007	5/16/2007	Total Alkalinity	SW	SM2320B - Titration	143	H	mg/L	2	20	5/25/2007	cas	10093	
Metals Analysis	5/24/2007	6/5/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	6/7/2007	jjr	7440-43-9	
Metals Analysis	5/24/2007	6/5/2007	Calcium, dissolved	SW	M200.7 ICP	59.5		mg/L	0.2	1	6/12/2007	wfg	7440-70-2	
Metals Analysis	5/24/2007	6/5/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.001		mg/L	0.0001	0.0005	6/7/2007	jjr	7440-47-3	
Metals Analysis	5/24/2007	6/5/2007	Copper, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0005	0.003	6/7/2007	jjr	7440-50-8	
Metals Analysis	5/24/2007	6/5/2007	Lead, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	6/7/2007	jjr	7439-92-1	
Metals Analysis	5/24/2007	6/5/2007	Magnesium, dissolved	SW	M200.7 ICP	21.1		mg/L	0.2	1	6/12/2007	wfg	7439-95-4	
Metals Analysis	5/24/2007	6/5/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.0016	B	mg/L	0.0006	0.003	6/7/2007	jjr	7440-02-0	
Metals Analysis	5/24/2007	6/5/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid	0.01		mg/L	0.001	0.005	6/16/2007	gme	7782-49-2	

DEPTNAME	COLLECT DATE	RECEIVE DATE	ANALYTE	MATRIX	METHOD	RESULT	QUAL	UNITS	MDL	PQL	ANALYZE DATE	ANA-LYST	CAS #*	Mean/Note
Metals Analysis	5/24/2007	6/5/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	6/7/2007	jjr	7440-22-4	
Metals Analysis	5/24/2007	6/5/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.0024		mg/L	0.0002	0.001	6/7/2007	jjr	7440-62-2	
Metals Analysis	5/24/2007	6/5/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	6/12/2007	wfg	7440-66-6	
Wet Chemistry	5/24/2007	6/5/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	235		mg/L	1	7	6/22/2007		calc	
Wet Chemistry	5/21/2007	6/5/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	168	H	mg/L	2	20	6/9/2007	cas	10139	170
Wet Chemistry	5/21/2007	6/5/2007	Carbon, total organic (TOC)	SW	415.1 / SM5310B	4	BH	mg/L	1	5	6/27/2007	jag	10355	4
Wet Chemistry	5/21/2007	6/5/2007	Carbonate as CaCO3	SW	SM2320B - Titration	14	BH	mg/L	2	20	6/9/2007	cas		14
Wet Chemistry	5/21/2007	6/5/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		UH	mg/L	2	20	6/9/2007	cas		#DIV/0!
Wet Chemistry	5/21/2007	6/5/2007	Nitrate/Nitrite as N	SW	M353.2 - H2SO4 prese		U	mg/L	0.02	0.1	6/14/2007	pjb		#DIV/0!
Wet Chemistry	5/21/2007	6/5/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.03	B	mg/L	0.01	0.05	6/13/2007	mls/jag	7723-14-0	0.03
Wet Chemistry	5/21/2007	6/5/2007	Residue, Non-Filterable (TSS)	SW	160.1 / SM2540C	6	BH	mg/L	5	20	6/5/2007	aeh		4
Wet Chemistry	5/21/2007	6/5/2007	Total Alkalinity	SW	SM2320B - Titration	182	H	mg/L	2	20	6/9/2007	cas	10093	184
Wet Chemistry	5/22/2007	6/5/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	173	H	mg/L	2	20	6/9/2007	cas	10139	
Wet Chemistry	5/22/2007	6/5/2007	Carbon, total organic (TOC)	SW	415.1 / SM5310B	4	BH	mg/L	1	5	6/27/2007	jag	10355	
Wet Chemistry	5/22/2007	6/5/2007	Carbonate as CaCO3	SW	SM2320B - Titration	13	BH	mg/L	2	20	6/9/2007		cas	
Wet Chemistry	5/22/2007	6/5/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		UH	mg/L	2	20	6/9/2007		cas	
Wet Chemistry	5/22/2007	6/5/2007	Nitrate/Nitrite as N	SW	M353.2 - H2SO4 prese		U	mg/L	0.02	0.1	6/14/2007	pjb		
Wet Chemistry	5/22/2007	6/5/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.03	B	mg/L	0.01	0.05	6/15/2007	pjb	7723-14-0	
Wet Chemistry	5/22/2007	6/5/2007	Residue, Non-Filterable (TSS)	SW	160.1 / SM2540C		UH	mg/L	5	20	6/5/2007		aeh	
Wet Chemistry	5/22/2007	6/5/2007	Total Alkalinity	SW	SM2320B - Titration	187	H	mg/L	2	20	6/9/2007	cas	10093	
Wet Chemistry	5/24/2007	6/5/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	168	H	mg/L	2	20	6/9/2007	cas	10139	
Wet Chemistry	5/24/2007	6/5/2007	Carbon, total organic (TOC)	SW	415.1 / SM5310B	5	H	mg/L	1	5	6/27/2007	jag	10355	
Wet Chemistry	5/24/2007	6/5/2007	Carbonate as CaCO3	SW	SM2320B - Titration	16	BH	mg/L	2	20	6/9/2007		cas	
Wet Chemistry	5/24/2007	6/5/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		UH	mg/L	2	20	6/9/2007		cas	
Wet Chemistry	5/24/2007	6/5/2007	Nitrate/Nitrite as N	SW	M353.2 - H2SO4 prese		U	mg/L	0.02	0.1	6/14/2007	pjb		
Wet Chemistry	5/24/2007	6/5/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.02	B	mg/L	0.01	0.05	6/13/2007	mls/jag	7723-14-0	
Wet Chemistry	5/24/2007	6/5/2007	Residue, Non-Filterable (TSS)	SW	160.1 / SM2540C		UH	mg/L	5	20	6/5/2007		aeh	
Wet Chemistry	5/24/2007	6/5/2007	Total Alkalinity	SW	SM2320B - Titration	184	H	mg/L	2	20	6/9/2007	cas	10093	
Metals Analysis	5/11/2007	5/15/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	
Metals Analysis	5/11/2007	5/15/2007	Calcium, dissolved	SW	M200.7 ICP	55.9		mg/L	0.2	1	5/23/2007	djt	7440-70-2	

DEPTNAME	COLLECT DATE	RECEIVE DATE	ANALYTE	MATRIX	METHOD	RESULT	QUAL	UNITS	MDL	PQL	ANALYZE DATE	ANA-LYST	CAS #*	Mean/Note
Metals Analysis	5/11/2007	5/15/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0005	B	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/11/2007	5/15/2007	Copper, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/11/2007	5/15/2007	Lead, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/11/2007	5/15/2007	Magnesium, dissolved	SW	M200.7 ICP	11.6		mg/L	0.2	1	5/23/2007	djt	7439-95-4	
Metals Analysis	5/11/2007	5/15/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.0019	B	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/11/2007	5/15/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid	0.003	B	mg/L	0.001	0.005	5/24/2007	wfg	7782-49-2	
Metals Analysis	5/11/2007	5/15/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/11/2007	5/15/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.001		mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/11/2007	5/15/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	5/25/2007	wfg	7440-66-6	
Wet Chemistry	5/11/2007	5/15/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	157		mg/L	2	20	5/24/2007	wpa	10139	
Wet Chemistry	5/11/2007	5/15/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR	2	B	mg/L	1	5	5/21/2007	nps	10355	
Wet Chemistry	5/11/2007	5/15/2007	Carbonate as CaCO3	SW	SM2320B - Titration	4	B	mg/L	2	20	5/24/2007		wpa	
Wet Chemistry	5/11/2007	5/15/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	187		mg/L	1	7	5/30/2007		calc	
Wet Chemistry	5/11/2007	5/15/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007		wpa	
Wet Chemistry	5/11/2007	5/15/2007	Nitrate/Nitrite as N, dissolve	SW	M353.2 - Automated C	0.03	BH	mg/L	0.02	0.1	5/15/2007	pjb		
Wet Chemistry	5/11/2007	5/15/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.06		mg/L	0.01	0.05	5/19/2007	pjb	7723-14-0	
Wet Chemistry	5/11/2007	5/15/2007	Residue, Non-Filterable (TSS)	SW	M160.2 - Gravimetric		U	mg/L	5	20	5/16/2007		aeh	
Wet Chemistry	5/11/2007	5/15/2007	Total Alkalinity	SW	SM2320B - Titration	161		mg/L	2	20	5/24/2007	wpa	10093	
Metals Analysis	5/10/2007	5/15/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	
Metals Analysis	5/10/2007	5/15/2007	Calcium, dissolved	SW	M200.7 ICP	67.1		mg/L	0.2	1	5/22/2007	djt	7440-70-2	
Metals Analysis	5/10/2007	5/15/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0014		mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/10/2007	5/15/2007	Copper, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/10/2007	5/15/2007	Lead, dissolved	SW	M200.8 ICP-MS	0.0001	B	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/10/2007	5/15/2007	Magnesium, dissolved	SW	M200.7 ICP	15.5		mg/L	0.2	1	5/22/2007	djt	7439-95-4	
Metals Analysis	5/10/2007	5/15/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.0012	B	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/10/2007	5/15/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid		U	mg/L	0.001	0.005	5/24/2007	wfg	7782-49-2	
Metals Analysis	5/10/2007	5/15/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/10/2007	5/15/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.0017		mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/10/2007	5/15/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	5/25/2007	wfg	7440-66-6	
Wet Chemistry	5/10/2007	5/15/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	208		mg/L	2	20	5/24/2007	wpa	10139	
Wet Chemistry	5/10/2007	5/15/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR	3	B	mg/L	1	5	5/21/2007	nps	10355	
Wet Chemistry	5/10/2007	5/15/2007	Carbonate as CaCO3	SW	SM2320B - Titration	10	B	mg/L	2	20	5/24/2007		wpa	
Wet Chemistry	5/10/2007	5/15/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	231		mg/L	1	7	5/30/2007		calc	
Wet Chemistry	5/10/2007	5/15/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007		wpa	

DEPTNAME	COLLECT DATE	RECEIVE DATE	ANALYTE	MATRIX	METHOD	RESULT	QUAL	UNITS	MDL	PQL	ANALYZE DATE	ANA-LYST	CAS #*	Mean/Note
Wet Chemistry	5/10/2007	5/15/2007	Nitrate/Nitrite as N, dissolve	SW	M353.2 - Automated C		UH	mg/L	0.02	0.1	5/15/2007	pjb		
Wet Chemistry	5/10/2007	5/15/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.05		mg/L	0.01	0.05	5/26/2007	pjb	7723-14-0	
Wet Chemistry	5/10/2007	5/15/2007	Residue, Non-Filterable (TSS)	SW	M160.2 - Gravimetric		U	mg/L	5	20	5/15/2007		aeh	
Wet Chemistry	5/10/2007	5/15/2007	Total Alkalinity	SW	SM2320B - Titration	218		mg/L	2	20	5/24/2007	wpa	10093	
Metals Analysis	5/11/2007	5/15/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	
Metals Analysis	5/11/2007	5/15/2007	Calcium, dissolved	SW	M200.7 ICP	58.8		mg/L	0.2	1	5/23/2007	djt	7440-70-2	
Metals Analysis	5/11/2007	5/15/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0006		mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/11/2007	5/15/2007	Copper, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/11/2007	5/15/2007	Lead, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/11/2007	5/15/2007	Magnesium, dissolved	SW	M200.7 ICP	11.9		mg/L	0.2	1	5/23/2007	djt	7439-95-4	
Metals Analysis	5/11/2007	5/15/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.001	B	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/11/2007	5/15/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid	0.026		mg/L	0.001	0.005	5/24/2007	wfg	7782-49-2	
Metals Analysis	5/11/2007	5/15/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/11/2007	5/15/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.0009	B	mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/11/2007	5/15/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	5/23/2007	djt	7440-66-6	
Wet Chemistry	5/11/2007	5/15/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	177		mg/L	2	20	5/24/2007	wpa	10139	
Wet Chemistry	5/11/2007	5/15/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR	2	B	mg/L	1	5	5/21/2007	nps	10355	
Wet Chemistry	5/11/2007	5/15/2007	Carbonate as CaCO3	SW	SM2320B - Titration	11	B	mg/L	2	20	5/24/2007		wpa	
Wet Chemistry	5/11/2007	5/15/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	196		mg/L	1	7	5/30/2007		calc	
Wet Chemistry	5/11/2007	5/15/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007		wpa	
Wet Chemistry	5/11/2007	5/15/2007	Nitrate/Nitrite as N, dissolve	SW	M353.2 - Automated C		UH	mg/L	0.02	0.1	5/15/2007	pjb		
Wet Chemistry	5/11/2007	5/15/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.04	B	mg/L	0.01	0.05	5/26/2007	pjb	7723-14-0	
Wet Chemistry	5/11/2007	5/15/2007	Residue, Non-Filterable (TSS)	SW	M160.2 - Gravimetric		U	mg/L	5	20	5/16/2007		aeh	
Wet Chemistry	5/11/2007	5/15/2007	Total Alkalinity	SW	SM2320B - Titration	188		mg/L	2	20	5/24/2007	wpa	10093	
Metals Analysis	5/10/2007	5/15/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	
Metals Analysis	5/10/2007	5/15/2007	Calcium, dissolved	SW	M200.7 ICP	46.5		mg/L	0.2	1	5/22/2007	djt	7440-70-2	
Metals Analysis	5/10/2007	5/15/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0006		mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/10/2007	5/15/2007	Copper, dissolved	SW	M200.8 ICP-MS	0.0006	B	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/10/2007	5/15/2007	Lead, dissolved	SW	M200.8 ICP-MS	0.0001	B	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/10/2007	5/15/2007	Magnesium, dissolved	SW	M200.7 ICP	10.7		mg/L	0.2	1	5/22/2007	djt	7439-95-4	
Metals Analysis	5/10/2007	5/15/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.0025	B	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/10/2007	5/15/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid	0.011		mg/L	0.001	0.005	5/24/2007	wfg	7782-49-2	
Metals Analysis	5/10/2007	5/15/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/10/2007	5/15/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.003		mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	

DEPTNAME	COLLECT DATE	RECEIVE DATE	ANALYTE	MATRIX	METHOD	RESULT	QUAL	UNITS	MDL	PQL	ANALYZE DATE	ANA-LYST	CAS #*	Mean/Note
Metals Analysis	5/10/2007	5/15/2007	Zinc, dissolved	SW	M200.7 ICP	0.01	B	mg/L	0.01	0.05	5/25/2007	wfg	7440-66-6	
Wet Chemistry	5/10/2007	5/15/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	138		mg/L	2	20	5/24/2007	wpa	10139	
Wet Chemistry	5/10/2007	5/15/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR	4	B	mg/L	1	5	5/21/2007	nps	10355	
Wet Chemistry	5/10/2007	5/15/2007	Carbonate as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007		wpa	
Wet Chemistry	5/10/2007	5/15/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	160		mg/L	1	7	5/30/2007		calc	
Wet Chemistry	5/10/2007	5/15/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007		wpa	
Wet Chemistry	5/10/2007	5/15/2007	Nitrate/Nitrite as N, dissolve	SW	M353.2 - Automated C	0.02	BH	mg/L	0.02	0.1	5/15/2007	pjb		
Wet Chemistry	5/10/2007	5/15/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.21		mg/L	0.01	0.05	5/26/2007	pjb	7723-14-0	
Wet Chemistry	5/10/2007	5/15/2007	Residue, Non-Filterable (TSS)	SW	M160.2 - Gravimetric	22		mg/L	5	20	5/15/2007		aeh	
Wet Chemistry	5/10/2007	5/15/2007	Total Alkalinity	SW	SM2320B - Titration	138		mg/L	2	20	5/24/2007	wpa	10093	
Metals Analysis	5/11/2007	5/15/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	
Metals Analysis	5/11/2007	5/15/2007	Calcium, dissolved	SW	M200.7 ICP	67.8		mg/L	0.2	1	5/23/2007	djt	7440-70-2	
Metals Analysis	5/11/2007	5/15/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0005	B	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/11/2007	5/15/2007	Copper, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/11/2007	5/15/2007	Lead, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/11/2007	5/15/2007	Magnesium, dissolved	SW	M200.7 ICP	12.4		mg/L	0.2	1	5/23/2007	djt	7439-95-4	
Metals Analysis	5/11/2007	5/15/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.001	B	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/11/2007	5/15/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid		U	mg/L	0.001	0.005	5/25/2007	gme	7782-49-2	
Metals Analysis	5/11/2007	5/15/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/11/2007	5/15/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.0007	B	mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/11/2007	5/15/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	5/23/2007	djt	7440-66-6	
Wet Chemistry	5/11/2007	5/15/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	199		mg/L	2	20	5/24/2007	wpa	10139	
Wet Chemistry	5/11/2007	5/15/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR	4	B	mg/L	1	5	5/25/2007	nps/jag	10355	
Wet Chemistry	5/11/2007	5/15/2007	Carbonate as CaCO3	SW	SM2320B - Titration	10	B	mg/L	2	20	5/24/2007		wpa	
Wet Chemistry	5/11/2007	5/15/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	220		mg/L	1	7	5/30/2007		calc	
Wet Chemistry	5/11/2007	5/15/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007		wpa	
Wet Chemistry	5/11/2007	5/15/2007	Nitrate/Nitrite as N, dissolve	SW	M353.2 - Automated C		UH	mg/L	0.02	0.1	5/15/2007	pjb		
Wet Chemistry	5/11/2007	5/15/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.03	B	mg/L	0.01	0.05	5/26/2007	pjb	7723-14-0	
Wet Chemistry	5/11/2007	5/15/2007	Residue, Non-Filterable (TSS)	SW	M160.2 - Gravimetric		U	mg/L	5	20	5/16/2007		aeh	
Wet Chemistry	5/11/2007	5/15/2007	Total Alkalinity	SW	SM2320B - Titration	209		mg/L	2	20	5/24/2007	wpa	10093	
Metals Analysis	5/10/2007	5/15/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	duplicate of Blackfoot above Narrows
Metals Analysis	5/10/2007	5/15/2007	Calcium, dissolved	SW	M200.7 ICP	58.1		mg/L	0.2	1	5/23/2007	djt	7440-70-2	

DEPTNAME	COLLECT DATE	RECEIVE DATE	ANALYTE	MATRIX	METHOD	RESULT	QUAL	UNITS	MDL	PQL	ANALYZE DATE	ANA-LYST	CAS #*	Mean/Note
Metals Analysis	5/10/2007	5/15/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0004	B	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/10/2007	5/15/2007	Copper, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/10/2007	5/15/2007	Lead, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/10/2007	5/15/2007	Magnesium, dissolved	SW	M200.7 ICP	11.3		mg/L	0.2	1	5/23/2007	djt	7439-95-4	
Metals Analysis	5/10/2007	5/15/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.0008	B	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/10/2007	5/15/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid	0.007		mg/L	0.001	0.005	5/25/2007	gme	7782-49-2	
Metals Analysis	5/10/2007	5/15/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/10/2007	5/15/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.001		mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/10/2007	5/15/2007	Zinc, dissolved	SW	M200.7 ICP	0.01	B	mg/L	0.01	0.05	5/23/2007	djt	7440-66-6	
Wet Chemistry	5/10/2007	5/15/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	170		mg/L	2	20	5/24/2007	wpa	10139	
Wet Chemistry	5/10/2007	5/15/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR	3	B	mg/L	1	5	5/25/2007	nps/jag	10355	
Wet Chemistry	5/10/2007	5/15/2007	Carbonate as CaCO3	SW	SM2320B - Titration	11	B	mg/L	2	20	5/24/2007		wpa	
Wet Chemistry	5/10/2007	5/15/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	192		mg/L	1	7	5/30/2007		calc	
Wet Chemistry	5/10/2007	5/15/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		U	mg/L	2	20	5/24/2007		wpa	
Wet Chemistry	5/10/2007	5/15/2007	Nitrate/Nitrite as N, dissolve	SW	M353.2 - Automated C		UH	mg/L	0.02	0.1	5/15/2007	pjb		
Wet Chemistry	5/10/2007	5/15/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.04	B	mg/L	0.01	0.05	5/26/2007	pjb	7723-14-0	
Wet Chemistry	5/10/2007	5/15/2007	Residue, Non-Filterable (TSS)	SW	M160.2 - Gravimetric		U	mg/L	5	20	5/16/2007		aeh	
Wet Chemistry	5/10/2007	5/15/2007	Total Alkalinity	SW	SM2320B - Titration	180		mg/L	2	20	5/24/2007	wpa	10093	
Metals Analysis	5/10/2007	5/16/2007	Cadmium, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7440-43-9	
Metals Analysis	5/10/2007	5/16/2007	Calcium, dissolved	SW	M200.7 ICP	74.6		mg/L	0.2	1	5/23/2007	msh	7440-70-2	
Metals Analysis	5/10/2007	5/16/2007	Chromium, dissolved	SW	M200.8 ICP-MS	0.0014		mg/L	0.0001	0.0005	5/17/2007	jjr	7440-47-3	
Metals Analysis	5/10/2007	5/16/2007	Copper, dissolved	SW	M200.8 ICP-MS	0.0006	B	mg/L	0.0005	0.003	5/17/2007	jjr	7440-50-8	
Metals Analysis	5/10/2007	5/16/2007	Lead, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.0001	0.0005	5/17/2007	jjr	7439-92-1	
Metals Analysis	5/10/2007	5/16/2007	Magnesium, dissolved	SW	M200.7 ICP	17.9		mg/L	0.2	1	5/23/2007	msh	7439-95-4	
Metals Analysis	5/10/2007	5/16/2007	Nickel, dissolved	SW	M200.8 ICP-MS	0.0017	B	mg/L	0.0006	0.003	5/17/2007	jjr	7440-02-0	
Metals Analysis	5/10/2007	5/16/2007	Selenium, total	SW	SM 3114 B, AA-Hydrid	0.002	B	mg/L	0.001	0.005	5/25/2007	gme	7782-49-2	
Metals Analysis	5/10/2007	5/16/2007	Silver, dissolved	SW	M200.8 ICP-MS		U	mg/L	0.00005	0.0003	5/17/2007	jjr	7440-22-4	
Metals Analysis	5/10/2007	5/16/2007	Vanadium, dissolved	SW	M200.8 ICP-MS	0.0004	B	mg/L	0.0002	0.001	5/17/2007	jjr	7440-62-2	
Metals Analysis	5/10/2007	5/16/2007	Zinc, dissolved	SW	M200.7 ICP		U	mg/L	0.01	0.05	5/23/2007	msh	7440-66-6	
Wet Chemistry	5/10/2007	5/16/2007	Bicarbonate as CaCO3	SW	SM2320B - Titration	237	H	mg/L	2	20	5/25/2007	cas	10139	
Wet Chemistry	5/10/2007	5/16/2007	Carbon, total organic (TOC)	SW	M415.1 Combustion/IR	5		mg/L	1	5	5/25/2007	nps/jag	10355	
Wet Chemistry	5/10/2007	5/16/2007	Carbonate as CaCO3	SW	SM2320B - Titration		UH	mg/L	2	20	5/25/2007		cas	
Wet Chemistry	5/10/2007	5/16/2007	Hardness as CaCO3	SW	SM2340B - Calculatio	260		mg/L	1	7	5/30/2007		calc	
Wet Chemistry	5/10/2007	5/16/2007	Hydroxide as CaCO3	SW	SM2320B - Titration		UH	mg/L	2	20	5/25/2007		cas	

DEPTNAME	COLLECT DATE	RECEIVE DATE	ANALYTE	MATRIX	METHOD	RESULT	QUAL	UNITS	MDL	PQL	ANALYZE DATE	ANA-LYST	CAS #*	Mean/Note
Wet Chemistry	5/10/2007	5/16/2007	Nitrate/Nitrite as N, dissolve	SW	M353.2 - Automated C		UH	mg/L	0.02	0.1	5/16/2007	pjb		
Wet Chemistry	5/10/2007	5/16/2007	Phosphorus, total	SW	M365.1 - Auto Ascorb	0.09		mg/L	0.01	0.05	5/26/2007	pjb	7723-14-0	
Wet Chemistry	5/10/2007	5/16/2007	Residue, Non-Filterable (TSS)	SW	M160.2 - Gravimetric		U	mg/L	5	20	5/17/2007		aeh	
Wet Chemistry	5/10/2007	5/16/2007	Total Alkalinity	SW	SM2320B - Titration	237	H	mg/L	2	20	5/25/2007	cas	10093	

* CAS # refers to the CAS Registry maintained and published by the American Chemical Society.

Appendix B – ACZ Laboratory Reports, Indexed

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This appendix contains the nine analytical reports from ACZ Laboratories associated with this report and supporting documents. Each report begins with the transmittal letter from ACZ and ends with the sample receipt and chain-of-custody forms, and is followed by the hold-time determination and login review. All but one of the reports contains results from multiple samples.

The table shown here lists the nine reports and the project number for each, and references the associated sample ID numbers along with the sampling location and date for each. Following the table is a list of the analytical reports, by project ID number, and the page number on which each begins.

ACZ Project ID	ACZ Sample ID	Sampling Location	Sampling Date
L62586	L62586-01	Blackfoot River at Slug Creek	5/11/2007
	L62586-02	State Land Creek	5/10/2007
	L62586-03	Lanes Creek	5/11/2007
	L62586-04	Blackfoot River at Upper Bridge	5/11/2007
	L62586-05	No Name Creek = field equipment blank 1	5/10/2007
L62587	L62587-01	Slug Creek	5/10/2007
	L62587-02	Georgetown Creek above mining/mill	5/10/2007
	L62587-03	Diamond Creek	5/11/2007
	L62587-04	Blackfoot River at China Hat	5/11/2007
L62588	L62588-01	Sheep Creek	5/11/2007
	L62588-02	Blackfoot River at Monsanto	5/10/2007
	L62588-03	Blackfoot River at Trail Creek	5/11/2007
	L62588-04	Spring Creek	5/11/2007
L62589	L62589-01	Angus Creek	5/11/2007
	L62589-02	Last Creek = field equipment blank 2	5/10/2007
	L62589-03	Georgetown Creek below mining/mill	5/10/2007
	L62589-04	Goodheart Creek	5/10/2007
L62591	L62591-01	White Creek = duplicate of L62591-04	5/10/2007
	L62591-02	Trail Creek	5/11/2007
	L62591-03	Double Creek = duplicate of L62589-01	5/11/2007
	L62591-04	Blackfoot River above Narrows	5/10/2007
L62651	L62651-01	Rasmussen Creek	5/10/2007
	L62651-02	East Mill Creek	5/11/2007
	L62651-03	Woolley Valley Creek	5/10/2007
	L62651-04	Georgetown Creek at/above right hand fork	5/10/2007

ACZ Project ID	ACZ Sample ID	Sampling Location	Sampling Date
L63019	L63019-01	Crow Creek at Stewart	5/21/2007
	L63019-02	Crow Creek at Stewart	5/22/2007
	L63019-03	Crow Creek at Stewart	5/24/2007
	L63019-04	Sage Creek at Crow Creek Road	5/22/2007
	L63019-05	Crow Creek at Hartmans	5/22/2007
	L63019-06	Crow Creek at Hartmans	5/24/2007
	L63019-07	Sage Creek at Crow Creek Road	5/21/2007
	L63019-08	Crow Creek at Hartmans	5/21/2007
	L63019-09	Sage Creek at Crow Creek Road	5/24/2007
	L63019-10	Deer Creek at Crow	5/22/2007
	L63019-11	Deer Creek at Crow	5/21/2007
	L63019-12	Deer Creek at Crow	5/24/2007
	L63019-13	Ozzie Creek = duplicate of L63019-05	5/22/2007
	L63019-14	Ozzie Creek = duplicate of L63019-08	5/21/2007
	L63019-15	Ozzie Creek = duplicate of L63019-06	5/24/2007
	L63019-16	Mike Creek = field equipment blank 3	5/24/2007
L63024	L63024-01	Crow Creek at Stewart	5/24/2007
	L63024-02	Crow Creek at Hartmans	5/24/2007
	L63024-03	Deer Creek	5/24/2007
	L63024-04	Sage Creek at Crow Creek	5/24/2007
	L63024-05	Ozzie Creek = duplicate of L63024-02	5/24/2007
L64142	L64142-01	Blackfoot River at Government	7/26/2007

Analytical Report for Project Number L62586 53
Analytical Report for Project Number L62587 79
Analytical Report for Project Number L62588 103
Analytical Report for Project Number L62589 129
Analytical Report for Project Number L62591 153
Analytical Report for Project Number L62651 179
Analytical Report for Project Number L63019 203
Analytical Report for Project Number L63024 253
Analytical Report for Project Number L64142 279

Analytical Report for Project Number L62586

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

May 30, 2007

Report to:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way Suite 300
Pocatello, ID 83201

Bill to:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way Suite 300
Pocatello, ID 83201

cc: Lynn Van Every

Project ID: 91556003620645010700
ACZ Project ID: L62586

Greg Mladenka:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 15, 2007. This project has been assigned to ACZ's project number, L62586. Please reference this number in all future inquiries.

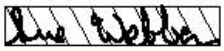
All analyses were performed according to ACZ's Quality Assurance Plan, version 11.0. The enclosed results relate only to the samples received under L62586. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after June 30, 2007. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than $10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.



30/May/07

Sue Webber, Project Manager, has reviewed and approved this report in its entirety.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: BLACKFOOTR@SLUG CR

ACZ Sample ID: ***L62586-01***
Date Sampled: *05/11/07 00:00*
Date Received: *05/15/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/24/07 11:29	nps

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 18:39	jjr
Calcium, dissolved	M200.7 ICP	58.1			mg/L	0.2	1	05/22/07 23:07	djt
Chromium, dissolved	M200.8 ICP-MS	0.0006			mg/L	0.0001	0.0005	05/17/07 18:39	jjr
Copper, dissolved	M200.8 ICP-MS	0.0006	B		mg/L	0.0005	0.003	05/17/07 18:39	jjr
Lead, dissolved	M200.8 ICP-MS	0.0001	B		mg/L	0.0001	0.0005	05/17/07 18:39	jjr
Magnesium, dissolved	M200.7 ICP	11.4			mg/L	0.2	1	05/22/07 23:07	djt
Nickel, dissolved	M200.8 ICP-MS	0.0010	B		mg/L	0.0006	0.003	05/17/07 18:39	jjr
Selenium, total	SM 3114 B, AA-Hydride	0.006			mg/L	0.001	0.005	05/24/07 14:54	wfg
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 18:39	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0013			mg/L	0.0002	0.001	05/17/07 18:39	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/25/07 22:35	wfg

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		163			mg/L	2	20	05/24/07 0:00	wpa
Carbonate as CaCO3		14	B		mg/L	2	20	05/24/07 0:00	wpa
Hydroxide as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Total Alkalinity		178			mg/L	2	20	05/24/07 0:00	wpa
Carbon, total organic (TOC)	M415.1 Combustion/IR	4	B	*	mg/L	1	5	05/25/07 11:55	nps/jag
Hardness as CaCO3	SM2340B - Calculation	192			mg/L	1	7	05/30/07 10:03	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.02	0.1	05/15/07 19:06	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.07		*	mg/L	0.01	0.05	05/26/07 16:36	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric		U	*	mg/L	5	20	05/15/07 16:23	aeh

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: STATE LAND CR

ACZ Sample ID: ***L62586-02***
Date Sampled: *05/10/07 00:00*
Date Received: *05/15/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/24/07 11:44	nps

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 18:52	jjr
Calcium, dissolved	M200.7 ICP	46.5			mg/L	0.2	1	05/22/07 23:19	djt
Chromium, dissolved	M200.8 ICP-MS	0.0006			mg/L	0.0001	0.0005	05/17/07 18:52	jjr
Copper, dissolved	M200.8 ICP-MS	0.0006	B		mg/L	0.0005	0.003	05/17/07 18:52	jjr
Lead, dissolved	M200.8 ICP-MS	0.0001	B		mg/L	0.0001	0.0005	05/17/07 18:52	jjr
Magnesium, dissolved	M200.7 ICP	10.7			mg/L	0.2	1	05/22/07 23:19	djt
Nickel, dissolved	M200.8 ICP-MS	0.0025	B		mg/L	0.0006	0.003	05/17/07 18:52	jjr
Selenium, total	SM 3114 B, AA-Hydride	0.011			mg/L	0.001	0.005	05/24/07 14:59	wfg
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 18:52	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0030			mg/L	0.0002	0.001	05/17/07 18:52	jjr
Zinc, dissolved	M200.7 ICP	0.01	B		mg/L	0.01	0.05	05/25/07 22:48	wfg

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		138			mg/L	2	20	05/24/07 0:00	wpa
Carbonate as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Hydroxide as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Total Alkalinity		138			mg/L	2	20	05/24/07 0:00	wpa
Carbon, total organic (TOC)	M415.1 Combustion/IR	4	B	*	mg/L	1	5	05/21/07 16:56	nps
Hardness as CaCO3	SM2340B - Calculation	160			mg/L	1	7	05/30/07 10:03	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.02	BH	*	mg/L	0.02	0.1	05/15/07 19:07	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.21		*	mg/L	0.01	0.05	05/26/07 16:38	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	22		*	mg/L	5	20	05/15/07 16:25	aeh

REPIN.02.06.05.01

** Please refer to Qualifier Reports for detail.*

ACZ Laboratories, Inc.
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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: LANES CR

ACZ Sample ID: ***L62586-03***
Date Sampled: *05/11/07 00:00*
Date Received: *05/15/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/24/07 11:58	nps

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 18:57	jjr
Calcium, dissolved	M200.7 ICP	63.4			mg/L	0.2	1	05/22/07 23:32	djt
Chromium, dissolved	M200.8 ICP-MS	0.0005	B		mg/L	0.0001	0.0005	05/17/07 18:57	jjr
Copper, dissolved	M200.8 ICP-MS	0.0007	B		mg/L	0.0005	0.003	05/17/07 18:57	jjr
Lead, dissolved	M200.8 ICP-MS	0.0001	B		mg/L	0.0001	0.0005	05/17/07 18:57	jjr
Magnesium, dissolved	M200.7 ICP	11.0			mg/L	0.2	1	05/22/07 23:32	djt
Nickel, dissolved	M200.8 ICP-MS	0.0012	B		mg/L	0.0006	0.003	05/17/07 18:57	jjr
Selenium, total	SM 3114 B, AA-Hydride		U		mg/L	0.001	0.005	05/24/07 15:00	wfg
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 18:57	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0011			mg/L	0.0002	0.001	05/17/07 18:57	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/25/07 22:52	wfg

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		178			mg/L	2	20	05/24/07 0:00	wpa
Carbonate as CaCO3		9	B		mg/L	2	20	05/24/07 0:00	wpa
Hydroxide as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Total Alkalinity		187			mg/L	2	20	05/24/07 0:00	wpa
Carbon, total organic (TOC)	M415.1 Combustion/IR	3	B	*	mg/L	1	5	05/25/07 12:23	nps/jag
Hardness as CaCO3	SM2340B - Calculation	204			mg/L	1	7	05/30/07 10:03	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.02	0.1	05/15/07 19:09	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.04	B	*	mg/L	0.01	0.05	05/26/07 16:40	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric		U	*	mg/L	5	20	05/15/07 16:27	aeh

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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: BLACKFOOTR@UPPER B

ACZ Sample ID: ***L62586-04***
Date Sampled: *05/11/07 00:00*
Date Received: *05/15/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/24/07 12:06	nps

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 19:01	jjr
Calcium, dissolved	M200.7 ICP	59.4			mg/L	0.2	1	05/22/07 23:36	djt
Chromium, dissolved	M200.8 ICP-MS	0.0006			mg/L	0.0001	0.0005	05/17/07 19:01	jjr
Copper, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.003	05/17/07 19:01	jjr
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 19:01	jjr
Magnesium, dissolved	M200.7 ICP	11.6			mg/L	0.2	1	05/22/07 23:36	djt
Nickel, dissolved	M200.8 ICP-MS	0.0008	B		mg/L	0.0006	0.003	05/17/07 19:01	jjr
Selenium, total	SM 3114 B, AA-Hydride	0.005			mg/L	0.001	0.005	05/24/07 15:02	wfg
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 19:01	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0010			mg/L	0.0002	0.001	05/17/07 19:01	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/25/07 22:56	wfg

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		182			mg/L	2	20	05/24/07 0:00	wpa
Carbonate as CaCO3		6	B		mg/L	2	20	05/24/07 0:00	wpa
Hydroxide as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Total Alkalinity		188			mg/L	2	20	05/24/07 0:00	wpa
Carbon, total organic (TOC)	M415.1 Combustion/IR	3	B	*	mg/L	1	5	05/25/07 12:38	nps/jag
Hardness as CaCO3	SM2340B - Calculation	196			mg/L	1	7	05/30/07 10:03	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.02	0.1	05/15/07 19:10	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.04	B	*	mg/L	0.01	0.05	05/26/07 16:41	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	10	B	*	mg/L	5	20	05/15/07 16:30	aeh

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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: NO NAME CR

ACZ Sample ID: ***L62586-05***
Date Sampled: *05/10/07 00:00*
Date Received: *05/15/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/24/07 12:13	nps

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 19:06	jjr
Calcium, dissolved	M200.7 ICP	0.4	B		mg/L	0.2	1	05/22/07 23:40	djt
Chromium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 19:06	jjr
Copper, dissolved	M200.8 ICP-MS	0.0020	B		mg/L	0.0005	0.003	05/17/07 19:06	jjr
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 19:06	jjr
Magnesium, dissolved	M200.7 ICP		U		mg/L	0.2	1	05/22/07 23:40	djt
Nickel, dissolved	M200.8 ICP-MS		U		mg/L	0.0006	0.003	05/17/07 19:06	jjr
Selenium, total	SM 3114 B, AA-Hydride		U		mg/L	0.001	0.005	05/24/07 15:07	wfg
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 19:06	jjr
Vanadium, dissolved	M200.8 ICP-MS		U		mg/L	0.0002	0.001	05/17/07 19:06	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/25/07 23:00	wfg

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Carbonate as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Hydroxide as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Total Alkalinity			U		mg/L	2	20	05/24/07 0:00	wpa
Carbon, total organic (TOC)	M415.1 Combustion/IR		U	*	mg/L	1	5	05/21/07 17:10	nps
Hardness as CaCO3	SM2340B - Calculation	1	B		mg/L	1	7	05/30/07 10:03	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.02	0.1	05/15/07 19:12	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)		U	*	mg/L	0.01	0.05	05/26/07 16:42	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric		U	*	mg/L	5	20	05/15/07 16:32	aeh

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Inorganic Reference

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit, typically 5 times the MDL.
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calivation Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
U	Analyte was analyzed for but not detected at the indicated MDL

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(5)	EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
(6)	Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.

ACZ Laboratories, Inc.
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Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700

ACZ Project ID: ***L62586***

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225353													
WG225353LCSW1	LCSW	05/24/07 16:57	WC070523-1	820		806	mg/L	98.3	80	120			
L62587-03DUP	DUP	05/24/07 18:18			169	169.8	mg/L				0.5	20	
WG225353LCSW3	LCSW	05/24/07 19:43	WC070523-1	820		806.2	mg/L	98.3	80	120			
WG225353LCSW5	LCSW	05/24/07 22:24	WC070523-1	820		813.1	mg/L	99.2	80	120			

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05121	mg/L	102.4	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0003	0.0003			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05295	mg/L	105.9	85	115			
L62586-01AS	AS	05/17/07 18:43	MS070425-3	.05	U	.05381	mg/L	107.6	70	130			
L62586-01ASD	ASD	05/17/07 18:48	MS070425-3	.05	U	.05342	mg/L	106.8	70	130	0.73	20	
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.1		.09893	mg/L	98.9	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0003	0.0003			
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.1		.09719	mg/L	97.2	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0003	0.0003			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.1		.09539	mg/L	95.4	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0003	0.0003			

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225167													
WG225167ICV	ICV	05/22/07 21:42	II070518-6	100		99.98	mg/L	100	95	105			
WG225167ICB	ICB	05/22/07 21:46				U	mg/L		-0.6	0.6			
WG225167PQV	PQV	05/22/07 21:50	II070518-5	1		1.02	mg/L	102	70	130			
WG225167SIC	SIC	05/22/07 21:55	II070518-3	201		193.4	mg/L	96.2	1	200			
WG225167LFB	LFB	05/22/07 22:03	II070516-3	67.99189		69.23	mg/L	101.8	85	115			
WG225167CCV1	CCV	05/22/07 22:33	II070518-7	50		51.18	mg/L	102.4	90	110			
WG225167CCB1	CCB	05/22/07 22:37				U	mg/L		-0.6	0.6			
L62586-01AS	AS	05/22/07 23:11	II070516-3	67.99189	58.1	130.03	mg/L	105.8	85	115			
L62586-01ASD	ASD	05/22/07 23:15	II070516-3	67.99189	58.1	129.22	mg/L	104.6	85	115	0.62	20	
WG225167CCV2	CCV	05/22/07 23:23	II070518-7	50		52.89	mg/L	105.8	90	110			
WG225167CCB2	CCB	05/22/07 23:28				U	mg/L		-0.6	0.6			
WG225167CCV3	CCV	05/23/07 0:05	II070518-7	50		53.12	mg/L	106.2	90	110			
WG225167CCB3	CCB	05/23/07 0:10				U	mg/L		-0.6	0.6			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62586***

Project ID: 91556003620645010700

Carbon, total organic (TOC) M415.1 Combustion/IR

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224949													
WG224949ICV	ICV	05/21/07 11:41	WI070426-1	75		68.1	mg/L	90.8	90	110			
WG224949ICB	ICB	05/21/07 11:56				U	mg/L		-3	3			
WG224949LFB1	LFB	05/21/07 12:10	WI070507-2	50		47.7	mg/L	95.4	90	110			
WG224949CCV1	CCV	05/21/07 14:33	WI070507-1	100		91.4	mg/L	91.4	90	110			
WG224949CCB1	CCB	05/21/07 14:47				U	mg/L		-3	3			
L62580-03DUP	DUP	05/21/07 15:59			3	3	mg/L				0	20	RA
L62580-04AS	AS	05/21/07 16:27	WI070507-2	50	6	48.9	mg/L	85.8	90	110			M2
WG224949CCV2	CCV	05/21/07 17:25	WI070507-1	100		91.9	mg/L	91.9	90	110			
WG224949CCB2	CCB	05/21/07 17:39				U	mg/L		-3	3			
WG224949LFB2	LFB	05/21/07 19:04	WI070507-2	50		45.9	mg/L	91.8	90	110			
WG224949CCV3	CCV	05/21/07 20:15	WI070507-1	100		91.4	mg/L	91.4	90	110			
WG224949CCB3	CCB	05/21/07 20:30				U	mg/L		-3	3			
WG224949CCV4	CCV	05/21/07 22:38	WI070507-1	100		91.3	mg/L	91.3	90	110			
WG224949CCB4	CCB	05/21/07 22:53				U	mg/L		-3	3			
WG225370													
WG225370ICV	ICV	05/25/07 10:43	WI070426-1	75		72.5	mg/L	96.7	90	110			
WG225370ICB	ICB	05/25/07 10:57				U	mg/L		-3	3			
WG225370LFB1	LFB	05/25/07 11:11	WI070507-2	50		45.2	mg/L	90.4	90	110			
L62580-06DUP	DUP	05/25/07 11:40			7	6.3	mg/L				10.5	20	RA
L62586-01AS	AS	05/25/07 12:09	WI070507-2	50	4	46.5	mg/L	85	90	110			M2
WG225370CCV1	CCV	05/25/07 13:35	WI070507-1	100		95.7	mg/L	95.7	90	110			
WG225370CCB1	CCB	05/25/07 13:49				U	mg/L		-3	3			
WG225370CCV2	CCV	05/25/07 16:27	WI070507-1	100		93.9	mg/L	93.9	90	110			
WG225370CCB2	CCB	05/25/07 16:41				U	mg/L		-3	3			
WG225370CCV3	CCV	05/25/07 19:18	WI070507-1	100		95.9	mg/L	95.9	90	110			
WG225370CCB3	CCB	05/25/07 19:33				U	mg/L		-3	3			
WG225370CCV4	CCV	05/25/07 21:42	WI070507-1	100		94.9	mg/L	94.9	90	110			
WG225370CCB4	CCB	05/25/07 21:56				U	mg/L		-3	3			
WG225370CCV5	CCV	05/28/07 8:22	WI070507-1	100		101.1	mg/L	101.1	90	110			
WG225370CCB5	CCB	05/28/07 8:37				U	mg/L		-3	3			
WG225370LFB2	LFB	05/28/07 8:51	WI070507-2	50		51.8	mg/L	103.6	90	110			
WG225370CCV6	CCV	05/28/07 9:20	WI070507-1	100		103.9	mg/L	103.9	90	110			
WG225370CCB6	CCB	05/28/07 9:34				U	mg/L		-3	3			

Chromium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05061	mg/L	101.2	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0003	0.0003			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05092	mg/L	101.8	85	115			
L62586-01AS	AS	05/17/07 18:43	MS070425-3	.05	.0006	.05243	mg/L	103.7	70	130			
L62586-01ASD	ASD	05/17/07 18:48	MS070425-3	.05	.0006	.04965	mg/L	98.1	70	130	5.45	20	
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.1		.09813	mg/L	98.1	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0003	0.0003			
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.1		.09675	mg/L	96.8	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0003	0.0003			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.1		.09422	mg/L	94.2	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0003	0.0003			

ACZ Laboratories, Inc.
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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62586***

Project ID: 91556003620645010700

Copper, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05144	mg/L	102.9	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0015	0.0015			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05078	mg/L	101.6	85	115			
L62586-01AS	AS	05/17/07 18:43	MS070425-3	.05	.0006	.05032	mg/L	99.4	70	130			
L62586-01ASD	ASD	05/17/07 18:48	MS070425-3	.05	.0006	.04718	mg/L	93.2	70	130	6.44	20	
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.25		.2427	mg/L	97.1	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0015	0.0015			
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.25		.2401	mg/L	96	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0015	0.0015			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.25		.234	mg/L	93.6	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0015	0.0015			

Lead, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05295	mg/L	105.9	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0003	0.0003			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05069	mg/L	101.4	85	115			
L62586-01AS	AS	05/17/07 18:43	MS070425-3	.05	.0001	.05123	mg/L	102.3	70	130			
L62586-01ASD	ASD	05/17/07 18:48	MS070425-3	.05	.0001	.05178	mg/L	103.4	70	130	1.07	20	
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.25		.2611	mg/L	104.4	90	110			
WG224901CCB1	CCB	05/17/07 19:23				.00019	mg/L		-0.0003	0.0003			
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.25		.2708	mg/L	108.3	90	110			
WG224901CCB2	CCB	05/17/07 20:17				.00011	mg/L		-0.0003	0.0003			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.25		.273	mg/L	109.2	90	110			
WG224901CCB3	CCB	05/17/07 20:48				.00013	mg/L		-0.0003	0.0003			

Magnesium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225167													
WG225167ICV	ICV	05/22/07 21:42	II070518-6	100		98.15	mg/L	98.2	95	105			
WG225167ICB	ICB	05/22/07 21:46				U	mg/L		-0.6	0.6			
WG225167PQV	PQV	05/22/07 21:50	II070518-5	1		1.02	mg/L	102	70	130			
WG225167SIC	SIC	05/22/07 21:55	II070518-3	201		198.93	mg/L	99	1	200			
WG225167LFB	LFB	05/22/07 22:03	II070516-3	54.96149		55.78	mg/L	101.5	85	115			
WG225167CCV1	CCV	05/22/07 22:33	II070518-7	50		50.16	mg/L	100.3	90	110			
WG225167CCB1	CCB	05/22/07 22:37				U	mg/L		-0.6	0.6			
L62586-01AS	AS	05/22/07 23:11	II070516-3	54.96149	11.4	70.18	mg/L	106.9	85	115			
L62586-01ASD	ASD	05/22/07 23:15	II070516-3	54.96149	11.4	70.33	mg/L	107.2	85	115	0.21	20	
WG225167CCV2	CCV	05/22/07 23:23	II070518-7	50		51.7	mg/L	103.4	90	110			
WG225167CCB2	CCB	05/22/07 23:28				U	mg/L		-0.6	0.6			
WG225167CCV3	CCV	05/23/07 0:05	II070518-7	50		51.73	mg/L	103.5	90	110			
WG225167CCB3	CCB	05/23/07 0:10				U	mg/L		-0.6	0.6			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62586***

Project ID: 91556003620645010700

Nickel, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05117	mg/L	102.3	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0018	0.0018			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05225	mg/L	104.5	85	115			
L62586-01AS	AS	05/17/07 18:43	MS070425-3	.05	.001	.05143	mg/L	100.9	70	130			
L62586-01ASD	ASD	05/17/07 18:48	MS070425-3	.05	.001	.04837	mg/L	94.7	70	130	6.13	20	
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.25		.2415	mg/L	96.6	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0018	0.0018			
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.25		.2436	mg/L	97.4	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0018	0.0018			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.25		.2375	mg/L	95	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0018	0.0018			

Nitrate/Nitrite as N, dissolved M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224770													
WG224770ICV	ICV	05/15/07 18:28	WI070308-3	2.416		2.406	mg/L	99.6	90	110			
WG224770ICB	ICB	05/15/07 18:29				U	mg/L		-0.06	0.06			
WG224771													
WG224771ICV	ICV	05/15/07 18:48	WI070308-3	2.416		2.393	mg/L	99	90	110			
WG224771ICB	ICB	05/15/07 18:49				U	mg/L		-0.06	0.06			
WG224771LFB1	LFB	05/15/07 18:50	WI070307-9	2		2.016	mg/L	100.8	90	110			
L62583-01DUP	DUP	05/15/07 18:55			2.01	2.046	mg/L				1.8	20	
WG224771CCV1	CCV	05/15/07 19:03	WI070515-1	2		1.974	mg/L	98.7	90	110			
WG224771CCB1	CCB	05/15/07 19:05				U	mg/L		-0.06	0.06			
L62586-04AS	AS	05/15/07 19:11	WI070307-9	2	U	2.127	mg/L	106.4	90	110			
L62586-05DUP	DUP	05/15/07 19:14			U	U	mg/L				0	20	RA
WG224771CCV2	CCV	05/15/07 19:19	WI070515-1	2		1.967	mg/L	98.4	90	110			
WG224771CCB2	CCB	05/15/07 19:21				U	mg/L		-0.06	0.06			
WG224771LFB2	LFB	05/15/07 19:28	WI070307-9	2		2.009	mg/L	100.5	90	110			
WG224771CCV3	CCV	05/15/07 19:34	WI070515-1	2		1.964	mg/L	98.2	90	110			
WG224771CCB3	CCB	05/15/07 19:37				U	mg/L		-0.06	0.06			
L62567-01AS	AS	05/15/07 19:49	WI070307-9	20	14.5	35.18	mg/L	103.4	90	110			
WG224771CCV4	CCV	05/15/07 19:50	WI070515-1	2		1.978	mg/L	98.9	90	110			
WG224771CCB4	CCB	05/15/07 19:53				U	mg/L		-0.06	0.06			
WG224771CCV5	CCV	05/15/07 20:30	WI070515-1	2		1.957	mg/L	97.9	90	110			
WG224771CCB5	CCB	05/15/07 20:32				U	mg/L		-0.06	0.06			
WG224771CCV6	CCV	05/15/07 20:42	WI070515-1	2		1.957	mg/L	97.9	90	110			
WG224771CCB6	CCB	05/15/07 20:44				U	mg/L		-0.06	0.06			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62586***

Project ID: 91556003620645010700

Phosphorus, total M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225457													
WG225355ICV	ICV	05/26/07 16:30	WI070329-1	.65228		.597	mg/L	91.5	90	110			
WG225355ICB	ICB	05/26/07 16:32				U	mg/L		-0.03	0.03			
WG225355LRB1	LRB	05/26/07 16:33				U	mg/L		-0.03	0.03			
WG225355LFB1	LFB	05/26/07 16:34	WI070510-2	.5		.456	mg/L	91.2	90	110			
L62586-01LFM	LFM	05/26/07 16:37	WI070510-2	.5	.07	.489	mg/L	83.8	90	110			M2
L62586-02DUP	DUP	05/26/07 16:39			.21	.222	mg/L				5.6	20	
WG225355CCV1	CCV	05/26/07 16:45	WI070510-2	.5		.498	mg/L	99.6	90	110			
WG225355CCB1	CCB	05/26/07 16:46				U	mg/L		-0.03	0.03			
WG225355CCV2	CCV	05/26/07 16:58	WI070510-2	.5		.508	mg/L	101.6	90	110			
WG225355CCB2	CCB	05/26/07 16:59				U	mg/L		-0.03	0.03			
WG225355LRB2	LRB	05/26/07 17:07				U	mg/L		-0.03	0.03			
WG225355LFB2	LFB	05/26/07 17:08	WI070510-2	.5		.464	mg/L	92.8	90	110			
WG225355CCV3	CCV	05/26/07 17:12	WI070510-2	.5		.513	mg/L	102.6	90	110			
WG225355CCB3	CCB	05/26/07 17:13				U	mg/L		-0.03	0.03			
WG225355CCV4	CCV	05/26/07 17:25	WI070510-2	.5		.515	mg/L	103	90	110			
WG225355CCB4	CCB	05/26/07 17:26				U	mg/L		-0.03	0.03			

Residue, Non-Filterable (TSS) @105C M160.2 - Gravimetric

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224759													
WG224759PBW	PBW	05/15/07 15:45				U	mg/L		-15	15			
WG224759LCSW	LCSW	05/15/07 15:47	PCN27104	152		142	mg/L	93.4	80	120			
L62587-02DUP	DUP	05/15/07 16:39			U	U	mg/L				0	20	RA

Selenium, total SM 3114 B, AA-Hydride

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225093													
WG225093ICV	ICV	05/24/07 14:36	II070521-1	.025		.0266	mg/L	106.4	90	110			
WG225093ICB	ICB	05/24/07 14:38				U	mg/L		-0.003	0.003			
WG225093LRB	LRB	05/24/07 14:39				U	mg/L		-0.003	0.003			
WG225093LFB	LFB	05/24/07 14:41	II070515-2	.02		.0193	mg/L	96.5	85	115			
L62570-05LFM	LFM	05/24/07 14:44	II070515-2	.02	U	.0216	mg/L	108	85	115			
L62570-05LFMD	LFMD	05/24/07 14:46	II070515-2	.02	U	.0215	mg/L	107.5	85	115	0.46	20	
WG225093CCV1	CCV	05/24/07 14:55	II070521-1	.025		.0256	mg/L	102.4	90	110			
WG225093CCB1	CCB	05/24/07 14:57				U	mg/L		-0.003	0.003			
L62586-04LFM	LFM	05/24/07 15:03	II070515-2	.02	.005	.0262	mg/L	106	85	115			
L62586-04LFMD	LFMD	05/24/07 15:05	II070515-2	.02	.005	.0248	mg/L	99	85	115	5.49	20	
WG225093CCV2	CCV	05/24/07 15:15	II070521-1	.025		.0257	mg/L	102.8	90	110			
WG225093CCB2	CCB	05/24/07 15:16				U	mg/L		-0.003	0.003			
WG225093CCV3	CCV	05/24/07 15:28	II070521-1	.025		.0253	mg/L	101.2	90	110			
WG225093CCB3	CCB	05/24/07 15:29				U	mg/L		-0.003	0.003			
WG225093CCV4	CCV	05/24/07 15:44	II070521-1	.025		.0259	mg/L	103.6	90	110			
WG225093CCB4	CCB	05/24/07 15:45				U	mg/L		-0.003	0.003			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62586***

Project ID: 91556003620645010700

Silver, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.02006		.01868	mg/L	93.1	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.00015	0.00015			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.0125375		.01221	mg/L	97.4	85	115			
L62586-01AS	AS	05/17/07 18:43	MS070425-3	.0125375	U	.0117	mg/L	93.3	70	130			
L62586-01ASD	ASD	05/17/07 18:48	MS070425-3	.0125375	U	.01199	mg/L	95.6	70	130	2.45	20	
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.025075		.02441	mg/L	97.3	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.00015	0.00015			
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.025075		.02353	mg/L	93.8	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.00015	0.00015			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.025075		.0228	mg/L	90.9	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.00015	0.00015			

Vanadium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05152	mg/L	103	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0006	0.0006			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05002	mg/L	100	85	115			
L62586-01AS	AS	05/17/07 18:43	MS070425-3	.05	.0013	.05305	mg/L	103.5	70	130			
L62586-01ASD	ASD	05/17/07 18:48	MS070425-3	.05	.0013	.05003	mg/L	97.5	70	130	5.86	20	
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.1		.09961	mg/L	99.6	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0006	0.0006			
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.1		.1	mg/L	100	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0006	0.0006			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.1		.09633	mg/L	96.3	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0006	0.0006			

Zinc, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225415													
WG225415ICV	ICV	05/25/07 21:50	II070518-6	2		1.922	mg/L	96.1	95	105			
WG225415ICB	ICB	05/25/07 21:54				U	mg/L		-0.03	0.03			
WG225415PQV	PQV	05/25/07 21:58	II070518-5	.05		.053	mg/L	106	70	130			
WG225415SIC	SIC	05/25/07 22:02	II070518-3	.1		.113	mg/L	113	80	120			
WG225415LFB	LFB	05/25/07 22:11	II070516-3	.5		.509	mg/L	101.8	85	115			
L62569-01AS	AS	05/25/07 22:19	II070516-3	.5	.01	.542	mg/L	106.4	85	115			
L62569-01ASD	ASD	05/25/07 22:23	II070516-3	.5	.01	.527	mg/L	103.4	85	115	2.81	20	
WG225415CCV1	CCV	05/25/07 22:40	II070518-7	1		1.003	mg/L	100.3	90	110			
WG225415CCB1	CCB	05/25/07 22:44				U	mg/L		-0.03	0.03			
WG225415CCV2	CCV	05/25/07 23:29	II070518-7	1		.993	mg/L	99.3	90	110			
WG225415CCB2	CCB	05/25/07 23:33				U	mg/L		-0.03	0.03			
WG225415CCV3	CCV	05/26/07 0:11	II070518-7	1		1	mg/L	100	90	110			
WG225415CCB3	CCB	05/26/07 0:15				U	mg/L		-0.03	0.03			

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Inorganic Extended Qualifier Report

Idaho Dept of Environmental Quality ACZ Project ID: ***L62586***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L62586-01	WG225370	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224771	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
	WG225457	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
	WG224759	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L62586-02	WG224949	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224771	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
	WG225457	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
	WG224759	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L62586-03	WG225370	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224771	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
	WG225457	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
	WG224759	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L62586-04	WG225370	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224771	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225457	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
	WG224759	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Extended Qualifier Report

Idaho Dept of Environmental Quality ACZ Project ID: ***L62586***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L62586-05	WG224949	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224771	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225457	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
	WG224759	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Certification Qualifiers

Idaho Dept of Environmental Quality ACZ Project ID: ***L62586***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Idaho Dept of Environmental Quality
91556003620645010700

ACZ Project ID: L62586
Date Received: 5/15/2007
Received By:
Date Printed: 5/15/2007

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?	X		
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?		X	
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?			X
11) Are the trip blanks (VOA and/or Cyanide) present?			X
12) Are samples requiring no headspace, headspace free?			X
13) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

The nitrate/nitrite analysis was received past hold for all samples.

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id		Temp (°C)	Rad (µR/hr)
1418		1.2	15

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Idaho Dept of Environmental Quality
91556003620645010700

ACZ Project ID: L62586
Date Received: 5/15/2007
Received By:

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	O < 2	T >12	N/A	RAD	ID
L62586-01	BLACKFOOTR@SLUG CR R	Y	Y		Y							
L62586-02	STATE LAND CR	Y	Y		Y							
L62586-03	LANES CR	Y	Y		Y							
L62586-04	BLACKFOOTR@UPPER BRI	Y	Y		Y							
L62586-05	NO NAME CR	Y	Y		Y							

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: _____

ACZ Laboratories, Inc. L62586 **CHAIN of CUSTODY**

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Greg Mladenka. Address: 444 Hospital Way, Ste 300 Pocatello, ID 83201

Company: Idaho DEQ

E-mail: greg.mladenka@deq.idaho.gov Telephone: 208-236-6160/251-9941 (c)

Copy of Report to:

Name: Lynn Van Every E-mail: Lynn.Vanevery@deq.idaho.gov

Company: Idaho DEQ Telephone: 208-236-6160

Invoice to:

Name: Kasey Guthrie. Address: Same

Company: IDEQ

E-mail: Kasey.guthrie@deq.idaho.gov Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO [ ]

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

PROJECT INFORMATION

Quote #: 4-DAY AVE

Project/PO #: 9155 6003 62064 5010 700

Reporting state for compliance testing: ID

Sampler's Name: Greg Mladenka

Are any samples NRC licensable material? NO.

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	QUOTE
Blackfoot R. @ Slug Cr. Road	5/11/07 : COMP	SW	5	
State Land Cr.	5/10/07			
Lanes Cr.	5/11/07			
Blackfoot R. @ Upper Bridge	5/11/07			
No Name Cr.	5/10/07			

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
[signature]	5/14/07 : 1400	LMC 5/15/07	

FRMAD050.03.05.02 White - Return with sample. Yellow - Retain for your records.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Short Holdtime

Idaho Dept of Environmental Quality ACZ Project ID: ***L62586***
Project ID: 91556003620645010700

Samplenum	ClientID	Collectdate	Receivedate	Prod	Holddays	Holddate	Past?
L62586-01	.ACKFOOTR@SLUG CR I	05/11/07 0:00	05/15/07	N-NO3NO2	2	05/13/07 0:00	PAST
L62586-02	STATE LAND CR	05/10/07 0:00	05/15/07	TSS	7	05/17/07 23:59	SHORT
L62586-02	STATE LAND CR	05/10/07 0:00	05/15/07	N-NO3NO2	2	05/12/07 0:00	PAST
L62586-03	LANES CR	05/11/07 0:00	05/15/07	N-NO3NO2	2	05/13/07 0:00	PAST
L62586-04	.ACKFOOTR@UPPER BRI	05/11/07 0:00	05/15/07	N-NO3NO2	2	05/13/07 0:00	PAST
L62586-05	NO NAME CR	05/10/07 0:00	05/15/07	TSS	7	05/17/07 23:59	SHORT
L62586-05	NO NAME CR	05/10/07 0:00	05/15/07	N-NO3NO2	2	05/12/07 0:00	PAST

IDDEQ L62586

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 05/15/07 13:40

Account Code: IDDEQ
ACZ Project ID: L62586
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62586-01

Client ID: BLACKFOOTR@SLUG C
Quote Num 4-DAY-AVE
Locator:

Priority: -
Due: 5/28/2007
Site: 91556003620645010700

Sampled: 5/11/2007
Received: 5/15/2007

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digesl	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

IDDEQ L62586

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 05/15/07 13:40

Account Code: IDDEQ
ACZ Project ID: L62586
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62586-02

Client ID: STATE LAND CR
Quote Num 4-DAY-AVE
Locator:

Priority: -
Due: 5/28/2007
Site: 91556003620645010700

Sampled: 5/10/2007
Received: 5/15/2007

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digesl	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

IDDEQ L62586

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 05/15/07 13:40

Account Code: IDDEQ
ACZ Project ID: L62586
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62586-03

Client ID:	LANES CR	Priority:	-	Sampled:	5/11/2007
Quote Num	4-DAY-AVE	Due:	5/28/2007	Received:	5/15/2007
Locator:		Site:	91556003620645010700		

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digest	0.00
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

IDDEQ L62586

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 05/15/07 13:40

Account Code: IDDEQ
ACZ Project ID: L62586
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62586-04

Client ID:	BLACKFOOTR@UPPER	Priority:	-	Sampled:	5/11/2007
Quote Num	4-DAY-AVE	Due:	5/28/2007	Received:	5/15/2007
Locator:		Site:	91556003620645010700		

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digest	0.00
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

IDDEQ L62586

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 05/15/07 13:40

Account Code: IDDEQ
ACZ Project ID: L62586
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62586-05

Client ID: NO NAME CR
Quote Num 4-DAY-AVE
Locator:

Priority: -
Due: 5/28/2007
Site: 91556003620645010700

Sampled: 5/10/2007
Received: 5/15/2007

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digest	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

CLIENT SAMPLE ID REVIEW	COC SCANNED	LOGIN REVIEW	FINAL PDFS EMAILED
Signature:	Signature:	Signature:	Signature:
Date:	Date:	Date:	Date:

Analytical Report for Project Number L62587

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

May 30, 2007

Report to:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way Suite 300
Pocatello, ID 83201

Bill to:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way Suite 300
Pocatello, ID 83201

cc: Lynn Van Every

Project ID: 915560036206450107O0
ACZ Project ID: L62587

Greg Mladenka:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 15, 2007. This project has been assigned to ACZ's project number, L62587. Please reference this number in all future inquiries.

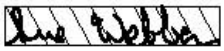
All analyses were performed according to ACZ's Quality Assurance Plan, version 11.0. The enclosed results relate only to the samples received under L62587. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after June 30, 2007. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than $10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.



30/May/07

Sue Webber, Project Manager, has reviewed and approved this report in its entirety.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: SLUG CR

ACZ Sample ID: ***L62587-01***
Date Sampled: *05/10/07 00:00*
Date Received: *05/15/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/24/07 12:20	nps

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 19:10	jjr
Calcium, dissolved	M200.7 ICP	67.1			mg/L	0.2	1	05/22/07 23:44	djt
Chromium, dissolved	M200.8 ICP-MS	0.0014			mg/L	0.0001	0.0005	05/17/07 19:10	jjr
Copper, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.003	05/17/07 19:10	jjr
Lead, dissolved	M200.8 ICP-MS	0.0001	B		mg/L	0.0001	0.0005	05/17/07 19:10	jjr
Magnesium, dissolved	M200.7 ICP	15.5			mg/L	0.2	1	05/22/07 23:44	djt
Nickel, dissolved	M200.8 ICP-MS	0.0012	B		mg/L	0.0006	0.003	05/17/07 19:10	jjr
Selenium, total	SM 3114 B, AA-Hydride		U		mg/L	0.001	0.005	05/24/07 15:08	wfg
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 19:10	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0017			mg/L	0.0002	0.001	05/17/07 19:10	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/25/07 23:04	wfg

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		208			mg/L	2	20	05/24/07 0:00	wpa
Carbonate as CaCO3		10	B		mg/L	2	20	05/24/07 0:00	wpa
Hydroxide as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Total Alkalinity		218			mg/L	2	20	05/24/07 0:00	wpa
Carbon, total organic (TOC)	M415.1 Combustion/IR	3	B	*	mg/L	1	5	05/21/07 17:53	nps
Hardness as CaCO3	SM2340B - Calculation	231			mg/L	1	7	05/30/07 10:06	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.02	0.1	05/15/07 19:15	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.05		*	mg/L	0.01	0.05	05/26/07 16:44	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric		U	*	mg/L	5	20	05/15/07 16:35	aeh

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: GEORGETOWN CR ABOV

ACZ Sample ID: ***L62587-02***
Date Sampled: *05/10/07 00:00*
Date Received: *05/15/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/24/07 12:42	nps

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 19:15	jjr
Calcium, dissolved	M200.7 ICP	60.1			mg/L	0.2	1	05/22/07 23:49	djt
Chromium, dissolved	M200.8 ICP-MS	0.0006			mg/L	0.0001	0.0005	05/17/07 19:15	jjr
Copper, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.003	05/17/07 19:15	jjr
Lead, dissolved	M200.8 ICP-MS	0.0005			mg/L	0.0001	0.0005	05/17/07 19:15	jjr
Magnesium, dissolved	M200.7 ICP	12.6			mg/L	0.2	1	05/22/07 23:49	djt
Nickel, dissolved	M200.8 ICP-MS	0.0008	B		mg/L	0.0006	0.003	05/17/07 19:15	jjr
Selenium, total	SM 3114 B, AA-Hydride	0.018			mg/L	0.001	0.005	05/24/07 15:10	wfg
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 19:15	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0006	B		mg/L	0.0002	0.001	05/17/07 19:15	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/25/07 23:09	wfg

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		179			mg/L	2	20	05/24/07 0:00	wpa
Carbonate as CaCO3		7	B		mg/L	2	20	05/24/07 0:00	wpa
Hydroxide as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Total Alkalinity		185			mg/L	2	20	05/24/07 0:00	wpa
Carbon, total organic (TOC)	M415.1 Combustion/IR	1	B	*	mg/L	1	5	05/21/07 18:07	nps
Hardness as CaCO3	SM2340B - Calculation	202			mg/L	1	7	05/30/07 10:06	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.03	BH	*	mg/L	0.02	0.1	05/15/07 19:16	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.05		*	mg/L	0.01	0.05	05/26/07 16:47	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric		U	*	mg/L	5	20	05/15/07 16:37	aeh

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: DIAMOND CR

ACZ Sample ID: ***L62587-03***
Date Sampled: *05/11/07 00:00*
Date Received: *05/15/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/24/07 12:50	nps

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 19:28	jjr
Calcium, dissolved	M200.7 ICP	51.1			mg/L	0.2	1	05/22/07 23:53	djt
Chromium, dissolved	M200.8 ICP-MS	0.0004	B		mg/L	0.0001	0.0005	05/17/07 19:28	jjr
Copper, dissolved	M200.8 ICP-MS	0.0007	B		mg/L	0.0005	0.003	05/17/07 19:28	jjr
Lead, dissolved	M200.8 ICP-MS	0.0001	B		mg/L	0.0001	0.0005	05/17/07 19:28	jjr
Magnesium, dissolved	M200.7 ICP	13.4			mg/L	0.2	1	05/22/07 23:53	djt
Nickel, dissolved	M200.8 ICP-MS	0.0007	B		mg/L	0.0006	0.003	05/17/07 19:28	jjr
Selenium, total	SM 3114 B, AA-Hydride		U		mg/L	0.001	0.005	05/24/07 15:11	wfg
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 19:28	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0012			mg/L	0.0002	0.001	05/17/07 19:28	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/25/07 23:13	wfg

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		162			mg/L	2	20	05/24/07 0:00	wpa
Carbonate as CaCO3		7	B		mg/L	2	20	05/24/07 0:00	wpa
Hydroxide as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Total Alkalinity		169			mg/L	2	20	05/24/07 0:00	wpa
Carbon, total organic (TOC)	M415.1 Combustion/IR	3	B	*	mg/L	1	5	05/21/07 18:22	nps
Hardness as CaCO3	SM2340B - Calculation	183			mg/L	1	7	05/30/07 10:06	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.02	BH	*	mg/L	0.02	0.1	05/15/07 19:17	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.06		*	mg/L	0.01	0.05	05/26/07 16:48	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	14	B	*	mg/L	5	20	05/17/07 14:16	aeh

ACZ Laboratories, Inc.
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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: BLACKFOOTR@CHINAHA

ACZ Sample ID: ***L62587-04***
Date Sampled: *05/11/07 00:00*
Date Received: *05/15/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/24/07 12:57	nps

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 19:32	jjr
Calcium, dissolved	M200.7 ICP	66.2			mg/L	0.2	1	05/22/07 23:57	djt
Chromium, dissolved	M200.8 ICP-MS	0.0004	B		mg/L	0.0001	0.0005	05/17/07 19:32	jjr
Copper, dissolved	M200.8 ICP-MS	0.0006	B		mg/L	0.0005	0.003	05/17/07 19:32	jjr
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 19:32	jjr
Magnesium, dissolved	M200.7 ICP	14.4			mg/L	0.2	1	05/22/07 23:57	djt
Nickel, dissolved	M200.8 ICP-MS	0.0011	B		mg/L	0.0006	0.003	05/17/07 19:32	jjr
Selenium, total	SM 3114 B, AA-Hydride	0.005	B		mg/L	0.001	0.005	05/24/07 15:13	wfg
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 19:32	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0012			mg/L	0.0002	0.001	05/17/07 19:32	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/25/07 23:25	wfg

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		205			mg/L	2	20	05/24/07 0:00	wpa
Carbonate as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Hydroxide as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Total Alkalinity		205			mg/L	2	20	05/24/07 0:00	wpa
Carbon, total organic (TOC)	M415.1 Combustion/IR	3	B	*	mg/L	1	5	05/21/07 18:36	nps
Hardness as CaCO3	SM2340B - Calculation	225			mg/L	1	7	05/30/07 10:06	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.02	0.1	05/15/07 19:22	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.05		*	mg/L	0.01	0.05	05/26/07 16:49	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	10	B	*	mg/L	5	20	05/17/07 14:18	aeh

REPIN.02.06.05.01

** Please refer to Qualifier Reports for detail.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Reference

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit, typically 5 times the MDL.
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calivation Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
U	Analyte was analyzed for but not detected at the indicated MDL

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(5)	EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
(6)	Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700

ACZ Project ID: ***L62587***

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225353													
WG225353LCSW1	LCSW	05/24/07 16:57	WC070523-1	820		806	mg/L	98.3	80	120			
L62587-03DUP	DUP	05/24/07 18:18			169	169.8	mg/L				0.5	20	
L62595-03DUP	DUP	05/24/07 19:32			257	260.7	mg/L				1.4	20	
WG225353LCSW3	LCSW	05/24/07 19:43	WC070523-1	820		806.2	mg/L	98.3	80	120			
WG225353LCSW5	LCSW	05/24/07 22:24	WC070523-1	820		813.1	mg/L	99.2	80	120			

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05121	mg/L	102.4	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0003	0.0003			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05295	mg/L	105.9	85	115			
L62586-01AS	AS	05/17/07 18:43	MS070425-3	.05	U	.05381	mg/L	107.6	70	130			
L62586-01ASD	ASD	05/17/07 18:48	MS070425-3	.05	U	.05342	mg/L	106.8	70	130	0.73	20	
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.1		.09893	mg/L	98.9	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0003	0.0003			
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.1		.09719	mg/L	97.2	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0003	0.0003			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.1		.09539	mg/L	95.4	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0003	0.0003			

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225167													
WG225167ICV	ICV	05/22/07 21:42	II070518-6	100		99.98	mg/L	100	95	105			
WG225167ICB	ICB	05/22/07 21:46				U	mg/L		-0.6	0.6			
WG225167PQV	PQV	05/22/07 21:50	II070518-5	1		1.02	mg/L	102	70	130			
WG225167SIC	SIC	05/22/07 21:55	II070518-3	201		193.4	mg/L	96.2	1	200			
WG225167LFB	LFB	05/22/07 22:03	II070516-3	67.99189		69.23	mg/L	101.8	85	115			
WG225167CCV1	CCV	05/22/07 22:33	II070518-7	50		51.18	mg/L	102.4	90	110			
WG225167CCB1	CCB	05/22/07 22:37				U	mg/L		-0.6	0.6			
L62586-01AS	AS	05/22/07 23:11	II070516-3	67.99189	58.1	130.03	mg/L	105.8	85	115			
L62586-01ASD	ASD	05/22/07 23:15	II070516-3	67.99189	58.1	129.22	mg/L	104.6	85	115	0.62	20	
WG225167CCV2	CCV	05/22/07 23:23	II070518-7	50		52.89	mg/L	105.8	90	110			
WG225167CCB2	CCB	05/22/07 23:28				U	mg/L		-0.6	0.6			
WG225167CCV3	CCV	05/23/07 0:05	II070518-7	50		53.12	mg/L	106.2	90	110			
WG225167CCB3	CCB	05/23/07 0:10				U	mg/L		-0.6	0.6			

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62587***

Project ID: 91556003620645010700

Carbon, total organic (TOC) M415.1 Combustion/IR

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224949													
WG224949ICV	ICV	05/21/07 11:41	WI070426-1	75		68.1	mg/L	90.8	90	110			
WG224949ICB	ICB	05/21/07 11:56				U	mg/L		-3	3			
WG224949LFB1	LFB	05/21/07 12:10	WI070507-2	50		47.7	mg/L	95.4	90	110			
WG224949CCV1	CCV	05/21/07 14:33	WI070507-1	100		91.4	mg/L	91.4	90	110			
WG224949CCB1	CCB	05/21/07 14:47				U	mg/L		-3	3			
L62580-03DUP	DUP	05/21/07 15:59			3	3	mg/L				0	20	RA
L62580-04AS	AS	05/21/07 16:27	WI070507-2	50	6	48.9	mg/L	85.8	90	110			M2
WG224949CCV2	CCV	05/21/07 17:25	WI070507-1	100		91.9	mg/L	91.9	90	110			
WG224949CCB2	CCB	05/21/07 17:39				U	mg/L		-3	3			
WG224949LFB2	LFB	05/21/07 19:04	WI070507-2	50		45.9	mg/L	91.8	90	110			
WG224949CCV3	CCV	05/21/07 20:15	WI070507-1	100		91.4	mg/L	91.4	90	110			
WG224949CCB3	CCB	05/21/07 20:30				U	mg/L		-3	3			
WG224949CCV4	CCV	05/21/07 22:38	WI070507-1	100		91.3	mg/L	91.3	90	110			
WG224949CCB4	CCB	05/21/07 22:53				U	mg/L		-3	3			

Chromium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05061	mg/L	101.2	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0003	0.0003			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05092	mg/L	101.8	85	115			
L62586-01AS	AS	05/17/07 18:43	MS070425-3	.05	.0006	.05243	mg/L	103.7	70	130			
L62586-01ASD	ASD	05/17/07 18:48	MS070425-3	.05	.0006	.04965	mg/L	98.1	70	130	5.45	20	
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.1		.09813	mg/L	98.1	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0003	0.0003			
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.1		.09675	mg/L	96.8	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0003	0.0003			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.1		.09422	mg/L	94.2	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0003	0.0003			

Copper, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05144	mg/L	102.9	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0015	0.0015			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05078	mg/L	101.6	85	115			
L62586-01AS	AS	05/17/07 18:43	MS070425-3	.05	.0006	.05032	mg/L	99.4	70	130			
L62586-01ASD	ASD	05/17/07 18:48	MS070425-3	.05	.0006	.04718	mg/L	93.2	70	130	6.44	20	
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.25		.2427	mg/L	97.1	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0015	0.0015			
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.25		.2401	mg/L	96	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0015	0.0015			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.25		.234	mg/L	93.6	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0015	0.0015			

ACZ Laboratories, Inc.
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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62587***

Project ID: 91556003620645010700

Lead, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05295	mg/L	105.9	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0003	0.0003			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05069	mg/L	101.4	85	115			
L62586-01AS	AS	05/17/07 18:43	MS070425-3	.05	.0001	.05123	mg/L	102.3	70	130			
L62586-01ASD	ASD	05/17/07 18:48	MS070425-3	.05	.0001	.05178	mg/L	103.4	70	130	1.07	20	
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.25		.2611	mg/L	104.4	90	110			
WG224901CCB1	CCB	05/17/07 19:23				.00019	mg/L		-0.0003	0.0003			
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.25		.2708	mg/L	108.3	90	110			
WG224901CCB2	CCB	05/17/07 20:17				.00011	mg/L		-0.0003	0.0003			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.25		.273	mg/L	109.2	90	110			
WG224901CCB3	CCB	05/17/07 20:48				.00013	mg/L		-0.0003	0.0003			

Magnesium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225167													
WG225167ICV	ICV	05/22/07 21:42	II070518-6	100		98.15	mg/L	98.2	95	105			
WG225167ICB	ICB	05/22/07 21:46				U	mg/L		-0.6	0.6			
WG225167PQV	PQV	05/22/07 21:50	II070518-5	1		1.02	mg/L	102	70	130			
WG225167SIC	SIC	05/22/07 21:55	II070518-3	201		198.93	mg/L	99	1	200			
WG225167LFB	LFB	05/22/07 22:03	II070516-3	54.96149		55.78	mg/L	101.5	85	115			
WG225167CCV1	CCV	05/22/07 22:33	II070518-7	50		50.16	mg/L	100.3	90	110			
WG225167CCB1	CCB	05/22/07 22:37				U	mg/L		-0.6	0.6			
L62586-01AS	AS	05/22/07 23:11	II070516-3	54.96149	11.4	70.18	mg/L	106.9	85	115			
L62586-01ASD	ASD	05/22/07 23:15	II070516-3	54.96149	11.4	70.33	mg/L	107.2	85	115	0.21	20	
WG225167CCV2	CCV	05/22/07 23:23	II070518-7	50		51.7	mg/L	103.4	90	110			
WG225167CCB2	CCB	05/22/07 23:28				U	mg/L		-0.6	0.6			
WG225167CCV3	CCV	05/23/07 0:05	II070518-7	50		51.73	mg/L	103.5	90	110			
WG225167CCB3	CCB	05/23/07 0:10				U	mg/L		-0.6	0.6			

Nickel, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05117	mg/L	102.3	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0018	0.0018			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05225	mg/L	104.5	85	115			
L62586-01AS	AS	05/17/07 18:43	MS070425-3	.05	.001	.05143	mg/L	100.9	70	130			
L62586-01ASD	ASD	05/17/07 18:48	MS070425-3	.05	.001	.04837	mg/L	94.7	70	130	6.13	20	
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.25		.2415	mg/L	96.6	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0018	0.0018			
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.25		.2436	mg/L	97.4	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0018	0.0018			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.25		.2375	mg/L	95	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0018	0.0018			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62587***

Project ID: 91556003620645010700

Nitrate/Nitrite as N, dissolved M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224770													
WG224770ICV	ICV	05/15/07 18:28	WI070308-3	2.416		2.406	mg/L	99.6	90	110			
WG224770ICB	ICB	05/15/07 18:29				U	mg/L		-0.06	0.06			
WG224771													
WG224771ICV	ICV	05/15/07 18:48	WI070308-3	2.416		2.393	mg/L	99	90	110			
WG224771ICB	ICB	05/15/07 18:49				U	mg/L		-0.06	0.06			
WG224771LFB1	LFB	05/15/07 18:50	WI070307-9	2		2.016	mg/L	100.8	90	110			
WG224771CCV1	CCV	05/15/07 19:03	WI070515-1	2		1.974	mg/L	98.7	90	110			
WG224771CCB1	CCB	05/15/07 19:05				U	mg/L		-0.06	0.06			
L62586-04AS	AS	05/15/07 19:11	WI070307-9	2	U	2.127	mg/L	106.4	90	110			
L62586-05DUP	DUP	05/15/07 19:14			U	U	mg/L				0	20	RA
WG224771CCV2	CCV	05/15/07 19:19	WI070515-1	2		1.967	mg/L	98.4	90	110			
WG224771CCB2	CCB	05/15/07 19:21				U	mg/L		-0.06	0.06			
WG224771LFB2	LFB	05/15/07 19:28	WI070307-9	2		2.009	mg/L	100.5	90	110			
WG224771CCV3	CCV	05/15/07 19:34	WI070515-1	2		1.964	mg/L	98.2	90	110			
WG224771CCB3	CCB	05/15/07 19:37				U	mg/L		-0.06	0.06			
WG224771CCV4	CCV	05/15/07 19:50	WI070515-1	2		1.978	mg/L	98.9	90	110			
WG224771CCB4	CCB	05/15/07 19:53				U	mg/L		-0.06	0.06			
WG224771CCV5	CCV	05/15/07 20:30	WI070515-1	2		1.957	mg/L	97.9	90	110			
WG224771CCB5	CCB	05/15/07 20:32				U	mg/L		-0.06	0.06			
WG224771CCV6	CCV	05/15/07 20:42	WI070515-1	2		1.957	mg/L	97.9	90	110			
WG224771CCB6	CCB	05/15/07 20:44				U	mg/L		-0.06	0.06			

Phosphorus, total M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225457													
WG225355ICV	ICV	05/26/07 16:30	WI070329-1	.65228		.597	mg/L	91.5	90	110			
WG225355ICB	ICB	05/26/07 16:32				U	mg/L		-0.03	0.03			
WG225355LRB1	LRB	05/26/07 16:33				U	mg/L		-0.03	0.03			
WG225355LFB1	LFB	05/26/07 16:34	WI070510-2	.5		.456	mg/L	91.2	90	110			
L62586-01LFM	LFM	05/26/07 16:37	WI070510-2	.5	.07	.489	mg/L	83.8	90	110			M2
L62586-02DUP	DUP	05/26/07 16:39			.21	.222	mg/L				5.6	20	
WG225355CCV1	CCV	05/26/07 16:45	WI070510-2	.5		.498	mg/L	99.6	90	110			
WG225355CCB1	CCB	05/26/07 16:46				U	mg/L		-0.03	0.03			
WG225355CCV2	CCV	05/26/07 16:58	WI070510-2	.5		.508	mg/L	101.6	90	110			
WG225355CCB2	CCB	05/26/07 16:59				U	mg/L		-0.03	0.03			
WG225355LRB2	LRB	05/26/07 17:07				U	mg/L		-0.03	0.03			
WG225355LFB2	LFB	05/26/07 17:08	WI070510-2	.5		.464	mg/L	92.8	90	110			
WG225355CCV3	CCV	05/26/07 17:12	WI070510-2	.5		.513	mg/L	102.6	90	110			
WG225355CCB3	CCB	05/26/07 17:13				U	mg/L		-0.03	0.03			
WG225355CCV4	CCV	05/26/07 17:25	WI070510-2	.5		.515	mg/L	103	90	110			
WG225355CCB4	CCB	05/26/07 17:26				U	mg/L		-0.03	0.03			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62587***

Project ID: 91556003620645010700

Residue, Non-Filterable (TSS) @105C M160.2 - Gravimetric

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224759													
WG224759PBW	PBW	05/15/07 15:45				U	mg/L		-15	15			
WG224759LCSW	LCSW	05/15/07 15:47	PCN27104	152		142	mg/L	93.4	80	120			
L62587-02DUP	DUP	05/15/07 16:39			U	U	mg/L				0	20	RA
WG224882													
WG224882PBW	PBW	05/17/07 14:10				U	mg/L		-15	15			
WG224882LCSW	LCSW	05/17/07 14:12	PCN27104	152		132	mg/L	86.8	80	120			
L62623-02DUP	DUP	05/17/07 14:36			U	U	mg/L				0	20	RA

Selenium, total SM 3114 B, AA-Hydride

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225093													
WG225093ICV	ICV	05/24/07 14:36	II070521-1	.025		.0266	mg/L	106.4	90	110			
WG225093ICB	ICB	05/24/07 14:38				U	mg/L		-0.003	0.003			
WG225093LRB	LRB	05/24/07 14:39				U	mg/L		-0.003	0.003			
WG225093LFB	LFB	05/24/07 14:41	II070515-2	.02		.0193	mg/L	96.5	85	115			
WG225093CCV1	CCV	05/24/07 14:55	II070521-1	.025		.0256	mg/L	102.4	90	110			
WG225093CCB1	CCB	05/24/07 14:57				U	mg/L		-0.003	0.003			
L62586-04LFM	LFM	05/24/07 15:03	II070515-2	.02	.005	.0262	mg/L	106	85	115			
L62586-04LFMD	LFMD	05/24/07 15:05	II070515-2	.02	.005	.0248	mg/L	99	85	115	5.49	20	
WG225093CCV2	CCV	05/24/07 15:15	II070521-1	.025		.0257	mg/L	102.8	90	110			
WG225093CCB2	CCB	05/24/07 15:16				U	mg/L		-0.003	0.003			
WG225093CCV3	CCV	05/24/07 15:28	II070521-1	.025		.0253	mg/L	101.2	90	110			
WG225093CCB3	CCB	05/24/07 15:29				U	mg/L		-0.003	0.003			
WG225093CCV4	CCV	05/24/07 15:44	II070521-1	.025		.0259	mg/L	103.6	90	110			
WG225093CCB4	CCB	05/24/07 15:45				U	mg/L		-0.003	0.003			

Silver, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.02006		.01868	mg/L	93.1	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.00015	0.00015			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.0125375		.01221	mg/L	97.4	85	115			
L62586-01AS	AS	05/17/07 18:43	MS070425-3	.0125375	U	.0117	mg/L	93.3	70	130			
L62586-01ASD	ASD	05/17/07 18:48	MS070425-3	.0125375	U	.01199	mg/L	95.6	70	130	2.45	20	
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.025075		.02441	mg/L	97.3	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.00015	0.00015			
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.025075		.02353	mg/L	93.8	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.00015	0.00015			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.025075		.0228	mg/L	90.9	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.00015	0.00015			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62587***

Project ID: 91556003620645010700

Vanadium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05152	mg/L	103	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0006	0.0006			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05002	mg/L	100	85	115			
L62586-01AS	AS	05/17/07 18:43	MS070425-3	.05	.0013	.05305	mg/L	103.5	70	130			
L62586-01ASD	ASD	05/17/07 18:48	MS070425-3	.05	.0013	.05003	mg/L	97.5	70	130	5.86	20	
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.1		.09961	mg/L	99.6	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0006	0.0006			
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.1		.1	mg/L	100	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0006	0.0006			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.1		.09633	mg/L	96.3	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0006	0.0006			

Zinc, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225415													
WG225415ICV	ICV	05/25/07 21:50	II070518-6	2		1.922	mg/L	96.1	95	105			
WG225415ICB	ICB	05/25/07 21:54				U	mg/L		-0.03	0.03			
WG225415PQV	PQV	05/25/07 21:58	II070518-5	.05		.053	mg/L	106	70	130			
WG225415SIC	SIC	05/25/07 22:02	II070518-3	.1		.113	mg/L	113	80	120			
WG225415LFB	LFB	05/25/07 22:11	II070516-3	.5		.509	mg/L	101.8	85	115			
L62569-01AS	AS	05/25/07 22:19	II070516-3	.5	.01	.542	mg/L	106.4	85	115			
L62569-01ASD	ASD	05/25/07 22:23	II070516-3	.5	.01	.527	mg/L	103.4	85	115	2.81	20	
WG225415CCV1	CCV	05/25/07 22:40	II070518-7	1		1.003	mg/L	100.3	90	110			
WG225415CCB1	CCB	05/25/07 22:44				U	mg/L		-0.03	0.03			
L62587-03AS	AS	05/25/07 23:17	II070516-3	.5	U	.514	mg/L	102.8	85	115			
L62587-03ASD	ASD	05/25/07 23:21	II070516-3	.5	U	.544	mg/L	108.8	85	115	5.67	20	
WG225415CCV2	CCV	05/25/07 23:29	II070518-7	1		.993	mg/L	99.3	90	110			
WG225415CCB2	CCB	05/25/07 23:33				U	mg/L		-0.03	0.03			
WG225415CCV3	CCV	05/26/07 0:11	II070518-7	1		1	mg/L	100	90	110			
WG225415CCB3	CCB	05/26/07 0:15				U	mg/L		-0.03	0.03			

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Extended Qualifier Report

Idaho Dept of Environmental Quality ACZ Project ID: ***L62587***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L62587-01	WG224949	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224771	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225457	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
	WG224759	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L62587-02	WG224949	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224771	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225457	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
	WG224759	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L62587-03	WG224949	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224771	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225457	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
	WG224882	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L62587-04	WG224949	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224771	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225457	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
	WG224882	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Certification Qualifiers

Idaho Dept of Environmental Quality ACZ Project ID: ***L62587***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Idaho Dept of Environmental Quality
91556003620645010700

ACZ Project ID: L62587
Date Received: 5/15/2007
Received By:
Date Printed: 5/15/2007

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?	X		
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?		X	
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?			X
11) Are the trip blanks (VOA and/or Cyanide) present?			X
12) Are samples requiring no headspace, headspace free?			X
13) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

The Nitrate/Nitrite analysis was received past hold for all samples.

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id		Temp (°C)	Rad (µR/hr)
383		4.3	16

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Idaho Dept of Environmental Quality
91556003620645010700

ACZ Project ID: L62587
Date Received: 5/15/2007
Received By:

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	O < 2	T >12	N/A	RAD	ID
L62587-01	SLUG CR	Y	Y		Y							
L62587-02	GEORGETOWN CR ABOVE	Y	Y		Y							
L62587-03	DIAMOND CR	Y	Y		Y							
L62587-04	BLACKFOOTR@CHINAHAT	Y	Y		Y							

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: _____

ACZ Laboratories, Inc. L62587 **CHAIN of CUSTODY**

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Greg Mladenka
Company: Idaho DEQ
E-mail: greg.mladenka@deq.idaho.gov
Address: 444 Hospital Way, Suite 300 Pocatello, ID 83201
Telephone: 208-236-6160 / 251-9941 (c)

Copy of Report to:

Name: Lynn Van Every
Company: Idaho DEQ
E-mail: Lynn.Vanevery@deq.idaho.gov
Telephone: 208-236-6160

Invoice to:

Name: Kasey Guthrie
Company: IDEQ
E-mail: Kasey.guthrie@deq.idaho.gov
Address: Same
Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

PROJECT INFORMATION

Quote #: 4-DAY-AVE
Project/PO #: 9655 6003 62064 5010 700
Reporting state for compliance testing: ID
Sampler's Name: Greg Mladenka
Are any samples NRC licensable material? NO

ANALYSES REQUESTED *(attach list or use quote number)*

QUOTE

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers
Slug Cr.	5/10/07 : comp	SW	5
Georgetown Cr. above mining	5/10/07:		
Diamond Cr.	5/11/07		
Blackfoot R @ China Hat	5/11/07		

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
[signature]	5/14/07 1400	JMC 5/15/07	

FRMAD050.03.05.02 White - Return with sample. Yellow - Retain for your records.

L62587: Page 17 of 17

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Short Holdtime

Idaho Dept of Environmental Quality ACZ Project ID: ***L62587***
Project ID: 91556003620645010700

Samplenum	ClientID	Collectdate	Receivedate	Prod	Holddays	Holddate	Past?
L62587-01	SLUG CR	05/10/07 0:00	05/15/07	TSS	7	05/17/07 23:59	SHORT
L62587-01	SLUG CR	05/10/07 0:00	05/15/07	N-NO3NO2	2	05/12/07 0:00	PAST
L62587-02	EORGETOWN CR ABOVE	05/10/07 0:00	05/15/07	TSS	7	05/17/07 23:59	SHORT
L62587-02	EORGETOWN CR ABOVE	05/10/07 0:00	05/15/07	N-NO3NO2	2	05/12/07 0:00	PAST
L62587-03	DIAMOND CR	05/11/07 0:00	05/15/07	N-NO3NO2	2	05/13/07 0:00	PAST
L62587-04	_ACKFOOTR@CHINAHA	05/11/07 0:00	05/15/07	N-NO3NO2	2	05/13/07 0:00	PAST

IDDEQ L62587

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 05/15/07 18:09

Account Code: IDDEQ
ACZ Project ID: L62587
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62587-01

Client ID:	SLUG CR	Priority:	-	Sampled:	5/10/2007
Quote Num	4-DAY-AVE	Due:	5/28/2007	Received:	5/15/2007
Locator:		Site:	91556003620645010700		

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digesl	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

IDDEQ L62587

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 05/15/07 18:09

Account Code: IDDEQ
ACZ Project ID: L62587
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62587-02

Client ID:	GEORGETOWN CR ABO	Priority:	-	Sampled:	5/10/2007
Quote Num	4-DAY-AVE	Due:	5/28/2007	Received:	5/15/2007
Locator:		Site:	91556003620645010700		

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digesl	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

IDDEQ L62587

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 05/15/07 18:09

Account Code: IDDEQ
ACZ Project ID: L62587
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62587-03

Client ID: DIAMOND CR
Quote Num 4-DAY-AVE
Locator:

Priority: -
Due: 5/28/2007
Site: 91556003620645010700

Sampled: 5/11/2007
Received: 5/15/2007

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digesl	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

IDDEQ L62587

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 05/15/07 18:09

Account Code: IDDEQ
ACZ Project ID: L62587
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62587-04

Client ID: BLACKFOOTR@CHINAH
Quote Num 4-DAY-AVE
Locator:

Priority: -
Due: 5/28/2007
Site: 91556003620645010700

Sampled: 5/11/2007
Received: 5/15/2007

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digesl	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

CLIENT SAMPLE ID REVIEW	COC SCANNED	LOGIN REVIEW	FINAL PDFS EMAILED
Signature: _____	Signature: _____	Signature: _____	Signature: _____
Date: _____	Date: _____	Date: _____	Date: _____

Analytical Report for Project Number L62588

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

May 30, 2007

Report to:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way Suite 300
Pocatello, ID 83201

Bill to:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way Suite 300
Pocatello, ID 83201

cc: Lynn Van Every

Project ID: 915560036206450107OO
ACZ Project ID: L62588

Greg Mladenka:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 15, 2007. This project has been assigned to ACZ's project number, L62588. Please reference this number in all future inquiries.

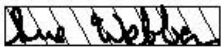
All analyses were performed according to ACZ's Quality Assurance Plan, version 11.0. The enclosed results relate only to the samples received under L62588. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after June 30, 2007. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than $10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.



30/May/07

Sue Webber, Project Manager, has reviewed and approved this report in its entirety.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: SHEEP CR

ACZ Sample ID: ***L62588-01***
Date Sampled: *05/11/07 00:00*
Date Received: *05/15/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/18/07 17:59	lbn

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 19:37	jjr
Calcium, dissolved	M200.7 ICP	55.9			mg/L	0.2	1	05/23/07 0:01	djt
Chromium, dissolved	M200.8 ICP-MS	0.0005	B		mg/L	0.0001	0.0005	05/17/07 19:37	jjr
Copper, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.003	05/17/07 19:37	jjr
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 19:37	jjr
Magnesium, dissolved	M200.7 ICP	11.6			mg/L	0.2	1	05/23/07 0:01	djt
Nickel, dissolved	M200.8 ICP-MS	0.0019	B		mg/L	0.0006	0.003	05/17/07 19:37	jjr
Selenium, total	SM 3114 B, AA-Hydride	0.003	B		mg/L	0.001	0.005	05/24/07 15:18	wfg
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 19:37	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0010			mg/L	0.0002	0.001	05/17/07 19:37	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/25/07 23:37	wfg

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		157			mg/L	2	20	05/24/07 0:00	wpa
Carbonate as CaCO3		4	B		mg/L	2	20	05/24/07 0:00	wpa
Hydroxide as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Total Alkalinity		161		*	mg/L	2	20	05/24/07 0:00	wpa
Carbon, total organic (TOC)	M415.1 Combustion/IR	2	B	*	mg/L	1	5	05/21/07 18:50	nps
Hardness as CaCO3	SM2340B - Calculation	187			mg/L	1	7	05/30/07 10:08	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.03	BH	*	mg/L	0.02	0.1	05/15/07 19:23	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.06		*	mg/L	0.01	0.05	05/19/07 19:05	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric		U	*	mg/L	5	20	05/16/07 13:28	aeh

** Please refer to Qualifier Reports for detail.*

ACZ Laboratories, Inc.
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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: BLACKFOOTR@MONSAN

ACZ Sample ID: ***L62588-02***
Date Sampled: *05/10/07 00:00*
Date Received: *05/15/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/18/07 18:08	lbn

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 19:41	jjr
Calcium, dissolved	M200.7 ICP	57.2			mg/L	0.2	1	05/23/07 1:01	djt
Chromium, dissolved	M200.8 ICP-MS	0.0004	B		mg/L	0.0001	0.0005	05/17/07 19:41	jjr
Copper, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.003	05/17/07 19:41	jjr
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 19:41	jjr
Magnesium, dissolved	M200.7 ICP	11.2			mg/L	0.2	1	05/23/07 1:01	djt
Nickel, dissolved	M200.8 ICP-MS	0.0009	B		mg/L	0.0006	0.003	05/17/07 19:41	jjr
Selenium, total	SM 3114 B, AA-Hydride	0.006			mg/L	0.001	0.005	05/24/07 15:20	wfg
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 19:41	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0013			mg/L	0.0002	0.001	05/17/07 19:41	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/23/07 17:10	djt

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		172			mg/L	2	20	05/24/07 0:00	wpa
Carbonate as CaCO3		10	B		mg/L	2	20	05/24/07 0:00	wpa
Hydroxide as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Total Alkalinity		182		*	mg/L	2	20	05/24/07 0:00	wpa
Carbon, total organic (TOC)	M415.1 Combustion/IR	4	B	*	mg/L	1	5	05/21/07 19:19	nps
Hardness as CaCO3	SM2340B - Calculation	189			mg/L	1	7	05/30/07 10:08	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.02	0.1	05/15/07 19:25	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.06		*	mg/L	0.01	0.05	05/19/07 19:08	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric		U	*	mg/L	5	20	05/16/07 13:30	aeh

ACZ Laboratories, Inc.
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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: BLACKFOOTR@TRAIL CR

ACZ Sample ID: ***L62588-03***
Date Sampled: *05/11/07 00:00*
Date Received: *05/15/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/18/07 18:17	lbn

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 19:55	jjr
Calcium, dissolved	M200.7 ICP	58.8			mg/L	0.2	1	05/23/07 1:13	djt
Chromium, dissolved	M200.8 ICP-MS	0.0004	B		mg/L	0.0001	0.0005	05/17/07 19:55	jjr
Copper, dissolved	M200.8 ICP-MS	0.0005	B		mg/L	0.0005	0.003	05/17/07 19:55	jjr
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 19:55	jjr
Magnesium, dissolved	M200.7 ICP	11.6			mg/L	0.2	1	05/23/07 1:13	djt
Nickel, dissolved	M200.8 ICP-MS	0.0009	B		mg/L	0.0006	0.003	05/17/07 19:55	jjr
Selenium, total	SM 3114 B, AA-Hydride	0.005			mg/L	0.001	0.005	05/24/07 15:21	wfg
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 19:55	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0011			mg/L	0.0002	0.001	05/17/07 19:55	jjr
Zinc, dissolved	M200.7 ICP	0.02	B		mg/L	0.01	0.05	05/23/07 17:23	djt

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		177			mg/L	2	20	05/24/07 0:00	wpa
Carbonate as CaCO3		8	B		mg/L	2	20	05/24/07 0:00	wpa
Hydroxide as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Total Alkalinity		185		*	mg/L	2	20	05/24/07 0:00	wpa
Carbon, total organic (TOC)	M415.1 Combustion/IR	3	B	*	mg/L	1	5	05/21/07 19:47	nps
Hardness as CaCO3	SM2340B - Calculation	195			mg/L	1	7	05/30/07 10:08	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.02	0.1	05/15/07 19:26	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.05		*	mg/L	0.01	0.05	05/19/07 19:10	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric		U	*	mg/L	5	20	05/16/07 13:33	aeh

ACZ Laboratories, Inc.
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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: SPRING CR

ACZ Sample ID: ***L62588-04***
Date Sampled: *05/11/07 00:00*
Date Received: *05/15/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/24/07 13:04	nps

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 19:59	jjr
Calcium, dissolved	M200.7 ICP	58.8			mg/L	0.2	1	05/23/07 1:17	djt
Chromium, dissolved	M200.8 ICP-MS	0.0006			mg/L	0.0001	0.0005	05/17/07 19:59	jjr
Copper, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.003	05/17/07 19:59	jjr
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 19:59	jjr
Magnesium, dissolved	M200.7 ICP	11.9			mg/L	0.2	1	05/23/07 1:17	djt
Nickel, dissolved	M200.8 ICP-MS	0.0010	B		mg/L	0.0006	0.003	05/17/07 19:59	jjr
Selenium, total	SM 3114 B, AA-Hydride	0.026			mg/L	0.001	0.005	05/24/07 15:23	wfg
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 19:59	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0009	B		mg/L	0.0002	0.001	05/17/07 19:59	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/23/07 17:27	djt

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		177			mg/L	2	20	05/24/07 0:00	wpa
Carbonate as CaCO3		11	B		mg/L	2	20	05/24/07 0:00	wpa
Hydroxide as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Total Alkalinity		188		*	mg/L	2	20	05/24/07 0:00	wpa
Carbon, total organic (TOC)	M415.1 Combustion/IR	2	B	*	mg/L	1	5	05/21/07 20:44	nps
Hardness as CaCO3	SM2340B - Calculation	196			mg/L	1	7	05/30/07 10:08	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.02	0.1	05/15/07 19:27	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.04	B	*	mg/L	0.01	0.05	05/26/07 16:50	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric		U	*	mg/L	5	20	05/16/07 13:35	aeh

** Please refer to Qualifier Reports for detail.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Reference

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit, typically 5 times the MDL.
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calivation Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
U	Analyte was analyzed for but not detected at the indicated MDL

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(5)	EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
(6)	Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700

ACZ Project ID: ***L62588***

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225290													
WG225290LCSW2	LCSW	05/24/07 9:17	WC070523-1	820		800.3	mg/L	97.6	80	120			
L62636-11DUP	DUP	05/24/07 10:36			U	U	mg/L				0	20	RA
WG225290LCSW5	LCSW	05/24/07 12:09	WC070523-1	820		803.3	mg/L	98	80	120			

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05121	mg/L	102.4	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0003	0.0003			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05295	mg/L	105.9	85	115			
L62586-01AS	AS	05/17/07 18:43	MS070425-3	.05	U	.05381	mg/L	107.6	70	130			
L62586-01ASD	ASD	05/17/07 18:48	MS070425-3	.05	U	.05342	mg/L	106.8	70	130	0.73	20	
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.1		.09893	mg/L	98.9	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0003	0.0003			
L62588-02AS	AS	05/17/07 19:46	MS070425-3	.05	U	.054	mg/L	108	70	130			
L62588-02ASD	ASD	05/17/07 19:50	MS070425-3	.05	U	.05198	mg/L	104	70	130	3.81	20	
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.1		.09719	mg/L	97.2	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0003	0.0003			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.1		.09539	mg/L	95.4	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0003	0.0003			

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62588***

Project ID: 91556003620645010700

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225167													
WG225167ICV	ICV	05/22/07 21:42	II070518-6	100		99.98	mg/L	100	95	105			
WG225167ICB	ICB	05/22/07 21:46				U	mg/L		-0.6	0.6			
WG225167PQV	PQV	05/22/07 21:50	II070518-5	1		1.02	mg/L	102	70	130			
WG225167SIC	SIC	05/22/07 21:55	II070518-3	201		193.4	mg/L	96.2	1	200			
WG225167LFB	LFB	05/22/07 22:03	II070516-3	67.99189		69.23	mg/L	101.8	85	115			
WG225167CCV1	CCV	05/22/07 22:33	II070518-7	50		51.18	mg/L	102.4	90	110			
WG225167CCB1	CCB	05/22/07 22:37				U	mg/L		-0.6	0.6			
L62586-01AS	AS	05/22/07 23:11	II070516-3	67.99189	58.1	130.03	mg/L	105.8	85	115			
L62586-01ASD	ASD	05/22/07 23:15	II070516-3	67.99189	58.1	129.22	mg/L	104.6	85	115	0.62	20	
WG225167CCV2	CCV	05/22/07 23:23	II070518-7	50		52.89	mg/L	105.8	90	110			
WG225167CCB2	CCB	05/22/07 23:28				U	mg/L		-0.6	0.6			
WG225167CCV3	CCV	05/23/07 0:05	II070518-7	50		53.12	mg/L	106.2	90	110			
WG225167CCB3	CCB	05/23/07 0:10				U	mg/L		-0.6	0.6			
WG225170													
WG225170ICV	ICV	05/23/07 0:35	II070518-6	100		100.06	mg/L	100.1	95	105			
WG225170ICB	ICB	05/23/07 0:40				U	mg/L		-0.6	0.6			
WG225170PQV	PQV	05/23/07 0:44	II070518-5	1		1.02	mg/L	102	70	130			
WG225170SIC	SIC	05/23/07 0:48	II070518-3	201		195.9	mg/L	97.5	1	200			
WG225170LFB	LFB	05/23/07 0:56	II070516-3	67.99189		70.01	mg/L	103	85	115			
L62588-02AS	AS	05/23/07 1:05	II070516-3	67.99189	57.2	125.3	mg/L	100.2	85	115			
L62588-02ASD	ASD	05/23/07 1:09	II070516-3	67.99189	57.2	127.45	mg/L	103.3	85	115	1.7	20	
WG225170CCV1	CCV	05/23/07 1:26	II070518-7	50		52.76	mg/L	105.5	90	110			
WG225170CCB1	CCB	05/23/07 1:30				U	mg/L		-0.6	0.6			
WG225170CCV2	CCV	05/23/07 2:16	II070518-7	50		51.73	mg/L	103.5	90	110			
WG225170CCB2	CCB	05/23/07 2:20				U	mg/L		-0.6	0.6			
WG225170CCV3	CCV	05/23/07 2:58	II070518-7	50		52.17	mg/L	104.3	90	110			
WG225170CCB3	CCB	05/23/07 3:03				U	mg/L		-0.6	0.6			

Carbon, total organic (TOC) M415.1 Combustion/IR

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224949													
WG224949ICV	ICV	05/21/07 11:41	WI070426-1	75		68.1	mg/L	90.8	90	110			
WG224949ICB	ICB	05/21/07 11:56				U	mg/L		-3	3			
WG224949LFB1	LFB	05/21/07 12:10	WI070507-2	50		47.7	mg/L	95.4	90	110			
WG224949CCV1	CCV	05/21/07 14:33	WI070507-1	100		91.4	mg/L	91.4	90	110			
WG224949CCB1	CCB	05/21/07 14:47				U	mg/L		-3	3			
L62580-03DUP	DUP	05/21/07 15:59			3	3	mg/L				0	20	RA
L62580-04AS	AS	05/21/07 16:27	WI070507-2	50	6	48.9	mg/L	85.8	90	110			M2
WG224949CCV2	CCV	05/21/07 17:25	WI070507-1	100		91.9	mg/L	91.9	90	110			
WG224949CCB2	CCB	05/21/07 17:39				U	mg/L		-3	3			
WG224949LFB2	LFB	05/21/07 19:04	WI070507-2	50		45.9	mg/L	91.8	90	110			
L62588-02DUP	DUP	05/21/07 19:33			4	3.2	mg/L				22.2	20	RA
L62588-03AS	AS	05/21/07 20:01	WI070507-2	50	3	45	mg/L	84	90	110			M2
WG224949CCV3	CCV	05/21/07 20:15	WI070507-1	100		91.4	mg/L	91.4	90	110			
WG224949CCB3	CCB	05/21/07 20:30				U	mg/L		-3	3			
WG224949CCV4	CCV	05/21/07 22:38	WI070507-1	100		91.3	mg/L	91.3	90	110			
WG224949CCB4	CCB	05/21/07 22:53				U	mg/L		-3	3			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62588***

Project ID: 91556003620645010700

Chromium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05061	mg/L	101.2	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0003	0.0003			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05092	mg/L	101.8	85	115			
L62586-01AS	AS	05/17/07 18:43	MS070425-3	.05	.0006	.05243	mg/L	103.7	70	130			
L62586-01ASD	ASD	05/17/07 18:48	MS070425-3	.05	.0006	.04965	mg/L	98.1	70	130	5.45	20	
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.1		.09813	mg/L	98.1	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0003	0.0003			
L62588-02AS	AS	05/17/07 19:46	MS070425-3	.05	.0004	.05534	mg/L	109.9	70	130			
L62588-02ASD	ASD	05/17/07 19:50	MS070425-3	.05	.0004	.05148	mg/L	102.2	70	130	7.23	20	
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.1		.09675	mg/L	96.8	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0003	0.0003			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.1		.09422	mg/L	94.2	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0003	0.0003			

Copper, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05144	mg/L	102.9	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0015	0.0015			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05078	mg/L	101.6	85	115			
L62586-01AS	AS	05/17/07 18:43	MS070425-3	.05	.0006	.05032	mg/L	99.4	70	130			
L62586-01ASD	ASD	05/17/07 18:48	MS070425-3	.05	.0006	.04718	mg/L	93.2	70	130	6.44	20	
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.25		.2427	mg/L	97.1	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0015	0.0015			
L62588-02AS	AS	05/17/07 19:46	MS070425-3	.05	U	.05323	mg/L	106.5	70	130			
L62588-02ASD	ASD	05/17/07 19:50	MS070425-3	.05	U	.04958	mg/L	99.2	70	130	7.1	20	
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.25		.2401	mg/L	96	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0015	0.0015			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.25		.234	mg/L	93.6	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0015	0.0015			

Lead, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05295	mg/L	105.9	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0003	0.0003			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05069	mg/L	101.4	85	115			
L62586-01AS	AS	05/17/07 18:43	MS070425-3	.05	.0001	.05123	mg/L	102.3	70	130			
L62586-01ASD	ASD	05/17/07 18:48	MS070425-3	.05	.0001	.05178	mg/L	103.4	70	130	1.07	20	
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.25		.2611	mg/L	104.4	90	110			
WG224901CCB1	CCB	05/17/07 19:23				.00019	mg/L		-0.0003	0.0003			
L62588-02AS	AS	05/17/07 19:46	MS070425-3	.05	U	.0571	mg/L	114.2	70	130			
L62588-02ASD	ASD	05/17/07 19:50	MS070425-3	.05	U	.05437	mg/L	108.7	70	130	4.9	20	
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.25		.2708	mg/L	108.3	90	110			
WG224901CCB2	CCB	05/17/07 20:17				.00011	mg/L		-0.0003	0.0003			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.25		.273	mg/L	109.2	90	110			
WG224901CCB3	CCB	05/17/07 20:48				.00013	mg/L		-0.0003	0.0003			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62588***

Project ID: 91556003620645010700

Magnesium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225167													
WG225167ICV	ICV	05/22/07 21:42	II070518-6	100		98.15	mg/L	98.2	95	105			
WG225167ICB	ICB	05/22/07 21:46				U	mg/L		-0.6	0.6			
WG225167PQV	PQV	05/22/07 21:50	II070518-5	1		1.02	mg/L	102	70	130			
WG225167SIC	SIC	05/22/07 21:55	II070518-3	201		198.93	mg/L	99	1	200			
WG225167LFB	LFB	05/22/07 22:03	II070516-3	54.96149		55.78	mg/L	101.5	85	115			
WG225167CCV1	CCV	05/22/07 22:33	II070518-7	50		50.16	mg/L	100.3	90	110			
WG225167CCB1	CCB	05/22/07 22:37				U	mg/L		-0.6	0.6			
L62586-01AS	AS	05/22/07 23:11	II070516-3	54.96149	11.4	70.18	mg/L	106.9	85	115			
L62586-01ASD	ASD	05/22/07 23:15	II070516-3	54.96149	11.4	70.33	mg/L	107.2	85	115	0.21	20	
WG225167CCV2	CCV	05/22/07 23:23	II070518-7	50		51.7	mg/L	103.4	90	110			
WG225167CCB2	CCB	05/22/07 23:28				U	mg/L		-0.6	0.6			
WG225167CCV3	CCV	05/23/07 0:05	II070518-7	50		51.73	mg/L	103.5	90	110			
WG225167CCB3	CCB	05/23/07 0:10				U	mg/L		-0.6	0.6			
WG225170													
WG225170ICV	ICV	05/23/07 0:35	II070518-6	100		98.39	mg/L	98.4	95	105			
WG225170ICB	ICB	05/23/07 0:40				U	mg/L		-0.6	0.6			
WG225170PQV	PQV	05/23/07 0:44	II070518-5	1		1.02	mg/L	102	70	130			
WG225170SIC	SIC	05/23/07 0:48	II070518-3	201		201.33	mg/L	100.2	1	200			
WG225170LFB	LFB	05/23/07 0:56	II070516-3	54.96149		56.41	mg/L	102.6	85	115			
L62588-02AS	AS	05/23/07 1:05	II070516-3	54.96149	11.2	67.6	mg/L	102.6	85	115			
L62588-02ASD	ASD	05/23/07 1:09	II070516-3	54.96149	11.2	68.82	mg/L	104.8	85	115	1.79	20	
WG225170CCV1	CCV	05/23/07 1:26	II070518-7	50		51.22	mg/L	102.4	90	110			
WG225170CCB1	CCB	05/23/07 1:30				U	mg/L		-0.6	0.6			
WG225170CCV2	CCV	05/23/07 2:16	II070518-7	50		50.68	mg/L	101.4	90	110			
WG225170CCB2	CCB	05/23/07 2:20				U	mg/L		-0.6	0.6			
WG225170CCV3	CCV	05/23/07 2:58	II070518-7	50		50.92	mg/L	101.8	90	110			
WG225170CCB3	CCB	05/23/07 3:03				U	mg/L		-0.6	0.6			

Nickel, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05117	mg/L	102.3	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0018	0.0018			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05225	mg/L	104.5	85	115			
L62586-01AS	AS	05/17/07 18:43	MS070425-3	.05	.001	.05143	mg/L	100.9	70	130			
L62586-01ASD	ASD	05/17/07 18:48	MS070425-3	.05	.001	.04837	mg/L	94.7	70	130	6.13	20	
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.25		.2415	mg/L	96.6	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0018	0.0018			
L62588-02AS	AS	05/17/07 19:46	MS070425-3	.05	.0009	.05341	mg/L	105	70	130			
L62588-02ASD	ASD	05/17/07 19:50	MS070425-3	.05	.0009	.05032	mg/L	98.8	70	130	5.96	20	
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.25		.2436	mg/L	97.4	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0018	0.0018			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.25		.2375	mg/L	95	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0018	0.0018			

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Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700

ACZ Project ID: ***L62588***

Nitrate/Nitrite as N, dissolved M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224770													
WG224770ICV	ICV	05/15/07 18:28	WI070308-3	2.416		2.406	mg/L	99.6	90	110			
WG224770ICB	ICB	05/15/07 18:29				U	mg/L		-0.06	0.06			
WG224771													
WG224771ICV	ICV	05/15/07 18:48	WI070308-3	2.416		2.393	mg/L	99	90	110			
WG224771ICB	ICB	05/15/07 18:49				U	mg/L		-0.06	0.06			
WG224771LFB1	LFB	05/15/07 18:50	WI070307-9	2		2.016	mg/L	100.8	90	110			
WG224771CCV1	CCV	05/15/07 19:03	WI070515-1	2		1.974	mg/L	98.7	90	110			
WG224771CCB1	CCB	05/15/07 19:05				U	mg/L		-0.06	0.06			
L62586-04AS	AS	05/15/07 19:11	WI070307-9	2	U	2.127	mg/L	106.4	90	110			
L62586-05DUP	DUP	05/15/07 19:14			U	U	mg/L				0	20	RA
WG224771CCV2	CCV	05/15/07 19:19	WI070515-1	2		1.967	mg/L	98.4	90	110			
WG224771CCB2	CCB	05/15/07 19:21				U	mg/L		-0.06	0.06			
WG224771LFB2	LFB	05/15/07 19:28	WI070307-9	2		2.009	mg/L	100.5	90	110			
WG224771CCV3	CCV	05/15/07 19:34	WI070515-1	2		1.964	mg/L	98.2	90	110			
WG224771CCB3	CCB	05/15/07 19:37				U	mg/L		-0.06	0.06			
WG224771CCV4	CCV	05/15/07 19:50	WI070515-1	2		1.978	mg/L	98.9	90	110			
WG224771CCB4	CCB	05/15/07 19:53				U	mg/L		-0.06	0.06			
WG224771CCV5	CCV	05/15/07 20:30	WI070515-1	2		1.957	mg/L	97.9	90	110			
WG224771CCB5	CCB	05/15/07 20:32				U	mg/L		-0.06	0.06			
WG224771CCV6	CCV	05/15/07 20:42	WI070515-1	2		1.957	mg/L	97.9	90	110			
WG224771CCB6	CCB	05/15/07 20:44				U	mg/L		-0.06	0.06			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62588***

Project ID: 91556003620645010700

Phosphorus, total M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225028													
WG225004ICV	ICV	05/19/07 18:16	WI070329-1	.65228		.679	mg/L	104.1	90	110			
WG225004ICB	ICB	05/19/07 18:18				U	mg/L		-0.03	0.03			
WG225028ICV1	ICV	05/19/07 19:00	WI070329-1	.65228		.675	mg/L	103.5	90	110			
WG225028ICB1	ICB	05/19/07 19:02				U	mg/L		-0.03	0.03			
WG225004LRB	LRB	05/19/07 19:03				U	mg/L		-0.03	0.03			
WG225004LFB	LFB	05/19/07 19:04	WI070510-2	.5		.524	mg/L	104.8	90	110			
L62588-01LFM	LFM	05/19/07 19:06	WI070510-2	.5	.06	.603	mg/L	108.6	90	110			
L62588-02DUP	DUP	05/19/07 19:09			.06	.055	mg/L				8.7	20	RA
WG225004CCV1	CCV	05/19/07 19:14	WI070510-2	.5		.496	mg/L	99.2	90	110			
WG225004CCB1	CCB	05/19/07 19:16				U	mg/L		-0.03	0.03			
WG225004CCV2	CCV	05/19/07 19:28	WI070510-2	.5		.496	mg/L	99.2	90	110			
WG225004CCB2	CCB	05/19/07 19:30				U	mg/L		-0.03	0.03			
WG225004CCV3	CCV	05/19/07 19:38	WI070510-2	.5		.495	mg/L	99	90	110			
WG225004CCB3	CCB	05/19/07 19:39				U	mg/L		-0.03	0.03			
WG225457													
WG225355ICV	ICV	05/26/07 16:30	WI070329-1	.65228		.597	mg/L	91.5	90	110			
WG225355ICB	ICB	05/26/07 16:32				U	mg/L		-0.03	0.03			
WG225355LRB1	LRB	05/26/07 16:33				U	mg/L		-0.03	0.03			
WG225355LFB1	LFB	05/26/07 16:34	WI070510-2	.5		.456	mg/L	91.2	90	110			
L62586-01LFM	LFM	05/26/07 16:37	WI070510-2	.5	.07	.489	mg/L	83.8	90	110			M2
L62586-02DUP	DUP	05/26/07 16:39			.21	.222	mg/L				5.6	20	
WG225355CCV1	CCV	05/26/07 16:45	WI070510-2	.5		.498	mg/L	99.6	90	110			
WG225355CCB1	CCB	05/26/07 16:46				U	mg/L		-0.03	0.03			
WG225355CCV2	CCV	05/26/07 16:58	WI070510-2	.5		.508	mg/L	101.6	90	110			
WG225355CCB2	CCB	05/26/07 16:59				U	mg/L		-0.03	0.03			
WG225355LRB2	LRB	05/26/07 17:07				U	mg/L		-0.03	0.03			
WG225355LFB2	LFB	05/26/07 17:08	WI070510-2	.5		.464	mg/L	92.8	90	110			
WG225355CCV3	CCV	05/26/07 17:12	WI070510-2	.5		.513	mg/L	102.6	90	110			
WG225355CCB3	CCB	05/26/07 17:13				U	mg/L		-0.03	0.03			
WG225355CCV4	CCV	05/26/07 17:25	WI070510-2	.5		.515	mg/L	103	90	110			
WG225355CCB4	CCB	05/26/07 17:26				U	mg/L		-0.03	0.03			

Residue, Non-Filterable (TSS) @105C M160.2 - Gravimetric

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224800													
WG224800PBW	PBW	05/16/07 13:20				U	mg/L		-15	15			
WG224800LCSW	LCSW	05/16/07 13:22	PCN27104	152		132	mg/L	86.8	80	120			
L62591-04DUP	DUP	05/16/07 13:46			U	6	mg/L				200	20	RA

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62588***

Project ID: 91556003620645010700

Selenium, total SM 3114 B, AA-Hydride

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225093													
WG225093ICV	ICV	05/24/07 14:36	II070521-1	.025		.0266	mg/L	106.4	90	110			
WG225093ICB	ICB	05/24/07 14:38				U	mg/L		-0.003	0.003			
WG225093LRB	LRB	05/24/07 14:39				U	mg/L		-0.003	0.003			
WG225093LFB	LFB	05/24/07 14:41	II070515-2	.02		.0193	mg/L	96.5	85	115			
WG225093CCV1	CCV	05/24/07 14:55	II070521-1	.025		.0256	mg/L	102.4	90	110			
WG225093CCB1	CCB	05/24/07 14:57				U	mg/L		-0.003	0.003			
L62586-04LFM	LFM	05/24/07 15:03	II070515-2	.02	.005	.0262	mg/L	106	85	115			
L62586-04LFMD	LFMD	05/24/07 15:05	II070515-2	.02	.005	.0248	mg/L	99	85	115	5.49	20	
WG225093CCV2	CCV	05/24/07 15:15	II070521-1	.025		.0257	mg/L	102.8	90	110			
WG225093CCB2	CCB	05/24/07 15:16				U	mg/L		-0.003	0.003			
WG225093CCV3	CCV	05/24/07 15:28	II070521-1	.025		.0253	mg/L	101.2	90	110			
WG225093CCB3	CCB	05/24/07 15:29				U	mg/L		-0.003	0.003			
WG225093CCV4	CCV	05/24/07 15:44	II070521-1	.025		.0259	mg/L	103.6	90	110			
WG225093CCB4	CCB	05/24/07 15:45				U	mg/L		-0.003	0.003			

Silver, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.02006		.01868	mg/L	93.1	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.00015	0.00015			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.0125375		.01221	mg/L	97.4	85	115			
L62586-01AS	AS	05/17/07 18:43	MS070425-3	.0125375	U	.0117	mg/L	93.3	70	130			
L62586-01ASD	ASD	05/17/07 18:48	MS070425-3	.0125375	U	.01199	mg/L	95.6	70	130	2.45	20	
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.025075		.02441	mg/L	97.3	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.00015	0.00015			
L62588-02AS	AS	05/17/07 19:46	MS070425-3	.0125375	U	.01138	mg/L	90.8	70	130			
L62588-02ASD	ASD	05/17/07 19:50	MS070425-3	.0125375	U	.0111	mg/L	88.5	70	130	2.49	20	
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.025075		.02353	mg/L	93.8	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.00015	0.00015			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.025075		.0228	mg/L	90.9	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.00015	0.00015			

Vanadium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05152	mg/L	103	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0006	0.0006			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05002	mg/L	100	85	115			
L62586-01AS	AS	05/17/07 18:43	MS070425-3	.05	.0013	.05305	mg/L	103.5	70	130			
L62586-01ASD	ASD	05/17/07 18:48	MS070425-3	.05	.0013	.05003	mg/L	97.5	70	130	5.86	20	
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.1		.09961	mg/L	99.6	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0006	0.0006			
L62588-02AS	AS	05/17/07 19:46	MS070425-3	.05	.0013	.05638	mg/L	110.2	70	130			
L62588-02ASD	ASD	05/17/07 19:50	MS070425-3	.05	.0013	.05275	mg/L	102.9	70	130	6.65	20	
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.1		.1	mg/L	100	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0006	0.0006			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.1		.09633	mg/L	96.3	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0006	0.0006			

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700

ACZ Project ID: ***L62588***

Zinc, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225255													
WG225255ICV	ICV	05/23/07 16:46	II070518-6	2		1.958	mg/L	97.9	95	105			
WG225255ICB	ICB	05/23/07 16:50				U	mg/L		-0.03	0.03			
WG225255PQV	PQV	05/23/07 16:54	II070518-5	.05		.061	mg/L	122	70	130			
WG225255SIC	SIC	05/23/07 16:58	II070518-3	.1		.11	mg/L	110	80	120			
WG225255LFB	LFB	05/23/07 17:06	II070516-3	.5		.521	mg/L	104.2	85	115			
L62588-02AS	AS	05/23/07 17:15	II070516-3	.5	U	.531	mg/L	106.2	85	115			
L62588-02ASD	ASD	05/23/07 17:19	II070516-3	.5	U	.547	mg/L	109.4	85	115	2.97	20	
WG225255CCV1	CCV	05/23/07 17:35	II070518-7	1		.987	mg/L	98.7	90	110			
WG225255CCB1	CCB	05/23/07 17:39				U	mg/L		-0.03	0.03			
WG225255CCV2	CCV	05/23/07 18:20	II070518-7	1		1	mg/L	100	90	110			
WG225255CCB2	CCB	05/23/07 18:25				U	mg/L		-0.03	0.03			
WG225415													
WG225415ICV	ICV	05/25/07 21:50	II070518-6	2		1.922	mg/L	96.1	95	105			
WG225415ICB	ICB	05/25/07 21:54				U	mg/L		-0.03	0.03			
WG225415PQV	PQV	05/25/07 21:58	II070518-5	.05		.053	mg/L	106	70	130			
WG225415SIC	SIC	05/25/07 22:02	II070518-3	.1		.113	mg/L	113	80	120			
WG225415LFB	LFB	05/25/07 22:11	II070516-3	.5		.509	mg/L	101.8	85	115			
WG225415CCV1	CCV	05/25/07 22:40	II070518-7	1		1.003	mg/L	100.3	90	110			
WG225415CCB1	CCB	05/25/07 22:44				U	mg/L		-0.03	0.03			
L62587-03AS	AS	05/25/07 23:17	II070516-3	.5	U	.514	mg/L	102.8	85	115			
L62587-03ASD	ASD	05/25/07 23:21	II070516-3	.5	U	.544	mg/L	108.8	85	115	5.67	20	
WG225415CCV2	CCV	05/25/07 23:29	II070518-7	1		.993	mg/L	99.3	90	110			
WG225415CCB2	CCB	05/25/07 23:33				U	mg/L		-0.03	0.03			
WG225415CCV3	CCV	05/26/07 0:11	II070518-7	1		1	mg/L	100	90	110			
WG225415CCB3	CCB	05/26/07 0:15				U	mg/L		-0.03	0.03			

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Extended Qualifier Report

Idaho Dept of Environmental Quality ACZ Project ID: ***L62588***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L62588-01	WG224949	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224771	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225028	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224800	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225290	Total Alkalinity	SM2320B - Titration	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L62588-02	WG224949	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224771	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225028	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224800	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225290	Total Alkalinity	SM2320B - Titration	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L62588-03	WG224949	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224771	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225028	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224800	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225290	Total Alkalinity	SM2320B - Titration	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Extended Qualifier Report

Idaho Dept of Environmental Quality ACZ Project ID: ***L62588***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L62588-04	WG224949	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224771	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225457	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
	WG224800	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225290	Total Alkalinity	SM2320B - Titration	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Certification Qualifiers

Idaho Dept of Environmental Quality ACZ Project ID: ***L62588***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Idaho Dept of Environmental Quality
91556003620645010700

ACZ Project ID: L62588
Date Received: 5/15/2007
Received By:
Date Printed: 5/15/2007

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?	X		
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?		X	
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?			X
11) Are the trip blanks (VOA and/or Cyanide) present?			X
12) Are samples requiring no headspace, headspace free?			X
13) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

The nitrate/nitrite analysis was received past holding time.

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id		Temp (°C)	Rad (µR/hr)
na3557		4.5	14

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Idaho Dept of Environmental Quality
91556003620645010700

ACZ Project ID: L62588
Date Received: 5/15/2007
Received By:

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	O < 2	T >12	N/A	RAD	ID
L62588-01	SHEEP CR	Y	Y		Y							
L62588-02	BLACKFOOTR@MONSANTO	Y	Y		Y							
L62588-03	BLACKFOOTR@TRAIL CR	Y	Y		Y							
L62588-04	SPRING CR	Y	Y		Y							

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: _____

ACZ Laboratories, Inc. L62588 **CHAIN of CUSTODY**

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Greg Mladenka
Company: Idaho DEQ
E-mail: greg.mladenka@deq.idaho.gov
Address: 444 Hospital Way, Ste 300 Pocatello, ID 83201
Telephone: 208-236-6160 / 251-9941 (c)

Copy of Report to:

Name: Lynn Van Every
Company: Idaho DEQ
E-mail: Lynn.vanevery@deq.idaho.gov
Telephone: 208-236-6160

Invoice to:

Name: Kasey Guthrie
Company: IDEQ
E-mail: kasey.guthrie@deq.idaho.gov
Address: Same
Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

PROJECT INFORMATION

Quote #: 4-DAY-AVE
Project/PO #: 9155 6003 62064 5010 700
Reporting state for compliance testing: ID
Sampler's Name: Greg Mladenka
Are any samples NRC licensable material? NO

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	QUOTE
Sheep Cr.	5/11/07: COMP	SW	5	
Blackfoot R. @ Monsanto	5/10/07			
Blackfoot R. @ Trail Cr.	5/11/07			
Spring Cr.	5/11/07			

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
	5/14/07 1400	CMC 5/15/07	

FRMAD050.03.05.02 White - Return with sample. Yellow - Retain for your records.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Short Holdtime

Idaho Dept of Environmental Quality ACZ Project ID: ***L62588***
Project ID: 91556003620645010700

Samplenum	ClientID	Collectdate	Receivedate	Prod	Holddays	Holddate	Past?
L62588-01	SHEEP CR	05/11/07 0:00	05/15/07	N-NO3NO2	2	05/13/07 0:00	PAST
L62588-02	ACKFOOTR@MONSANT	05/10/07 0:00	05/15/07	TSS	7	05/17/07 23:59	SHORT
L62588-02	ACKFOOTR@MONSANT	05/10/07 0:00	05/15/07	N-NO3NO2	2	05/12/07 0:00	PAST
L62588-03	LACKFOOTR@TRAIL CR	05/11/07 0:00	05/15/07	N-NO3NO2	2	05/13/07 0:00	PAST
L62588-04	SPRING CR	05/11/07 0:00	05/15/07	N-NO3NO2	2	05/13/07 0:00	PAST

IDDEQ L62588

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 05/15/07 14:04

Account Code: IDDEQ
ACZ Project ID: L62588
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62588-01

Client ID:	SHEEP CR	Priority:	-	Sampled:	5/11/2007
Quote Num	4-DAY-AVE	Due:	5/28/2007	Received:	5/15/2007
Locator:		Site:	91556003620645010700		

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digesl	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

IDDEQ L62588

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 05/15/07 14:04

Account Code: IDDEQ
ACZ Project ID: L62588
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62588-02

Client ID: BLACKFOOTR@MONSA
Quote Num 4-DAY-AVE
Locator:

Priority: -
Due: 5/28/2007
Site: 91556003620645010700

Sampled: 5/10/2007
Received: 5/15/2007

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digesl	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

IDDEQ L62588

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 05/15/07 14:04

Account Code: IDDEQ
ACZ Project ID: L62588
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62588-03

Client ID:	BLACKFOOTR@TRAIL	Priority:	-	Sampled:	5/11/2007
Quote Num	4-DAY-AVE	Due:	5/28/2007	Received:	5/15/2007
Locator:		Site:	91556003620645010700		

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digesl	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

IDDEQ L62588

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 05/15/07 14:04

Account Code: IDDEQ
ACZ Project ID: L62588
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62588-04

Client ID: SPRING CR
Quote Num 4-DAY-AVE
Locator:

Priority: -
Due: 5/28/2007
Site: 91556003620645010700

Sampled: 5/11/2007
Received: 5/15/2007

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digesl	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

CLIENT SAMPLE ID REVIEW	COC SCANNED	LOGIN REVIEW	FINAL PDFS EMAILED
Signature: _____	Signature: _____	Signature: _____	Signature: _____
Date: _____	Date: _____	Date: _____	Date: _____

Analytical Report for Project Number L62589

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

May 30, 2007

Report to:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way Suite 300
Pocatello, ID 83201

Bill to:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way Suite 300
Pocatello, ID 83201

cc: Lynn Van Every

Project ID: 915560036206450107OO
ACZ Project ID: L62589

Greg Mladenka:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 15, 2007. This project has been assigned to ACZ's project number, L62589. Please reference this number in all future inquiries.

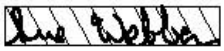
All analyses were performed according to ACZ's Quality Assurance Plan, version 11.0. The enclosed results relate only to the samples received under L62589. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after June 30, 2007. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than $10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.



30/May/07

Sue Webber, Project Manager, has reviewed and approved this report in its entirety.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: ANGUS CR

ACZ Sample ID: ***L62589-01***
Date Sampled: *05/11/07 00:00*
Date Received: *05/15/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/17/07 20:05	lbn

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 20:04	jjr
Calcium, dissolved	M200.7 ICP	147			mg/L	0.2	1	05/23/07 1:22	djt
Chromium, dissolved	M200.8 ICP-MS	0.0006			mg/L	0.0001	0.0005	05/17/07 20:04	jjr
Copper, dissolved	M200.8 ICP-MS	0.0006	B		mg/L	0.0005	0.003	05/17/07 20:04	jjr
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 20:04	jjr
Magnesium, dissolved	M200.7 ICP	39.2			mg/L	0.2	1	05/23/07 1:22	djt
Nickel, dissolved	M200.8 ICP-MS	0.0029	B		mg/L	0.0006	0.003	05/17/07 20:04	jjr
Selenium, total	SM 3114 B, AA-Hydride	0.004	B		mg/L	0.001	0.005	05/25/07 16:53	gme
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 20:04	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0013			mg/L	0.0002	0.001	05/17/07 20:04	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/23/07 17:31	djt

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		243			mg/L	2	20	05/25/07 0:00	wpa
Carbonate as CaCO3			U		mg/L	2	20	05/25/07 0:00	wpa
Hydroxide as CaCO3			U		mg/L	2	20	05/25/07 0:00	wpa
Total Alkalinity		243			mg/L	2	20	05/25/07 0:00	wpa
Carbon, total organic (TOC)	M415.1 Combustion/IR	4	B	*	mg/L	1	5	05/21/07 20:58	nps
Hardness as CaCO3	SM2340B - Calculation	529			mg/L	1	7	05/30/07 10:09	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.04	BH	*	mg/L	0.02	0.1	05/15/07 19:29	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.11		*	mg/L	0.01	0.05	05/19/07 17:57	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric		U	*	mg/L	5	20	05/17/07 14:20	aeh

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: LAST CR

ACZ Sample ID: ***L62589-02***
Date Sampled: *05/10/07 00:00*
Date Received: *05/15/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/17/07 20:09	lbn

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 20:08	jjr
Calcium, dissolved	M200.7 ICP		U		mg/L	0.2	1	05/23/07 1:34	djt
Chromium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 20:08	jjr
Copper, dissolved	M200.8 ICP-MS	0.0014	B		mg/L	0.0005	0.003	05/17/07 20:08	jjr
Lead, dissolved	M200.8 ICP-MS	0.0003	B		mg/L	0.0001	0.0005	05/17/07 20:08	jjr
Magnesium, dissolved	M200.7 ICP		U		mg/L	0.2	1	05/23/07 1:34	djt
Nickel, dissolved	M200.8 ICP-MS		U		mg/L	0.0006	0.003	05/17/07 20:08	jjr
Selenium, total	SM 3114 B, AA-Hydride		U		mg/L	0.001	0.005	05/25/07 16:57	gme
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 20:08	jjr
Vanadium, dissolved	M200.8 ICP-MS		U		mg/L	0.0002	0.001	05/17/07 20:08	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/23/07 17:43	djt

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Carbonate as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Hydroxide as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Total Alkalinity			U		mg/L	2	20	05/24/07 0:00	wpa
Carbon, total organic (TOC)	M415.1 Combustion/IR		U	*	mg/L	1	5	05/21/07 21:13	nps
Hardness as CaCO3	SM2340B - Calculation	n/a			mg/L	1	7	05/30/07 10:09	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.02	0.1	05/15/07 19:32	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)		U	*	mg/L	0.01	0.05	05/19/07 17:58	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric		U	*	mg/L	5	20	05/17/07 14:23	aeh

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: GEORGETOWN CR BELO

ACZ Sample ID: ***L62589-03***
Date Sampled: *05/10/07 00:00*
Date Received: *05/15/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/25/07 10:28	nps

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 20:21	jjr
Calcium, dissolved	M200.7 ICP	58.8			mg/L	0.2	1	05/23/07 1:38	djt
Chromium, dissolved	M200.8 ICP-MS	0.0006			mg/L	0.0001	0.0005	05/17/07 20:21	jjr
Copper, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.003	05/17/07 20:21	jjr
Lead, dissolved	M200.8 ICP-MS	0.0002	B		mg/L	0.0001	0.0005	05/17/07 20:21	jjr
Magnesium, dissolved	M200.7 ICP	12.4			mg/L	0.2	1	05/23/07 1:38	djt
Nickel, dissolved	M200.8 ICP-MS	0.0009	B		mg/L	0.0006	0.003	05/17/07 20:21	jjr
Selenium, total	SM 3114 B, AA-Hydride	0.017			mg/L	0.001	0.005	05/25/07 16:59	gme
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 20:21	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0014			mg/L	0.0002	0.001	05/17/07 20:21	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/23/07 17:47	djt

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		180			mg/L	2	20	05/24/07 0:00	wpa
Carbonate as CaCO3		7	B		mg/L	2	20	05/24/07 0:00	wpa
Hydroxide as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Total Alkalinity		187			mg/L	2	20	05/24/07 0:00	wpa
Carbon, total organic (TOC)	M415.1 Combustion/IR	1	B	*	mg/L	1	5	05/21/07 21:27	nps
Hardness as CaCO3	SM2340B - Calculation	198			mg/L	1	7	05/30/07 10:09	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.02	0.1	05/15/07 19:38	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.17			mg/L	0.01	0.05	05/26/07 18:27	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric		U	*	mg/L	5	20	05/17/07 14:25	aeh

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: GOODHEART CR

ACZ Sample ID: ***L62589-04***
Date Sampled: *05/10/07 00:00*
Date Received: *05/15/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/25/07 10:52	nps

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 20:26	jjr
Calcium, dissolved	M200.7 ICP	84.1			mg/L	0.2	1	05/23/07 1:43	djt
Chromium, dissolved	M200.8 ICP-MS	0.0005	B		mg/L	0.0001	0.0005	05/17/07 20:26	jjr
Copper, dissolved	M200.8 ICP-MS	0.0006	B		mg/L	0.0005	0.003	05/17/07 20:26	jjr
Lead, dissolved	M200.8 ICP-MS	0.0001	B		mg/L	0.0001	0.0005	05/17/07 20:26	jjr
Magnesium, dissolved	M200.7 ICP	14.9			mg/L	0.2	1	05/23/07 1:43	djt
Nickel, dissolved	M200.8 ICP-MS	0.0020	B		mg/L	0.0006	0.003	05/17/07 20:26	jjr
Selenium, total	SM 3114 B, AA-Hydride	0.006			mg/L	0.001	0.005	05/25/07 17:01	gme
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 20:26	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0013			mg/L	0.0002	0.001	05/17/07 20:26	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/23/07 17:52	djt

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		200			mg/L	2	20	05/24/07 0:00	wpa
Carbonate as CaCO3		13	B		mg/L	2	20	05/24/07 0:00	wpa
Hydroxide as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Total Alkalinity		213			mg/L	2	20	05/24/07 0:00	wpa
Carbon, total organic (TOC)	M415.1 Combustion/IR	4	B	*	mg/L	1	5	05/25/07 12:52	nps/jag
Hardness as CaCO3	SM2340B - Calculation	271			mg/L	1	7	05/30/07 10:09	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.02	0.1	05/15/07 20:33	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.10			mg/L	0.01	0.05	05/26/07 18:29	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	26		*	mg/L	5	20	05/17/07 14:27	aeh

** Please refer to Qualifier Reports for detail.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Reference

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit, typically 5 times the MDL.
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calivation Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
U	Analyte was analyzed for but not detected at the indicated MDL

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(5)	EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
(6)	Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.

ACZ Laboratories, Inc.
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Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700

ACZ Project ID: ***L62589***

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225303													
WG225303LCSW1	LCSW	05/24/07 14:05	WC070523-1	820		824.5	mg/L	100.5	80	120			
L62770-06DUP	DUP	05/24/07 15:49			980	976.9	mg/L				0.3	20	
WG225303LCSW3	LCSW	05/24/07 16:00	WC070523-1	820		801.4	mg/L	97.7	80	120			
WG225368													
WG225368LCSW1	LCSW	05/25/07 8:44	WC070503-8	8200		8651.6	mg/L	105.5	80	120			
L62770-05DUP	DUP	05/25/07 9:04			1310	1333.7	mg/L				1.8	20	
WG225368LCSW2	LCSW	05/25/07 9:14	WC070503-8	8200		8558.9	mg/L	104.4	80	120			

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05121	mg/L	102.4	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0003	0.0003			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05295	mg/L	105.9	85	115			
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.1		.09893	mg/L	98.9	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0003	0.0003			
L62588-02AS	AS	05/17/07 19:46	MS070425-3	.05	U	.054	mg/L	108	70	130			
L62588-02ASD	ASD	05/17/07 19:50	MS070425-3	.05	U	.05198	mg/L	104	70	130	3.81	20	
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.1		.09719	mg/L	97.2	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0003	0.0003			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.1		.09539	mg/L	95.4	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0003	0.0003			

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225170													
WG225170ICV	ICV	05/23/07 0:35	II070518-6	100		100.06	mg/L	100.1	95	105			
WG225170ICB	ICB	05/23/07 0:40				U	mg/L		-0.6	0.6			
WG225170PQV	PQV	05/23/07 0:44	II070518-5	1		1.02	mg/L	102	70	130			
WG225170SIC	SIC	05/23/07 0:48	II070518-3	201		195.9	mg/L	97.5	1	200			
WG225170LFB	LFB	05/23/07 0:56	II070516-3	67.99189		70.01	mg/L	103	85	115			
L62588-02AS	AS	05/23/07 1:05	II070516-3	67.99189	57.2	125.3	mg/L	100.2	85	115			
L62588-02ASD	ASD	05/23/07 1:09	II070516-3	67.99189	57.2	127.45	mg/L	103.3	85	115	1.7	20	
WG225170CCV1	CCV	05/23/07 1:26	II070518-7	50		52.76	mg/L	105.5	90	110			
WG225170CCB1	CCB	05/23/07 1:30				U	mg/L		-0.6	0.6			
WG225170CCV2	CCV	05/23/07 2:16	II070518-7	50		51.73	mg/L	103.5	90	110			
WG225170CCB2	CCB	05/23/07 2:20				U	mg/L		-0.6	0.6			
WG225170CCV3	CCV	05/23/07 2:58	II070518-7	50		52.17	mg/L	104.3	90	110			
WG225170CCB3	CCB	05/23/07 3:03				U	mg/L		-0.6	0.6			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62589***

Project ID: 91556003620645010700

Carbon, total organic (TOC) M415.1 Combustion/IR

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224949													
WG224949ICV	ICV	05/21/07 11:41	WI070426-1	75		68.1	mg/L	90.8	90	110			
WG224949ICB	ICB	05/21/07 11:56				U	mg/L		-3	3			
WG224949LFB1	LFB	05/21/07 12:10	WI070507-2	50		47.7	mg/L	95.4	90	110			
WG224949CCV1	CCV	05/21/07 14:33	WI070507-1	100		91.4	mg/L	91.4	90	110			
WG224949CCB1	CCB	05/21/07 14:47				U	mg/L		-3	3			
WG224949CCV2	CCV	05/21/07 17:25	WI070507-1	100		91.9	mg/L	91.9	90	110			
WG224949CCB2	CCB	05/21/07 17:39				U	mg/L		-3	3			
WG224949LFB2	LFB	05/21/07 19:04	WI070507-2	50		45.9	mg/L	91.8	90	110			
L62588-02DUP	DUP	05/21/07 19:33			4	3.2	mg/L				22.2	20	RA
L62588-03AS	AS	05/21/07 20:01	WI070507-2	50	3	45	mg/L	84	90	110			M2
WG224949CCV3	CCV	05/21/07 20:15	WI070507-1	100		91.4	mg/L	91.4	90	110			
WG224949CCB3	CCB	05/21/07 20:30				U	mg/L		-3	3			
WG224949CCV4	CCV	05/21/07 22:38	WI070507-1	100		91.3	mg/L	91.3	90	110			
WG224949CCB4	CCB	05/21/07 22:53				U	mg/L		-3	3			
WG225370													
WG225370ICV	ICV	05/25/07 10:43	WI070426-1	75		72.5	mg/L	96.7	90	110			
WG225370ICB	ICB	05/25/07 10:57				U	mg/L		-3	3			
WG225370LFB1	LFB	05/25/07 11:11	WI070507-2	50		45.2	mg/L	90.4	90	110			
L62580-06DUP	DUP	05/25/07 11:40			7	6.3	mg/L				10.5	20	RA
L62586-01AS	AS	05/25/07 12:09	WI070507-2	50	4	46.5	mg/L	85	90	110			M2
WG225370CCV1	CCV	05/25/07 13:35	WI070507-1	100		95.7	mg/L	95.7	90	110			
WG225370CCB1	CCB	05/25/07 13:49				U	mg/L		-3	3			
WG225370CCV2	CCV	05/25/07 16:27	WI070507-1	100		93.9	mg/L	93.9	90	110			
WG225370CCB2	CCB	05/25/07 16:41				U	mg/L		-3	3			
WG225370CCV3	CCV	05/25/07 19:18	WI070507-1	100		95.9	mg/L	95.9	90	110			
WG225370CCB3	CCB	05/25/07 19:33				U	mg/L		-3	3			
WG225370CCV4	CCV	05/25/07 21:42	WI070507-1	100		94.9	mg/L	94.9	90	110			
WG225370CCB4	CCB	05/25/07 21:56				U	mg/L		-3	3			
WG225370CCV5	CCV	05/28/07 8:22	WI070507-1	100		101.1	mg/L	101.1	90	110			
WG225370CCB5	CCB	05/28/07 8:37				U	mg/L		-3	3			
WG225370LFB2	LFB	05/28/07 8:51	WI070507-2	50		51.8	mg/L	103.6	90	110			
WG225370CCV6	CCV	05/28/07 9:20	WI070507-1	100		103.9	mg/L	103.9	90	110			
WG225370CCB6	CCB	05/28/07 9:34				U	mg/L		-3	3			

Chromium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05061	mg/L	101.2	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0003	0.0003			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05092	mg/L	101.8	85	115			
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.1		.09813	mg/L	98.1	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0003	0.0003			
L62588-02AS	AS	05/17/07 19:46	MS070425-3	.05	.0004	.05534	mg/L	109.9	70	130			
L62588-02ASD	ASD	05/17/07 19:50	MS070425-3	.05	.0004	.05148	mg/L	102.2	70	130	7.23	20	
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.1		.09675	mg/L	96.8	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0003	0.0003			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.1		.09422	mg/L	94.2	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0003	0.0003			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62589***

Project ID: 91556003620645010700

Copper, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05144	mg/L	102.9	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0015	0.0015			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05078	mg/L	101.6	85	115			
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.25		.2427	mg/L	97.1	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0015	0.0015			
L62588-02AS	AS	05/17/07 19:46	MS070425-3	.05	U	.05323	mg/L	106.5	70	130			
L62588-02ASD	ASD	05/17/07 19:50	MS070425-3	.05	U	.04958	mg/L	99.2	70	130	7.1	20	
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.25		.2401	mg/L	96	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0015	0.0015			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.25		.234	mg/L	93.6	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0015	0.0015			

Lead, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05295	mg/L	105.9	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0003	0.0003			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05069	mg/L	101.4	85	115			
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.25		.2611	mg/L	104.4	90	110			
WG224901CCB1	CCB	05/17/07 19:23				.00019	mg/L		-0.0003	0.0003			
L62588-02AS	AS	05/17/07 19:46	MS070425-3	.05	U	.0571	mg/L	114.2	70	130			
L62588-02ASD	ASD	05/17/07 19:50	MS070425-3	.05	U	.05437	mg/L	108.7	70	130	4.9	20	
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.25		.2708	mg/L	108.3	90	110			
WG224901CCB2	CCB	05/17/07 20:17				.00011	mg/L		-0.0003	0.0003			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.25		.273	mg/L	109.2	90	110			
WG224901CCB3	CCB	05/17/07 20:48				.00013	mg/L		-0.0003	0.0003			

Magnesium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225170													
WG225170ICV	ICV	05/23/07 0:35	II070518-6	100		98.39	mg/L	98.4	95	105			
WG225170ICB	ICB	05/23/07 0:40				U	mg/L		-0.6	0.6			
WG225170PQV	PQV	05/23/07 0:44	II070518-5	1		1.02	mg/L	102	70	130			
WG225170SIC	SIC	05/23/07 0:48	II070518-3	201		201.33	mg/L	100.2	1	200			
WG225170LFB	LFB	05/23/07 0:56	II070516-3	54.96149		56.41	mg/L	102.6	85	115			
L62588-02AS	AS	05/23/07 1:05	II070516-3	54.96149	11.2	67.6	mg/L	102.6	85	115			
L62588-02ASD	ASD	05/23/07 1:09	II070516-3	54.96149	11.2	68.82	mg/L	104.8	85	115	1.79	20	
WG225170CCV1	CCV	05/23/07 1:26	II070518-7	50		51.22	mg/L	102.4	90	110			
WG225170CCB1	CCB	05/23/07 1:30				U	mg/L		-0.6	0.6			
WG225170CCV2	CCV	05/23/07 2:16	II070518-7	50		50.68	mg/L	101.4	90	110			
WG225170CCB2	CCB	05/23/07 2:20				U	mg/L		-0.6	0.6			
WG225170CCV3	CCV	05/23/07 2:58	II070518-7	50		50.92	mg/L	101.8	90	110			
WG225170CCB3	CCB	05/23/07 3:03				U	mg/L		-0.6	0.6			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62589***

Project ID: 91556003620645010700

Nickel, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05117	mg/L	102.3	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0018	0.0018			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05225	mg/L	104.5	85	115			
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.25		.2415	mg/L	96.6	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0018	0.0018			
L62588-02AS	AS	05/17/07 19:46	MS070425-3	.05	.0009	.05341	mg/L	105	70	130			
L62588-02ASD	ASD	05/17/07 19:50	MS070425-3	.05	.0009	.05032	mg/L	98.8	70	130	5.96	20	
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.25		.2436	mg/L	97.4	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0018	0.0018			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.25		.2375	mg/L	95	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0018	0.0018			

Nitrate/Nitrite as N, dissolved M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224770													
WG224770ICV	ICV	05/15/07 18:28	WI070308-3	2.416		2.406	mg/L	99.6	90	110			
WG224770ICB	ICB	05/15/07 18:29				U	mg/L		-0.06	0.06			
WG224771													
WG224771ICV	ICV	05/15/07 18:48	WI070308-3	2.416		2.393	mg/L	99	90	110			
WG224771ICB	ICB	05/15/07 18:49				U	mg/L		-0.06	0.06			
WG224771LFB1	LFB	05/15/07 18:50	WI070307-9	2		2.016	mg/L	100.8	90	110			
WG224771CCV1	CCV	05/15/07 19:03	WI070515-1	2		1.974	mg/L	98.7	90	110			
WG224771CCB1	CCB	05/15/07 19:05				U	mg/L		-0.06	0.06			
WG224771CCV2	CCV	05/15/07 19:19	WI070515-1	2		1.967	mg/L	98.4	90	110			
WG224771CCB2	CCB	05/15/07 19:21				U	mg/L		-0.06	0.06			
WG224771LFB2	LFB	05/15/07 19:28	WI070307-9	2		2.009	mg/L	100.5	90	110			
L62589-01AS	AS	05/15/07 19:31	WI070307-9	2	.04	2.093	mg/L	102.7	90	110			
L62589-02DUP	DUP	05/15/07 19:33			U	U	mg/L				0	20	RA
WG224771CCV3	CCV	05/15/07 19:34	WI070515-1	2		1.964	mg/L	98.2	90	110			
WG224771CCB3	CCB	05/15/07 19:37				U	mg/L		-0.06	0.06			
WG224771CCV4	CCV	05/15/07 19:50	WI070515-1	2		1.978	mg/L	98.9	90	110			
WG224771CCB4	CCB	05/15/07 19:53				U	mg/L		-0.06	0.06			
WG224771CCV5	CCV	05/15/07 20:30	WI070515-1	2		1.957	mg/L	97.9	90	110			
WG224771CCB5	CCB	05/15/07 20:32				U	mg/L		-0.06	0.06			
WG224771CCV6	CCV	05/15/07 20:42	WI070515-1	2		1.957	mg/L	97.9	90	110			
WG224771CCB6	CCB	05/15/07 20:44				U	mg/L		-0.06	0.06			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62589***

Project ID: 91556003620645010700

Phosphorus, total M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225026													
WG224918ICV	ICV	05/19/07 17:26	WI070329-1	.65228		.717	mg/L	109.9	90	110			
WG224918ICB	ICB	05/19/07 17:28				U	mg/L		-0.03	0.03			
WG224918LRB	LRB	05/19/07 17:29				U	mg/L		-0.03	0.03			
WG224918LFB	LFB	05/19/07 17:31	WI070510-2	.5		.517	mg/L	103.4	90	110			
L62565-01LFM	LFM	05/19/07 17:33	WI070510-2	.5	.11	.642	mg/L	106.4	90	110			
L62565-03DUP	DUP	05/19/07 17:35			U	U	mg/L				0	20	RA
WG224918CCV1	CCV	05/19/07 17:41	WI070510-2	.5		.494	mg/L	98.8	90	110			
WG224918CCB1	CCB	05/19/07 17:42				U	mg/L		-0.03	0.03			
L62569-01LFM	LFM	05/19/07 17:49	WI070510-2	.5	U	.512	mg/L	102.4	90	110			
L62569-02DUP	DUP	05/19/07 17:51			U	U	mg/L				0	20	RA
WG224918CCV2	CCV	05/19/07 17:55	WI070510-2	.5		.496	mg/L	99.2	90	110			
WG224918CCB2	CCB	05/19/07 17:56				U	mg/L		-0.03	0.03			
WG224918CCV3	CCV	05/19/07 18:04	WI070510-2	.5		.498	mg/L	99.6	90	110			
WG224918CCB3	CCB	05/19/07 18:05				U	mg/L		-0.03	0.03			
WG225459													
WG225405ICV	ICV	05/26/07 18:22	WI070329-1	.65228		.598	mg/L	91.7	90	110			
WG225405ICB	ICB	05/26/07 18:23				U	mg/L		-0.03	0.03			
WG225405LRB	LRB	05/26/07 18:25				U	mg/L		-0.03	0.03			
WG225405LFB	LFB	05/26/07 18:26	WI070525-2	.5		.462	mg/L	92.4	90	110			
L62589-03LFM	LFM	05/26/07 18:28	WI070525-2	.5	.17	.663	mg/L	98.6	90	110			
L62589-04DUP	DUP	05/26/07 18:30			.1	.107	mg/L				6.8	20	
WG225405CCV1	CCV	05/26/07 18:36	WI070525-2	.5		.514	mg/L	102.8	90	110			
WG225405CCB1	CCB	05/26/07 18:37				U	mg/L		-0.03	0.03			
WG225405CCV2	CCV	05/26/07 18:49	WI070525-2	.5		.521	mg/L	104.2	90	110			
WG225405CCB2	CCB	05/26/07 18:51				U	mg/L		-0.03	0.03			
WG225405CCV3	CCV	05/26/07 18:58	WI070525-2	.5		.529	mg/L	105.8	90	110			
WG225405CCB3	CCB	05/26/07 18:59				.019	mg/L		-0.03	0.03			

Residue, Non-Filterable (TSS) @105C M160.2 - Gravimetric

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224882													
WG224882PBW	PBW	05/17/07 14:10				U	mg/L		-15	15			
WG224882LCSW	LCSW	05/17/07 14:12	PCN27104	152		132	mg/L	86.8	80	120			
L62623-02DUP	DUP	05/17/07 14:36			U	U	mg/L				0	20	RA

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62589***

Project ID: 91556003620645010700

Selenium, total SM 3114 B, AA-Hydride

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225328													
WG225328ICV	ICV	05/25/07 16:46	II070521-1	.025		.0252	mg/L	100.8	90	110			
WG225328ICB	ICB	05/25/07 16:48				U	mg/L		-0.003	0.003			
WG225328LRB	LRB	05/25/07 16:49				U	mg/L		-0.003	0.003			
WG225328LFB	LFB	05/25/07 16:51	II070515-2	.02		.0203	mg/L	101.5	85	115			
L62589-01LFM	LFM	05/25/07 16:54	II070515-2	.02	.004	.0244	mg/L	102	85	115			
L62589-01LFMD	LFMD	05/25/07 16:56	II070515-2	.02	.004	.0243	mg/L	101.5	85	115	0.41	20	
WG225328CCV1	CCV	05/25/07 17:05	II070521-1	.025		.0253	mg/L	101.2	90	110			
WG225328CCB1	CCB	05/25/07 17:07				U	mg/L		-0.003	0.003			
WG225328CCV2	CCV	05/25/07 17:25	II070521-1	.025		.025	mg/L	100	90	110			
WG225328CCB2	CCB	05/25/07 17:27				U	mg/L		-0.003	0.003			
WG225328CCV3	CCV	05/25/07 17:50	II070521-1	.025		.023	mg/L	92	90	110			
WG225328CCB3	CCB	05/25/07 17:52				U	mg/L		-0.003	0.003			
WG225328CCV4	CCV	05/25/07 18:00	II070521-1	.025		.0263	mg/L	105.2	90	110			
WG225328CCB4	CCB	05/25/07 18:01				U	mg/L		-0.003	0.003			

Silver, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.02006		.01868	mg/L	93.1	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.00015	0.00015			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.0125375		.01221	mg/L	97.4	85	115			
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.025075		.02441	mg/L	97.3	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.00015	0.00015			
L62588-02AS	AS	05/17/07 19:46	MS070425-3	.0125375	U	.01138	mg/L	90.8	70	130			
L62588-02ASD	ASD	05/17/07 19:50	MS070425-3	.0125375	U	.0111	mg/L	88.5	70	130	2.49	20	
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.025075		.02353	mg/L	93.8	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.00015	0.00015			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.025075		.0228	mg/L	90.9	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.00015	0.00015			

Vanadium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05152	mg/L	103	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0006	0.0006			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05002	mg/L	100	85	115			
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.1		.09961	mg/L	99.6	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0006	0.0006			
L62588-02AS	AS	05/17/07 19:46	MS070425-3	.05	.0013	.05638	mg/L	110.2	70	130			
L62588-02ASD	ASD	05/17/07 19:50	MS070425-3	.05	.0013	.05275	mg/L	102.9	70	130	6.65	20	
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.1		.1	mg/L	100	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0006	0.0006			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.1		.09633	mg/L	96.3	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0006	0.0006			

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700

ACZ Project ID: ***L62589***

Zinc, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225255													
WG225255ICV	ICV	05/23/07 16:46	II070518-6	2		1.958	mg/L	97.9	95	105			
WG225255ICB	ICB	05/23/07 16:50				U	mg/L		-0.03	0.03			
WG225255PQV	PQV	05/23/07 16:54	II070518-5	.05		.061	mg/L	122	70	130			
WG225255SIC	SIC	05/23/07 16:58	II070518-3	.1		.11	mg/L	110	80	120			
WG225255LFB	LFB	05/23/07 17:06	II070516-3	.5		.521	mg/L	104.2	85	115			
L62588-02AS	AS	05/23/07 17:15	II070516-3	.5	U	.531	mg/L	106.2	85	115			
L62588-02ASD	ASD	05/23/07 17:19	II070516-3	.5	U	.547	mg/L	109.4	85	115	2.97	20	
WG225255CCV1	CCV	05/23/07 17:35	II070518-7	1		.987	mg/L	98.7	90	110			
WG225255CCB1	CCB	05/23/07 17:39				U	mg/L		-0.03	0.03			
WG225255CCV2	CCV	05/23/07 18:20	II070518-7	1		1	mg/L	100	90	110			
WG225255CCB2	CCB	05/23/07 18:25				U	mg/L		-0.03	0.03			

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Extended Qualifier Report

Idaho Dept of Environmental Quality ACZ Project ID: ***L62589***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L62589-01	WG224949	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224771	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225026	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224882	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L62589-02	WG224949	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224771	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225026	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224882	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L62589-03	WG224949	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224771	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224882	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L62589-04	WG225370	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224771	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224882	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Certification Qualifiers

Idaho Dept of Environmental Quality ACZ Project ID: ***L62589***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Idaho Dept of Environmental Quality
91556003620645010700

ACZ Project ID: L62589
Date Received: 5/15/2007
Received By:
Date Printed: 5/15/2007

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?	X		
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?		X	
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?			X
11) Are the trip blanks (VOA and/or Cyanide) present?			X
12) Are samples requiring no headspace, headspace free?			X
13) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

The nitrate/nitrite analysis was received past hold time for all samples.

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id		Temp (°C)	Rad (µR/hr)
1998		5.9	15

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Idaho Dept of Environmental Quality
91556003620645010700

ACZ Project ID: L62589
Date Received: 5/15/2007
Received By:

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	O < 2	T >12	N/A	RAD	ID
L62589-01	ANGUS CR	Y	Y		Y							
L62589-02	LAST CR	Y	Y		Y							
L62589-03	GEORGETOWN CR BELOW	Y	Y		Y							
L62589-04	GOODHEART CR	Y	Y		Y							

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: _____

ACZ Laboratories, Inc. L62589 **CHAIN of CUSTODY**

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Greg Mladenka
Company: Idaho DEQ
E-mail: greg.mladenka@deq.idaho.gov
Address: 444 Hospital Way #300
Pocatello, ID 83201
Telephone: 208-236-6160/251-9941(c)

Copy of Report to:

Name: Lynn Van Every
Company: IDEQ
E-mail: lynn.vanevery@deq.idaho.gov
Telephone: 208-236-6160

Invoice to:

Name: Kasey Guthrie
Company: IDEQ
E-mail: kasey.guthrie@deq.idaho.gov
Address: SAME
Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

PROJECT INFORMATION

Quote #: 4-DAY-AVE
Project/PO #: 9155 6003 62064 5010 700
Reporting state for compliance testing: ID
Sampler's Name: Greg Mladenka
Are any samples NRC licensable material? NO

ANALYSES REQUESTED *(attach list or use quote number)*

QUOTE

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers
Angus Cr.	5/11/07 : COMP	SW	5
Last Cr.	5/10/07		
Georgetown Cr. Below Mine	5/10/07		
Goodheart Cr.	5/10/07		

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
[signature]	5/14/07 1400	[signature] 5/15/07	

FRMAD050.03.05.02 White - Return with sample. Yellow - Retain for your records.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Short Holdtime

Idaho Dept of Environmental Quality ACZ Project ID: ***L62589***
Project ID: 91556003620645010700

Samplenum	ClientID	Collectdate	Receivedate	Prod	Holddays	Holddate	Past?
L62589-01	ANGUS CR	05/11/07 0:00	05/15/07	N-NO3NO2	2	05/13/07 0:00	PAST
L62589-02	LAST CR	05/10/07 0:00	05/15/07	TSS	7	05/17/07 23:59	SHORT
L62589-02	LAST CR	05/10/07 0:00	05/15/07	N-NO3NO2	2	05/12/07 0:00	PAST
L62589-03	EORGETOWN CR BELOW	05/10/07 0:00	05/15/07	TSS	7	05/17/07 23:59	SHORT
L62589-03	EORGETOWN CR BELOW	05/10/07 0:00	05/15/07	N-NO3NO2	2	05/12/07 0:00	PAST
L62589-04	GOODHEART CR	05/10/07 0:00	05/15/07	TSS	7	05/17/07 23:59	SHORT
L62589-04	GOODHEART CR	05/10/07 0:00	05/15/07	N-NO3NO2	2	05/12/07 0:00	PAST

IDDEQ L62589

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 05/17/07 10:12

Account Code: IDDEQ
ACZ Project ID: L62589
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62589-01

Client ID:	ANGUS CR	Priority:	-	Sampled:	5/11/2007
Quote Num	4-DAY-AVE	Due:	5/28/2007	Received:	5/15/2007
Locator:		Site:	91556003620645010700		

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Diges	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

IDDEQ L62589

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 05/17/07 10:12

Account Code: IDDEQ
ACZ Project ID: L62589
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62589-02

Client ID:	LAST CR	Priority:	-	Sampled:	5/10/2007
Quote Num	4-DAY-AVE	Due:	5/28/2007	Received:	5/15/2007
Locator:		Site:	91556003620645010700		

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Diges	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

IDDEQ L62589

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 05/17/07 10:12

Account Code: IDDEQ
ACZ Project ID: L62589
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62589-03

Client ID: GEORGETOWN CR BEL
Quote Num 4-DAY-AVE
Locator:

Priority: -
Due: 5/28/2007
Site: 91556003620645010700

Sampled: 5/10/2007
Received: 5/15/2007

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Diges	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

IDDEQ L62589

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 05/17/07 10:12

Account Code: IDDEQ
ACZ Project ID: L62589
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62589-04

Client ID: GOODHEART CR
Quote Num 4-DAY-AVE
Locator:

Priority: -
Due: 5/28/2007
Site: 91556003620645010700

Sampled: 5/10/2007
Received: 5/15/2007

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digest	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

CLIENT SAMPLE ID REVIEW	COC SCANNED	LOGIN REVIEW	FINAL PDFS EMAILED
Signature:	Signature:	Signature:	Signature:
Date:	Date:	Date:	Date:

Analytical Report for Project Number L62591

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

May 30, 2007

Report to:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way Suite 300
Pocatello, ID 83201

Bill to:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way Suite 300
Pocatello, ID 83201

cc: Lynn Van Every

Project ID: 9155600362064.501070
ACZ Project ID: L62591

Greg Mladenka:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 15, 2007. This project has been assigned to ACZ's project number, L62591. Please reference this number in all future inquiries.

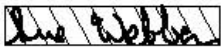
All analyses were performed according to ACZ's Quality Assurance Plan, version 11.0. The enclosed results relate only to the samples received under L62591. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after June 30, 2007. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than $10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.



30/May/07

Sue Webber, Project Manager, has reviewed and approved this report in its entirety.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 9155600362064.501070
Sample ID: WHITE CREEK

ACZ Sample ID: ***L62591-01***
Date Sampled: *05/10/07 00:00*
Date Received: *05/15/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/25/07 11:16	nps

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 20:30	jjr
Calcium, dissolved	M200.7 ICP	58.1			mg/L	0.2	1	05/23/07 1:47	djt
Chromium, dissolved	M200.8 ICP-MS	0.0004	B		mg/L	0.0001	0.0005	05/17/07 20:30	jjr
Copper, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.003	05/17/07 20:30	jjr
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 20:30	jjr
Magnesium, dissolved	M200.7 ICP	11.3			mg/L	0.2	1	05/23/07 1:47	djt
Nickel, dissolved	M200.8 ICP-MS	0.0008	B		mg/L	0.0006	0.003	05/17/07 20:30	jjr
Selenium, total	SM 3114 B, AA-Hydride	0.007			mg/L	0.001	0.005	05/25/07 17:02	gme
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 20:30	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0010			mg/L	0.0002	0.001	05/17/07 20:30	jjr
Zinc, dissolved	M200.7 ICP	0.01	B		mg/L	0.01	0.05	05/23/07 17:56	djt

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		170			mg/L	2	20	05/24/07 0:00	wpa
Carbonate as CaCO3		11	B		mg/L	2	20	05/24/07 0:00	wpa
Hydroxide as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Total Alkalinity		180			mg/L	2	20	05/24/07 0:00	wpa
Carbon, total organic (TOC)	M415.1 Combustion/IR	3	B	*	mg/L	1	5	05/25/07 13:06	nps/jag
Hardness as CaCO3	SM2340B - Calculation	192			mg/L	1	7	05/30/07 10:10	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.02	0.1	05/15/07 20:35	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.04	B		mg/L	0.01	0.05	05/26/07 18:31	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric		U	*	mg/L	5	20	05/16/07 13:37	aeh

** Please refer to Qualifier Reports for detail.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 9155600362064.501070
Sample ID: TRAIL CREEK

ACZ Sample ID: ***L62591-02***
Date Sampled: *05/11/07 00:00*
Date Received: *05/15/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/25/07 11:29	nps

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 20:35	jjr
Calcium, dissolved	M200.7 ICP	67.8			mg/L	0.2	1	05/23/07 1:51	djt
Chromium, dissolved	M200.8 ICP-MS	0.0005	B		mg/L	0.0001	0.0005	05/17/07 20:35	jjr
Copper, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.003	05/17/07 20:35	jjr
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 20:35	jjr
Magnesium, dissolved	M200.7 ICP	12.4			mg/L	0.2	1	05/23/07 1:51	djt
Nickel, dissolved	M200.8 ICP-MS	0.0010	B		mg/L	0.0006	0.003	05/17/07 20:35	jjr
Selenium, total	SM 3114 B, AA-Hydride		U		mg/L	0.001	0.005	05/25/07 17:04	gme
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 20:35	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0007	B		mg/L	0.0002	0.001	05/17/07 20:35	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/23/07 18:00	djt

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		199			mg/L	2	20	05/24/07 0:00	wpa
Carbonate as CaCO3		10	B		mg/L	2	20	05/24/07 0:00	wpa
Hydroxide as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Total Alkalinity		209			mg/L	2	20	05/24/07 0:00	wpa
Carbon, total organic (TOC)	M415.1 Combustion/IR	4	B	*	mg/L	1	5	05/25/07 13:21	nps/jag
Hardness as CaCO3	SM2340B - Calculation	220			mg/L	1	7	05/30/07 10:10	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.02	0.1	05/15/07 20:36	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.03	B		mg/L	0.01	0.05	05/26/07 18:33	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric		U	*	mg/L	5	20	05/16/07 13:39	aeh

** Please refer to Qualifier Reports for detail.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 9155600362064.501070
Sample ID: DOUBLE CREEK

ACZ Sample ID: ***L62591-03***
Date Sampled: *05/11/07 00:00*
Date Received: *05/15/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/18/07 18:22	lbn

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 20:39	jjr
Calcium, dissolved	M200.7 ICP	152			mg/L	0.2	1	05/23/07 1:55	djt
Chromium, dissolved	M200.8 ICP-MS	0.0004	B		mg/L	0.0001	0.0005	05/17/07 20:39	jjr
Copper, dissolved	M200.8 ICP-MS	0.0007	B		mg/L	0.0005	0.003	05/17/07 20:39	jjr
Lead, dissolved	M200.8 ICP-MS	0.0002	B		mg/L	0.0001	0.0005	05/17/07 20:39	jjr
Magnesium, dissolved	M200.7 ICP	40.2			mg/L	0.2	1	05/23/07 1:55	djt
Nickel, dissolved	M200.8 ICP-MS	0.0030	B		mg/L	0.0006	0.003	05/17/07 20:39	jjr
Selenium, total	SM 3114 B, AA-Hydride	0.004	B		mg/L	0.001	0.005	05/25/07 17:09	gme
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 20:39	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0012			mg/L	0.0002	0.001	05/17/07 20:39	jjr
Zinc, dissolved	M200.7 ICP	0.02	B		mg/L	0.01	0.05	05/23/07 18:04	djt

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		219			mg/L	2	20	05/24/07 0:00	wpa
Carbonate as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Hydroxide as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Total Alkalinity		219			mg/L	2	20	05/24/07 0:00	wpa
Carbon, total organic (TOC)	M415.1 Combustion/IR	5		*	mg/L	1	5	05/25/07 14:04	nps/jag
Hardness as CaCO3	SM2340B - Calculation	545			mg/L	1	7	05/30/07 10:10	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.04	BH	*	mg/L	0.02	0.1	05/15/07 20:37	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.15		*	mg/L	0.01	0.05	05/19/07 19:11	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric		U	*	mg/L	5	20	05/16/07 13:41	aeh

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 9155600362064.501070
Sample ID: BLACKFOOT R. ABOVE N

ACZ Sample ID: ***L62591-04***
Date Sampled: *05/10/07 00:00*
Date Received: *05/15/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/17/07 20:14	lbn

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 21:36	jjr
Calcium, dissolved	M200.7 ICP	57.2			mg/L	0.2	1	05/23/07 1:59	djt
Chromium, dissolved	M200.8 ICP-MS	0.0005	B		mg/L	0.0001	0.0005	05/17/07 21:36	jjr
Copper, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.003	05/17/07 21:36	jjr
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 21:36	jjr
Magnesium, dissolved	M200.7 ICP	11.1			mg/L	0.2	1	05/23/07 1:59	djt
Nickel, dissolved	M200.8 ICP-MS	0.0008	B		mg/L	0.0006	0.003	05/17/07 21:36	jjr
Selenium, total	SM 3114 B, AA-Hydride	0.006			mg/L	0.001	0.005	05/25/07 17:10	gme
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 21:36	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0008	B		mg/L	0.0002	0.001	05/17/07 21:36	jjr
Zinc, dissolved	M200.7 ICP		U	*	mg/L	0.01	0.05	05/23/07 18:08	djt

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		174			mg/L	2	20	05/24/07 0:00	wpa
Carbonate as CaCO3		9	B		mg/L	2	20	05/24/07 0:00	wpa
Hydroxide as CaCO3			U		mg/L	2	20	05/24/07 0:00	wpa
Total Alkalinity		184			mg/L	2	20	05/24/07 0:00	wpa
Carbon, total organic (TOC)	M415.1 Combustion/IR	3	B	*	mg/L	1	5	05/25/07 14:18	nps/jag
Hardness as CaCO3	SM2340B - Calculation	189			mg/L	1	7	05/30/07 10:10	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.02	0.1	05/15/07 20:38	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.05		*	mg/L	0.01	0.05	05/19/07 17:59	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric		U	*	mg/L	5	20	05/16/07 13:43	aeh

** Please refer to Qualifier Reports for detail.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Reference

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit, typically 5 times the MDL.
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calivation Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
U	Analyte was analyzed for but not detected at the indicated MDL

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(5)	EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
(6)	Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.

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Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID: 9155600362064.501070

ACZ Project ID: ***L62591***

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225353													
WG225353LCSW1	LCSW	05/24/07 16:57	WC070523-1	820		806	mg/L	98.3	80	120			
L62595-03DUP	DUP	05/24/07 19:32			257	260.7	mg/L				1.4	20	
WG225353LCSW3	LCSW	05/24/07 19:43	WC070523-1	820		806.2	mg/L	98.3	80	120			
WG225353LCSW5	LCSW	05/24/07 22:24	WC070523-1	820		813.1	mg/L	99.2	80	120			

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05121	mg/L	102.4	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0003	0.0003			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05295	mg/L	105.9	85	115			
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.1		.09893	mg/L	98.9	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0003	0.0003			
L62588-02AS	AS	05/17/07 19:46	MS070425-3	.05	U	.054	mg/L	108	70	130			
L62588-02ASD	ASD	05/17/07 19:50	MS070425-3	.05	U	.05198	mg/L	104	70	130	3.81	20	
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.1		.09719	mg/L	97.2	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0003	0.0003			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.1		.09539	mg/L	95.4	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0003	0.0003			
WG224904													
WG224904ICV	ICV	05/17/07 21:21	MS070430-1	.05		.05186	mg/L	103.7	90	110			
WG224904ICB	ICB	05/17/07 21:26				U	mg/L		-0.0003	0.0003			
WG224904LFB	LFB	05/17/07 21:31	MS070425-3	.05		.05345	mg/L	106.9	85	115			
L62591-04AS	AS	05/17/07 21:41	MS070425-3	.05	U	.05142	mg/L	102.8	70	130			
L62591-04ASD	ASD	05/17/07 21:46	MS070425-3	.05	U	.05245	mg/L	104.9	70	130	1.98	20	
WG224904CCV1	CCV	05/17/07 22:20	MS070516-4	.1		.0993	mg/L	99.3	90	110			
WG224904CCB1	CCB	05/17/07 22:25				U	mg/L		-0.0003	0.0003			
WG224904CCV2	CCV	05/17/07 23:18	MS070516-4	.1		.09803	mg/L	98	90	110			
WG224904CCB2	CCB	05/17/07 23:23				U	mg/L		-0.0003	0.0003			
WG224904CCV3	CCV	05/17/07 23:52	MS070516-4	.1		.09949	mg/L	99.5	90	110			
WG224904CCB3	CCB	05/17/07 23:57				U	mg/L		-0.0003	0.0003			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62591***

Project ID: 9155600362064.501070

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225170													
WG225170ICV	ICV	05/23/07 0:35	II070518-6	100		100.06	mg/L	100.1	95	105			
WG225170ICB	ICB	05/23/07 0:40				U	mg/L		-0.6	0.6			
WG225170PQV	PQV	05/23/07 0:44	II070518-5	1		1.02	mg/L	102	70	130			
WG225170SIC	SIC	05/23/07 0:48	II070518-3	201		195.9	mg/L	97.5	1	200			
WG225170LFB	LFB	05/23/07 0:56	II070516-3	67.99189		70.01	mg/L	103	85	115			
L62588-02AS	AS	05/23/07 1:05	II070516-3	67.99189	57.2	125.3	mg/L	100.2	85	115			
L62588-02ASD	ASD	05/23/07 1:09	II070516-3	67.99189	57.2	127.45	mg/L	103.3	85	115	1.7	20	
WG225170CCV1	CCV	05/23/07 1:26	II070518-7	50		52.76	mg/L	105.5	90	110			
WG225170CCB1	CCB	05/23/07 1:30				U	mg/L		-0.6	0.6			
L62591-04AS	AS	05/23/07 2:04	II070516-3	67.99189	57.2	126.9	mg/L	102.5	85	115			
L62591-04ASD	ASD	05/23/07 2:08	II070516-3	67.99189	57.2	133.63	mg/L	112.4	85	115	5.17	20	
WG225170CCV2	CCV	05/23/07 2:16	II070518-7	50		51.73	mg/L	103.5	90	110			
WG225170CCB2	CCB	05/23/07 2:20				U	mg/L		-0.6	0.6			
WG225170CCV3	CCV	05/23/07 2:58	II070518-7	50		52.17	mg/L	104.3	90	110			
WG225170CCB3	CCB	05/23/07 3:03				U	mg/L		-0.6	0.6			

Carbon, total organic (TOC) M415.1 Combustion/IR

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225370													
WG225370ICV	ICV	05/25/07 10:43	WI070426-1	75		72.5	mg/L	96.7	90	110			
WG225370ICB	ICB	05/25/07 10:57				U	mg/L		-3	3			
WG225370LFB1	LFB	05/25/07 11:11	WI070507-2	50		45.2	mg/L	90.4	90	110			
L62580-06DUP	DUP	05/25/07 11:40			7	6.3	mg/L				10.5	20	RA
L62586-01AS	AS	05/25/07 12:09	WI070507-2	50	4	46.5	mg/L	85	90	110			M2
WG225370CCV1	CCV	05/25/07 13:35	WI070507-1	100		95.7	mg/L	95.7	90	110			
WG225370CCB1	CCB	05/25/07 13:49				U	mg/L		-3	3			
WG225370CCV2	CCV	05/25/07 16:27	WI070507-1	100		93.9	mg/L	93.9	90	110			
WG225370CCB2	CCB	05/25/07 16:41				U	mg/L		-3	3			
WG225370CCV3	CCV	05/25/07 19:18	WI070507-1	100		95.9	mg/L	95.9	90	110			
WG225370CCB3	CCB	05/25/07 19:33				U	mg/L		-3	3			
WG225370CCV4	CCV	05/25/07 21:42	WI070507-1	100		94.9	mg/L	94.9	90	110			
WG225370CCB4	CCB	05/25/07 21:56				U	mg/L		-3	3			
WG225370CCV5	CCV	05/28/07 8:22	WI070507-1	100		101.1	mg/L	101.1	90	110			
WG225370CCB5	CCB	05/28/07 8:37				U	mg/L		-3	3			
WG225370LFB2	LFB	05/28/07 8:51	WI070507-2	50		51.8	mg/L	103.6	90	110			
WG225370CCV6	CCV	05/28/07 9:20	WI070507-1	100		103.9	mg/L	103.9	90	110			
WG225370CCB6	CCB	05/28/07 9:34				U	mg/L		-3	3			

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Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID: 9155600362064.501070

ACZ Project ID: ***L62591***

Chromium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05061	mg/L	101.2	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0003	0.0003			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05092	mg/L	101.8	85	115			
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.1		.09813	mg/L	98.1	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0003	0.0003			
L62588-02AS	AS	05/17/07 19:46	MS070425-3	.05	.0004	.05534	mg/L	109.9	70	130			
L62588-02ASD	ASD	05/17/07 19:50	MS070425-3	.05	.0004	.05148	mg/L	102.2	70	130	7.23	20	
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.1		.09675	mg/L	96.8	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0003	0.0003			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.1		.09422	mg/L	94.2	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0003	0.0003			
WG224904													
WG224904ICV	ICV	05/17/07 21:21	MS070430-1	.05		.05319	mg/L	106.4	90	110			
WG224904ICB	ICB	05/17/07 21:26				U	mg/L		-0.0003	0.0003			
WG224904LFB	LFB	05/17/07 21:31	MS070425-3	.05		.05335	mg/L	106.7	85	115			
L62591-04AS	AS	05/17/07 21:41	MS070425-3	.05	.0005	.05268	mg/L	104.4	70	130			
L62591-04ASD	ASD	05/17/07 21:46	MS070425-3	.05	.0005	.05351	mg/L	106	70	130	1.56	20	
WG224904CCV1	CCV	05/17/07 22:20	MS070516-4	.1		.1008	mg/L	100.8	90	110			
WG224904CCB1	CCB	05/17/07 22:25				U	mg/L		-0.0003	0.0003			
WG224904CCV2	CCV	05/17/07 23:18	MS070516-4	.1		.09829	mg/L	98.3	90	110			
WG224904CCB2	CCB	05/17/07 23:23				.00011	mg/L		-0.0003	0.0003			
WG224904CCV3	CCV	05/17/07 23:52	MS070516-4	.1		.1003	mg/L	100.3	90	110			
WG224904CCB3	CCB	05/17/07 23:57				.00014	mg/L		-0.0003	0.0003			

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Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID: 9155600362064.501070

ACZ Project ID: ***L62591***

Copper, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05144	mg/L	102.9	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0015	0.0015			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05078	mg/L	101.6	85	115			
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.25		.2427	mg/L	97.1	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0015	0.0015			
L62588-02AS	AS	05/17/07 19:46	MS070425-3	.05	U	.05323	mg/L	106.5	70	130			
L62588-02ASD	ASD	05/17/07 19:50	MS070425-3	.05	U	.04958	mg/L	99.2	70	130	7.1	20	
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.25		.2401	mg/L	96	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0015	0.0015			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.25		.234	mg/L	93.6	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0015	0.0015			
WG224904													
WG224904ICV	ICV	05/17/07 21:21	MS070430-1	.05		.05402	mg/L	108	90	110			
WG224904ICB	ICB	05/17/07 21:26				U	mg/L		-0.0015	0.0015			
WG224904LFB	LFB	05/17/07 21:31	MS070425-3	.05		.05181	mg/L	103.6	85	115			
L62591-04AS	AS	05/17/07 21:41	MS070425-3	.05	U	.05061	mg/L	101.2	70	130			
L62591-04ASD	ASD	05/17/07 21:46	MS070425-3	.05	U	.05152	mg/L	103	70	130	1.78	20	
WG224904CCV1	CCV	05/17/07 22:20	MS070516-4	.25		.2495	mg/L	99.8	90	110			
WG224904CCB1	CCB	05/17/07 22:25				U	mg/L		-0.0015	0.0015			
WG224904CCV2	CCV	05/17/07 23:18	MS070516-4	.25		.2431	mg/L	97.2	90	110			
WG224904CCB2	CCB	05/17/07 23:23				U	mg/L		-0.0015	0.0015			
WG224904CCV3	CCV	05/17/07 23:52	MS070516-4	.25		.2469	mg/L	98.8	90	110			
WG224904CCB3	CCB	05/17/07 23:57				U	mg/L		-0.0015	0.0015			

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Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID: 9155600362064.501070

ACZ Project ID: ***L62591***

Lead, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05295	mg/L	105.9	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0003	0.0003			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05069	mg/L	101.4	85	115			
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.25		.2611	mg/L	104.4	90	110			
WG224901CCB1	CCB	05/17/07 19:23				.00019	mg/L		-0.0003	0.0003			
L62588-02AS	AS	05/17/07 19:46	MS070425-3	.05	U	.0571	mg/L	114.2	70	130			
L62588-02ASD	ASD	05/17/07 19:50	MS070425-3	.05	U	.05437	mg/L	108.7	70	130	4.9	20	
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.25		.2708	mg/L	108.3	90	110			
WG224901CCB2	CCB	05/17/07 20:17				.00011	mg/L		-0.0003	0.0003			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.25		.273	mg/L	109.2	90	110			
WG224901CCB3	CCB	05/17/07 20:48				.00013	mg/L		-0.0003	0.0003			
WG224904													
WG224904ICV	ICV	05/17/07 21:21	MS070430-1	.05		.05312	mg/L	106.2	90	110			
WG224904ICB	ICB	05/17/07 21:26				U	mg/L		-0.0003	0.0003			
WG224904LFB	LFB	05/17/07 21:31	MS070425-3	.05		.05165	mg/L	103.3	85	115			
L62591-04AS	AS	05/17/07 21:41	MS070425-3	.05	U	.05083	mg/L	101.7	70	130			
L62591-04ASD	ASD	05/17/07 21:46	MS070425-3	.05	U	.05061	mg/L	101.2	70	130	0.43	20	
WG224904CCV1	CCV	05/17/07 22:20	MS070516-4	.25		.2458	mg/L	98.3	90	110			
WG224904CCB1	CCB	05/17/07 22:25				.00018	mg/L		-0.0003	0.0003			
WG224904CCV2	CCV	05/17/07 23:18	MS070516-4	.25		.2427	mg/L	97.1	90	110			
WG224904CCB2	CCB	05/17/07 23:23				.00024	mg/L		-0.0003	0.0003			
WG224904CCV3	CCV	05/17/07 23:52	MS070516-4	.25		.2441	mg/L	97.6	90	110			
WG224904CCB3	CCB	05/17/07 23:57				.00018	mg/L		-0.0003	0.0003			

Magnesium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225170													
WG225170ICV	ICV	05/23/07 0:35	II070518-6	100		98.39	mg/L	98.4	95	105			
WG225170ICB	ICB	05/23/07 0:40				U	mg/L		-0.6	0.6			
WG225170PQV	PQV	05/23/07 0:44	II070518-5	1		1.02	mg/L	102	70	130			
WG225170SIC	SIC	05/23/07 0:48	II070518-3	201		201.33	mg/L	100.2	1	200			
WG225170LFB	LFB	05/23/07 0:56	II070516-3	54.96149		56.41	mg/L	102.6	85	115			
L62588-02AS	AS	05/23/07 1:05	II070516-3	54.96149	11.2	67.6	mg/L	102.6	85	115			
L62588-02ASD	ASD	05/23/07 1:09	II070516-3	54.96149	11.2	68.82	mg/L	104.8	85	115	1.79	20	
WG225170CCV1	CCV	05/23/07 1:26	II070518-7	50		51.22	mg/L	102.4	90	110			
WG225170CCB1	CCB	05/23/07 1:30				U	mg/L		-0.6	0.6			
L62591-04AS	AS	05/23/07 2:04	II070516-3	54.96149	11.1	68.97	mg/L	105.3	85	115			
L62591-04ASD	ASD	05/23/07 2:08	II070516-3	54.96149	11.1	73.79	mg/L	114.1	85	115	6.75	20	
WG225170CCV2	CCV	05/23/07 2:16	II070518-7	50		50.68	mg/L	101.4	90	110			
WG225170CCB2	CCB	05/23/07 2:20				U	mg/L		-0.6	0.6			
WG225170CCV3	CCV	05/23/07 2:58	II070518-7	50		50.92	mg/L	101.8	90	110			
WG225170CCB3	CCB	05/23/07 3:03				U	mg/L		-0.6	0.6			

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Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID: 9155600362064.501070

ACZ Project ID: ***L62591***

Nickel, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05117	mg/L	102.3	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0018	0.0018			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05225	mg/L	104.5	85	115			
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.25		.2415	mg/L	96.6	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0018	0.0018			
L62588-02AS	AS	05/17/07 19:46	MS070425-3	.05	.0009	.05341	mg/L	105	70	130			
L62588-02ASD	ASD	05/17/07 19:50	MS070425-3	.05	.0009	.05032	mg/L	98.8	70	130	5.96	20	
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.25		.2436	mg/L	97.4	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0018	0.0018			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.25		.2375	mg/L	95	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0018	0.0018			
WG224904													
WG224904ICV	ICV	05/17/07 21:21	MS070430-1	.05		.05385	mg/L	107.7	90	110			
WG224904ICB	ICB	05/17/07 21:26				U	mg/L		-0.0018	0.0018			
WG224904LFB	LFB	05/17/07 21:31	MS070425-3	.05		.05271	mg/L	105.4	85	115			
L62591-04AS	AS	05/17/07 21:41	MS070425-3	.05	.0008	.05089	mg/L	100.2	70	130			
L62591-04ASD	ASD	05/17/07 21:46	MS070425-3	.05	.0008	.05187	mg/L	102.1	70	130	1.91	20	
WG224904CCV1	CCV	05/17/07 22:20	MS070516-4	.25		.2522	mg/L	100.9	90	110			
WG224904CCB1	CCB	05/17/07 22:25				U	mg/L		-0.0018	0.0018			
WG224904CCV2	CCV	05/17/07 23:18	MS070516-4	.25		.2461	mg/L	98.4	90	110			
WG224904CCB2	CCB	05/17/07 23:23				U	mg/L		-0.0018	0.0018			
WG224904CCV3	CCV	05/17/07 23:52	MS070516-4	.25		.2459	mg/L	98.4	90	110			
WG224904CCB3	CCB	05/17/07 23:57				U	mg/L		-0.0018	0.0018			

Nitrate/Nitrite as N, dissolved M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224770													
WG224770ICV	ICV	05/15/07 18:28	WI070308-3	2.416		2.406	mg/L	99.6	90	110			
WG224770ICB	ICB	05/15/07 18:29				U	mg/L		-0.06	0.06			
WG224771													
WG224771ICV	ICV	05/15/07 18:48	WI070308-3	2.416		2.393	mg/L	99	90	110			
WG224771ICB	ICB	05/15/07 18:49				U	mg/L		-0.06	0.06			
WG224771LFB1	LFB	05/15/07 18:50	WI070307-9	2		2.016	mg/L	100.8	90	110			
WG224771CCV1	CCV	05/15/07 19:03	WI070515-1	2		1.974	mg/L	98.7	90	110			
WG224771CCB1	CCB	05/15/07 19:05				U	mg/L		-0.06	0.06			
WG224771CCV2	CCV	05/15/07 19:19	WI070515-1	2		1.967	mg/L	98.4	90	110			
WG224771CCB2	CCB	05/15/07 19:21				U	mg/L		-0.06	0.06			
WG224771LFB2	LFB	05/15/07 19:28	WI070307-9	2		2.009	mg/L	100.5	90	110			
L62589-01AS	AS	05/15/07 19:31	WI070307-9	2	.04	2.093	mg/L	102.7	90	110			
L62589-02DUP	DUP	05/15/07 19:33			U	U	mg/L				0	20	RA
WG224771CCV3	CCV	05/15/07 19:34	WI070515-1	2		1.964	mg/L	98.2	90	110			
WG224771CCB3	CCB	05/15/07 19:37				U	mg/L		-0.06	0.06			
WG224771CCV4	CCV	05/15/07 19:50	WI070515-1	2		1.978	mg/L	98.9	90	110			
WG224771CCB4	CCB	05/15/07 19:53				U	mg/L		-0.06	0.06			
WG224771CCV5	CCV	05/15/07 20:30	WI070515-1	2		1.957	mg/L	97.9	90	110			
WG224771CCB5	CCB	05/15/07 20:32				U	mg/L		-0.06	0.06			
WG224771CCV6	CCV	05/15/07 20:42	WI070515-1	2		1.957	mg/L	97.9	90	110			
WG224771CCB6	CCB	05/15/07 20:44				U	mg/L		-0.06	0.06			

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID: 9155600362064.501070

ACZ Project ID: ***L62591***

Phosphorus, total M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225026													
WG224918ICV	ICV	05/19/07 17:26	WI070329-1	.65228		.717	mg/L	109.9	90	110			
WG224918ICB	ICB	05/19/07 17:28				U	mg/L		-0.03	0.03			
WG224918LRB	LRB	05/19/07 17:29				U	mg/L		-0.03	0.03			
WG224918LFB	LFB	05/19/07 17:31	WI070510-2	.5		.517	mg/L	103.4	90	110			
L62565-01LFM	LFM	05/19/07 17:33	WI070510-2	.5	.11	.642	mg/L	106.4	90	110			
L62565-03DUP	DUP	05/19/07 17:35			U	U	mg/L				0	20	RA
WG224918CCV1	CCV	05/19/07 17:41	WI070510-2	.5		.494	mg/L	98.8	90	110			
WG224918CCB1	CCB	05/19/07 17:42				U	mg/L		-0.03	0.03			
L62569-01LFM	LFM	05/19/07 17:49	WI070510-2	.5	U	.512	mg/L	102.4	90	110			
L62569-02DUP	DUP	05/19/07 17:51			U	U	mg/L				0	20	RA
WG224918CCV2	CCV	05/19/07 17:55	WI070510-2	.5		.496	mg/L	99.2	90	110			
WG224918CCB2	CCB	05/19/07 17:56				U	mg/L		-0.03	0.03			
WG224918CCV3	CCV	05/19/07 18:04	WI070510-2	.5		.498	mg/L	99.6	90	110			
WG224918CCB3	CCB	05/19/07 18:05				U	mg/L		-0.03	0.03			
WG225028													
WG225004ICV	ICV	05/19/07 18:16	WI070329-1	.65228		.679	mg/L	104.1	90	110			
WG225004ICB	ICB	05/19/07 18:18				U	mg/L		-0.03	0.03			
WG225028ICV1	ICV	05/19/07 19:00	WI070329-1	.65228		.675	mg/L	103.5	90	110			
WG225028ICB1	ICB	05/19/07 19:02				U	mg/L		-0.03	0.03			
WG225004LRB	LRB	05/19/07 19:03				U	mg/L		-0.03	0.03			
WG225004LFB	LFB	05/19/07 19:04	WI070510-2	.5		.524	mg/L	104.8	90	110			
L62588-01LFM	LFM	05/19/07 19:06	WI070510-2	.5	.06	.603	mg/L	108.6	90	110			
L62588-02DUP	DUP	05/19/07 19:09			.06	.055	mg/L				8.7	20	RA
WG225004CCV1	CCV	05/19/07 19:14	WI070510-2	.5		.496	mg/L	99.2	90	110			
WG225004CCB1	CCB	05/19/07 19:16				U	mg/L		-0.03	0.03			
WG225004CCV2	CCV	05/19/07 19:28	WI070510-2	.5		.496	mg/L	99.2	90	110			
WG225004CCB2	CCB	05/19/07 19:30				U	mg/L		-0.03	0.03			
WG225004CCV3	CCV	05/19/07 19:38	WI070510-2	.5		.495	mg/L	99	90	110			
WG225004CCB3	CCB	05/19/07 19:39				U	mg/L		-0.03	0.03			
WG225459													
WG225405ICV	ICV	05/26/07 18:22	WI070329-1	.65228		.598	mg/L	91.7	90	110			
WG225405ICB	ICB	05/26/07 18:23				U	mg/L		-0.03	0.03			
WG225405LRB	LRB	05/26/07 18:25				U	mg/L		-0.03	0.03			
WG225405LFB	LFB	05/26/07 18:26	WI070525-2	.5		.462	mg/L	92.4	90	110			
L62589-03LFM	LFM	05/26/07 18:28	WI070525-2	.5	.17	.663	mg/L	98.6	90	110			
L62589-04DUP	DUP	05/26/07 18:30			.1	.107	mg/L				6.8	20	
WG225405CCV1	CCV	05/26/07 18:36	WI070525-2	.5		.514	mg/L	102.8	90	110			
WG225405CCB1	CCB	05/26/07 18:37				U	mg/L		-0.03	0.03			
WG225405CCV2	CCV	05/26/07 18:49	WI070525-2	.5		.521	mg/L	104.2	90	110			
WG225405CCB2	CCB	05/26/07 18:51				U	mg/L		-0.03	0.03			
WG225405CCV3	CCV	05/26/07 18:58	WI070525-2	.5		.529	mg/L	105.8	90	110			
WG225405CCB3	CCB	05/26/07 18:59				.019	mg/L		-0.03	0.03			

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Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID: 9155600362064.501070

ACZ Project ID: ***L62591***

Residue, Non-Filterable (TSS) @105C M160.2 - Gravimetric

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224800													
WG224800PBW	PBW	05/16/07 13:20				U	mg/L		-15	15			
WG224800LCSW	LCSW	05/16/07 13:22	PCN27104	152		132	mg/L	86.8	80	120			
L62591-04DUP	DUP	05/16/07 13:46			U	6	mg/L				200	20	RA

Selenium, total SM 3114 B, AA-Hydride

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225328													
WG225328ICV	ICV	05/25/07 16:46	II070521-1	.025		.0252	mg/L	100.8	90	110			
WG225328ICB	ICB	05/25/07 16:48				U	mg/L		-0.003	0.003			
WG225328LRB	LRB	05/25/07 16:49				U	mg/L		-0.003	0.003			
WG225328LFB	LFB	05/25/07 16:51	II070515-2	.02		.0203	mg/L	101.5	85	115			
L62589-01LFM	LFM	05/25/07 16:54	II070515-2	.02	.004	.0244	mg/L	102	85	115			
L62589-01LFMD	LFMD	05/25/07 16:56	II070515-2	.02	.004	.0243	mg/L	101.5	85	115	0.41	20	
WG225328CCV1	CCV	05/25/07 17:05	II070521-1	.025		.0253	mg/L	101.2	90	110			
WG225328CCB1	CCB	05/25/07 17:07				U	mg/L		-0.003	0.003			
WG225328CCV2	CCV	05/25/07 17:25	II070521-1	.025		.025	mg/L	100	90	110			
WG225328CCB2	CCB	05/25/07 17:27				U	mg/L		-0.003	0.003			
WG225328CCV3	CCV	05/25/07 17:50	II070521-1	.025		.023	mg/L	92	90	110			
WG225328CCB3	CCB	05/25/07 17:52				U	mg/L		-0.003	0.003			
WG225328CCV4	CCV	05/25/07 18:00	II070521-1	.025		.0263	mg/L	105.2	90	110			
WG225328CCB4	CCB	05/25/07 18:01				U	mg/L		-0.003	0.003			

Silver, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.02006		.01868	mg/L	93.1	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.00015	0.00015			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.0125375		.01221	mg/L	97.4	85	115			
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.025075		.02441	mg/L	97.3	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.00015	0.00015			
L62588-02AS	AS	05/17/07 19:46	MS070425-3	.0125375	U	.01138	mg/L	90.8	70	130			
L62588-02ASD	ASD	05/17/07 19:50	MS070425-3	.0125375	U	.0111	mg/L	88.5	70	130	2.49	20	
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.025075		.02353	mg/L	93.8	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.00015	0.00015			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.025075		.0228	mg/L	90.9	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.00015	0.00015			
WG224904													
WG224904ICV	ICV	05/17/07 21:21	MS070430-1	.02006		.01921	mg/L	95.8	90	110			
WG224904ICB	ICB	05/17/07 21:26				U	mg/L		-0.00015	0.00015			
WG224904LFB	LFB	05/17/07 21:31	MS070425-3	.0125375		.0122	mg/L	97.3	85	115			
L62591-04AS	AS	05/17/07 21:41	MS070425-3	.0125375	U	.01077	mg/L	85.9	70	130			
L62591-04ASD	ASD	05/17/07 21:46	MS070425-3	.0125375	U	.01125	mg/L	89.7	70	130	4.36	20	
WG224904CCV1	CCV	05/17/07 22:20	MS070516-4	.025075		.02476	mg/L	98.7	90	110			
WG224904CCB1	CCB	05/17/07 22:25				U	mg/L		-0.00015	0.00015			
WG224904CCV2	CCV	05/17/07 23:18	MS070516-4	.025075		.02442	mg/L	97.4	90	110			
WG224904CCB2	CCB	05/17/07 23:23				U	mg/L		-0.00015	0.00015			
WG224904CCV3	CCV	05/17/07 23:52	MS070516-4	.025075		.0251	mg/L	100.1	90	110			
WG224904CCB3	CCB	05/17/07 23:57				U	mg/L		-0.00015	0.00015			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62591***

Project ID: 9155600362064.501070

Vanadium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224901													
WG224901ICV	ICV	05/17/07 18:25	MS070430-1	.05		.05152	mg/L	103	90	110			
WG224901ICB	ICB	05/17/07 18:30				U	mg/L		-0.0006	0.0006			
WG224901LFB	LFB	05/17/07 18:34	MS070425-3	.05		.05002	mg/L	100	85	115			
WG224901CCV1	CCV	05/17/07 19:19	MS070516-4	.1		.09961	mg/L	99.6	90	110			
WG224901CCB1	CCB	05/17/07 19:23				U	mg/L		-0.0006	0.0006			
L62588-02AS	AS	05/17/07 19:46	MS070425-3	.05	.0013	.05638	mg/L	110.2	70	130			
L62588-02ASD	ASD	05/17/07 19:50	MS070425-3	.05	.0013	.05275	mg/L	102.9	70	130	6.65	20	
WG224901CCV2	CCV	05/17/07 20:13	MS070516-4	.1		.1	mg/L	100	90	110			
WG224901CCB2	CCB	05/17/07 20:17				U	mg/L		-0.0006	0.0006			
WG224901CCV3	CCV	05/17/07 20:44	MS070516-4	.1		.09633	mg/L	96.3	90	110			
WG224901CCB3	CCB	05/17/07 20:48				U	mg/L		-0.0006	0.0006			
WG224904													
WG224904ICV	ICV	05/17/07 21:21	MS070430-1	.05		.05336	mg/L	106.7	90	110			
WG224904ICB	ICB	05/17/07 21:26				U	mg/L		-0.0006	0.0006			
WG224904LFB	LFB	05/17/07 21:31	MS070425-3	.05		.05207	mg/L	104.1	85	115			
L62591-04AS	AS	05/17/07 21:41	MS070425-3	.05	.0008	.05245	mg/L	103.3	70	130			
L62591-04ASD	ASD	05/17/07 21:46	MS070425-3	.05	.0008	.05325	mg/L	104.9	70	130	1.51	20	
WG224904CCV1	CCV	05/17/07 22:20	MS070516-4	.1		.09972	mg/L	99.7	90	110			
WG224904CCB1	CCB	05/17/07 22:25				U	mg/L		-0.0006	0.0006			
WG224904CCV2	CCV	05/17/07 23:18	MS070516-4	.1		.0988	mg/L	98.8	90	110			
WG224904CCB2	CCB	05/17/07 23:23				U	mg/L		-0.0006	0.0006			
WG224904CCV3	CCV	05/17/07 23:52	MS070516-4	.1		.1017	mg/L	101.7	90	110			
WG224904CCB3	CCB	05/17/07 23:57				U	mg/L		-0.0006	0.0006			

Zinc, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225255													
WG225255ICV	ICV	05/23/07 16:46	II070518-6	2		1.958	mg/L	97.9	95	105			
WG225255ICB	ICB	05/23/07 16:50				U	mg/L		-0.03	0.03			
WG225255PQV	PQV	05/23/07 16:54	II070518-5	.05		.061	mg/L	122	70	130			
WG225255SIC	SIC	05/23/07 16:58	II070518-3	.1		.11	mg/L	110	80	120			
WG225255LFB	LFB	05/23/07 17:06	II070516-3	.5		.521	mg/L	104.2	85	115			
L62588-02AS	AS	05/23/07 17:15	II070516-3	.5	U	.531	mg/L	106.2	85	115			
L62588-02ASD	ASD	05/23/07 17:19	II070516-3	.5	U	.547	mg/L	109.4	85	115	2.97	20	
WG225255CCV1	CCV	05/23/07 17:35	II070518-7	1		.987	mg/L	98.7	90	110			
WG225255CCB1	CCB	05/23/07 17:39				U	mg/L		-0.03	0.03			
L62591-04AS	AS	05/23/07 18:12	II070516-3	.5	U	.545	mg/L	109	85	115			
L62591-04ASD	ASD	05/23/07 18:16	II070516-3	.5	U	.583	mg/L	116.6	85	115	6.74	20	MA
WG225255CCV2	CCV	05/23/07 18:20	II070518-7	1		1	mg/L	100	90	110			
WG225255CCB2	CCB	05/23/07 18:25				U	mg/L		-0.03	0.03			

ACZ Laboratories, Inc.
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Inorganic Extended Qualifier Report

Idaho Dept of Environmental Quality ACZ Project ID: ***L62591***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L62591-01	WG225370	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224771	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224800	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L62591-02	WG225370	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224771	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224800	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L62591-03	WG225370	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224771	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225028	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224800	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L62591-04	WG225255	Zinc, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG225370	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224771	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225026	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224800	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Certification Qualifiers

Idaho Dept of Environmental Quality ACZ Project ID: ***L62591***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Idaho Dept of Environmental Quality
9155600362064.501070

ACZ Project ID: L62591
Date Received: 5/15/2007
Received By:
Date Printed: 5/15/2007

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?	X		
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?		X	
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?			X
11) Are the trip blanks (VOA and/or Cyanide) present?			X
12) Are samples requiring no headspace, headspace free?			X
13) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

Some parameters were recieved past hold times.

Contact (For any discrepancies, the client must be contacted)

The client was not contacted.

Shipping Containers

Cooler Id		Temp (°C)	Rad (µR/hr)
359		3.6	15

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Idaho Dept of Environmental Quality
9155600362064.501070

ACZ Project ID: L62591
Date Received: 5/15/2007
Received By:

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	O < 2	T >12	N/A	RAD	ID
L62591-01	WHITE CREEK	Y	Y		Y							☐
L62591-02	TRAIL CREEK	Y	Y		Y							☐
L62591-03	DOUBLE CREEK	Y	Y		Y							☐
L62591-04	BLACKFOOT R. ABOVE N	Y	Y		Y							☐

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: _____

L62591

ACZ Laboratories, Inc. — CHAIN of CUSTODY

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Greg Mladenka
Company: Idaho DEQ
E-mail: greg.mladenka@deq.idaho.gov
Address: 444 Hospital Way, Ste 300 Pocatello, ID 83201
Telephone: 208-236-6160 / 251-9941 (c)

Copy of Report to:

Name: Lynn Van Every
Company: Idaho DEQ
E-mail: Lynn.Vanevery@deq.Idaho.gov
Telephone:

Invoice to:

Name: Kasey Guthrie
Company: IDEQ
E-mail: Kasey.guthrie@deq.idaho.gov
Address: Same
Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

PROJECT INFORMATION

Quote #: 4-DAY AVE.
Project/PO #: 9155 6003 62064.5010 700
Reporting state for compliance testing: ID
Sampler's Name: Greg Mladenka
Are any samples NRC licensable material? NO

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	QUOTE
White Creek	5/10/07 -COMP	SW	5	
Trail Creek	5/11/07			
Double Creek	5/11/07			
Blackfoot R. Above Narrows	5/10/07			

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
[signature]	5/14/07:1900	JMC	5/15/07 10:35

FRMAD050.03.05.02 White - Return with sample. Yellow - Retain for your records.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Short Holdtime

Idaho Dept of Environmental Quality ACZ Project ID: ***L62591***
Project ID: 9155600362064.501070

Samplenum	ClientID	Collectdate	Receivedate	Prod	Holddays	Holddate	Past?
L62591-01	WHITE CREEK	05/10/07 0:00	05/15/07	N-NO3NO2	2	05/12/07 0:00	PAST
L62591-01	WHITE CREEK	05/10/07 0:00	05/15/07	TSS	7	05/17/07 23:59	SHORT
L62591-02	TRAIL CREEK	05/11/07 0:00	05/15/07	N-NO3NO2	2	05/13/07 0:00	PAST
L62591-03	DOUBLE CREEK	05/11/07 0:00	05/15/07	N-NO3NO2	2	05/13/07 0:00	PAST
L62591-04	BLACKFOOT R. ABOVE N	05/10/07 0:00	05/15/07	TSS	7	05/17/07 23:59	SHORT
L62591-04	BLACKFOOT R. ABOVE N	05/10/07 0:00	05/15/07	N-NO3NO2	2	05/12/07 0:00	PAST

IDDEQ L62591

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 9155600362064.501070
Printed: 05/15/07 16:16

Account Code: IDDEQ
ACZ Project ID: L62591
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62591-01

Client ID: WHITE CREEK
Quote Num 4-DAY-AVE
Locator:

Priority: -
Due: 5/28/2007
Site: 9155600362064.501070

Sampled: 5/10/2007
Received: 5/15/2007

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digesl	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

IDDEQ L62591

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 9155600362064.501070
Printed: 05/15/07 16:16

Account Code: IDDEQ
ACZ Project ID: L62591
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62591-02

Client ID:	TRAIL CREEK	Priority:	-	Sampled:	5/11/2007
Quote Num	4-DAY-AVE	Due:	5/28/2007	Received:	5/15/2007
Locator:		Site:	9155600362064.501070		

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digesl	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

IDDEQ L62591

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 9155600362064.501070
Printed: 05/15/07 16:16

Account Code: IDDEQ
ACZ Project ID: L62591
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62591-03

Client ID: DOUBLE CREEK
Quote Num 4-DAY-AVE
Locator:

Priority: -
Due: 5/28/2007
Site: 9155600362064.501070

Sampled: 5/11/2007
Received: 5/15/2007

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digesl	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

IDDEQ L62591

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 9155600362064.501070
Printed: 05/15/07 16:16

Account Code: IDDEQ
ACZ Project ID: L62591
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62591-04

Client ID: BLACKFOOT R. ABOVE
Quote Num 4-DAY-AVE
Locator:

Priority: -
Due: 5/28/2007
Site: 9155600362064.501070

Sampled: 5/10/2007
Received: 5/15/2007

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digesl	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

CLIENT SAMPLE ID REVIEW	COC SCANNED	LOGIN REVIEW	FINAL PDFS EMAILED
Signature: _____	Signature: _____	Signature: _____	Signature: _____
Date: _____	Date: _____	Date: _____	Date: _____

Analytical Report for Project Number L62651

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

May 30, 2007

Report to:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way Suite 300
Pocatello, ID 83201

Bill to:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way Suite 300
Pocatello, ID 83201

cc: Lynn Van Every

Project ID: 97556003620645010700
ACZ Project ID: L62651

Greg Mladenka:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 16, 2007. This project has been assigned to ACZ's project number, L62651. Please reference this number in all future inquiries.

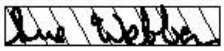
All analyses were performed according to ACZ's Quality Assurance Plan, version 11.0. The enclosed results relate only to the samples received under L62651. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after June 30, 2007. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than $10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.



30/May/07

Sue Webber, Project Manager, has reviewed and approved this report in its entirety.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 97556003620645010700
Sample ID: RASSMUSSEN CR

ACZ Sample ID: ***L62651-01***
Date Sampled: *05/10/07 00:00*
Date Received: *05/16/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/24/07 14:33	nps

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 23:33	jjr
Calcium, dissolved	M200.7 ICP	58.1			mg/L	0.2	1	05/23/07 3:56	msh
Chromium, dissolved	M200.8 ICP-MS	0.0003	B		mg/L	0.0001	0.0005	05/17/07 23:33	jjr
Copper, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.003	05/17/07 23:33	jjr
Lead, dissolved	M200.8 ICP-MS	0.0002	B		mg/L	0.0001	0.0005	05/17/07 23:33	jjr
Magnesium, dissolved	M200.7 ICP	9.9			mg/L	0.2	1	05/23/07 3:56	msh
Nickel, dissolved	M200.8 ICP-MS	0.0015	B		mg/L	0.0006	0.003	05/17/07 23:33	jjr
Selenium, total	SM 3114 B, AA-Hydride	0.001	B		mg/L	0.001	0.005	05/25/07 15:11	gme
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 23:33	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0006	B		mg/L	0.0002	0.001	05/17/07 23:33	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/23/07 3:56	msh

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		143	H		mg/L	2	20	05/25/07 0:00	cas
Carbonate as CaCO3			UH		mg/L	2	20	05/25/07 0:00	cas
Hydroxide as CaCO3			UH		mg/L	2	20	05/25/07 0:00	cas
Total Alkalinity		143	H	*	mg/L	2	20	05/25/07 0:00	cas
Carbon, total organic (TOC)	M415.1 Combustion/IR	3	B	*	mg/L	1	5	05/25/07 15:58	nps/jag
Hardness as CaCO3	SM2340B - Calculation	186			mg/L	1	7	05/30/07 11:48	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.04	BH	*	mg/L	0.02	0.1	05/16/07 20:10	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.07			mg/L	0.01	0.05	05/26/07 17:04	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	14	B	*	mg/L	5	20	05/17/07 14:40	aeh

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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 97556003620645010700
Sample ID: EAST MILL CR

ACZ Sample ID: ***L62651-02***
Date Sampled: *05/11/07 00:00*
Date Received: *05/16/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/24/07 14:40	nps

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 23:38	jjr
Calcium, dissolved	M200.7 ICP	70.6			mg/L	0.2	1	05/23/07 4:00	msh
Chromium, dissolved	M200.8 ICP-MS	0.0010			mg/L	0.0001	0.0005	05/17/07 23:38	jjr
Copper, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.003	05/17/07 23:38	jjr
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 23:38	jjr
Magnesium, dissolved	M200.7 ICP	15.8			mg/L	0.2	1	05/23/07 4:00	msh
Nickel, dissolved	M200.8 ICP-MS	0.0012	B		mg/L	0.0006	0.003	05/17/07 23:38	jjr
Selenium, total	SM 3114 B, AA-Hydride	0.43			mg/L	0.01	0.05	05/25/07 15:48	gme
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 23:38	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0010	B		mg/L	0.0002	0.001	05/17/07 23:38	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/23/07 4:00	msh

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		175			mg/L	2	20	05/25/07 0:00	cas
Carbonate as CaCO3		9	B		mg/L	2	20	05/25/07 0:00	cas
Hydroxide as CaCO3			U		mg/L	2	20	05/25/07 0:00	cas
Total Alkalinity		184			mg/L	2	20	05/25/07 0:00	cas
Carbon, total organic (TOC)	M415.1 Combustion/IR	1	B	*	mg/L	1	5	05/25/07 16:13	nps/jag
Hardness as CaCO3	SM2340B - Calculation	241			mg/L	1	7	05/30/07 11:48	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.61	H	*	mg/L	0.02	0.1	05/16/07 20:12	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.14			mg/L	0.01	0.05	05/26/07 17:05	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	8	B	*	mg/L	5	20	05/17/07 14:42	aeh

** Please refer to Qualifier Reports for detail.*

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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 97556003620645010700
Sample ID: WOOLEY VALLEY CR

ACZ Sample ID: ***L62651-03***
Date Sampled: *05/10/07 00:00*
Date Received: *05/16/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/24/07 14:47	nps

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 23:43	jjr
Calcium, dissolved	M200.7 ICP	74.6			mg/L	0.2	1	05/23/07 4:04	msh
Chromium, dissolved	M200.8 ICP-MS	0.0014			mg/L	0.0001	0.0005	05/17/07 23:43	jjr
Copper, dissolved	M200.8 ICP-MS	0.0006	B		mg/L	0.0005	0.003	05/17/07 23:43	jjr
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 23:43	jjr
Magnesium, dissolved	M200.7 ICP	17.9			mg/L	0.2	1	05/23/07 4:04	msh
Nickel, dissolved	M200.8 ICP-MS	0.0017	B		mg/L	0.0006	0.003	05/17/07 23:43	jjr
Selenium, total	SM 3114 B, AA-Hydride	0.002	B		mg/L	0.001	0.005	05/25/07 15:49	gme
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 23:43	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0004	B		mg/L	0.0002	0.001	05/17/07 23:43	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/23/07 4:04	msh

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		237	H		mg/L	2	20	05/25/07 0:00	cas
Carbonate as CaCO3			UH		mg/L	2	20	05/25/07 0:00	cas
Hydroxide as CaCO3			UH		mg/L	2	20	05/25/07 0:00	cas
Total Alkalinity		237	H	*	mg/L	2	20	05/25/07 0:00	cas
Carbon, total organic (TOC)	M415.1 Combustion/IR	5		*	mg/L	1	5	05/25/07 16:56	nps/jag
Hardness as CaCO3	SM2340B - Calculation	260			mg/L	1	7	05/30/07 11:48	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.02	0.1	05/16/07 20:13	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.09			mg/L	0.01	0.05	05/26/07 17:06	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric		U	*	mg/L	5	20	05/17/07 14:44	aeh

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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 97556003620645010700
Sample ID: GEORGETOWN CR@RT

ACZ Sample ID: ***L62651-04***
Date Sampled: *05/10/07 00:00*
Date Received: *05/16/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/24/07 15:09	nps

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/17/07 23:47	jjr
Calcium, dissolved	M200.7 ICP	61.3			mg/L	0.2	1	05/23/07 4:08	msh
Chromium, dissolved	M200.8 ICP-MS	0.0007			mg/L	0.0001	0.0005	05/17/07 23:47	jjr
Copper, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.003	05/17/07 23:47	jjr
Lead, dissolved	M200.8 ICP-MS	0.0004	B		mg/L	0.0001	0.0005	05/17/07 23:47	jjr
Magnesium, dissolved	M200.7 ICP	17.1			mg/L	0.2	1	05/23/07 4:08	msh
Nickel, dissolved	M200.8 ICP-MS	0.0009	B		mg/L	0.0006	0.003	05/17/07 23:47	jjr
Selenium, total	SM 3114 B, AA-Hydride	0.003	B		mg/L	0.001	0.005	05/25/07 15:51	gme
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	05/17/07 23:47	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0013			mg/L	0.0002	0.001	05/17/07 23:47	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/23/07 4:08	msh

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		174	H		mg/L	2	20	05/25/07 0:00	cas
Carbonate as CaCO3		9	BH		mg/L	2	20	05/25/07 0:00	cas
Hydroxide as CaCO3			UH		mg/L	2	20	05/25/07 0:00	cas
Total Alkalinity		183	H	*	mg/L	2	20	05/25/07 0:00	cas
Carbon, total organic (TOC)	M415.1 Combustion/IR	1	B	*	mg/L	1	5	05/25/07 17:10	nps/jag
Hardness as CaCO3	SM2340B - Calculation	224			mg/L	1	7	05/30/07 11:48	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.14	H	*	mg/L	0.02	0.1	05/16/07 20:14	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.06		*	mg/L	0.01	0.05	05/26/07 17:09	pjb
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric		U	*	mg/L	5	20	05/17/07 14:46	aeh

** Please refer to Qualifier Reports for detail.*

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Inorganic Reference

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit, typically 5 times the MDL.
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calivation Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
U	Analyte was analyzed for but not detected at the indicated MDL

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(5)	EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
(6)	Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.

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Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID: 97556003620645010700

ACZ Project ID: ***L62651***

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225392													
WG225392LCSW2	LCSW	05/25/07 16:59	WC070523-1	820		795.1	mg/L	97	80	120			
L62651-02DUP	DUP	05/25/07 18:16			184	187.6	mg/L				1.9	20	
L62679-06DUP	DUP	05/25/07 19:39			99	101.6	mg/L				2.6	20	
WG225392LCSW5	LCSW	05/25/07 19:53	WC070523-1	820		810.9	mg/L	98.9	80	120			
WG225392LCSW8	LCSW	05/25/07 23:07	WC070523-1	820		812.3	mg/L	99.1	80	120			

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224904													
WG224904ICV	ICV	05/17/07 21:21	MS070430-1	.05		.05186	mg/L	103.7	90	110			
WG224904ICB	ICB	05/17/07 21:26				U	mg/L		-0.0003	0.0003			
WG224904LFB	LFB	05/17/07 21:31	MS070425-3	.05		.05345	mg/L	106.9	85	115			
WG224904CCV1	CCV	05/17/07 22:20	MS070516-4	.1		.0993	mg/L	99.3	90	110			
WG224904CCB1	CCB	05/17/07 22:25				U	mg/L		-0.0003	0.0003			
L62635-10AS	AS	05/17/07 22:49	MS070425-3	.05	U	.05329	mg/L	106.6	70	130			
L62635-10ASD	ASD	05/17/07 22:54	MS070425-3	.05	U	.05465	mg/L	109.3	70	130	2.52	20	
WG224904CCV2	CCV	05/17/07 23:18	MS070516-4	.1		.09803	mg/L	98	90	110			
WG224904CCB2	CCB	05/17/07 23:23				U	mg/L		-0.0003	0.0003			
WG224904CCV3	CCV	05/17/07 23:52	MS070516-4	.1		.09949	mg/L	99.5	90	110			
WG224904CCB3	CCB	05/17/07 23:57				U	mg/L		-0.0003	0.0003			

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225179													
WG225179ICV	ICV	05/23/07 1:57	II070518-6	100		98.06	mg/L	98.1	95	105			
WG225179ICB	ICB	05/23/07 2:01				U	mg/L		-0.6	0.6			
WG225179PQV	PQV	05/23/07 2:05	II070518-5	1		1.01	mg/L	101	70	130			
WG225179SIC	SIC	05/23/07 2:09	II070518-3	201		191.19	mg/L	95.1	1	200			
WG225179LFB	LFB	05/23/07 2:17	II070516-3	67.99189		67.47	mg/L	99.2	85	115			
WG225179CCV1	CCV	05/23/07 2:45	II070518-7	50		50.93	mg/L	101.9	90	110			
WG225179CCB1	CCB	05/23/07 2:49				U	mg/L		-0.6	0.6			
L62643-04AS	AS	05/23/07 3:21	II070516-3	67.99189	87.8	157.12	mg/L	102	85	115			
L62643-04ASD	ASD	05/23/07 3:25	II070516-3	67.99189	87.8	155.11	mg/L	99	85	115	1.29	20	
WG225179CCV2	CCV	05/23/07 3:33	II070518-7	50		51.22	mg/L	102.4	90	110			
WG225179CCB2	CCB	05/23/07 3:37				U	mg/L		-0.6	0.6			
WG225179CCV3	CCV	05/23/07 4:12	II070518-7	50		51.67	mg/L	103.3	90	110			
WG225179CCB3	CCB	05/23/07 4:16				U	mg/L		-0.6	0.6			

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Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID: 97556003620645010700

ACZ Project ID: ***L62651***

Carbon, total organic (TOC) M415.1 Combustion/IR

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225370													
WG225370ICV	ICV	05/25/07 10:43	WI070426-1	75		72.5	mg/L	96.7	90	110			
WG225370ICB	ICB	05/25/07 10:57				U	mg/L		-3	3			
WG225370LFB1	LFB	05/25/07 11:11	WI070507-2	50		45.2	mg/L	90.4	90	110			
WG225370CCV1	CCV	05/25/07 13:35	WI070507-1	100		95.7	mg/L	95.7	90	110			
WG225370CCB1	CCB	05/25/07 13:49				U	mg/L		-3	3			
L62630-02DUP	DUP	05/25/07 15:01			4	3.5	mg/L				13.3	20	RA
L62630-03AS	AS	05/25/07 15:30	WI070507-2	50	4	47.4	mg/L	86.8	90	110			M2
WG225370CCV2	CCV	05/25/07 16:27	WI070507-1	100		93.9	mg/L	93.9	90	110			
WG225370CCB2	CCB	05/25/07 16:41				U	mg/L		-3	3			
WG225370CCV3	CCV	05/25/07 19:18	WI070507-1	100		95.9	mg/L	95.9	90	110			
WG225370CCB3	CCB	05/25/07 19:33				U	mg/L		-3	3			
WG225370CCV4	CCV	05/25/07 21:42	WI070507-1	100		94.9	mg/L	94.9	90	110			
WG225370CCB4	CCB	05/25/07 21:56				U	mg/L		-3	3			
WG225370CCV5	CCV	05/28/07 8:22	WI070507-1	100		101.1	mg/L	101.1	90	110			
WG225370CCB5	CCB	05/28/07 8:37				U	mg/L		-3	3			
WG225370LFB2	LFB	05/28/07 8:51	WI070507-2	50		51.8	mg/L	103.6	90	110			
WG225370CCV6	CCV	05/28/07 9:20	WI070507-1	100		103.9	mg/L	103.9	90	110			
WG225370CCB6	CCB	05/28/07 9:34				U	mg/L		-3	3			

Chromium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224904													
WG224904ICV	ICV	05/17/07 21:21	MS070430-1	.05		.05319	mg/L	106.4	90	110			
WG224904ICB	ICB	05/17/07 21:26				U	mg/L		-0.0003	0.0003			
WG224904LFB	LFB	05/17/07 21:31	MS070425-3	.05		.05335	mg/L	106.7	85	115			
WG224904CCV1	CCV	05/17/07 22:20	MS070516-4	.1		.1008	mg/L	100.8	90	110			
WG224904CCB1	CCB	05/17/07 22:25				U	mg/L		-0.0003	0.0003			
L62635-10AS	AS	05/17/07 22:49	MS070425-3	.05	U	.05203	mg/L	104.1	70	130			
L62635-10ASD	ASD	05/17/07 22:54	MS070425-3	.05	U	.05248	mg/L	105	70	130	0.86	20	
WG224904CCV2	CCV	05/17/07 23:18	MS070516-4	.1		.09829	mg/L	98.3	90	110			
WG224904CCB2	CCB	05/17/07 23:23				.00011	mg/L		-0.0003	0.0003			
WG224904CCV3	CCV	05/17/07 23:52	MS070516-4	.1		.1003	mg/L	100.3	90	110			
WG224904CCB3	CCB	05/17/07 23:57				.00014	mg/L		-0.0003	0.0003			

Copper, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224904													
WG224904ICV	ICV	05/17/07 21:21	MS070430-1	.05		.05402	mg/L	108	90	110			
WG224904ICB	ICB	05/17/07 21:26				U	mg/L		-0.0015	0.0015			
WG224904LFB	LFB	05/17/07 21:31	MS070425-3	.05		.05181	mg/L	103.6	85	115			
WG224904CCV1	CCV	05/17/07 22:20	MS070516-4	.25		.2495	mg/L	99.8	90	110			
WG224904CCB1	CCB	05/17/07 22:25				U	mg/L		-0.0015	0.0015			
L62635-10AS	AS	05/17/07 22:49	MS070425-3	.05	U	.05146	mg/L	102.9	70	130			
L62635-10ASD	ASD	05/17/07 22:54	MS070425-3	.05	U	.05184	mg/L	103.7	70	130	0.74	20	
WG224904CCV2	CCV	05/17/07 23:18	MS070516-4	.25		.2431	mg/L	97.2	90	110			
WG224904CCB2	CCB	05/17/07 23:23				U	mg/L		-0.0015	0.0015			
WG224904CCV3	CCV	05/17/07 23:52	MS070516-4	.25		.2469	mg/L	98.8	90	110			
WG224904CCB3	CCB	05/17/07 23:57				U	mg/L		-0.0015	0.0015			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62651***

Project ID: 97556003620645010700

Lead, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224904													
WG224904ICV	ICV	05/17/07 21:21	MS070430-1	.05		.05312	mg/L	106.2	90	110			
WG224904ICB	ICB	05/17/07 21:26				U	mg/L		-0.0003	0.0003			
WG224904LFB	LFB	05/17/07 21:31	MS070425-3	.05		.05165	mg/L	103.3	85	115			
WG224904CCV1	CCV	05/17/07 22:20	MS070516-4	.25		.2458	mg/L	98.3	90	110			
WG224904CCB1	CCB	05/17/07 22:25				.00018	mg/L		-0.0003	0.0003			
L62635-10AS	AS	05/17/07 22:49	MS070425-3	.05	U	.0514	mg/L	102.8	70	130			
L62635-10ASD	ASD	05/17/07 22:54	MS070425-3	.05	U	.0516	mg/L	103.2	70	130	0.39	20	
WG224904CCV2	CCV	05/17/07 23:18	MS070516-4	.25		.2427	mg/L	97.1	90	110			
WG224904CCB2	CCB	05/17/07 23:23				.00024	mg/L		-0.0003	0.0003			
WG224904CCV3	CCV	05/17/07 23:52	MS070516-4	.25		.2441	mg/L	97.6	90	110			
WG224904CCB3	CCB	05/17/07 23:57				.00018	mg/L		-0.0003	0.0003			

Magnesium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225179													
WG225179ICV	ICV	05/23/07 1:57	II070518-6	100		97.78	mg/L	97.8	95	105			
WG225179ICB	ICB	05/23/07 2:01				U	mg/L		-0.6	0.6			
WG225179PQV	PQV	05/23/07 2:05	II070518-5	1		.99	mg/L	99	70	130			
WG225179SIC	SIC	05/23/07 2:09	II070518-3	201		200.91	mg/L	100	1	200			
WG225179LFB	LFB	05/23/07 2:17	II070516-3	54.96149		55.42	mg/L	100.8	85	115			
WG225179CCV1	CCV	05/23/07 2:45	II070518-7	50		50.32	mg/L	100.6	90	110			
WG225179CCB1	CCB	05/23/07 2:49				U	mg/L		-0.6	0.6			
L62643-04AS	AS	05/23/07 3:21	II070516-3	54.96149	18.2	76.64	mg/L	106.3	85	115			
L62643-04ASD	ASD	05/23/07 3:25	II070516-3	54.96149	18.2	75.67	mg/L	104.6	85	115	1.27	20	
WG225179CCV2	CCV	05/23/07 3:33	II070518-7	50		50.09	mg/L	100.2	90	110			
WG225179CCB2	CCB	05/23/07 3:37				U	mg/L		-0.6	0.6			
WG225179CCV3	CCV	05/23/07 4:12	II070518-7	50		50.49	mg/L	101	90	110			
WG225179CCB3	CCB	05/23/07 4:16				U	mg/L		-0.6	0.6			

Nickel, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224904													
WG224904ICV	ICV	05/17/07 21:21	MS070430-1	.05		.05385	mg/L	107.7	90	110			
WG224904ICB	ICB	05/17/07 21:26				U	mg/L		-0.0018	0.0018			
WG224904LFB	LFB	05/17/07 21:31	MS070425-3	.05		.05271	mg/L	105.4	85	115			
WG224904CCV1	CCV	05/17/07 22:20	MS070516-4	.25		.2522	mg/L	100.9	90	110			
WG224904CCB1	CCB	05/17/07 22:25				U	mg/L		-0.0018	0.0018			
L62635-10AS	AS	05/17/07 22:49	MS070425-3	.05	U	.05204	mg/L	104.1	70	130			
L62635-10ASD	ASD	05/17/07 22:54	MS070425-3	.05	U	.05223	mg/L	104.5	70	130	0.36	20	
WG224904CCV2	CCV	05/17/07 23:18	MS070516-4	.25		.2461	mg/L	98.4	90	110			
WG224904CCB2	CCB	05/17/07 23:23				U	mg/L		-0.0018	0.0018			
WG224904CCV3	CCV	05/17/07 23:52	MS070516-4	.25		.2459	mg/L	98.4	90	110			
WG224904CCB3	CCB	05/17/07 23:57				U	mg/L		-0.0018	0.0018			

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Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID: 97556003620645010700

ACZ Project ID: ***L62651***

Nitrate/Nitrite as N, dissolved M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224832													
WG224832ICV	ICV	05/16/07 18:10	WI070308-3	2.416		2.359	mg/L	97.6	90	110			
WG224832ICB	ICB	05/16/07 18:11				U	mg/L		-0.06	0.06			
WG224835													
WG224835ICV	ICV	05/16/07 19:15	WI070308-3	2.416		2.298	mg/L	95.1	90	110			
WG224835ICB	ICB	05/16/07 19:16				U	mg/L		-0.06	0.06			
WG224835LFB1	LFB	05/16/07 19:18	WI070307-9	2		1.988	mg/L	99.4	90	110			
WG224835CCV1	CCV	05/16/07 19:30	WI070515-1	2		1.962	mg/L	98.1	90	110			
WG224835CCB1	CCB	05/16/07 19:32				U	mg/L		-0.06	0.06			
WG224835CCV2	CCV	05/16/07 19:46	WI070515-1	2		1.949	mg/L	97.5	90	110			
WG224835CCB2	CCB	05/16/07 19:48				U	mg/L		-0.06	0.06			
WG224835LFB2	LFB	05/16/07 19:56	WI070307-9	2		2.001	mg/L	100.1	90	110			
L62646-03AS	AS	05/16/07 19:58	WI070307-9	2		1.96	mg/L	98	90	110			
L62646-04DUP	DUP	05/16/07 20:01			1.17	1.177	mg/L				0.6	20	
WG224835CCV3	CCV	05/16/07 20:02	WI070515-1	2		1.974	mg/L	98.7	90	110			
WG224835CCB3	CCB	05/16/07 20:04				U	mg/L		-0.06	0.06			
WG224835CCV4	CCV	05/16/07 20:18	WI070515-1	2		1.961	mg/L	98.1	90	110			
WG224835CCB4	CCB	05/16/07 20:20				U	mg/L		-0.06	0.06			
WG224835CCV5	CCV	05/16/07 20:25	WI070515-1	2		1.981	mg/L	99.1	90	110			
WG224835CCB5	CCB	05/16/07 20:27				U	mg/L		-0.06	0.06			

Phosphorus, total M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225457													
WG225355ICV	ICV	05/26/07 16:30	WI070329-1	.65228		.597	mg/L	91.5	90	110			
WG225355ICB	ICB	05/26/07 16:32				U	mg/L		-0.03	0.03			
WG225355LRB1	LRB	05/26/07 16:33				U	mg/L		-0.03	0.03			
WG225355LFB1	LFB	05/26/07 16:34	WI070510-2	.5		.456	mg/L	91.2	90	110			
L62586-01LFM	LFM	05/26/07 16:37	WI070510-2	.5	.07	.489	mg/L	83.8	90	110			M2
L62586-02DUP	DUP	05/26/07 16:39			.21	.222	mg/L				5.6	20	
WG225355CCV1	CCV	05/26/07 16:45	WI070510-2	.5		.498	mg/L	99.6	90	110			
WG225355CCB1	CCB	05/26/07 16:46				U	mg/L		-0.03	0.03			
L62595-01LFM	LFM	05/26/07 16:52	WI070510-2	.5	.13	.619	mg/L	97.8	90	110			
L62595-02DUP	DUP	05/26/07 16:55			.14	.136	mg/L				2.9	20	
WG225355CCV2	CCV	05/26/07 16:58	WI070510-2	.5		.508	mg/L	101.6	90	110			
WG225355CCB2	CCB	05/26/07 16:59				U	mg/L		-0.03	0.03			
WG225355LRB2	LRB	05/26/07 17:07				U	mg/L		-0.03	0.03			
WG225355LFB2	LFB	05/26/07 17:08	WI070510-2	.5		.464	mg/L	92.8	90	110			
L62651-04LFM	LFM	05/26/07 17:10	WI070510-2	.5	.06	.512	mg/L	90.4	90	110			
WG225355CCV3	CCV	05/26/07 17:12	WI070510-2	.5		.513	mg/L	102.6	90	110			
WG225355CCB3	CCB	05/26/07 17:13				U	mg/L		-0.03	0.03			
L62671-01DUP	DUP	05/26/07 17:17			U	U	mg/L				0	20	RA
WG225355CCV4	CCV	05/26/07 17:25	WI070510-2	.5		.515	mg/L	103	90	110			
WG225355CCB4	CCB	05/26/07 17:26				U	mg/L		-0.03	0.03			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62651***

Project ID: 97556003620645010700

Residue, Non-Filterable (TSS) @105C M160.2 - Gravimetric

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224882													
WG224882PBW	PBW	05/17/07 14:10				U	mg/L		-15	15			
WG224882LCSW	LCSW	05/17/07 14:12	PCN27104	152		132	mg/L	86.8	80	120			
L62671-04DUP	DUP	05/17/07 14:59			10	10	mg/L				0	20	RA

Selenium, total SM 3114 B, AA-Hydride

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225329													
WG225329ICV	ICV	05/25/07 12:12	II070521-1	.025		.0258	mg/L	103.2	90	110			
WG225329ICB	ICB	05/25/07 12:14				U	mg/L		-0.003	0.003			
WG225330													
WG225330CCV1	CCV	05/25/07 14:35	II070521-1	.025		.0256	mg/L	102.4	90	110			
WG225330CCB1	CCB	05/25/07 14:37				U	mg/L		-0.003	0.003			
WG225330LRB	LRB	05/25/07 14:39				U	mg/L		-0.003	0.003			
WG225330LFB	LFB	05/25/07 14:40	II070515-2	.02		.0196	mg/L	98	85	115			
WG225330CCV2	CCV	05/25/07 14:55	II070521-1	.025		.0255	mg/L	102	90	110			
WG225330CCB2	CCB	05/25/07 14:56				U	mg/L		-0.003	0.003			
L62643-11LFM	LFM	05/25/07 15:07	II070515-2	.02	U	.0192	mg/L	96	85	115			
L62643-11LFMD	LFMD	05/25/07 15:08	II070515-2	.02	U	.0196	mg/L	98	85	115	2.06	20	
WG225330CCV3	CCV	05/25/07 15:15	II070521-1	.025		.0256	mg/L	102.4	90	110			
WG225330CCB3	CCB	05/25/07 15:17				U	mg/L		-0.003	0.003			
WG225330CCV4	CCV	05/25/07 15:43	II070521-1	.025		.0242	mg/L	96.8	90	110			
WG225330CCB4	CCB	05/25/07 15:45				U	mg/L		-0.003	0.003			
WG225330CCV5	CCV	05/25/07 15:59	II070521-1	.025		.0241	mg/L	96.4	90	110			
WG225330CCB5	CCB	05/25/07 16:01				U	mg/L		-0.003	0.003			

Silver, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224904													
WG224904ICV	ICV	05/17/07 21:21	MS070430-1	.02006		.01921	mg/L	95.8	90	110			
WG224904ICB	ICB	05/17/07 21:26				U	mg/L		-0.00015	0.00015			
WG224904LFB	LFB	05/17/07 21:31	MS070425-3	.0125375		.0122	mg/L	97.3	85	115			
WG224904CCV1	CCV	05/17/07 22:20	MS070516-4	.025075		.02476	mg/L	98.7	90	110			
WG224904CCB1	CCB	05/17/07 22:25				U	mg/L		-0.00015	0.00015			
L62635-10AS	AS	05/17/07 22:49	MS070425-3	.0125375	U	.01009	mg/L	80.5	70	130			
L62635-10ASD	ASD	05/17/07 22:54	MS070425-3	.0125375	U	.01182	mg/L	94.3	70	130	15.79	20	
WG224904CCV2	CCV	05/17/07 23:18	MS070516-4	.025075		.02442	mg/L	97.4	90	110			
WG224904CCB2	CCB	05/17/07 23:23				U	mg/L		-0.00015	0.00015			
WG224904CCV3	CCV	05/17/07 23:52	MS070516-4	.025075		.0251	mg/L	100.1	90	110			
WG224904CCB3	CCB	05/17/07 23:57				U	mg/L		-0.00015	0.00015			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L62651***

Project ID: 97556003620645010700

Vanadium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG224904													
WG224904ICV	ICV	05/17/07 21:21	MS070430-1	.05		.05336	mg/L	106.7	90	110			
WG224904ICB	ICB	05/17/07 21:26				U	mg/L		-0.0006	0.0006			
WG224904LFB	LFB	05/17/07 21:31	MS070425-3	.05		.05207	mg/L	104.1	85	115			
WG224904CCV1	CCV	05/17/07 22:20	MS070516-4	.1		.09972	mg/L	99.7	90	110			
WG224904CCB1	CCB	05/17/07 22:25				U	mg/L		-0.0006	0.0006			
L62635-10AS	AS	05/17/07 22:49	MS070425-3	.05	U	.05077	mg/L	101.5	70	130			
L62635-10ASD	ASD	05/17/07 22:54	MS070425-3	.05	U	.05072	mg/L	101.4	70	130	0.1	20	
WG224904CCV2	CCV	05/17/07 23:18	MS070516-4	.1		.0988	mg/L	98.8	90	110			
WG224904CCB2	CCB	05/17/07 23:23				U	mg/L		-0.0006	0.0006			
WG224904CCV3	CCV	05/17/07 23:52	MS070516-4	.1		.1017	mg/L	101.7	90	110			
WG224904CCB3	CCB	05/17/07 23:57				U	mg/L		-0.0006	0.0006			

Zinc, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225179													
WG225179ICV	ICV	05/23/07 1:57	II070518-6	2		1.965	mg/L	98.3	95	105			
WG225179ICB	ICB	05/23/07 2:01				U	mg/L		-0.03	0.03			
WG225179PQV	PQV	05/23/07 2:05	II070518-5	.05		.053	mg/L	106	70	130			
WG225179SIC	SIC	05/23/07 2:09	II070518-3	.1		.11	mg/L	110	80	120			
WG225179LFB	LFB	05/23/07 2:17	II070516-3	.5		.497	mg/L	99.4	85	115			
WG225179CCV1	CCV	05/23/07 2:45	II070518-7	1		1.018	mg/L	101.8	90	110			
WG225179CCB1	CCB	05/23/07 2:49				U	mg/L		-0.03	0.03			
L62643-04AS	AS	05/23/07 3:21	II070516-3	.5	U	.526	mg/L	105.2	85	115			
L62643-04ASD	ASD	05/23/07 3:25	II070516-3	.5	U	.521	mg/L	104.2	85	115	0.96	20	
WG225179CCV2	CCV	05/23/07 3:33	II070518-7	1		1.017	mg/L	101.7	90	110			
WG225179CCB2	CCB	05/23/07 3:37				U	mg/L		-0.03	0.03			
WG225179CCV3	CCV	05/23/07 4:12	II070518-7	1		1.024	mg/L	102.4	90	110			
WG225179CCB3	CCB	05/23/07 4:16				U	mg/L		-0.03	0.03			

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Inorganic Extended Qualifier Report

Idaho Dept of Environmental Quality ACZ Project ID: ***L62651***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L62651-01	WG225370	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224835	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
	WG224882	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225392	Total Alkalinity	SM2320B - Titration	H1	Sample analysis performed past holding time.
L62651-02	WG225370	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224835	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
	WG224882	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L62651-03	WG225370	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224835	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
	WG224882	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225392	Total Alkalinity	SM2320B - Titration	H1	Sample analysis performed past holding time.
L62651-04	WG225370	Carbon, total organic (TOC)	M415.1 Combustion/IR	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M415.1 Combustion/IR	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224835	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
	WG225457	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG224882	Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225392	Total Alkalinity	SM2320B - Titration	H1	Sample analysis performed past holding time.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Certification Qualifiers

Idaho Dept of Environmental Quality ACZ Project ID: ***L62651***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Idaho Dept of Environmental Quality
97556003620645010700

ACZ Project ID: L62651
Date Received: 5/16/2007
Received By:
Date Printed: 5/17/2007

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?	X		
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?		X	
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?			X
11) Are the trip blanks (VOA and/or Cyanide) present?			X
12) Are samples requiring no headspace, headspace free?			X
13) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

The nitrate/nitrite analysis was received past hold for all samples.

Contact (For any discrepancies, the client must be contacted)

The client was not contacted.

Shipping Containers

Cooler Id		Temp (°C)	Rad (µR/hr)
1734		4.5	16

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Idaho Dept of Environmental Quality
97556003620645010700

ACZ Project ID: L62651
Date Received: 5/16/2007
Received By:

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	O < 2	T >12	N/A	RAD	ID
L62651-01	RASSMUSSEN CR	Y	Y		Y							
L62651-02	EAST MILL CR	Y	Y		Y							
L62651-03	WOOEY VALLEY CR	Y	Y		Y							
L62651-04	GEORGETOWN CR@RT	Y	Y		Y							

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: _____

ACZ Laboratories, Inc. L62651 **CHAIN of CUSTODY**

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Greg Mladenka
Company: Idaho DEQ
E-mail: greg.mladenka@deq.idaho.gov
Address: 444 Hospital Way, Suite 300
Pocatello, Id 83201
Telephone: 208-236-6160 / 251-9941 (c)

Copy of Report to:

Name: Lynn VanEvery
Company: Idaho DEQ
E-mail: lynn.vanevery@deq.idaho.gov
Telephone: 208-236-6160

Invoice to:

Name: Kasey Guthrie
Company: IDEQ
E-mail: Kasey.Guthrie@deq.idaho.gov
Address: same
Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

PROJECT INFORMATION

Quote #: 4-DAY-AVE
Project/PO #: 9755 6003 6206 4501 0700
Reporting state for compliance testing: ID
Sampler's Name: Greg Mladenka NO
Are any samples NRC licensable material? NO

ANALYSES REQUESTED *(attach list or use quote number)*

Quote

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers
Rassmussen Cr.	5/10/07: comp	SW	5
East Mill Cr.	5/11/07		
Woolley Valley Cr.	5/10/07		
Georgetown Cr. @ Rt. Fk.	5/10/07		

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Greg Mladenka	5/15/07 1450	[illegible]	5/16/07

FRMAD050.03.05.02 White - Return with sample. Yellow - Retain for your records.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Short Holdtime

Idaho Dept of Environmental Quality ACZ Project ID: ***L62651***
Project ID: 97556003620645010700

Samplenum	ClientID	Collectdate	Receivedate	Prod	Holddays	Holddate	Past?
L62651-01	RASSMUSSEN CR	05/10/07 0:00	05/16/07	TSS	7	05/17/07 23:59	SHORT
L62651-01	RASSMUSSEN CR	05/10/07 0:00	05/16/07	N-NO3NO2	2	05/12/07 0:00	PAST
L62651-02	EAST MILL CR	05/11/07 0:00	05/16/07	TSS	7	05/18/07 23:59	SHORT
L62651-02	EAST MILL CR	05/11/07 0:00	05/16/07	N-NO3NO2	2	05/13/07 0:00	PAST
L62651-03	WOOEY VALLEY CR	05/10/07 0:00	05/16/07	TSS	7	05/17/07 23:59	SHORT
L62651-03	WOOEY VALLEY CR	05/10/07 0:00	05/16/07	N-NO3NO2	2	05/12/07 0:00	PAST
L62651-04	GEORGETOWN CR@RT	05/10/07 0:00	05/16/07	TSS	7	05/17/07 23:59	SHORT
L62651-04	GEORGETOWN CR@RT	05/10/07 0:00	05/16/07	N-NO3NO2	2	05/12/07 0:00	PAST

IDDEQ L62651

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 97556003620645010700
Printed: 05/17/07 16:42

Account Code: IDDEQ
ACZ Project ID: L62651
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62651-01

Client ID: RASSMUSSEN CR
Quote Num 4-DAY-AVE
Locator:

Priority: -
Due: 5/28/2007
Site: 97556003620645010700

Sampled: 5/10/2007
Received: 5/16/2007

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digesl	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

IDDEQ L62651

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 97556003620645010700
Printed: 05/17/07 16:42

Account Code: IDDEQ
ACZ Project ID: L62651
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62651-02

Client ID:	EAST MILL CR	Priority:	-	Sampled:	5/11/2007
Quote Num	4-DAY-AVE	Due:	5/28/2007	Received:	5/16/2007
Locator:		Site:	97556003620645010700		

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digesl	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

IDDEQ L62651

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 97556003620645010700
Printed: 05/17/07 16:42

Account Code: IDDEQ
ACZ Project ID: L62651
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62651-03

Client ID: WOOLEY VALLEY CR
Quote Num 4-DAY-AVE
Locator:

Priority: -
Due: 5/28/2007
Site: 97556003620645010700

Sampled: 5/10/2007
Received: 5/16/2007

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digesl	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

IDDEQ L62651

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 97556003620645010700
Printed: 05/17/07 16:42

Account Code: IDDEQ
ACZ Project ID: L62651
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L62651-04

Client ID: GEORGETOWN CR@RT
Quote Num 4-DAY-AVE
Locator:

Priority: -
Due: 5/28/2007
Site: 97556003620645010700

Sampled: 5/10/2007
Received: 5/16/2007

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	M415.1 Combustion/IR	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N, dissolved	SW	S	WHITE	N-NO3NO2	M353.2 - Automated Cadmium Red	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digesl	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	M160.2 - Gravimetric	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

CLIENT SAMPLE ID REVIEW	COC SCANNED	LOGIN REVIEW	FINAL PDFS EMAILED
Signature: _____	Signature: _____	Signature: _____	Signature: _____
Date: _____	Date: _____	Date: _____	Date: _____

Analytical Report for Project Number L63019

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

June 29, 2007

Report to:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way Suite 300
Pocatello, ID 83201

Bill to:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way Suite 300
Pocatello, ID 83201

cc: Lynn Van Every

Project ID: 915560036206450107O0
ACZ Project ID: L63019

Greg Mladenka:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 05, 2007. This project has been assigned to ACZ's project number, L63019. Please reference this number in all future inquiries.

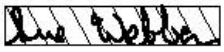
All analyses were performed according to ACZ's Quality Assurance Plan, version 11.0. The enclosed results relate only to the samples received under L63019. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after July 29, 2007. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than $10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.



29/Jun/07

Sue Webber, Project Manager, has reviewed and approved this report in its entirety.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 8048 (800) 334-5493

Case Narrative

Idaho Dept of Environmental Quality

June 29, 2007

Project ID: 91556003620645010700
ACZ Project ID: L63019

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 16 miscellaneous samples from Idaho Dept of Environmental Quality on June 5, 2007. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L63019. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were not performed within EPA recommended holding times.

Parameters flagged with an "H3" were received after the hold time expired. The TOC values flagged with an "H1" were analyzed after the hold time expired due to instrument problems.

Sample Analysis

These samples were analyzed for inorganic parameters. The individual methods are referenced on both, the ACZ invoice and the analytical reports.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: CROWCR.@STEWARTS

ACZ Sample ID: ***L63019-01***
Date Sampled: *05/21/07 14:30*
Date Received: *06/05/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/15/07 9:10	ama/jag

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		192	H		mg/L	2	20	06/09/07 0:00	cas
Carbonate as CaCO3		13	BH		mg/L	2	20	06/09/07 0:00	cas
Hydroxide as CaCO3			UH		mg/L	2	20	06/09/07 0:00	cas
Total Alkalinity		205	H	*	mg/L	2	20	06/09/07 0:00	cas
Carbon, total organic (TOC)	415.1 / SM5310B	6	H	*	mg/L	1	5	06/27/07 15:06	jag
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		U	*	mg/L	0.02	0.1	06/14/07 19:35	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.08		*	mg/L	0.01	0.05	06/15/07 19:54	pjb
Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	12	BH	*	mg/L	5	20	06/05/07 16:44	aeh

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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: CROWCR.@STEWARTS

ACZ Sample ID: ***L63019-02***
Date Sampled: *05/22/07 09:15*
Date Received: *06/05/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/15/07 9:14	ama/jag

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		200	H		mg/L	2	20	06/09/07 0:00	cas
Carbonate as CaCO3		14	BH		mg/L	2	20	06/09/07 0:00	cas
Hydroxide as CaCO3			UH		mg/L	2	20	06/09/07 0:00	cas
Total Alkalinity		214	H	*	mg/L	2	20	06/09/07 0:00	cas
Carbon, total organic (TOC)	415.1 / SM5310B	6	H	*	mg/L	1	5	06/27/07 15:36	jag
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		U	*	mg/L	0.02	0.1	06/14/07 21:45	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.09		*	mg/L	0.01	0.05	06/15/07 19:55	pjb
Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	10	BH	*	mg/L	5	20	06/05/07 16:45	aeh

** Please refer to Qualifier Reports for detail.*

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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: CROWCR.@STEWARTS

ACZ Sample ID: ***L63019-03***
Date Sampled: *05/24/07 09:15*
Date Received: *06/05/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/15/07 9:27	ama/jag

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		197	H		mg/L	2	20	06/09/07 0:00	cas
Carbonate as CaCO3		16	BH		mg/L	2	20	06/09/07 0:00	cas
Hydroxide as CaCO3			UH		mg/L	2	20	06/09/07 0:00	cas
Total Alkalinity		214	H	*	mg/L	2	20	06/09/07 0:00	cas
Carbon, total organic (TOC)	415.1 / SM5310B	6	H	*	mg/L	1	5	06/27/07 16:05	jag
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		U	*	mg/L	0.02	0.1	06/14/07 21:47	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.06		*	mg/L	0.01	0.05	06/15/07 19:58	pjb
Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C		UH	*	mg/L	5	20	06/05/07 16:47	aeh

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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: SAGECR@CROW CR RD

ACZ Sample ID: ***L63019-04***
Date Sampled: *05/22/07 10:25*
Date Received: *06/05/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/15/07 9:32	ama/jag

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		173	H		mg/L	2	20	06/09/07 0:00	cas
Carbonate as CaCO3		13	BH		mg/L	2	20	06/09/07 0:00	cas
Hydroxide as CaCO3			UH		mg/L	2	20	06/09/07 0:00	cas
Total Alkalinity		187	H	*	mg/L	2	20	06/09/07 0:00	cas
Carbon, total organic (TOC)	415.1 / SM5310B	4	BH	*	mg/L	1	5	06/27/07 16:20	jag
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		U	*	mg/L	0.02	0.1	06/14/07 21:50	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.03	B	*	mg/L	0.01	0.05	06/15/07 19:59	pjb
Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C		UH	*	mg/L	5	20	06/05/07 16:48	aeh

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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: CROWCR.@HARTMANS

ACZ Sample ID: ***L63019-05***
Date Sampled: *05/22/07 10:55*
Date Received: *06/05/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/15/07 9:36	ama/jag

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		177	H		mg/L	2	20	06/09/07 0:00	cas
Carbonate as CaCO3		11	BH		mg/L	2	20	06/09/07 0:00	cas
Hydroxide as CaCO3			UH		mg/L	2	20	06/09/07 0:00	cas
Total Alkalinity		188	H	*	mg/L	2	20	06/09/07 0:00	cas
Carbon, total organic (TOC)	415.1 / SM5310B	5	BH	*	mg/L	1	5	06/27/07 16:34	jag
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	0.03	B	*	mg/L	0.02	0.1	06/14/07 21:51	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.07		*	mg/L	0.01	0.05	06/15/07 20:00	pjb
Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	8	BH	*	mg/L	5	20	06/05/07 16:50	aeh

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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: CROWCR.@HARTMANS

ACZ Sample ID: ***L63019-06***
Date Sampled: *05/24/07 11:40*
Date Received: *06/05/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/15/07 9:40	ama/jag

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		175	H		mg/L	2	20	06/09/07 0:00	cas
Carbonate as CaCO3		13	BH		mg/L	2	20	06/09/07 0:00	cas
Hydroxide as CaCO3			UH		mg/L	2	20	06/09/07 0:00	cas
Total Alkalinity		188	H	*	mg/L	2	20	06/09/07 0:00	cas
Carbon, total organic (TOC)	415.1 / SM5310B	4	BH	*	mg/L	1	5	06/27/07 16:49	jag
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		U	*	mg/L	0.02	0.1	06/14/07 21:52	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.07		*	mg/L	0.01	0.05	06/15/07 20:02	pjb
Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	12	BH	*	mg/L	5	20	06/05/07 16:51	aeh

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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: SAGECR@CROW CK RD

ACZ Sample ID: ***L63019-07***
Date Sampled: *05/21/07 15:50*
Date Received: *06/05/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/12/07 14:56	ama/jag

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		168	H		mg/L	2	20	06/09/07 0:00	cas
Carbonate as CaCO3		14	BH		mg/L	2	20	06/09/07 0:00	cas
Hydroxide as CaCO3			UH		mg/L	2	20	06/09/07 0:00	cas
Total Alkalinity		182	H	*	mg/L	2	20	06/09/07 0:00	cas
Carbon, total organic (TOC)	415.1 / SM5310B	4	BH	*	mg/L	1	5	06/27/07 17:03	jag
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		U	*	mg/L	0.02	0.1	06/14/07 21:53	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.03	B	*	mg/L	0.01	0.05	06/13/07 18:05	mls/jag
Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	6	BH	*	mg/L	5	20	06/05/07 16:54	aeh

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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: CROWCR.@HARTMANS

ACZ Sample ID: ***L63019-08***
Date Sampled: *05/21/07 16:50*
Date Received: *06/05/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/12/07 15:05	ama/jag

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		168	H		mg/L	2	20	06/09/07 0:00	cas
Carbonate as CaCO3		14	BH		mg/L	2	20	06/09/07 0:00	cas
Hydroxide as CaCO3			UH		mg/L	2	20	06/09/07 0:00	cas
Total Alkalinity		182	H	*	mg/L	2	20	06/09/07 0:00	cas
Carbon, total organic (TOC)	415.1 / SM5310B	4	BH	*	mg/L	1	5	06/27/07 17:47	jag
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		U	*	mg/L	0.02	0.1	06/14/07 21:55	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.06		*	mg/L	0.01	0.05	06/13/07 18:07	mls/jag
Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	14	BH	*	mg/L	5	20	06/05/07 16:56	aeh

** Please refer to Qualifier Reports for detail.*

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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: SAGECR@CROWCR RD

ACZ Sample ID: ***L63019-09***
Date Sampled: *05/24/07 10:55*
Date Received: *06/05/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/12/07 15:15	ama/jag

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		168	H		mg/L	2	20	06/09/07 0:00	cas
Carbonate as CaCO3		16	BH		mg/L	2	20	06/09/07 0:00	cas
Hydroxide as CaCO3			UH		mg/L	2	20	06/09/07 0:00	cas
Total Alkalinity		184	H	*	mg/L	2	20	06/09/07 0:00	cas
Carbon, total organic (TOC)	415.1 / SM5310B	5	H	*	mg/L	1	5	06/27/07 18:02	jag
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		U	*	mg/L	0.02	0.1	06/14/07 22:00	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.02	B	*	mg/L	0.01	0.05	06/13/07 18:09	mls/jag
Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C		UH	*	mg/L	5	20	06/05/07 16:57	aeh

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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: DEERCR@CROW

ACZ Sample ID: ***L63019-10***
Date Sampled: *05/22/07 09:50*
Date Received: *06/05/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/12/07 15:20	ama/jag

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		165	H		mg/L	2	20	06/09/07 0:00	cas
Carbonate as CaCO3		11	BH		mg/L	2	20	06/09/07 0:00	cas
Hydroxide as CaCO3			UH		mg/L	2	20	06/09/07 0:00	cas
Total Alkalinity		176	H	*	mg/L	2	20	06/09/07 0:00	cas
Carbon, total organic (TOC)	415.1 / SM5310B	4	BH	*	mg/L	1	5	06/27/07 18:17	jag
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	0.03	B	*	mg/L	0.02	0.1	06/14/07 22:01	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.04	B	*	mg/L	0.01	0.05	06/13/07 18:11	mls/jag
Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C		UH	*	mg/L	5	20	06/05/07 16:59	aeh

** Please refer to Qualifier Reports for detail.*

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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: DEERCR@CROW

ACZ Sample ID: ***L63019-11***
Date Sampled: *05/21/07 14:55*
Date Received: *06/05/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/12/07 15:34	ama/jag

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		161	H		mg/L	2	20	06/09/07 0:00	cas
Carbonate as CaCO3		12	BH		mg/L	2	20	06/09/07 0:00	cas
Hydroxide as CaCO3			UH		mg/L	2	20	06/09/07 0:00	cas
Total Alkalinity		174	H	*	mg/L	2	20	06/09/07 0:00	cas
Carbon, total organic (TOC)	415.1 / SM5310B	4	BH	*	mg/L	1	5	06/27/07 18:31	jag
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		U	*	mg/L	0.02	0.1	06/14/07 19:36	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.05	B	*	mg/L	0.01	0.05	06/13/07 18:14	mls/jag
Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C		UH	*	mg/L	5	20	06/05/07 17:00	aeh

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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: DEERCR@CROW

ACZ Sample ID: ***L63019-12***
Date Sampled: *05/24/07 10:00*
Date Received: *06/05/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/12/07 15:39	ama/jag

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		165	H		mg/L	2	20	06/09/07 0:00	cas
Carbonate as CaCO3		12	BH		mg/L	2	20	06/09/07 0:00	cas
Hydroxide as CaCO3			UH		mg/L	2	20	06/09/07 0:00	cas
Total Alkalinity		177	H	*	mg/L	2	20	06/09/07 0:00	cas
Carbon, total organic (TOC)	415.1 / SM5310B	5	BH	*	mg/L	1	5	06/27/07 19:00	jag
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	0.03	B	*	mg/L	0.02	0.1	06/14/07 22:02	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.04	B	*	mg/L	0.01	0.05	06/13/07 18:15	mls/jag
Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C		UH	*	mg/L	5	20	06/05/07 17:02	aeh

** Please refer to Qualifier Reports for detail.*

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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: OZZIE CR

ACZ Sample ID: ***L63019-13***
Date Sampled: *05/22/07 10:00*
Date Received: *06/05/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/12/07 15:43	ama/jag

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		176	H		mg/L	2	20	06/09/07 0:00	cas
Carbonate as CaCO3		14	BH		mg/L	2	20	06/09/07 0:00	cas
Hydroxide as CaCO3			UH		mg/L	2	20	06/09/07 0:00	cas
Total Alkalinity		190	H	*	mg/L	2	20	06/09/07 0:00	cas
Carbon, total organic (TOC)	415.1 / SM5310B	5	BH	*	mg/L	1	5	06/27/07 19:30	jag
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	0.04	B	*	mg/L	0.02	0.1	06/14/07 22:03	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.04	B	*	mg/L	0.01	0.05	06/13/07 18:16	mls/jag
Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	10	BH	*	mg/L	5	20	06/05/07 17:03	aeh

** Please refer to Qualifier Reports for detail.*

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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: OZZIE CR

ACZ Sample ID: ***L63019-14***
Date Sampled: *05/21/07 16:00*
Date Received: *06/05/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/12/07 15:48	ama/jag

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		170	H	*	mg/L	2	20	06/07/07 0:00	jlf
Carbonate as CaCO3		14	BH	*	mg/L	2	20	06/07/07 0:00	jlf
Hydroxide as CaCO3			UH	*	mg/L	2	20	06/07/07 0:00	jlf
Total Alkalinity		184	H	*	mg/L	2	20	06/07/07 0:00	jlf
Carbon, total organic (TOC)	415.1 / SM5310B	6	H	*	mg/L	1	5	06/27/07 19:44	jag
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		U	*	mg/L	0.02	0.1	06/14/07 22:06	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.05		*	mg/L	0.01	0.05	06/13/07 18:17	mls/jag
Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	20	H	*	mg/L	5	20	06/05/07 17:05	aeh

** Please refer to Qualifier Reports for detail.*

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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: OZZIE CR

ACZ Sample ID: ***L63019-15***
Date Sampled: *05/24/07 11:40*
Date Received: *06/05/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/12/07 15:53	ama/jag

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		178			mg/L	2	20	06/07/07 0:00	jlf
Carbonate as CaCO3		13	B		mg/L	2	20	06/07/07 0:00	jlf
Hydroxide as CaCO3			U		mg/L	2	20	06/07/07 0:00	jlf
Total Alkalinity		191			mg/L	2	20	06/07/07 0:00	jlf
Carbon, total organic (TOC)	415.1 / SM5310B	6	H	*	mg/L	1	5	06/27/07 19:59	jag
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	0.04	B	*	mg/L	0.02	0.1	06/14/07 22:08	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.04	B	*	mg/L	0.01	0.05	06/13/07 18:18	mls/jag
Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	10	BH	*	mg/L	5	20	06/05/07 17:06	aeh

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Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: MIKE CR

ACZ Sample ID: ***L63019-16***
Date Sampled: *05/24/07 14:00*
Date Received: *06/05/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/12/07 15:58	ama/jag

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/06/07 19:28	jjr
Calcium, dissolved	M200.7 ICP		U		mg/L	0.2	1	06/14/07 1:22	wfg
Chromium, dissolved	M200.8 ICP-MS		U	*	mg/L	0.0001	0.0005	06/06/07 19:28	jjr
Copper, dissolved	M200.8 ICP-MS	0.0034			mg/L	0.0005	0.003	06/06/07 19:28	jjr
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/06/07 19:28	jjr
Magnesium, dissolved	M200.7 ICP		U		mg/L	0.2	1	06/12/07 19:25	wfg
Nickel, dissolved	M200.8 ICP-MS		U		mg/L	0.0006	0.003	06/06/07 19:28	jjr
Selenium, total	SM 3114 B, AA-Hydride		U	*	mg/L	0.001	0.005	06/15/07 11:59	gme
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	06/06/07 19:28	jjr
Vanadium, dissolved	M200.8 ICP-MS		U		mg/L	0.0002	0.001	06/06/07 19:28	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/12/07 19:25	wfg

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3			U		mg/L	2	20	06/07/07 0:00	jlf
Carbonate as CaCO3			U		mg/L	2	20	06/07/07 0:00	jlf
Hydroxide as CaCO3			U		mg/L	2	20	06/07/07 0:00	jlf
Total Alkalinity			U		mg/L	2	20	06/07/07 0:00	jlf
Carbon, total organic (TOC)	415.1 / SM5310B		UH	*	mg/L	1	5	06/27/07 20:43	jag
Hardness as CaCO3	SM2340B - Calculation	n/a			mg/L	1	7	06/29/07 10:37	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		U	*	mg/L	0.02	0.1	06/14/07 22:09	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)		U	*	mg/L	0.01	0.05	06/13/07 18:19	mls/jag
Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C		UH	*	mg/L	5	20	06/05/07 17:08	aeh

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Inorganic Reference

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit, typically 5 times the MDL.
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calivation Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
U	Analyte was analyzed for but not detected at the indicated MDL

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(5)	EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
(6)	Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L63019***

Project ID: 91556003620645010700

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226126													
WG226126PBW1	PBW	06/07/07 18:35				2.4	mg/L		-20	20			
WG226126PBW2	PBW	06/07/07 21:04				U	mg/L		-20	20			
WG226126LCSW5	LCSW	06/07/07 21:17	WC070601-1	820		752.1	mg/L	91.7	90	110			
L63056-07DUP	DUP	06/07/07 23:59			76	75.6	mg/L				0.5	20	
WG226126LCSW8	LCSW	06/08/07 0:11	WC070601-1	820		751.7	mg/L	91.7	90	110			
WG226205													
WG226205PBW1	PBW	06/09/07 10:15				U	mg/L		-20	20			
WG226205LCSW2	LCSW	06/09/07 10:26	WC070601-1	820		744.6	mg/L	90.8	90	110			
WG226205PBW2	PBW	06/09/07 12:28				U	mg/L		-20	20			
WG226205LCSW5	LCSW	06/09/07 12:40	WC070601-1	820		736.1	mg/L	89.8	90	110			
WG226205PBW3	PBW	06/09/07 14:38				U	mg/L		-20	20			
WG226205LCSW8	LCSW	06/09/07 14:50	WC070601-1	820		741.1	mg/L	90.4	90	110			
WG226205PBW4	PBW	06/09/07 17:50				U	mg/L		-20	20			
WG226205LCSW11	LCSW	06/09/07 18:02	WC070601-1	820		744.4	mg/L	90.8	90	110			
L63019-06DUP	DUP	06/09/07 19:28			188	189.4	mg/L				0.7	20	
L63029-01DUP	DUP	06/09/07 20:40			61	64.7	mg/L				5.9	20	
WG226205LCSW14	LCSW	06/09/07 20:52	WC070601-1	820		750.4	mg/L	91.5	90	110			

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225944													
WG225944ICV	ICV	06/06/07 17:52	MS070518-1	.05		.05234	mg/L	104.7	90	110			
WG225944ICB	ICB	06/06/07 17:58				.00014	mg/L		-0.0003	0.0003			
WG225944LFB	LFB	06/06/07 18:04	MS070604-3	.05		.04672	mg/L	93.4	85	115			
L62929-05AS	AS	06/06/07 18:16	MS070604-3	.05	.0002	.04973	mg/L	99.1	70	130			
L62929-05ASD	ASD	06/06/07 18:22	MS070604-3	.05	.0002	.05046	mg/L	100.5	70	130	1.46	20	
WG225944CCV1	CCV	06/06/07 19:04	MS070516-4	.1		.09972	mg/L	99.7	90	110			
WG225944CCB1	CCB	06/06/07 19:10				U	mg/L		-0.0003	0.0003			
WG225944CCV2	CCV	06/06/07 20:17	MS070516-4	.1		.09877	mg/L	98.8	90	110			
WG225944CCB2	CCB	06/06/07 20:23				U	mg/L		-0.0003	0.0003			
WG225944CCV3	CCV	06/06/07 20:53	MS070516-4	.1		.0982	mg/L	98.2	90	110			
WG225944CCB3	CCB	06/06/07 20:59				.0001	mg/L		-0.0003	0.0003			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L63019***

Project ID: 91556003620645010700

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226437													
WG226437ICV	ICV	06/13/07 23:28	II070603-4	100		97.69	mg/L	97.7	95	105			
WG226437ICB	ICB	06/13/07 23:33				U	mg/L		-0.6	0.6			
WG226437PQV	PQV	06/13/07 23:37	II070612-2	1		1.14	mg/L	114	70	130			
WG226437SIC	SIC	06/13/07 23:41	II070529-2	201		196.13	mg/L	97.6					
WG226437LFB	LFB	06/13/07 23:49	II070601-2	67.99189		67.41	mg/L	99.1	85	115			
WG226437CCV1	CCV	06/14/07 0:17	II070605-1	50		48.42	mg/L	96.8	90	110			
WG226437CCB1	CCB	06/14/07 0:21				U	mg/L		-0.6	0.6			
L62991-02AS	AS	06/14/07 0:53	II070601-2	67.99189	101	164.55	mg/L	93.5	85	115			
L62991-02ASD	ASD	06/14/07 0:57	II070601-2	67.99189	101	164.34	mg/L	93.2	85	115	0.13	20	
WG226437CCV2	CCV	06/14/07 1:06	II070605-1	50		49.05	mg/L	98.1	90	110			
WG226437CCB2	CCB	06/14/07 1:10				U	mg/L		-0.6	0.6			
WG226437CCV3	CCV	06/14/07 1:46	II070605-1	50		48.79	mg/L	97.6	90	110			
WG226437CCB3	CCB	06/14/07 1:50				U	mg/L		-0.6	0.6			

Carbon, total organic (TOC) 415.1 / SM5310B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG227280													
WG227280ICV	ICV	06/27/07 14:22	WI070531-1	75		70.2	mg/L	93.6	90	110			
WG227280ICB	ICB	06/27/07 14:37				U	mg/L		-3	3			
L63019-01DUP	DUP	06/27/07 15:21			6	5.7	mg/L				5.1	20	RA
L63019-02AS	AS	06/27/07 15:50	WI070507-2	50	6	52.4	mg/L	92.8	90	110			
WG227280CCV1	CCV	06/27/07 17:18	WI070619-1	100		95.2	mg/L	95.2	90	110			
WG227280CCB1	CCB	06/27/07 17:33				U	mg/L		-3	3			
L63019-11DUP	DUP	06/27/07 18:46			4	4.5	mg/L				11.8	20	RA
L63019-12AS	AS	06/27/07 19:15	WI070507-2	50	5	50.1	mg/L	90.2	90	110			
WG227280CCV2	CCV	06/27/07 20:13	WI070619-1	100		96.9	mg/L	96.9	90	110			
WG227280CCB2	CCB	06/27/07 20:28				U	mg/L		-3	3			
WG227280LFB2	LFB	06/27/07 21:55	WI070507-2	50		48.5	mg/L	97	90	110			
WG227280CCV3	CCV	06/27/07 23:08	WI070619-1	100		98.3	mg/L	98.3	90	110			
WG227280CCB3	CCB	06/27/07 23:23				1.1	mg/L		-3	3			
WG227280CCV4	CCV	06/28/07 1:34	WI070619-1	100		101.7	mg/L	101.7	90	110			
WG227280CCB4	CCB	06/28/07 1:49				U	mg/L		-3	3			
WG227280ICV1	ICV	06/28/07 9:49	WI070531-1	75		71.9	mg/L	95.9	90	110			
WG227280ICB1	ICB	06/28/07 10:04				U	mg/L		-3	3			
WG227280LFB1	LFB	06/28/07 10:18	WI070507-2	50		47.1	mg/L	94.2	90	110			
WG227280CCV5	CCV	06/28/07 11:46	WI070619-1	100		99.8	mg/L	99.8	90	110			
WG227280CCB5	CCB	06/28/07 12:01				U	mg/L		-3	3			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L63019***

Project ID: 91556003620645010700

Chromium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225944													
WG225944ICV	ICV	06/06/07 17:52	MS070518-1	.05		.05102	mg/L	102	90	110			
WG225944ICB	ICB	06/06/07 17:58				.0001	mg/L		-0.0003	0.0003			
WG225944LFB	LFB	06/06/07 18:04	MS070604-3	.05		.04583	mg/L	91.7	85	115			
L62929-05AS	AS	06/06/07 18:16	MS070604-3	.05	U	.04402	mg/L	88	70	130			
L62929-05ASD	ASD	06/06/07 18:22	MS070604-3	.05	U	.0452	mg/L	90.4	70	130	2.65	20	
WG225944CCV1	CCV	06/06/07 19:04	MS070516-4	.1		.09673	mg/L	96.7	90	110			
WG225944CCB1	CCB	06/06/07 19:10				.00014	mg/L		-0.0003	0.0003			
WG225944CCV2	CCV	06/06/07 20:17	MS070516-4	.1		.1019	mg/L	101.9	90	110			
WG225944CCB2	CCB	06/06/07 20:23				.00033	mg/L		-0.0003	0.0003			BE

Copper, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225944													
WG225944ICV	ICV	06/06/07 17:52	MS070518-1	.05		.05173	mg/L	103.5	90	110			
WG225944ICB	ICB	06/06/07 17:58				U	mg/L		-0.0015	0.0015			
WG225944LFB	LFB	06/06/07 18:04	MS070604-3	.05		.04647	mg/L	92.9	85	115			
L62929-05AS	AS	06/06/07 18:16	MS070604-3	.05	.0017	.04621	mg/L	89	70	130			
L62929-05ASD	ASD	06/06/07 18:22	MS070604-3	.05	.0017	.04749	mg/L	91.6	70	130	2.73	20	
WG225944CCV1	CCV	06/06/07 19:04	MS070516-4	.25		.2443	mg/L	97.7	90	110			
WG225944CCB1	CCB	06/06/07 19:10				U	mg/L		-0.0015	0.0015			

Lead, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225944													
WG225944ICV	ICV	06/06/07 17:52	MS070518-1	.05		.0506	mg/L	101.2	90	110			
WG225944ICB	ICB	06/06/07 17:58				.00021	mg/L		-0.0003	0.0003			
WG225944LFB	LFB	06/06/07 18:04	MS070604-3	.05		.04497	mg/L	89.9	85	115			
L62929-05AS	AS	06/06/07 18:16	MS070604-3	.05	.0002	.04387	mg/L	87.3	70	130			
L62929-05ASD	ASD	06/06/07 18:22	MS070604-3	.05	.0002	.04469	mg/L	89	70	130	1.85	20	
WG225944CCV1	CCV	06/06/07 19:04	MS070516-4	.25		.2487	mg/L	99.5	90	110			
WG225944CCB1	CCB	06/06/07 19:10				.00025	mg/L		-0.0003	0.0003			
WG225944CCV2	CCV	06/06/07 20:17	MS070516-4	.25		.2451	mg/L	98	90	110			
WG225944CCB2	CCB	06/06/07 20:23				.00022	mg/L		-0.0003	0.0003			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L63019***

Project ID: 91556003620645010700

Magnesium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226368													
WG226368ICV	ICV	06/12/07 17:44	II070603-4	100		100.57	mg/L	100.6	95	105			
WG226368ICB	ICB	06/12/07 17:48				U	mg/L		-0.6	0.6			
WG226368PQV	PQV	06/12/07 17:51	II070612-2	1		1.03	mg/L	103	70	130			
WG226368SIC	SIC	06/12/07 17:54	II070529-2	201		201.01	mg/L	100					
WG226368LFB	LFB	06/12/07 18:00	II070601-2	54.96149		54.23	mg/L	98.7	85	115			
WG226368CCV1	CCV	06/12/07 18:36	II070605-1	50		51.97	mg/L	103.9	90	110			
WG226368CCB1	CCB	06/12/07 18:39				U	mg/L		-0.6	0.6			
L62991-01AS	AS	06/12/07 18:57	II070601-2	54.96149	12.9	68.78	mg/L	101.7	85	115			
L62991-01ASD	ASD	06/12/07 19:01	II070601-2	54.96149	12.9	69.33	mg/L	102.7	85	115	0.8	20	
WG226368CCV2	CCV	06/12/07 19:19	II070605-1	50		51.12	mg/L	102.2	90	110			
WG226368CCB2	CCB	06/12/07 19:22				U	mg/L		-0.6	0.6			
WG226368CCV3	CCV	06/12/07 19:43	II070605-1	50		51.75	mg/L	103.5	90	110			
WG226368CCB3	CCB	06/12/07 19:46				U	mg/L		-0.6	0.6			

Nickel, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225944													
WG225944ICV	ICV	06/06/07 17:52	MS070518-1	.05		.05262	mg/L	105.2	90	110			
WG225944ICB	ICB	06/06/07 17:58				U	mg/L		-0.0018	0.0018			
WG225944LFB	LFB	06/06/07 18:04	MS070604-3	.05		.04712	mg/L	94.2	85	115			
L62929-05AS	AS	06/06/07 18:16	MS070604-3	.05	.0034	.04763	mg/L	88.5	70	130			
L62929-05ASD	ASD	06/06/07 18:22	MS070604-3	.05	.0034	.04883	mg/L	90.9	70	130	2.49	20	
WG225944CCV1	CCV	06/06/07 19:04	MS070516-4	.25		.2463	mg/L	98.5	90	110			
WG225944CCB1	CCB	06/06/07 19:10				U	mg/L		-0.0018	0.0018			
WG225944CCV2	CCV	06/06/07 20:17	MS070516-4	.25		.2607	mg/L	104.3	90	110			
WG225944CCB2	CCB	06/06/07 20:23				U	mg/L		-0.0018	0.0018			

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Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700

ACZ Project ID: ***L63019***

Nitrate/Nitrite as N M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226541													
WG226541ICV	ICV	06/14/07 18:54	WI070609-1	2.416		2.295	mg/L	95	90	110			
WG226541ICB	ICB	06/14/07 18:55				U	mg/L		-0.06	0.06			
WG226541LFB1	LFB	06/14/07 18:59	WI070307-9	2		2.061	mg/L	103.1	90	110			
WG226541CCV1	CCV	06/14/07 19:09	WI070608-1	2		1.978	mg/L	98.9	90	110			
WG226541CCB1	CCB	06/14/07 19:11				U	mg/L		-0.06	0.06			
L62959-01AS	AS	06/14/07 19:20	WI070307-9	2	U	2.057	mg/L	102.9	90	110			
L62959-02DUP	DUP	06/14/07 19:22			U	U	mg/L				0	20	RA
WG226541CCV2	CCV	06/14/07 19:25	WI070608-1	2		1.993	mg/L	99.7	90	110			
WG226541CCB2	CCB	06/14/07 19:27				U	mg/L		-0.06	0.06			
WG226541LFB2	LFB	06/14/07 19:37	WI070307-9	2		1.998	mg/L	99.9	90	110			
WG226541CCV3	CCV	06/14/07 19:41	WI070608-1	2		1.992	mg/L	99.6	90	110			
WG226541CCB3	CCB	06/14/07 19:43				U	mg/L		-0.06	0.06			
WG226541CCV4	CCV	06/14/07 19:57	WI070608-1	2		1.995	mg/L	99.8	90	110			
WG226541CCB4	CCB	06/14/07 19:59				U	mg/L		-0.06	0.06			
WG226541CCV6	CCV	06/14/07 20:11	WI070608-1	2		2.037	mg/L	101.9	90	110			
WG226541CCB6	CCB	06/14/07 20:14				U	mg/L		-0.06	0.06			
WG226541CCV7	CCV	06/14/07 20:18	WI070608-1	2		2.023	mg/L	101.2	90	110			
WG226541CCB7	CCB	06/14/07 20:21				U	mg/L		-0.06	0.06			
WG226546													
WG226546CCV1	CCV	06/14/07 21:40	WI070608-1	2		2.025	mg/L	101.3	90	110			
WG226546CCB1	CCB	06/14/07 21:42				U	mg/L		-0.06	0.06			
WG226546LFB1	LFB	06/14/07 21:44	WI070307-9	2		2.034	mg/L	101.7	90	110			
L63019-02AS	AS	06/14/07 21:46	WI070307-9	2	U	2.087	mg/L	104.4	90	110			
L63019-03DUP	DUP	06/14/07 21:49			U	U	mg/L				0	20	RA
WG226546CCV2	CCV	06/14/07 21:56	WI070608-1	2		2.011	mg/L	100.6	90	110			
WG226546CCB2	CCB	06/14/07 21:58				U	mg/L		-0.06	0.06			
L63019-13AS	AS	06/14/07 22:04	WI070307-9	2	.04	2	mg/L	98	90	110			
L63019-14DUP	DUP	06/14/07 22:07			U	U	mg/L				0	20	RA
WG226546CCV3	CCV	06/14/07 22:12	WI070608-1	2		2.006	mg/L	100.3	90	110			
WG226546CCB3	CCB	06/14/07 22:14				U	mg/L		-0.06	0.06			
WG226546LFB2	LFB	06/14/07 22:22	WI070307-9	2		2.074	mg/L	103.7	90	110			
WG226546CCV4	CCV	06/14/07 22:26	WI070608-1	2		2.042	mg/L	102.1	90	110			
WG226546CCB4	CCB	06/14/07 22:29				U	mg/L		-0.06	0.06			

ACZ Laboratories, Inc.
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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L63019***

Project ID: 91556003620645010700

Phosphorus, total M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226430													
WG226355ICV	ICV	06/13/07 17:44	WI070329-1	.65228		.621	mg/L	95.2	90	110			
WG226355ICB	ICB	06/13/07 17:46				.017	mg/L		-0.03	0.03			
WG226355LRB	LRB	06/13/07 17:47				.012	mg/L		-0.03	0.03			
WG226355LFB	LFB	06/13/07 17:48	WI070609-3	.5		.518	mg/L	103.6	90	110			
WG226355CCV1	CCV	06/13/07 17:58	WI070609-3	.5		.492	mg/L	98.4	90	110			
WG226355CCB1	CCB	06/13/07 17:59				.012	mg/L		-0.03	0.03			
L63019-07LFM	LFM	06/13/07 18:06	WI070609-3	.5	.03	.318	mg/L	57.6	90	110			M2
L63019-08DUP	DUP	06/13/07 18:08			.06	.06	mg/L				0	20	RA
WG226355CCV2	CCV	06/13/07 18:12	WI070609-3	.5		.502	mg/L	100.4	90	110			
WG226355CCB2	CCB	06/13/07 18:13				.011	mg/L		-0.03	0.03			
WG226355CCV3	CCV	06/13/07 18:23	WI070609-3	.5		.517	mg/L	103.4	90	110			
WG226355CCB3	CCB	06/13/07 18:24				.01	mg/L		-0.03	0.03			
WG226635													
WG226499ICV	ICV	06/15/07 18:53	WI070329-1	.65228		.688	mg/L	105.5	90	110			
WG226499ICB	ICB	06/15/07 18:55				U	mg/L		-0.03	0.03			
WG226638													
WG226553ICV	ICV	06/15/07 19:42	WI070329-1	.65228		.708	mg/L	108.5	90	110			
WG226553ICB	ICB	06/15/07 19:44				.01	mg/L		-0.03	0.03			
WG226553LRB	LRB	06/15/07 19:45				.024	mg/L		-0.03	0.03			
WG226553LFB	LFB	06/15/07 19:46	WI070609-3	.5		.53	mg/L	106	90	110			
L62935-03LFM	LFM	06/15/07 19:48	WI070609-3	.5	.09	.595	mg/L	101	90	110			
L62935-04DUP	DUP	06/15/07 19:50			.06	.058	mg/L				3.4	20	RA
WG226553CCV1	CCV	06/15/07 19:56	WI070609-3	.5		.527	mg/L	105.4	90	110			
WG226553CCB1	CCB	06/15/07 19:57				.01	mg/L		-0.03	0.03			
L63056-01LFM	LFM	06/15/07 20:04	WI070609-3	.5	.03	.564	mg/L	106.8	90	110			
L63056-02DUP	DUP	06/15/07 20:06			.04	.046	mg/L				14	20	RA
WG226553CCV2	CCV	06/15/07 20:09	WI070609-3	.5		.535	mg/L	107	90	110			
WG226553CCB2	CCB	06/15/07 20:10				U	mg/L		-0.03	0.03			
WG226553CCV3	CCV	06/15/07 20:18	WI070609-3	.5		.532	mg/L	106.4	90	110			
WG226553CCB3	CCB	06/15/07 20:19				U	mg/L		-0.03	0.03			

Residue, Non-Filterable (TSS) @105C 160.1 / SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225938													
WG225938PBW	PBW	06/05/07 16:35				U	mg/L		-15	15			
WG225938LCSW	LCSW	06/05/07 16:36	PCN27108	152		138	mg/L	90.8	80	120			
L63019-06DUP	DUP	06/05/07 16:53			12	U	mg/L				200	20	RA
L63019-16DUP	DUP	06/05/07 17:09			U	U	mg/L				0	20	RA

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L63019***

Project ID: 91556003620645010700

Selenium, total SM 3114 B, AA-Hydride

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226454													
WG226454ICV	ICV	06/14/07 14:50	II070608-1	.025		.0268	mg/L	107.2	90	110			
WG226454ICB	ICB	06/14/07 14:51				U	mg/L		-0.003	0.003			
WG226454ICV1	ICV	06/19/07 14:42	II070608-1	.025		.0245	mg/L	98	90	110			
WG226454ICB1	ICB	06/19/07 14:44				U	mg/L		-0.003	0.003			
WG226386													
WG226386CCV1	CCV	06/14/07 15:23	II070521-1	.025		.026	mg/L	104	90	110			
WG226386CCB1	CCB	06/14/07 15:25				U	mg/L		-0.003	0.003			
WG226386LRB	LRB	06/14/07 15:26				U	mg/L		-0.003	0.003			
WG226386LFB	LFB	06/14/07 15:28	II070515-2	.02		.0195	mg/L	97.5	85	115			
WG226386CCV2	CCV	06/14/07 15:42	II070521-1	.025		.0228	mg/L	91.2	90	110			
WG226386CCB2	CCB	06/14/07 15:44				U	mg/L		-0.003	0.003			
WG226386ICV	ICV	06/15/07 11:30	II070521-1	.025		.0236	mg/L	94.4	90	110			
WG226386ICB	ICB	06/15/07 11:32				U	mg/L		-0.003	0.003			
L62959-07LFM	LFM	06/15/07 11:41	II070515-2	.02	.024	.042	mg/L	90	85	115			
WG226386CCV3	CCV	06/15/07 11:43	II070521-1	.025		.0265	mg/L	106	90	110			
WG226386CCB3	CCB	06/15/07 11:45				U	mg/L		-0.003	0.003			
L62959-07LFMD	LFMD	06/15/07 11:46	II070515-2	.02	.024	.0395	mg/L	77.5	85	115	6.13	20	MA
WG226386CCV4	CCV	06/15/07 11:56	II070521-1	.025		.0254	mg/L	101.6	90	110			
WG226386CCB4	CCB	06/15/07 11:57				U	mg/L		-0.003	0.003			
WG226386CCV5	CCV	06/15/07 12:06	II070521-1	.025		.0257	mg/L	102.8	90	110			
WG226386CCB5	CCB	06/15/07 12:07				U	mg/L		-0.003	0.003			

Silver, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225944													
WG225944ICV	ICV	06/06/07 17:52	MS070518-1	.02006		.01895	mg/L	94.5	90	110			
WG225944ICB	ICB	06/06/07 17:58				U	mg/L		-0.00015	0.00015			
WG225944LFB	LFB	06/06/07 18:04	MS070604-3	.01003		.008625	mg/L	86	85	115			
L62929-05AS	AS	06/06/07 18:16	MS070604-3	.01003	U	.008224	mg/L	82	70	130			
L62929-05ASD	ASD	06/06/07 18:22	MS070604-3	.01003	U	.008379	mg/L	83.5	70	130	1.87	20	
WG225944CCV1	CCV	06/06/07 19:04	MS070516-4	.025075		.02505	mg/L	99.9	90	110			
WG225944CCB1	CCB	06/06/07 19:10				U	mg/L		-0.00015	0.00015			
WG225944CCV2	CCV	06/06/07 20:17	MS070516-4	.025075		.02492	mg/L	99.4	90	110			
WG225944CCB2	CCB	06/06/07 20:23				U	mg/L		-0.00015	0.00015			
WG225944CCV3	CCV	06/06/07 20:53	MS070516-4	.025075		.02452	mg/L	97.8	90	110			
WG225944CCB3	CCB	06/06/07 20:59				U	mg/L		-0.00015	0.00015			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L63019***

Project ID: 91556003620645010700

Vanadium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225944													
WG225944ICV	ICV	06/06/07 17:52	MS070518-1	.05		.04965	mg/L	99.3	90	110			
WG225944ICB	ICB	06/06/07 17:58				.00025	mg/L		-0.0006	0.0006			
WG225944LFB	LFB	06/06/07 18:04	MS070604-3	.05		.04504	mg/L	90.1	85	115			
L62929-05AS	AS	06/06/07 18:16	MS070604-3	.05	.0012	.04492	mg/L	87.4	70	130			
L62929-05ASD	ASD	06/06/07 18:22	MS070604-3	.05	.0012	.04648	mg/L	90.6	70	130	3.41	20	
WG225944CCV1	CCV	06/06/07 19:04	MS070516-4	.1		.0954	mg/L	95.4	90	110			
WG225944CCB1	CCB	06/06/07 19:10				.00022	mg/L		-0.0006	0.0006			
WG225944CCV2	CCV	06/06/07 20:17	MS070516-4	.1		.1002	mg/L	100.2	90	110			
WG225944CCB2	CCB	06/06/07 20:23				U	mg/L		-0.0006	0.0006			

Zinc, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226368													
WG226368ICV	ICV	06/12/07 17:44	II070603-4	2		1.915	mg/L	95.8	95	105			
WG226368ICB	ICB	06/12/07 17:48				U	mg/L		-0.03	0.03			
WG226368PQV	PQV	06/12/07 17:51	II070612-2	.05		.052	mg/L	104	70	130			
WG226368SIC	SIC	06/12/07 17:54	II070529-2	.1		.112	mg/L	112					
WG226368LFB	LFB	06/12/07 18:00	II070601-2	.5		.485	mg/L	97	85	115			
WG226368CCV1	CCV	06/12/07 18:36	II070605-1	1		1.029	mg/L	102.9	90	110			
WG226368CCB1	CCB	06/12/07 18:39				U	mg/L		-0.03	0.03			
L62991-01AS	AS	06/12/07 18:57	II070601-2	.5	.01	.527	mg/L	103.4	85	115			
L62991-01ASD	ASD	06/12/07 19:01	II070601-2	.5	.01	.531	mg/L	104.2	85	115	0.76	20	
WG226368CCV2	CCV	06/12/07 19:19	II070605-1	1		1.022	mg/L	102.2	90	110			
WG226368CCB2	CCB	06/12/07 19:22				U	mg/L		-0.03	0.03			
WG226368CCV3	CCV	06/12/07 19:43	II070605-1	1		1.047	mg/L	104.7	90	110			
WG226368CCB3	CCB	06/12/07 19:46				U	mg/L		-0.03	0.03			

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Inorganic Extended Qualifier Report

Idaho Dept of Environmental Quality ACZ Project ID: ***L63019***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L63019-01	WG227280	Carbon, total organic (TOC)	415.1 / SM5310B	H1	Sample analysis performed past holding time.
			415.1 / SM5310B	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226541	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226638	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225938	Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	H3	Sample was received and analyzed past holding time.
			160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226205	Total Alkalinity	SM2320B - Titration	H3	Sample was received and analyzed past holding time.
L63019-02	WG227280	Carbon, total organic (TOC)	415.1 / SM5310B	H1	Sample analysis performed past holding time.
			415.1 / SM5310B	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226546	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226638	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225938	Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	H3	Sample was received and analyzed past holding time.
			160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226205	Total Alkalinity	SM2320B - Titration	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.
L63019-03	WG227280	Carbon, total organic (TOC)	415.1 / SM5310B	H1	Sample analysis performed past holding time.
			415.1 / SM5310B	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226546	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226638	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225938	Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	H3	Sample was received and analyzed past holding time.
			160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226205	Total Alkalinity	SM2320B - Titration	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.

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Inorganic Extended Qualifier Report

Idaho Dept of Environmental Quality ACZ Project ID: ***L63019***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L63019-04	WG227280	Carbon, total organic (TOC)	415.1 / SM5310B	H1	Sample analysis performed past holding time.
			415.1 / SM5310B	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226546	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226638	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225938	Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	H3	Sample was received and analyzed past holding time.
			160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226205	Total Alkalinity	SM2320B - Titration	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.
L63019-05	WG227280	Carbon, total organic (TOC)	415.1 / SM5310B	H1	Sample analysis performed past holding time.
			415.1 / SM5310B	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226546	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226638	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225938	Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	H3	Sample was received and analyzed past holding time.
			160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226205	Total Alkalinity	SM2320B - Titration	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.
L63019-06	WG227280	Carbon, total organic (TOC)	415.1 / SM5310B	H1	Sample analysis performed past holding time.
			415.1 / SM5310B	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226546	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226638	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225938	Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	H3	Sample was received and analyzed past holding time.
			160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226205	Total Alkalinity	SM2320B - Titration	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Extended Qualifier Report

Idaho Dept of Environmental Quality ACZ Project ID: ***L63019***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L63019-07	WG227280	Carbon, total organic (TOC)	415.1 / SM5310B	H1	Sample analysis performed past holding time.
			415.1 / SM5310B	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226546	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226430	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225938	Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	H3	Sample was received and analyzed past holding time.
			160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226205	Total Alkalinity	SM2320B - Titration	H3	Sample was received and analyzed past holding time.
L63019-08	WG227280	Carbon, total organic (TOC)	415.1 / SM5310B	H1	Sample analysis performed past holding time.
			415.1 / SM5310B	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226546	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226430	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225938	Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	H3	Sample was received and analyzed past holding time.
			160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226205	Total Alkalinity	SM2320B - Titration	H3	Sample was received and analyzed past holding time.
L63019-09	WG227280	Carbon, total organic (TOC)	415.1 / SM5310B	H1	Sample analysis performed past holding time.
			415.1 / SM5310B	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226546	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226430	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225938	Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	H3	Sample was received and analyzed past holding time.
			160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226205	Total Alkalinity	SM2320B - Titration	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Extended Qualifier Report

Idaho Dept of Environmental Quality ACZ Project ID: ***L63019***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L63019-10	WG227280	Carbon, total organic (TOC)	415.1 / SM5310B	H1	Sample analysis performed past holding time.
			415.1 / SM5310B	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226546	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226430	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225938	Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	H3	Sample was received and analyzed past holding time.
			160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226205	Total Alkalinity	SM2320B - Titration	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.
L63019-11	WG227280	Carbon, total organic (TOC)	415.1 / SM5310B	H1	Sample analysis performed past holding time.
			415.1 / SM5310B	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226541	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226430	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225938	Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	H3	Sample was received and analyzed past holding time.
			160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226205	Total Alkalinity	SM2320B - Titration	H3	Sample was received and analyzed past holding time.
L63019-12	WG227280	Carbon, total organic (TOC)	415.1 / SM5310B	H1	Sample analysis performed past holding time.
			415.1 / SM5310B	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226546	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226430	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225938	Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	H3	Sample was received and analyzed past holding time.
			160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226205	Total Alkalinity	SM2320B - Titration	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.

ACZ Laboratories, Inc.
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Inorganic Extended Qualifier Report

Idaho Dept of Environmental Quality ACZ Project ID: ***L63019***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L63019-13	WG227280	Carbon, total organic (TOC)	415.1 / SM5310B	H1	Sample analysis performed past holding time.
			415.1 / SM5310B	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226546	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226430	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225938	Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	H3	Sample was received and analyzed past holding time.
			160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226205	Total Alkalinity	SM2320B - Titration	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.
L63019-14	WG226126	Bicarbonate as CaCO3	SM2320B - Titration	H3	Sample was received and analyzed past holding time.
	WG227280	Carbon, total organic (TOC)	415.1 / SM5310B	H1	Sample analysis performed past holding time.
			415.1 / SM5310B	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226126	Carbonate as CaCO3	SM2320B - Titration	H3	Sample was received and analyzed past holding time.
		Hydroxide as CaCO3	SM2320B - Titration	H3	Sample was received and analyzed past holding time.
	WG226546	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226430	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225938	Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	H3	Sample was received and analyzed past holding time.
			160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226126	Total Alkalinity	SM2320B - Titration	H3	Sample was received and analyzed past holding time.
L63019-15	WG227280	Carbon, total organic (TOC)	415.1 / SM5310B	H1	Sample analysis performed past holding time.
			415.1 / SM5310B	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226546	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226430	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225938	Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	H3	Sample was received and analyzed past holding time.
			160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

ACZ Laboratories, Inc.
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Inorganic Extended Qualifier Report

Idaho Dept of Environmental Quality ACZ Project ID: ***L63019***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L63019-16	WG225944	Chromium, dissolved	M200.8 ICP-MS	BE	Target analyte in continuing calibration blank (CCB) at or above the acceptance criteria. Target analyte was not detected in the sample [< MDL].
	WG226386	Selenium, total	SM 3114 B, AA-Hydride	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
			SM 3114 B, AA-Hydride	QA	Sample container with preservation type specified by the method was not available for analysis. Alternate sample container was used.
	WG227280	Carbon, total organic (TOC)	415.1 / SM5310B	H1	Sample analysis performed past holding time.
			415.1 / SM5310B	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226546	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226430	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225938	Residue, Non-Filterable (TSS) @105C	160.1 / SM2540C	H3	Sample was received and analyzed past holding time.
			160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Certification Qualifiers

Idaho Dept of Environmental Quality ACZ Project ID: ***L63019***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Idaho Dept of Environmental Quality
91556003620645010700

ACZ Project ID: L63019
Date Received: 6/5/2007
Received By:
Date Printed: 6/5/2007

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?			X
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?		X	
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?			X
11) Are the trip blanks (VOA and/or Cyanide) present?			X
12) Are samples requiring no headspace, headspace free?			X
13) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

Some parameters were recieved past hold times.

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id		Temp (°C)	Rad (µR/hr)
354		2.7	18

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Idaho Dept of Environmental Quality
91556003620645010700

ACZ Project ID: L63019
Date Received: 6/5/2007
Received By:

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	O < 2	T >12	N/A	RAD	ID
L63019-01	CROWCR.@STEWARTS					Y						
L63019-02	CROWCR.@STEWARTS					Y						
L63019-03	CROWCR.@STEWARTS					Y						
L63019-04	SAGECR@CROW CR RD					Y						
L63019-05	CROWCR.@HARTMANS					Y						
L63019-06	CROWCR.@HARTMANS					Y						
L63019-07	SAGECR@CROW CK RD					Y						
L63019-08	CROWCR.@HARTMANS					Y						
L63019-09	SAGECR@CROWCR RD					Y						
L63019-10	DEERCR@CROW					Y						
L63019-11	DEERCR@CROW					Y						
L63019-12	DEERCR@CROW					Y						
L63019-13	OZZIE CR					Y						
L63019-14	OZZIE CR					Y						
L63019-15	OZZIE CR					Y						
L63019-16	MIKE CR	Y	Y			Y						

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: _____

L63019

ACZ Laboratories, Inc. — **CHAIN of CUSTODY**

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Greg Madenka
Company: Idaho DEQ
E-mail: Greg.Madenka@DEQ.Idaho.gov
Address: 444 Hospital way, Suite 300
Pocatello ID 83201
Telephone: 208-236-6160 / 251-9941(C)

Copy of Report to:

Name: Lynn VanEvery
Company: IDEQ
E-mail: Lynn.VanEvery@deq.Idaho.gov
Telephone: 208 236-6160

Invoice to:

Name: Kasey Guthrie
Company: IDEQ
E-mail: Kasey.Guthrie@deq.idaho.gov
Address: Same
Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses?
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

YES ☑
NO ☐

PROJECT INFORMATION

Quote #: 4-DAY-AVE
Project/PO #: 9155600362604501070
Reporting state for compliance testing: ID
Sampler's Name: Greg Madenka
Are any samples NRC licensable material? NO

ANALYSES REQUESTED *(attach list or use quote number)*

Quote

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers
Crow Cr. @ Stewarts	5-21-07 14:30	SW	3
Crow Cr. @ Stewarts	5-22-07 9:15		
Crow Cr @ Stewarts	5-24-07 9:15		
Sage Cr @ Crow Crk	5-22-07 10:25		
Crow Cr @ Hartmans	5-22-07 10:55		
Crow Cr @ Hartmans	5-24-07 11:40		
Sage Cr @ Crow Ck Rd	5-21-07 15:50		
Crow Cr @ Hartmans	5-21-07 16:50		
Sage Cr @ Crow Cr Rd	5-24-07 10:55		

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

wet chemistry samples are to be run individually per site/date. (raw, Filtered, H_2SO_4)

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Trina Judkins	6/4/07 14:00	ZMC 6.5.07	11:33

FRMAD050.03.05.02 White - Return with sample. Yellow - Retain for your records.

ACZ Laboratories, Inc. — CHAIN of CUSTODY

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Greg Mladenka
Company: Idaho DEQ
E-mail: Greg.Mladenka@deq.Idaho.gov
Address: 444 Hospital Way Suite 300 Pocatello, 83201
Telephone: (208) 232-6160

Copy of Report to:

Name: Lynn VanEvery
Company: IDEQ
E-mail: lynn.vanevery@deq.Idaho.gov
Telephone: (208) 236-6160

Invoice to:

Name: Kasey Guthrie
Company: IDEQ
E-mail: Kasey.Guthrie@deq.Idaho.gov
Address: Same
Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

PROJECT INFORMATION

Quote #: 4-Day-AVG
Project/PO #: 91554-0036-2006-45010700
Reporting state for compliance testing: ID
Sampler's Name: Greg Mladenka
Are any samples NRC licensable material? NO

ANALYSES REQUESTED (attach list or use quote number)

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	Quote
Deer Cr@Crow	5-22-07 9:50	SW	3	
Deer Cr@Crow	5/21/07 14:55			
Deer Cr@Crow	5/24/07 10:00			
Ozzie Cr	5/22/07 10:00			
Ozzie Cr	5/21/07 16:00			
Ozzie Cr	5/24/07 11:40			
Mike Cr	5/24/07 14:00		5	

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Wet Chemistry samples are to be run individually (raw, Filtered, H_2SO_4)
Mike Cr Includes 5 samples (raw, filtered, H_2SO_4, nanitric & filtered)

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
[signature]	6/4/07 14:00	YMC 6.5-07	11:33

FRMAD050.03.05.02 White - Return with sample. Yellow - Retain for your records.

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ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Short Holdtime

Idaho Dept of Environmental Quality ACZ Project ID: ***L63019***
Project ID: 91556003620645010700

Samplenum	ClientID	Collectdate	Receivedate	Prod	Holddays	Holddate	Past?
L63019-01	CROWCR.@STEWARTS	05/21/07 14:30	06/05/07	TOC	28	06/18/07 23:59	SHORT
L63019-01	CROWCR.@STEWARTS	05/21/07 14:30	06/05/07	P-T	28	06/18/07 23:59	SHORT
L63019-01	CROWCR.@STEWARTS	05/21/07 14:30	06/05/07	N-NO3NO2-Y	28	06/18/07 23:59	SHORT
L63019-01	CROWCR.@STEWARTS	05/21/07 14:30	06/05/07	ALK	14	06/04/07 23:59	PAST
L63019-01	CROWCR.@STEWARTS	05/21/07 14:30	06/05/07	TSS	7	05/28/07 23:59	PAST
L63019-01	CROWCR.@STEWARTS	05/21/07 14:30	06/05/07	X-P-T	28	06/18/07 23:59	SHORT
L63019-02	CROWCR.@STEWARTS	05/22/07 9:15	06/05/07	ALK	14	06/05/07 23:59	SHORT
L63019-02	CROWCR.@STEWARTS	05/22/07 9:15	06/05/07	TSS	7	05/29/07 23:59	PAST
L63019-03	CROWCR.@STEWARTS	05/24/07 9:15	06/05/07	TSS	7	05/31/07 23:59	PAST
L63019-03	CROWCR.@STEWARTS	05/24/07 9:15	06/05/07	ALK	14	06/07/07 23:59	SHORT
L63019-04	SAGECR@CROW CR RD	05/22/07 10:25	06/05/07	ALK	14	06/05/07 23:59	SHORT
L63019-04	SAGECR@CROW CR RD	05/22/07 10:25	06/05/07	TSS	7	05/29/07 23:59	PAST
L63019-05	CROWCR.@HARTMANS	05/22/07 10:55	06/05/07	ALK	14	06/05/07 23:59	SHORT
L63019-05	CROWCR.@HARTMANS	05/22/07 10:55	06/05/07	TSS	7	05/29/07 23:59	PAST
L63019-06	CROWCR.@HARTMANS	05/24/07 11:40	06/05/07	ALK	14	06/07/07 23:59	SHORT
L63019-06	CROWCR.@HARTMANS	05/24/07 11:40	06/05/07	TSS	7	05/31/07 23:59	PAST
L63019-07	SAGECR@CROW CK RD	05/21/07 15:50	06/05/07	TSS	7	05/28/07 23:59	PAST
L63019-07	SAGECR@CROW CK RD	05/21/07 15:50	06/05/07	X-P-T	28	06/18/07 23:59	SHORT
L63019-07	SAGECR@CROW CK RD	05/21/07 15:50	06/05/07	TOC	28	06/18/07 23:59	SHORT
L63019-07	SAGECR@CROW CK RD	05/21/07 15:50	06/05/07	P-T	28	06/18/07 23:59	SHORT
L63019-07	SAGECR@CROW CK RD	05/21/07 15:50	06/05/07	ALK	14	06/04/07 23:59	PAST
L63019-07	SAGECR@CROW CK RD	05/21/07 15:50	06/05/07	N-NO3NO2-Y	28	06/18/07 23:59	SHORT
L63019-08	CROWCR.@HARTMANS	05/21/07 16:50	06/05/07	X-P-T	28	06/18/07 23:59	SHORT
L63019-08	CROWCR.@HARTMANS	05/21/07 16:50	06/05/07	ALK	14	06/04/07 23:59	PAST
L63019-08	CROWCR.@HARTMANS	05/21/07 16:50	06/05/07	N-NO3NO2-Y	28	06/18/07 23:59	SHORT
L63019-08	CROWCR.@HARTMANS	05/21/07 16:50	06/05/07	P-T	28	06/18/07 23:59	SHORT
L63019-08	CROWCR.@HARTMANS	05/21/07 16:50	06/05/07	TOC	28	06/18/07 23:59	SHORT
L63019-08	CROWCR.@HARTMANS	05/21/07 16:50	06/05/07	TSS	7	05/28/07 23:59	PAST
L63019-09	SAGECR@CROWCR RD	05/24/07 10:55	06/05/07	TSS	7	05/31/07 23:59	PAST
L63019-09	SAGECR@CROWCR RD	05/24/07 10:55	06/05/07	ALK	14	06/07/07 23:59	SHORT
L63019-10	DEERCR@CROW	05/22/07 9:50	06/05/07	TSS	7	05/29/07 23:59	PAST
L63019-10	DEERCR@CROW	05/22/07 9:50	06/05/07	ALK	14	06/05/07 23:59	SHORT
L63019-11	DEERCR@CROW	05/21/07 14:55	06/05/07	ALK	14	06/04/07 23:59	PAST
L63019-11	DEERCR@CROW	05/21/07 14:55	06/05/07	N-NO3NO2-Y	28	06/18/07 23:59	SHORT
L63019-11	DEERCR@CROW	05/21/07 14:55	06/05/07	P-T	28	06/18/07 23:59	SHORT
L63019-11	DEERCR@CROW	05/21/07 14:55	06/05/07	TOC	28	06/18/07 23:59	SHORT
L63019-11	DEERCR@CROW	05/21/07 14:55	06/05/07	TSS	7	05/28/07 23:59	PAST
L63019-11	DEERCR@CROW	05/21/07 14:55	06/05/07	X-P-T	28	06/18/07 23:59	SHORT
L63019-12	DEERCR@CROW	05/24/07 10:00	06/05/07	ALK	14	06/07/07 23:59	SHORT
L63019-12	DEERCR@CROW	05/24/07 10:00	06/05/07	TSS	7	05/31/07 23:59	PAST
L63019-13	OZZIE CR	05/22/07 10:00	06/05/07	TSS	7	05/29/07 23:59	PAST
L63019-13	OZZIE CR	05/22/07 10:00	06/05/07	ALK	14	06/05/07 23:59	SHORT
L63019-14	OZZIE CR	05/21/07 16:00	06/05/07	X-P-T	28	06/18/07 23:59	SHORT
L63019-14	OZZIE CR	05/21/07 16:00	06/05/07	TSS	7	05/28/07 23:59	PAST
L63019-14	OZZIE CR	05/21/07 16:00	06/05/07	TOC	28	06/18/07 23:59	SHORT
L63019-14	OZZIE CR	05/21/07 16:00	06/05/07	P-T	28	06/18/07 23:59	SHORT
L63019-14	OZZIE CR	05/21/07 16:00	06/05/07	ALK	14	06/04/07 23:59	PAST
L63019-14	OZZIE CR	05/21/07 16:00	06/05/07	N-NO3NO2-Y	28	06/18/07 23:59	SHORT
L63019-15	OZZIE CR	05/24/07 11:40	06/05/07	ALK	14	06/07/07 23:59	SHORT

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Short Holdtime

Idaho Dept of Environmental Quality ACZ Project ID: ***L63019***

Project ID: 91556003620645010700

Samplenum	ClientID	Collectdate	Receivedate	Prod	Holddays	Holddate	Past?
L63019-15	OZZIE CR	05/24/07 11:40	06/05/07	TSS	7	05/31/07 23:59	PAST
L63019-16	MIKE CR	05/24/07 14:00	06/05/07	ALK	14	06/07/07 23:59	SHORT
L63019-16	MIKE CR	05/24/07 14:00	06/05/07	TSS	7	05/31/07 23:59	PAST

IDDEQ L63019

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 06/05/07 15:29

Account Code: IDDEQ
ACZ Project ID: L63019
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L63019-01

Client ID: CROWCR.@STEWARTS Priority: - Sampled: 5/21/2007 2:30:00 PM
Quote Num 4-DAY-AVE-WET-CHEM Due: 6/18/2007 Received: 6/5/2007
Locator: Site: 91556003620645010700

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	415.1 / SM5310B	33.00
Electronic Data Deliverable	MI	S		EDD		0.00
Nitrate/Nitrite as N	SW	S	YELLOW	N-NO3NO2-Y	M353.2 - H2SO4 preserved	9.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digest	0.00
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	160.1 / SM2540C	11.00
Special reporting requirements	MI	S		EXTENDED REPO		0.00

Factor: 100.00 Extended: 79.40

L63019-02

Client ID: CROWCR.@STEWARTS Priority: - Sampled: 5/22/2007 9:15:00 AM
Quote Num 4-DAY-AVE-WET-CHEM Due: 6/18/2007 Received: 6/5/2007
Locator: Site: 91556003620645010700

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	415.1 / SM5310B	33.00
Electronic Data Deliverable	MI	S		EDD		0.00
Nitrate/Nitrite as N	SW	S	YELLOW	N-NO3NO2-Y	M353.2 - H2SO4 preserved	9.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digest	0.00
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	160.1 / SM2540C	11.00
Special reporting requirements	MI	S		EXTENDED REPO		0.00

Factor: 100.00 Extended: 79.40

IDDEQ L63019

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 06/05/07 15:29

Account Code: IDDEQ
ACZ Project ID: L63019
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L63019-03

Client ID: CROWCR.@STEWARTS Priority: - Sampled: 5/24/2007 9:15:00 AM
Quote Num 4-DAY-AVE-WET-CHEM Due: 6/18/2007 Received: 6/5/2007
Locator: Site: 91556003620645010700

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	415.1 / SM5310B	33.00
Electronic Data Deliverable	MI	S		EDD		0.00
Nitrate/Nitrite as N	SW	S	YELLOW	N-NO3NO2-Y	M353.2 - H2SO4 preserved	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digest	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	160.1 / SM2540C	11.00
Special reporting requirements	MI	S		EXTENDED REPO		0.00

Factor: 100.00 Extended: 79.40

L63019-04

Client ID: SAGECR@CROW CR R Priority: - Sampled: 5/22/2007 10:25:00 AM
Quote Num 4-DAY-AVE-WET-CHEM Due: 6/18/2007 Received: 6/5/2007
Locator: Site: 91556003620645010700

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	415.1 / SM5310B	33.00
Electronic Data Deliverable	MI	S		EDD		0.00
Nitrate/Nitrite as N	SW	S	YELLOW	N-NO3NO2-Y	M353.2 - H2SO4 preserved	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digest	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	160.1 / SM2540C	11.00
Special reporting requirements	MI	S		EXTENDED REPO		0.00

Factor: 100.00 Extended: 79.40

IDDEQ L63019

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 06/05/07 15:29

Account Code: IDDEQ
ACZ Project ID: L63019
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L63019-05

Client ID: CROWCR.@HARTMANS Priority: - Sampled: 5/22/2007 10:55:00 AM
Quote Num 4-DAY-AVE-WET-CHEM Due: 6/18/2007 Received: 6/5/2007
Locator: Site: 91556003620645010700

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	415.1 / SM5310B	33.00
Electronic Data Deliverable	MI	S		EDD		0.00
Nitrate/Nitrite as N	SW	S	YELLOW	N-NO3NO2-Y	M353.2 - H2SO4 preserved	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digest	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	160.1 / SM2540C	11.00
Special reporting requirements	MI	S		EXTENDED REPO		0.00

Factor: 100.00 Extended: 79.40

L63019-06

Client ID: CROWCR.@HARTMANS Priority: - Sampled: 5/24/2007 11:40:00 AM
Quote Num 4-DAY-AVE-WET-CHEM Due: 6/18/2007 Received: 6/5/2007
Locator: Site: 91556003620645010700

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	415.1 / SM5310B	33.00
Electronic Data Deliverable	MI	S		EDD		0.00
Nitrate/Nitrite as N	SW	S	YELLOW	N-NO3NO2-Y	M353.2 - H2SO4 preserved	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digest	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	160.1 / SM2540C	11.00
Special reporting requirements	MI	S		EXTENDED REPO		0.00

Factor: 100.00 Extended: 79.40

IDDEQ L63019

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 06/05/07 15:29

Account Code: IDDEQ
ACZ Project ID: L63019
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L63019-07

Client ID: SAGECR@CROW CK R
Quote Num 4-DAY-AVE-WET-CHEM
Locator:
Priority: -
Due: 6/18/2007
Site: 91556003620645010700
Sampled: 5/21/2007 3:50:00 PM
Received: 6/5/2007

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	415.1 / SM5310B	33.00
Electronic Data Deliverable	MI	S		EDD		0.00
Nitrate/Nitrite as N	SW	S	YELLOW	N-NO3NO2-Y	M353.2 - H2SO4 preserved	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digest	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	160.1 / SM2540C	11.00
Special reporting requirements	MI	S		EXTENDED REPO		0.00

Factor: 100.00 Extended: 79.40

L63019-08

Client ID: CROWCR.@HARTMANS
Quote Num 4-DAY-AVE-WET-CHEM
Locator:
Priority: -
Due: 6/18/2007
Site: 91556003620645010700
Sampled: 5/21/2007 4:50:00 PM
Received: 6/5/2007

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	415.1 / SM5310B	33.00
Electronic Data Deliverable	MI	S		EDD		0.00
Nitrate/Nitrite as N	SW	S	YELLOW	N-NO3NO2-Y	M353.2 - H2SO4 preserved	9.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digest	0.00
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	160.1 / SM2540C	11.00
Special reporting requirements	MI	S		EXTENDED REPO		0.00

Factor: 100.00 Extended: 79.40

IDDEQ L63019

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 06/05/07 15:29

Account Code: IDDEQ
ACZ Project ID: L63019
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L63019-09

Client ID: SAGECR@CROWCR RD | Priority: - | Sampled: 5/24/2007 10:55:00 AM
Quote Num 4-DAY-AVE-WET-CHEM | Due: 6/18/2007 | Received: 6/5/2007
Locator: | Site: 91556003620645010700

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	415.1 / SM5310B	33.00
Electronic Data Deliverable	MI	S		EDD		0.00
Nitrate/Nitrite as N	SW	S	YELLOW	N-NO3NO2-Y	M353.2 - H2SO4 preserved	9.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digest	0.00
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	160.1 / SM2540C	11.00
Special reporting requirements	MI	S		EXTENDED REPO		0.00

Factor: 100.00 Extended: 79.40

L63019-10

Client ID: DEERCR@CROW | Priority: - | Sampled: 5/22/2007 9:50:00 AM
Quote Num 4-DAY-AVE-WET-CHEM | Due: 6/18/2007 | Received: 6/5/2007
Locator: | Site: 91556003620645010700

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	415.1 / SM5310B	33.00
Electronic Data Deliverable	MI	S		EDD		0.00
Nitrate/Nitrite as N	SW	S	YELLOW	N-NO3NO2-Y	M353.2 - H2SO4 preserved	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digest	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	160.1 / SM2540C	11.00
Special reporting requirements	MI	S		EXTENDED REPO		0.00

Factor: 100.00 Extended: 79.40

IDDEQ L63019

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 06/05/07 15:29

Account Code: IDDEQ
ACZ Project ID: L63019
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L63019-11

Client ID: DEERCR@CROW Priority: - Sampled: 5/21/2007 2:55:00 PM
Quote Num 4-DAY-AVE-WET-CHEM Due: 6/18/2007 Received: 6/5/2007
Locator: Site: 91556003620645010700

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	415.1 / SM5310B	33.00
Electronic Data Deliverable	MI	S		EDD		0.00
Nitrate/Nitrite as N	SW	S	YELLOW	N-NO3NO2-Y	M353.2 - H2SO4 preserved	9.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digest	0.00
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	160.1 / SM2540C	11.00
Special reporting requirements	MI	S		EXTENDED REPO		0.00

Factor: 100.00 Extended: 79.40

L63019-12

Client ID: DEERCR@CROW Priority: - Sampled: 5/24/2007 10:00:00 AM
Quote Num 4-DAY-AVE-WET-CHEM Due: 6/18/2007 Received: 6/5/2007
Locator: Site: 91556003620645010700

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	415.1 / SM5310B	33.00
Electronic Data Deliverable	MI	S		EDD		0.00
Nitrate/Nitrite as N	SW	S	YELLOW	N-NO3NO2-Y	M353.2 - H2SO4 preserved	9.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digest	0.00
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	160.1 / SM2540C	11.00
Special reporting requirements	MI	S		EXTENDED REPO		0.00

Factor: 100.00 Extended: 79.40

IDDEQ L63019

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 06/05/07 15:29

Account Code: IDDEQ
ACZ Project ID: L63019
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L63019-13

Client ID: OZZIE CR | Priority: - | Sampled: 5/22/2007 10:00:00 AM
Quote Num 4-DAY-AVE-WET-CHEM | Due: 6/18/2007 | Received: 6/5/2007
Locator: | Site: 91556003620645010700

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	415.1 / SM5310B	33.00
Electronic Data Deliverable	MI	S		EDD		0.00
Nitrate/Nitrite as N	SW	S	YELLOW	N-NO3NO2-Y	M353.2 - H2SO4 preserved	9.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digest	0.00
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	160.1 / SM2540C	11.00
Special reporting requirements	MI	S		EXTENDED REPO		0.00

Factor: 100.00 Extended: 79.40

L63019-14

Client ID: OZZIE CR | Priority: - | Sampled: 5/21/2007 4:00:00 PM
Quote Num 4-DAY-AVE-WET-CHEM | Due: 6/18/2007 | Received: 6/5/2007
Locator: | Site: 91556003620645010700

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	415.1 / SM5310B	33.00
Electronic Data Deliverable	MI	S		EDD		0.00
Nitrate/Nitrite as N	SW	S	YELLOW	N-NO3NO2-Y	M353.2 - H2SO4 preserved	9.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digest	0.00
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	160.1 / SM2540C	11.00
Special reporting requirements	MI	S		EXTENDED REPO		0.00

Factor: 100.00 Extended: 79.40

IDDEQ L63019

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 06/05/07 15:29

Account Code: IDDEQ
ACZ Project ID: L63019
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L63019-15

Client ID:	OZZIE CR	Priority:	-	Sampled:	5/24/2007 11:40:00 AM
Quote Num	4-DAY-AVE-WET-CHEM	Due:	6/18/2007	Received:	6/5/2007
Locator:		Site:	91556003620645010700		

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	415.1 / SM5310B	33.00
Electronic Data Deliverable	MI	S		EDD		0.00
Nitrate/Nitrite as N	SW	S	YELLOW	N-NO3NO2-Y	M353.2 - H2SO4 preserved	9.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digest	0.00
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	160.1 / SM2540C	11.00
Special reporting requirements	MI	S		EXTENDED REPO		0.00

Factor: 100.00 Extended: 79.40

IDDEQ L63019

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 06/05/07 15:29

Account Code: IDDEQ
ACZ Project ID: L63019
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L63019-16

Client ID: MIKE CR
Quote Num 4-DAY-AVE
Locator:

Priority: -
Due: 6/18/2007
Site: 91556003620645010700

Sampled: 5/24/2007 2:00:00 PM
Received: 6/5/2007

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	415.1 / SM5310B	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N	SW	S	YELLOW	N-NO3NO2-Y	M353.2 - H2SO4 preserved	9.00
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digesl	0.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	160.1 / SM2540C	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

CLIENT SAMPLE ID REVIEW	COC SCANNED	LOGIN REVIEW	FINAL PDFS EMAILED
Signature:	Signature:	Signature:	Signature:
Date:	Date:	Date:	Date:

Analytical Report for Project Number L63024

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

June 22, 2007

Report to:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way Suite 300
Pocatello, ID 83201

Bill to:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way Suite 300
Pocatello, ID 83201

cc: Lynn Van Every

Project ID: 915560036206450107O0
ACZ Project ID: L63024

Greg Mladenka:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 05, 2007. This project has been assigned to ACZ's project number, L63024. Please reference this number in all future inquiries.

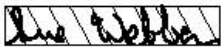
All analyses were performed according to ACZ's Quality Assurance Plan, version 11.0. The enclosed results relate only to the samples received under L63024. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after July 22, 2007. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than $10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.



22/Jun/07

Sue Webber, Project Manager, has reviewed and approved this report in its entirety.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 8048 (800) 334-5493

Case Narrative

Idaho Dept of Environmental Quality

June 22, 2007

Project ID: 91556003620645010700
ACZ Project ID: L63024

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 5 miscellaneous samples from Idaho Dept of Environmental Quality on June 5, 2007. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L63024. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for inorganic parameters. The individual methods are referenced on both, the ACZ invoice and the analytical reports. The following anomaly required further explanation not provided by the Extended Qualifier Report:

1. For Dissolved Metals flagged with an "E6" in the QC Summary, one of the internal standards was out of control limits in the CCV3 and CCB3. No further action was taken since the CCV and CCB recoveries were within control limits.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: CROW CR@STEWART

ACZ Sample ID: ***L63024-01***
Date Sampled: *05/24/07 00:00*
Date Received: *06/05/07*
Sample Matrix: *Surface Water*

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/06/07 20:11	jjr
Calcium, dissolved	M200.7 ICP	71.5			mg/L	0.2	1	06/12/07 21:43	wfg
Chromium, dissolved	M200.8 ICP-MS		U	*	mg/L	0.0001	0.0005	06/06/07 20:11	jjr
Copper, dissolved	M200.8 ICP-MS	0.0006	B		mg/L	0.0005	0.003	06/06/07 20:11	jjr
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/06/07 20:11	jjr
Magnesium, dissolved	M200.7 ICP	16.1			mg/L	0.2	1	06/12/07 21:43	wfg
Nickel, dissolved	M200.8 ICP-MS	0.0019	B		mg/L	0.0006	0.003	06/06/07 20:11	jjr
Selenium, total	SM 3114 B, AA-Hydride		U	*	mg/L	0.001	0.005	06/15/07 12:01	gme
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	06/06/07 20:11	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0019			mg/L	0.0002	0.001	06/06/07 20:11	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/12/07 21:43	wfg

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Hardness as CaCO3	SM2340B - Calculation	245			mg/L	1	7	06/22/07 9:03	calc

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: CROW CR @ HARTMANS

ACZ Sample ID: ***L63024-02***
Date Sampled: *05/24/07 00:00*
Date Received: *06/05/07*
Sample Matrix: *Surface Water*

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/06/07 20:29	jjr
Calcium, dissolved	M200.7 ICP	61.8			mg/L	0.2	1	06/12/07 21:47	wfg
Chromium, dissolved	M200.8 ICP-MS	0.0012			mg/L	0.0001	0.0005	06/07/07 20:19	jjr
Copper, dissolved	M200.8 ICP-MS	0.0007	B		mg/L	0.0005	0.003	06/06/07 20:29	jjr
Lead, dissolved	M200.8 ICP-MS	0.0002	B		mg/L	0.0001	0.0005	06/07/07 20:19	jjr
Magnesium, dissolved	M200.7 ICP	18.9			mg/L	0.2	1	06/12/07 21:47	wfg
Nickel, dissolved	M200.8 ICP-MS	0.0017	B		mg/L	0.0006	0.003	06/06/07 20:29	jjr
Selenium, total	SM 3114 B, AA-Hydride	0.003	B	*	mg/L	0.001	0.005	06/15/07 12:02	gme
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	06/06/07 20:29	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0019			mg/L	0.0002	0.001	06/06/07 20:29	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/12/07 21:47	wfg

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Hardness as CaCO3	SM2340B - Calculation	232			mg/L	1	7	06/22/07 9:03	calc

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: DEER CR

ACZ Sample ID: ***L63024-03***
Date Sampled: *05/24/07 00:00*
Date Received: *06/05/07*
Sample Matrix: *Surface Water*

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/07/07 20:23	jjr
Calcium, dissolved	M200.7 ICP	55.2			mg/L	0.2	1	06/12/07 21:50	wfg
Chromium, dissolved	M200.8 ICP-MS	0.0011			mg/L	0.0001	0.0005	06/07/07 20:23	jjr
Copper, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.003	06/07/07 20:23	jjr
Lead, dissolved	M200.8 ICP-MS		U	*	mg/L	0.0001	0.0005	06/06/07 20:35	jjr
Magnesium, dissolved	M200.7 ICP	15.2			mg/L	0.2	1	06/12/07 21:50	wfg
Nickel, dissolved	M200.8 ICP-MS	0.0020	B		mg/L	0.0006	0.003	06/07/07 20:23	jjr
Selenium, total	SM 3114 B, AA-Hydride		U	*	mg/L	0.001	0.005	06/15/07 12:04	gme
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	06/07/07 20:23	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0030			mg/L	0.0002	0.001	06/07/07 20:23	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/12/07 21:50	wfg

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Hardness as CaCO3	SM2340B - Calculation	200			mg/L	1	7	06/22/07 9:03	calc

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: SAGE CR@CROW CR

ACZ Sample ID: ***L63024-04***
Date Sampled: *05/24/07 00:00*
Date Received: *06/05/07*
Sample Matrix: *Surface Water*

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/07/07 20:27	jjr
Calcium, dissolved	M200.7 ICP	59.5			mg/L	0.2	1	06/12/07 21:54	wfg
Chromium, dissolved	M200.8 ICP-MS	0.0010			mg/L	0.0001	0.0005	06/07/07 20:27	jjr
Copper, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.003	06/07/07 20:27	jjr
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/07/07 20:27	jjr
Magnesium, dissolved	M200.7 ICP	21.1			mg/L	0.2	1	06/12/07 21:54	wfg
Nickel, dissolved	M200.8 ICP-MS	0.0016	B		mg/L	0.0006	0.003	06/07/07 20:27	jjr
Selenium, total	SM 3114 B, AA-Hydride	0.010			mg/L	0.001	0.005	06/16/07 10:05	gme
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	06/07/07 20:27	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0024			mg/L	0.0002	0.001	06/07/07 20:27	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/12/07 21:54	wfg

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Hardness as CaCO3	SM2340B - Calculation	235			mg/L	1	7	06/22/07 9:03	calc

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Sample ID: OZZIE CR

ACZ Sample ID: ***L63024-05***
Date Sampled: *05/24/07 00:00*
Date Received: *06/05/07*
Sample Matrix: *Surface Water*

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/07/07 20:31	jjr
Calcium, dissolved	M200.7 ICP	61.3			mg/L	0.2	1	06/12/07 21:57	wfg
Chromium, dissolved	M200.8 ICP-MS	0.0009			mg/L	0.0001	0.0005	06/07/07 20:31	jjr
Copper, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.003	06/07/07 20:31	jjr
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/07/07 20:31	jjr
Magnesium, dissolved	M200.7 ICP	18.8			mg/L	0.2	1	06/12/07 21:57	wfg
Nickel, dissolved	M200.8 ICP-MS	0.0020	B		mg/L	0.0006	0.003	06/07/07 20:31	jjr
Selenium, total	SM 3114 B, AA-Hydride	0.004	B		mg/L	0.001	0.005	06/16/07 10:10	gme
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	06/07/07 20:31	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0030			mg/L	0.0002	0.001	06/07/07 20:31	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/12/07 21:57	wfg

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Hardness as CaCO3	SM2340B - Calculation	231			mg/L	1	7	06/22/07 9:03	calc

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Reference

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit, typically 5 times the MDL.
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calivation Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
U	Analyte was analyzed for but not detected at the indicated MDL

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(5)	EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
(6)	Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L63024***

Project ID: 91556003620645010700

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225944													
WG225944ICV	ICV	06/06/07 17:52	MS070518-1	.05		.05234	mg/L	104.7	90	110			
WG225944ICB	ICB	06/06/07 17:58				.00014	mg/L		-0.0003	0.0003			
WG225944LFB	LFB	06/06/07 18:04	MS070604-3	.05		.04672	mg/L	93.4	85	115			
WG225944CCV1	CCV	06/06/07 19:04	MS070516-4	.1		.09972	mg/L	99.7	90	110			
WG225944CCB1	CCB	06/06/07 19:10				U	mg/L		-0.0003	0.0003			
L63020-03AS	AS	06/06/07 19:40	MS070604-3	.05	U	.04295	mg/L	85.9	70	130			
L63020-03ASD	ASD	06/06/07 19:46	MS070604-3	.05	U	.04179	mg/L	83.6	70	130	2.74	20	
WG225944CCV2	CCV	06/06/07 20:17	MS070516-4	.1		.09877	mg/L	98.8	90	110			
WG225944CCB2	CCB	06/06/07 20:23				U	mg/L		-0.0003	0.0003			
WG225944CCV3	CCV	06/06/07 20:53	MS070516-4	.1		.0982	mg/L	98.2	90	110			
WG225944CCB3	CCB	06/06/07 20:59				.0001	mg/L		-0.0003	0.0003			
WG226097													
WG226097ICV	ICV	06/07/07 19:53	MS070518-1	.05		.05158	mg/L	103.2	90	110			
WG226097ICB	ICB	06/07/07 19:57				U	mg/L		-0.0003	0.0003			
WG226097LFB	LFB	06/07/07 20:01	MS070604-3	.05		.05008	mg/L	100.2	85	115			
L62993-04AS	AS	06/07/07 20:10	MS070604-3	1	U	.987	mg/L	98.7	70	130			
L62993-04ASD	ASD	06/07/07 20:14	MS070604-3	1	U	.989	mg/L	98.9	70	130	0.2	20	
WG226097CCV1	CCV	06/07/07 20:44	MS070516-4	.1		.09977	mg/L	99.8	90	110			
WG226097CCB1	CCB	06/07/07 20:49				U	mg/L		-0.0003	0.0003			
WG226097CCV2	CCV	06/07/07 21:31	MS070516-4	.1		.1003	mg/L	100.3	90	110			
WG226097CCB2	CCB	06/07/07 21:35				U	mg/L		-0.0003	0.0003			

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226364													
WG226364ICV	ICV	06/12/07 20:02	II070603-4	100		101.57	mg/L	101.6	95	105			
WG226364ICB	ICB	06/12/07 20:06				U	mg/L		-0.6	0.6			
WG226364PQV	PQV	06/12/07 20:09	II070612-2	1		.96	mg/L	96	70	130			
WG226364SIC	SIC	06/12/07 20:12	II070529-2	201		200.96	mg/L	100					
WG226364LFB	LFB	06/12/07 20:18	II070601-2	67.99189		69.45	mg/L	102.1	85	115			
WG226364CCV1	CCV	06/12/07 20:54	II070605-1	50		49.53	mg/L	99.1	90	110			
WG226364CCB1	CCB	06/12/07 20:57				U	mg/L		-0.6	0.6			
L63002-04AS	AS	06/12/07 21:15	II070601-2	67.99189	37.6	109.15	mg/L	105.2	85	115			
L63002-04ASD	ASD	06/12/07 21:19	II070601-2	67.99189	37.6	110.7	mg/L	107.5	85	115	1.41	20	
WG226364CCV2	CCV	06/12/07 21:37	II070605-1	50		49.55	mg/L	99.1	90	110			
WG226364CCB2	CCB	06/12/07 21:40				U	mg/L		-0.6	0.6			
WG226364CCV3	CCV	06/12/07 22:01	II070605-1	50		49.53	mg/L	99.1	90	110			
WG226364CCB3	CCB	06/12/07 22:04				U	mg/L		-0.6	0.6			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L63024***

Project ID: 91556003620645010700

Chromium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225944													
WG225944ICV	ICV	06/06/07 17:52	MS070518-1	.05		.05102	mg/L	102	90	110			
WG225944ICB	ICB	06/06/07 17:58				.0001	mg/L		-0.0003	0.0003			
WG225944LFB	LFB	06/06/07 18:04	MS070604-3	.05		.04583	mg/L	91.7	85	115			
WG225944CCV1	CCV	06/06/07 19:04	MS070516-4	.1		.09673	mg/L	96.7	90	110			
WG225944CCB1	CCB	06/06/07 19:10				.00014	mg/L		-0.0003	0.0003			
L63020-03AS	AS	06/06/07 19:40	MS070604-3	.05	U	.04163	mg/L	83.3	70	130			
L63020-03ASD	ASD	06/06/07 19:46	MS070604-3	.05	U	.04079	mg/L	81.6	70	130	2.04	20	
WG225944CCV2	CCV	06/06/07 20:17	MS070516-4	.1		.1019	mg/L	101.9	90	110			
WG225944CCB2	CCB	06/06/07 20:23				.00033	mg/L		-0.0003	0.0003			BE
WG226097													
WG226097ICV	ICV	06/07/07 19:53	MS070518-1	.05		.05126	mg/L	102.5	90	110			
WG226097ICB	ICB	06/07/07 19:57				U	mg/L		-0.0003	0.0003			
WG226097LFB	LFB	06/07/07 20:01	MS070604-3	.05		.05016	mg/L	100.3	85	115			
L62993-04AS	AS	06/07/07 20:10	MS070604-3	1	U	.9668	mg/L	96.7	70	130			
L62993-04ASD	ASD	06/07/07 20:14	MS070604-3	1	U	.9936	mg/L	99.4	70	130	2.73	20	
WG226097CCV1	CCV	06/07/07 20:44	MS070516-4	.1		.1019	mg/L	101.9	90	110			
WG226097CCB1	CCB	06/07/07 20:49				.00017	mg/L		-0.0003	0.0003			
WG226097CCV2	CCV	06/07/07 21:31	MS070516-4	.1		.09989	mg/L	99.9	90	110			
WG226097CCB2	CCB	06/07/07 21:35				U	mg/L		-0.0003	0.0003			

Copper, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225944													
WG225944ICV	ICV	06/06/07 17:52	MS070518-1	.05		.05173	mg/L	103.5	90	110			
WG225944ICB	ICB	06/06/07 17:58				U	mg/L		-0.0015	0.0015			
WG225944LFB	LFB	06/06/07 18:04	MS070604-3	.05		.04647	mg/L	92.9	85	115			
WG225944CCV1	CCV	06/06/07 19:04	MS070516-4	.25		.2443	mg/L	97.7	90	110			
WG225944CCB1	CCB	06/06/07 19:10				U	mg/L		-0.0015	0.0015			
L63020-03AS	AS	06/06/07 19:40	MS070604-3	.05	.0033	.0402	mg/L	73.8	70	130			
L63020-03ASD	ASD	06/06/07 19:46	MS070604-3	.05	.0033	.03945	mg/L	72.3	70	130	1.88	20	
WG225944CCV2	CCV	06/06/07 20:17	MS070516-4	.25		.2615	mg/L	104.6	90	110			
WG225944CCB2	CCB	06/06/07 20:23				U	mg/L		-0.0015	0.0015			
WG225944CCV3	CCV	06/06/07 20:53	MS070516-4	.25		.262	mg/L	104.8	90	110			E6
WG225944CCB3	CCB	06/06/07 20:59				U	mg/L		-0.0015	0.0015			E6
WG226097													
WG226097ICV	ICV	06/07/07 19:53	MS070518-1	.05		.05051	mg/L	101	90	110			
WG226097ICB	ICB	06/07/07 19:57				U	mg/L		-0.0015	0.0015			
WG226097LFB	LFB	06/07/07 20:01	MS070604-3	.05		.0505	mg/L	101	85	115			
L62993-04AS	AS	06/07/07 20:10	MS070604-3	1	U	.985	mg/L	98.5	70	130			
L62993-04ASD	ASD	06/07/07 20:14	MS070604-3	1	U	.987	mg/L	98.7	70	130	0.2	20	
WG226097CCV1	CCV	06/07/07 20:44	MS070516-4	.25		.2544	mg/L	101.8	90	110			
WG226097CCB1	CCB	06/07/07 20:49				U	mg/L		-0.0015	0.0015			

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Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L63024***

Project ID: 91556003620645010700

Lead, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225944													
WG225944ICV	ICV	06/06/07 17:52	MS070518-1	.05		.0506	mg/L	101.2	90	110			
WG225944ICB	ICB	06/06/07 17:58				.00021	mg/L		-0.0003	0.0003			
WG225944LFB	LFB	06/06/07 18:04	MS070604-3	.05		.04497	mg/L	89.9	85	115			
WG225944CCV1	CCV	06/06/07 19:04	MS070516-4	.25		.2487	mg/L	99.5	90	110			
WG225944CCB1	CCB	06/06/07 19:10				.00025	mg/L		-0.0003	0.0003			
L63020-03AS	AS	06/06/07 19:40	MS070604-3	.05	.0002	.04871	mg/L	97	70	130			
L63020-03ASD	ASD	06/06/07 19:46	MS070604-3	.05	.0002	.04794	mg/L	95.5	70	130	1.59	20	
WG225944CCV2	CCV	06/06/07 20:17	MS070516-4	.25		.2451	mg/L	98	90	110			
WG225944CCB2	CCB	06/06/07 20:23				.00022	mg/L		-0.0003	0.0003			
WG225944CCV3	CCV	06/06/07 20:53	MS070516-4	.25		.2426	mg/L	97	90	110			
WG225944CCB3	CCB	06/06/07 20:59				.00033	mg/L		-0.0003	0.0003			BE
WG226097													
WG226097ICV	ICV	06/07/07 19:53	MS070518-1	.05		.05188	mg/L	103.8	90	110			
WG226097ICB	ICB	06/07/07 19:57				U	mg/L		-0.0003	0.0003			
WG226097LFB	LFB	06/07/07 20:01	MS070604-3	.05		.0507	mg/L	101.4	85	115			
L62993-04AS	AS	06/07/07 20:10	MS070604-3	1	U	1.0006	mg/L	100.1	70	130			
L62993-04ASD	ASD	06/07/07 20:14	MS070604-3	1	U	.9936	mg/L	99.4	70	130	0.7	20	
WG226097CCV1	CCV	06/07/07 20:44	MS070516-4	.25		.2511	mg/L	100.4	90	110			
WG226097CCB1	CCB	06/07/07 20:49				.00018	mg/L		-0.0003	0.0003			
WG226097CCV2	CCV	06/07/07 21:31	MS070516-4	.25		.25	mg/L	100	90	110			
WG226097CCB2	CCB	06/07/07 21:35				.00012	mg/L		-0.0003	0.0003			

Magnesium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226364													
WG226364ICV	ICV	06/12/07 20:02	II070603-4	100		100.97	mg/L	101	95	105			
WG226364ICB	ICB	06/12/07 20:06				U	mg/L		-0.6	0.6			
WG226364PQV	PQV	06/12/07 20:09	II070612-2	1		.98	mg/L	98	70	130			
WG226364SIC	SIC	06/12/07 20:12	II070529-2	201		199.02	mg/L	99					
WG226364LFB	LFB	06/12/07 20:18	II070601-2	54.96149		55.15	mg/L	100.3	85	115			
WG226364CCV1	CCV	06/12/07 20:54	II070605-1	50		52.16	mg/L	104.3	90	110			
WG226364CCB1	CCB	06/12/07 20:57				U	mg/L		-0.6	0.6			
L63002-04AS	AS	06/12/07 21:15	II070601-2	54.96149	12.3	72.63	mg/L	109.8	85	115			
L63002-04ASD	ASD	06/12/07 21:19	II070601-2	54.96149	12.3	75.09	mg/L	114.2	85	115	3.33	20	
WG226364CCV2	CCV	06/12/07 21:37	II070605-1	50		52.29	mg/L	104.6	90	110			
WG226364CCB2	CCB	06/12/07 21:40				U	mg/L		-0.6	0.6			
WG226364CCV3	CCV	06/12/07 22:01	II070605-1	50		52.45	mg/L	104.9	90	110			
WG226364CCB3	CCB	06/12/07 22:04				U	mg/L		-0.6	0.6			

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Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700

ACZ Project ID: ***L63024***

Nickel, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225944													
WG225944ICV	ICV	06/06/07 17:52	MS070518-1	.05		.05262	mg/L	105.2	90	110			
WG225944ICB	ICB	06/06/07 17:58				U	mg/L		-0.0018	0.0018			
WG225944LFB	LFB	06/06/07 18:04	MS070604-3	.05		.04712	mg/L	94.2	85	115			
WG225944CCV1	CCV	06/06/07 19:04	MS070516-4	.25		.2463	mg/L	98.5	90	110			
WG225944CCB1	CCB	06/06/07 19:10				U	mg/L		-0.0018	0.0018			
L63020-03AS	AS	06/06/07 19:40	MS070604-3	.05	.0106	.04956	mg/L	77.9	70	130			
L63020-03ASD	ASD	06/06/07 19:46	MS070604-3	.05	.0106	.04909	mg/L	77	70	130	0.95	20	
WG225944CCV2	CCV	06/06/07 20:17	MS070516-4	.25		.2607	mg/L	104.3	90	110			
WG225944CCB2	CCB	06/06/07 20:23				U	mg/L		-0.0018	0.0018			
WG225944CCV3	CCV	06/06/07 20:53	MS070516-4	.25		.2618	mg/L	104.7	90	110			E6
WG225944CCB3	CCB	06/06/07 20:59				U	mg/L		-0.0018	0.0018			E6
WG226097													
WG226097ICV	ICV	06/07/07 19:53	MS070518-1	.05		.05126	mg/L	102.5	90	110			
WG226097ICB	ICB	06/07/07 19:57				U	mg/L		-0.0018	0.0018			
WG226097LFB	LFB	06/07/07 20:01	MS070604-3	.05		.0513	mg/L	102.6	85	115			
L62993-04AS	AS	06/07/07 20:10	MS070604-3	1	U	.977	mg/L	97.7	70	130			
L62993-04ASD	ASD	06/07/07 20:14	MS070604-3	1	U	.989	mg/L	98.9	70	130	1.22	20	
WG226097CCV1	CCV	06/07/07 20:44	MS070516-4	.25		.2555	mg/L	102.2	90	110			
WG226097CCB1	CCB	06/07/07 20:49				U	mg/L		-0.0018	0.0018			
WG226097CCV2	CCV	06/07/07 21:31	MS070516-4	.25		.2561	mg/L	102.4	90	110			
WG226097CCB2	CCB	06/07/07 21:35				U	mg/L		-0.0018	0.0018			

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Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700

ACZ Project ID: ***L63024***

Selenium, total SM 3114 B, AA-Hydride

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226454													
WG226454ICV	ICV	06/14/07 14:50	II070608-1	.025		.0268	mg/L	107.2	90	110			
WG226454ICB	ICB	06/14/07 14:51				U	mg/L		-0.003	0.003			
WG226454ICV1	ICV	06/19/07 14:42	II070608-1	.025		.0245	mg/L	98	90	110			
WG226454ICB1	ICB	06/19/07 14:44				U	mg/L		-0.003	0.003			
WG226386													
WG226386CCV1	CCV	06/14/07 15:23	II070521-1	.025		.026	mg/L	104	90	110			
WG226386CCB1	CCB	06/14/07 15:25				U	mg/L		-0.003	0.003			
WG226386LRB	LRB	06/14/07 15:26				U	mg/L		-0.003	0.003			
WG226386LFB	LFB	06/14/07 15:28	II070515-2	.02		.0195	mg/L	97.5	85	115			
WG226386CCV2	CCV	06/14/07 15:42	II070521-1	.025		.0228	mg/L	91.2	90	110			
WG226386CCB2	CCB	06/14/07 15:44				U	mg/L		-0.003	0.003			
WG226386ICV	ICV	06/15/07 11:30	II070521-1	.025		.0236	mg/L	94.4	90	110			
WG226386ICB	ICB	06/15/07 11:32				U	mg/L		-0.003	0.003			
L62959-07LFM	LFM	06/15/07 11:41	II070515-2	.02	.024	.042	mg/L	90	85	115			
WG226386CCV3	CCV	06/15/07 11:43	II070521-1	.025		.0265	mg/L	106	90	110			
WG226386CCB3	CCB	06/15/07 11:45				U	mg/L		-0.003	0.003			
L62959-07LFMD	LFMD	06/15/07 11:46	II070515-2	.02	.024	.0395	mg/L	77.5	85	115	6.13	20	MA
WG226386CCV4	CCV	06/15/07 11:56	II070521-1	.025		.0254	mg/L	101.6	90	110			
WG226386CCB4	CCB	06/15/07 11:57				U	mg/L		-0.003	0.003			
WG226386CCV5	CCV	06/15/07 12:06	II070521-1	.025		.0257	mg/L	102.8	90	110			
WG226386CCB5	CCB	06/15/07 12:07				U	mg/L		-0.003	0.003			
WG226456													
WG226456ICV	ICV	06/16/07 9:32	II070608-1	.025		.0262	mg/L	104.8	90	110			
WG226456ICB	ICB	06/16/07 9:34				U	mg/L		-0.003	0.003			
WG226520													
WG226520CCV1	CCV	06/16/07 9:59	II070608-1	.025		.0255	mg/L	102	90	110			
WG226520CCB1	CCB	06/16/07 10:00				U	mg/L		-0.003	0.003			
WG226520LRB	LRB	06/16/07 10:02				U	mg/L		-0.003	0.003			
WG226520LFB	LFB	06/16/07 10:04	II070613-2	.02		.0195	mg/L	97.5	85	115			
L63024-04LFM	LFM	06/16/07 10:07	II070613-2	.02	.01	.0302	mg/L	101	85	115			
L63024-04LFMD	LFMD	06/16/07 10:08	II070613-2	.02	.01	.0301	mg/L	100.5	85	115	0.33	20	
WG226520CCV2	CCV	06/16/07 10:19	II070608-1	.025		.0275	mg/L	110	90	110			
WG226520CCB2	CCB	06/16/07 10:20				U	mg/L		-0.003	0.003			
WG226520ICV	ICV	06/16/07 11:00	II070608-1	.025		.025	mg/L	100	90	110			
WG226520ICB	ICB	06/16/07 11:01				U	mg/L		-0.003	0.003			
WG226520CCV3	CCV	06/16/07 11:20	II070608-1	.025		.0265	mg/L	106	90	110			
WG226520CCB3	CCB	06/16/07 11:21				U	mg/L		-0.003	0.003			
WG226520ICV1	ICV	06/19/07 16:32	II070608-1	.025		.0259	mg/L	103.6	90	110			
WG226520ICB1	ICB	06/19/07 16:34				U	mg/L		-0.003	0.003			
WG226520CCV4	CCV	06/19/07 16:47	II070608-1	.025		.0225	mg/L	90	90	110			
WG226520CCB4	CCB	06/19/07 16:49				U	mg/L		-0.003	0.003			

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L63024***

Project ID: 91556003620645010700

Silver, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225944													
WG225944ICV	ICV	06/06/07 17:52	MS070518-1	.02006		.01895	mg/L	94.5	90	110			
WG225944ICB	ICB	06/06/07 17:58				U	mg/L		-0.00015	0.00015			
WG225944LFB	LFB	06/06/07 18:04	MS070604-3	.01003		.008625	mg/L	86	85	115			
WG225944CCV1	CCV	06/06/07 19:04	MS070516-4	.025075		.02505	mg/L	99.9	90	110			
WG225944CCB1	CCB	06/06/07 19:10				U	mg/L		-0.00015	0.00015			
L63020-03AS	AS	06/06/07 19:40	MS070604-3	.01003	U	.007295	mg/L	72.7	70	130			
L63020-03ASD	ASD	06/06/07 19:46	MS070604-3	.01003	U	.007275	mg/L	72.5	70	130	0.27	20	
WG225944CCV2	CCV	06/06/07 20:17	MS070516-4	.025075		.02492	mg/L	99.4	90	110			
WG225944CCB2	CCB	06/06/07 20:23				U	mg/L		-0.00015	0.00015			
WG225944CCV3	CCV	06/06/07 20:53	MS070516-4	.025075		.02452	mg/L	97.8	90	110			
WG225944CCB3	CCB	06/06/07 20:59				U	mg/L		-0.00015	0.00015			
WG226097													
WG226097ICV	ICV	06/07/07 19:53	MS070518-1	.02006		.02001	mg/L	99.8	90	110			
WG226097ICB	ICB	06/07/07 19:57				U	mg/L		-0.00015	0.00015			
WG226097LFB	LFB	06/07/07 20:01	MS070604-3	.01003		.009883	mg/L	98.5	85	115			
L62993-04AS	AS	06/07/07 20:10	MS070604-3	.2006	U	.1925	mg/L	96	70	130			
L62993-04ASD	ASD	06/07/07 20:14	MS070604-3	.2006	U	.1935	mg/L	96.5	70	130	0.52	20	
WG226097CCV1	CCV	06/07/07 20:44	MS070516-4	.025075		.02517	mg/L	100.4	90	110			
WG226097CCB1	CCB	06/07/07 20:49				U	mg/L		-0.00015	0.00015			
WG226097CCV2	CCV	06/07/07 21:31	MS070516-4	.025075		.02532	mg/L	101	90	110			
WG226097CCB2	CCB	06/07/07 21:35				U	mg/L		-0.00015	0.00015			

Vanadium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225944													
WG225944ICV	ICV	06/06/07 17:52	MS070518-1	.05		.04965	mg/L	99.3	90	110			
WG225944ICB	ICB	06/06/07 17:58				.00025	mg/L		-0.0006	0.0006			
WG225944LFB	LFB	06/06/07 18:04	MS070604-3	.05		.04504	mg/L	90.1	85	115			
WG225944CCV1	CCV	06/06/07 19:04	MS070516-4	.1		.0954	mg/L	95.4	90	110			
WG225944CCB1	CCB	06/06/07 19:10				.00022	mg/L		-0.0006	0.0006			
L63020-03AS	AS	06/06/07 19:40	MS070604-3	.05	.0013	.04556	mg/L	88.5	70	130			
L63020-03ASD	ASD	06/06/07 19:46	MS070604-3	.05	.0013	.04435	mg/L	86.1	70	130	2.69	20	
WG225944CCV2	CCV	06/06/07 20:17	MS070516-4	.1		.1002	mg/L	100.2	90	110			
WG225944CCB2	CCB	06/06/07 20:23				U	mg/L		-0.0006	0.0006			
WG225944CCV3	CCV	06/06/07 20:53	MS070516-4	.1		.1001	mg/L	100.1	90	110			E6
WG225944CCB3	CCB	06/06/07 20:59				U	mg/L		-0.0006	0.0006			E6
WG226097													
WG226097ICV	ICV	06/07/07 19:53	MS070518-1	.05		.05266	mg/L	105.3	90	110			
WG226097ICB	ICB	06/07/07 19:57				.00031	mg/L		-0.0006	0.0006			
WG226097LFB	LFB	06/07/07 20:01	MS070604-3	.05		.05183	mg/L	103.7	85	115			
L62993-04AS	AS	06/07/07 20:10	MS070604-3	1	.016	1.0118	mg/L	99.6	70	130			
L62993-04ASD	ASD	06/07/07 20:14	MS070604-3	1	.016	1.0342	mg/L	101.8	70	130	2.19	20	
WG226097CCV1	CCV	06/07/07 20:44	MS070516-4	.1		.101	mg/L	101	90	110			
WG226097CCB1	CCB	06/07/07 20:49				U	mg/L		-0.0006	0.0006			
WG226097CCV2	CCV	06/07/07 21:31	MS070516-4	.1		.1018	mg/L	101.8	90	110			
WG226097CCB2	CCB	06/07/07 21:35				U	mg/L		-0.0006	0.0006			

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700

ACZ Project ID: ***L63024***

Zinc, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226364													
WG226364ICV	ICV	06/12/07 20:02	II070603-4	2		1.921	mg/L	96.1	95	105			
WG226364ICB	ICB	06/12/07 20:06				U	mg/L		-0.03	0.03			
WG226364PQV	PQV	06/12/07 20:09	II070612-2	.05		.05	mg/L	100	70	130			
WG226364SIC	SIC	06/12/07 20:12	II070529-2	.1		.112	mg/L	112					
WG226364LFB	LFB	06/12/07 20:18	II070601-2	.5		.49	mg/L	98	85	115			
WG226364CCV1	CCV	06/12/07 20:54	II070605-1	1		1.019	mg/L	101.9	90	110			
WG226364CCB1	CCB	06/12/07 20:57				U	mg/L		-0.03	0.03			
L63002-04AS	AS	06/12/07 21:15	II070601-2	.5	.02	.569	mg/L	109.8	85	115			
L63002-04ASD	ASD	06/12/07 21:19	II070601-2	.5	.02	.584	mg/L	112.8	85	115	2.6	20	
WG226364CCV2	CCV	06/12/07 21:37	II070605-1	1		1.028	mg/L	102.8	90	110			
WG226364CCB2	CCB	06/12/07 21:40				U	mg/L		-0.03	0.03			
WG226364CCV3	CCV	06/12/07 22:01	II070605-1	1		1.03	mg/L	103	90	110			
WG226364CCB3	CCB	06/12/07 22:04				U	mg/L		-0.03	0.03			

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Extended Qualifier Report

Idaho Dept of Environmental Quality ACZ Project ID: ***L63024***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L63024-01	WG225944	Chromium, dissolved	M200.8 ICP-MS	BE	Target analyte in continuing calibration blank (CCB) at or above the acceptance criteria. Target analyte was not detected in the sample [< MDL].
	WG226386	Selenium, total	SM 3114 B, AA-Hydride	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
L63024-02	WG226386	Selenium, total	SM 3114 B, AA-Hydride	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
L63024-03	WG225944	Lead, dissolved	M200.8 ICP-MS	BE	Target analyte in continuing calibration blank (CCB) at or above the acceptance criteria. Target analyte was not detected in the sample [< MDL].
	WG226386	Selenium, total	SM 3114 B, AA-Hydride	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Certification Qualifiers

Idaho Dept of Environmental Quality ACZ Project ID: ***L63024***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Idaho Dept of Environmental Quality
91556003620645010700

ACZ Project ID: L63024
Date Received: 6/5/2007
Received By:
Date Printed: 6/5/2007

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?			X
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?	X		
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?			X
11) Are the trip blanks (VOA and/or Cyanide) present?			X
12) Are samples requiring no headspace, headspace free?			X
13) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

N/A

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id		Temp (°C)	Rad (µR/hr)
1650		2.7	14

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Idaho Dept of Environmental Quality
91556003620645010700

ACZ Project ID: L63024
Date Received: 6/5/2007
Received By:

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	O < 2	T >12	N/A	RAD	ID
L63024-01	CROW CR@STEWART	Y	Y									
L63024-02	CROW CR @ HARTMANS	Y	Y									
L63024-03	DEER CR	Y	Y									
L63024-04	SAGE CR@CROW CR	Y	Y									
L63024-05	OZZIE CR	Y	Y									

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: _____

ACZ Laboratories, Inc. L63024 **CHAIN of CUSTODY**

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Greg Mladenka
Company: Idaho DEQ
E-mail: Greg.Mladenka@deq.Idaho.gov
Address: 444 Hospital Way Suite 300 Pocatello, ID 83201
Telephone: (208) 236-6160

Copy of Report to:

Name: Lynn VanEvery
Company: IDEQ
E-mail: lynn.Vanevery@deq.Idaho.gov
Telephone: (208) 236-6160

Invoice to:

Name: Kasey Guthrie
Company: IDEQ
E-mail: Kasey.Guthrie@deq.Idaho.gov
Address: Same
Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

YES [X]
NO [ ]

PROJECT INFORMATION

Quote #: 4-Day-Ave
Project/PO #: 9155600362064501070D
Reporting state for compliance testing:
Sampler's Name:
Are any samples NRC licensable material?

ANALYSES REQUESTED *(attach list or use quote number)*

Quote

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers								
Crow Cr. @ Stewart	5-24-07 Comp	SW	2								
Crow Cr @ Hartmans	5-24-07 Comp										
Deer Cr	5-24-07 Comp										
Sage Cr @ Crow Cr	5-24-07 Comp										
Ozzie Cr	5-24-07 Comp										

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Raw Nitric + Filtered nitric samples were composited @ DEQ.

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Irina Judkins	6/4/07 14:00	[illegible]	6.5.07 11:15

FRMAD050.03.05.02 White - Return with sample. Yellow - Retain for your records.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Short Holdtime

Idaho Dept of Environmental Quality ACZ Project ID: ***L63024***
Project ID: 91556003620645010700

Samplenum	ClientID	Collectdate	Receivedate	Prod	Holddays	Holddate	Past?

No short holdtime parameters found.

IDDEQ L63024

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 06/05/07 18:27

Account Code: IDDEQ
ACZ Project ID: L63024
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L63024-01

Client ID:	CROW CR@STEWART	Priority:	-	Sampled:	5/24/2007
Quote Num	4-DAY-AVE-METALS	Due:	6/18/2007	Received:	6/5/2007
Locator:		Site:	91556003620645010700		

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Quality Control Summary	MI	S		QC SUMMARY		0.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 187.99

IDDEQ L63024

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 06/05/07 18:27

Account Code: IDDEQ
ACZ Project ID: L63024
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L63024-02

Client ID:	CROW CR @ HARTMAN	Priority:	-	Sampled:	5/24/2007
Quote Num	4-DAY-AVE-METALS	Due:	6/18/2007	Received:	6/5/2007
Locator:		Site:	91556003620645010700		

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Quality Control Summary	MI	S		QC SUMMARY		0.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 187.99

IDDEQ L63024

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 06/05/07 18:27

Account Code: IDDEQ
ACZ Project ID: L63024
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L63024-03

Client ID:	DEER CR	Priority:	-	Sampled:	5/24/2007
Quote Num	4-DAY-AVE-METALS	Due:	6/18/2007	Received:	6/5/2007
Locator:		Site:	91556003620645010700		

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Quality Control Summary	MI	S		QC SUMMARY		0.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 187.99

IDDEQ L63024

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 06/05/07 18:27

Account Code: IDDEQ
ACZ Project ID: L63024
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L63024-04

Client ID:	SAGE CR@CROW CR	Priority:	-	Sampled:	5/24/2007
Quote Num	4-DAY-AVE-METALS	Due:	6/18/2007	Received:	6/5/2007
Locator:		Site:	91556003620645010700		

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Quality Control Summary	MI	S		QC SUMMARY		0.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 187.99

IDDEQ L63024

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID: 91556003620645010700
Printed: 06/05/07 18:27

Account Code: IDDEQ
ACZ Project ID: L63024
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC: Lynn Van Every

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)
Lynn Van Every (lynn.vanevery@deq.idaho.gov)

L63024-05

Client ID:	OZZIE CR	Priority:	-	Sampled:	5/24/2007
Quote Num	4-DAY-AVE-METALS	Due:	6/18/2007	Received:	6/5/2007
Locator:		Site:	91556003620645010700		

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Quality Control Summary	MI	S		QC SUMMARY		0.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 187.99

CLIENT SAMPLE ID REVIEW	COC SCANNED	LOGIN REVIEW	FINAL PDFS EMAILED
Signature:	Signature:	Signature:	Signature:
Date:	Date:	Date:	Date:

Analytical Report for Project Number L64142

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

August 16, 2007

Report to:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way Suite 300
Pocatello, ID 83201

Bill to:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way Suite 300
Pocatello, ID 83201

Project ID:
ACZ Project ID: L64142

Greg Mladenka:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on July 27, 2007. This project has been assigned to ACZ's project number, L64142. Please reference this number in all future inquiries.

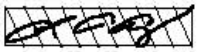
All analyses were performed according to ACZ's Quality Assurance Plan, version 12.0. The enclosed results relate only to the samples received under L64142. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after September 16, 2007. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than $10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.



16/Aug/07

Tony Antalek, Project Manager, has reviewed and approved this report in its entirety.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Idaho Dept of Environmental Quality
Project ID:
Sample ID: BLACKFOOT R. @GOVT.

ACZ Sample ID: ***L64142-01***
Date Sampled: *07/26/07 13:00*
Date Received: *07/27/07*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							08/08/07 13:48	aml

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	08/02/07 0:50	jjr
Calcium, dissolved	M200.7 ICP	44.2			mg/L	0.2	1	08/07/07 3:15	wfg
Chromium, dissolved	M200.8 ICP-MS		U	*	mg/L	0.0001	0.0005	08/02/07 0:50	jjr
Copper, dissolved	M200.8 ICP-MS	0.0014	B		mg/L	0.0005	0.003	08/02/07 0:50	jjr
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	08/02/07 0:50	jjr
Magnesium, dissolved	M200.7 ICP	22.2			mg/L	0.2	1	08/07/07 3:15	wfg
Nickel, dissolved	M200.8 ICP-MS	0.0019	B		mg/L	0.0006	0.003	08/02/07 0:50	jjr
Selenium, total	SM 3114 B, AA-Hydride		U		mg/L	0.001	0.005	08/10/07 8:36	gme
Silver, dissolved	M200.8 ICP-MS		U		mg/L	5E-05	0.0003	08/03/07 11:14	jjr
Vanadium, dissolved	M200.8 ICP-MS	0.0030			mg/L	0.0002	0.001	08/02/07 0:50	jjr
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	08/07/07 3:15	wfg

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		169			mg/L	2	20	08/06/07 0:00	lcp/jlf
Carbonate as CaCO3		11	B		mg/L	2	20	08/06/07 0:00	lcp/jlf
Hydroxide as CaCO3			U		mg/L	2	20	08/06/07 0:00	lcp/jlf
Total Alkalinity		180			mg/L	2	20	08/06/07 0:00	lcp/jlf
Carbon, total organic (TOC)	415.1 / SM5310B	8		*	mg/L	1	5	08/10/07 19:33	jag
Hardness as CaCO3	SM2340B - Calculation	202			mg/L	1	7	08/16/07 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		U		mg/L	0.02	0.1	08/04/07 17:37	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.15		*	mg/L	0.01	0.05	08/09/07 10:34	aml
Residue, Non-Filterable (TSS) @105C	160.2 / SM2540D	14	B	*	mg/L	5	20	08/02/07 11:12	lcp

** Please refer to Qualifier Reports for detail.*

ACZ Laboratories, Inc.
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Inorganic Reference

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit, typically 5 times the MDL.
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calivation Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
U	Analyte was analyzed for but not detected at the indicated MDL

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(5)	EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
(6)	Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID:

ACZ Project ID: ***L64142***

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG229683													
WG229683PBW1	PBW	08/06/07 11:12				U	mg/L		-20	20			
WG229683LCSW2	LCSW	08/06/07 11:23	WC070723-9	820		816.7	mg/L	99.6	90	110			
L64151-01DUP	DUP	08/06/07 12:55			97	97.5	mg/L				0.5	20	
WG229683PBW2	PBW	08/06/07 14:13				U	mg/L		-20	20			
WG229683LCSW5	LCSW	08/06/07 14:26	WC070723-9	820		823.2	mg/L	100.4	90	110			
WG229683PBW3	PBW	08/06/07 17:41				U	mg/L		-20	20			
WG229683LCSW8	LCSW	08/06/07 17:54	WC070723-9	820		822.9	mg/L	100.4	90	110			
WG229683PBW4	PBW	08/06/07 20:54				U	mg/L		-20	20			
WG229683LCSW11	LCSW	08/06/07 21:06	WC070723-9	820		824.7	mg/L	100.6	90	110			
WG229683LCSW14	LCSW	08/06/07 23:51	WC070723-9	820		825.4	mg/L	100.7	90	110			

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG229403													
WG229403ICV	ICV	08/01/07 21:50	MS070607-2	.05		.05081	mg/L	101.6	90	110			
WG229403ICB	ICB	08/01/07 21:56				U	mg/L		-0.0003	0.0003			
WG229403LFB	LFB	08/01/07 22:02	MS070712-3	.05		.05266	mg/L	105.3	85	115			
WG229403CCV1	CCV	08/01/07 23:02	MS070725-4	.1		.09961	mg/L	99.6	90	110			
WG229403CCB1	CCB	08/01/07 23:08				U	mg/L		-0.0003	0.0003			
L64101-01AS	AS	08/01/07 23:38	MS070712-3	.05	U	.04954	mg/L	99.1	70	130			
L64101-01ASD	ASD	08/01/07 23:44	MS070712-3	.05	U	.04705	mg/L	94.1	70	130	5.16	20	
WG229403CCV2	CCV	08/02/07 0:14	MS070725-4	.1		.09595	mg/L	96	90	110			
WG229403CCB2	CCB	08/02/07 0:20				U	mg/L		-0.0003	0.0003			
WG229403CCV3	CCV	08/02/07 0:56	MS070725-4	.1		.1007	mg/L	100.7	90	110			
WG229403CCB3	CCB	08/02/07 1:02				U	mg/L		-0.0003	0.0003			

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG229733													
WG229733ICV	ICV	08/07/07 1:27	II070725-7	100		101.47	mg/L	101.5	95	105			
WG229733ICB	ICB	08/07/07 1:31				U	mg/L		-0.6	0.6			
WG229733PQV	PQV	08/07/07 1:34	II070713-2	1		.83	mg/L	83	70	130			
WG229733SIC	SIC	08/07/07 1:38	II070725-4	201		200.08	mg/L	99.5	1	200			
WG229733LFB	LFB	08/07/07 1:44	II070802-2	67.97008		69.59	mg/L	102.4	85	115			
WG229733CCV1	CCV	08/07/07 2:23	II070725-6	50		51.12	mg/L	102.2	90	110			
WG229733CCB1	CCB	08/07/07 2:26				U	mg/L		-0.6	0.6			
L64111-12AS	AS	08/07/07 2:45	II070802-2	67.97008	141	200.67	mg/L	87.8	85	115			
L64111-12ASD	ASD	08/07/07 2:49	II070802-2	67.97008	141	201.67	mg/L	89.3	85	115	0.5	20	
WG229733CCV2	CCV	08/07/07 3:08	II070725-6	50		52.59	mg/L	105.2	90	110			
WG229733CCB2	CCB	08/07/07 3:11				U	mg/L		-0.6	0.6			
WG229733CCV3	CCV	08/07/07 3:34	II070725-6	50		51.7	mg/L	103.4	90	110			
WG229733CCB3	CCB	08/07/07 3:37				U	mg/L		-0.6	0.6			

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID:

ACZ Project ID: ***L64142***

Carbon, total organic (TOC) 415.1 / SM5310B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG230038													
WG230038CCV3	CCV	08/10/07 17:48	WI070803-2	100		92.6	mg/L	92.6	90	110			
WG230038CCB3	CCB	08/10/07 17:48				U	mg/L		-3	3			
WG230038LFB	LFB	08/10/07 18:03	WI070803-1	50		45.4	mg/L	90.8	90	110			
L64112-05DUP	DUP	08/10/07 18:33			U	U	mg/L				0	20	RA
L64112-06AS	AS	08/10/07 19:03	WI070803-1	50	U	46.9	mg/L	93.8	90	110			
WG230038CCV4	CCV	08/10/07 20:32	WI070803-2	100		91.2	mg/L	91.2	90	110			
WG230038CCB4	CCB	08/10/07 20:47				U	mg/L		-3	3			
WG230038CCV1	CCV	08/10/07 23:31	WI070803-2	100		93.4	mg/L	93.4	90	110			
WG230038CCB1	CCB	08/10/07 23:45				U	mg/L		-3	3			
WG230038CCV2	CCV	08/11/07 1:15	WI070803-2	100		89.7	mg/L	89.7	90	110			
WG230038CCB2	CCB	08/11/07 1:30				U	mg/L		-3	3			

Chromium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG229403													
WG229403ICV	ICV	08/01/07 21:50	MS070607-2	.05		.05219	mg/L	104.4	90	110			
WG229403ICB	ICB	08/01/07 21:56				U	mg/L		-0.0003	0.0003			
WG229403LFB	LFB	08/01/07 22:02	MS070712-3	.05		.05269	mg/L	105.4	85	115			
WG229403CCV1	CCV	08/01/07 23:02	MS070725-4	.1		.1005	mg/L	100.5	90	110			
WG229403CCB1	CCB	08/01/07 23:08				.00027	mg/L		-0.0003	0.0003			
L64101-01AS	AS	08/01/07 23:38	MS070712-3	.05	.0004	.04863	mg/L	96.5	70	130			
L64101-01ASD	ASD	08/01/07 23:44	MS070712-3	.05	.0004	.04835	mg/L	95.9	70	130	0.58	20	
WG229403CCV2	CCV	08/02/07 0:14	MS070725-4	.1		.102	mg/L	102	90	110			
WG229403CCB2	CCB	08/02/07 0:20				.00063	mg/L		-0.0003	0.0003			BE
WG229403CCV3	CCV	08/02/07 0:56	MS070725-4	.1		.102	mg/L	102	90	110			
WG229403CCB3	CCB	08/02/07 1:02				.00069	mg/L		-0.0003	0.0003			BE

Copper, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG229403													
WG229403ICV	ICV	08/01/07 21:50	MS070607-2	.05		.05099	mg/L	102	90	110			
WG229403ICB	ICB	08/01/07 21:56				U	mg/L		-0.0015	0.0015			
WG229403LFB	LFB	08/01/07 22:02	MS070712-3	.05		.05128	mg/L	102.6	85	115			
WG229403CCV1	CCV	08/01/07 23:02	MS070725-4	.25		.2442	mg/L	97.7	90	110			
WG229403CCB1	CCB	08/01/07 23:08				U	mg/L		-0.0015	0.0015			
L64101-01AS	AS	08/01/07 23:38	MS070712-3	.05	.0024	.04724	mg/L	89.7	70	130			
L64101-01ASD	ASD	08/01/07 23:44	MS070712-3	.05	.0024	.04705	mg/L	89.3	70	130	0.4	20	
WG229403CCV2	CCV	08/02/07 0:14	MS070725-4	.25		.2477	mg/L	99.1	90	110			
WG229403CCB2	CCB	08/02/07 0:20				U	mg/L		-0.0015	0.0015			
WG229403CCV3	CCV	08/02/07 0:56	MS070725-4	.25		.2486	mg/L	99.4	90	110			
WG229403CCB3	CCB	08/02/07 1:02				U	mg/L		-0.0015	0.0015			

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic QC Summary

Idaho Dept of Environmental Quality ACZ Project ID: ***L64142***

Project ID:

Lead, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG229403													
WG229403ICV	ICV	08/01/07 21:50	MS070607-2	.05		.05431	mg/L	108.6	90	110			
WG229403ICB	ICB	08/01/07 21:56				U	mg/L		-0.0003	0.0003			
WG229403LFB	LFB	08/01/07 22:02	MS070712-3	.05		.05434	mg/L	108.7	85	115			
WG229403CCV1	CCV	08/01/07 23:02	MS070725-4	.25		.2514	mg/L	100.6	90	110			
WG229403CCB1	CCB	08/01/07 23:08				.00013	mg/L		-0.0003	0.0003			
L64101-01AS	AS	08/01/07 23:38	MS070712-3	.05	.0009	.0533	mg/L	104.8	70	130			
L64101-01ASD	ASD	08/01/07 23:44	MS070712-3	.05	.0009	.0537	mg/L	105.6	70	130	0.75	20	
WG229403CCV2	CCV	08/02/07 0:14	MS070725-4	.25		.2558	mg/L	102.3	90	110			
WG229403CCB2	CCB	08/02/07 0:20				.00011	mg/L		-0.0003	0.0003			
WG229403CCV3	CCV	08/02/07 0:56	MS070725-4	.25		.255	mg/L	102	90	110			
WG229403CCB3	CCB	08/02/07 1:02				.00012	mg/L		-0.0003	0.0003			

Magnesium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG229733													
WG229733ICV	ICV	08/07/07 1:27	II070725-7	100		101.43	mg/L	101.4	95	105			
WG229733ICB	ICB	08/07/07 1:31				U	mg/L		-0.6	0.6			
WG229733PQV	PQV	08/07/07 1:34	II070713-2	1		.91	mg/L	91	70	130			
WG229733SIC	SIC	08/07/07 1:38	II070725-4	201		196.3	mg/L	97.7	1	200			
WG229733LFB	LFB	08/07/07 1:44	II070802-2	54.96908		55.85	mg/L	101.6	85	115			
WG229733CCV1	CCV	08/07/07 2:23	II070725-6	50		49.85	mg/L	99.7	90	110			
WG229733CCB1	CCB	08/07/07 2:26				U	mg/L		-0.6	0.6			
L64111-12AS	AS	08/07/07 2:45	II070802-2	54.96908	28.1	83.52	mg/L	100.8	85	115			
L64111-12ASD	ASD	08/07/07 2:49	II070802-2	54.96908	28.1	83.48	mg/L	100.7	85	115	0.05	20	
WG229733CCV2	CCV	08/07/07 3:08	II070725-6	50		51.61	mg/L	103.2	90	110			
WG229733CCB2	CCB	08/07/07 3:11				U	mg/L		-0.6	0.6			
WG229733CCV3	CCV	08/07/07 3:34	II070725-6	50		49.77	mg/L	99.5	90	110			
WG229733CCB3	CCB	08/07/07 3:37				U	mg/L		-0.6	0.6			

Nickel, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG229403													
WG229403ICV	ICV	08/01/07 21:50	MS070607-2	.05		.05167	mg/L	103.3	90	110			
WG229403ICB	ICB	08/01/07 21:56				U	mg/L		-0.0018	0.0018			
WG229403LFB	LFB	08/01/07 22:02	MS070712-3	.05		.05231	mg/L	104.6	85	115			
WG229403CCV1	CCV	08/01/07 23:02	MS070725-4	.25		.2432	mg/L	97.3	90	110			
WG229403CCB1	CCB	08/01/07 23:08				U	mg/L		-0.0018	0.0018			
L64101-01AS	AS	08/01/07 23:38	MS070712-3	.05	.0026	.04763	mg/L	90.1	70	130			
L64101-01ASD	ASD	08/01/07 23:44	MS070712-3	.05	.0026	.04714	mg/L	89.1	70	130	1.03	20	
WG229403CCV2	CCV	08/02/07 0:14	MS070725-4	.25		.2486	mg/L	99.4	90	110			
WG229403CCB2	CCB	08/02/07 0:20				U	mg/L		-0.0018	0.0018			
WG229403CCV3	CCV	08/02/07 0:56	MS070725-4	.25		.2488	mg/L	99.5	90	110			
WG229403CCB3	CCB	08/02/07 1:02				U	mg/L		-0.0018	0.0018			

ACZ Laboratories, Inc.
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Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID:

ACZ Project ID: ***L64142***

Nitrate/Nitrite as N M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG229667													
WG229667ICV	ICV	08/04/07 14:56	WI070609-1	2.416		2.492	mg/L	103.1	90	110			
WG229667ICB	ICB	08/04/07 14:57				U	mg/L		-0.06	0.06			
WG229671													
WG229671ICV	ICV	08/04/07 16:38	WI070609-1	2.416		2.467	mg/L	102.1	90	110			
WG229671ICB	ICB	08/04/07 16:39				U	mg/L		-0.06	0.06			
WG229671LFB1	LFB	08/04/07 16:41	WI070307-9	2		2.084	mg/L	104.2	90	110			
WG229671CCV1	CCV	08/04/07 16:53	WI070731-1	2		2.048	mg/L	102.4	90	110			
WG229671CCB1	CCB	08/04/07 16:55				.028	mg/L		-0.06	0.06			
WG229671CCV2	CCV	08/04/07 17:09	WI070731-1	2		2.031	mg/L	101.6	90	110			
WG229671CCB2	CCB	08/04/07 17:11				.025	mg/L		-0.06	0.06			
WG229671LFB2	LFB	08/04/07 17:18	WI070307-9	2		2.077	mg/L	103.9	90	110			
L64119-06DUP	DUP	08/04/07 17:23			2.22	2.209	mg/L				0.5	20	
WG229671CCV3	CCV	08/04/07 17:25	WI070731-1	2		2.023	mg/L	101.2	90	110			
WG229671CCB3	CCB	08/04/07 17:27				.023	mg/L		-0.06	0.06			
WG229671CCV4	CCV	08/04/07 17:41	WI070731-1	2		2.013	mg/L	100.7	90	110			
WG229671CCB4	CCB	08/04/07 17:43				.03	mg/L		-0.06	0.06			
L64119-05AS	AS	08/04/07 17:44	WI070307-9	4	2.05	6.273	mg/L	105.6	90	110			
WG229671CCV5	CCV	08/04/07 17:45	WI070731-1	2		2.02	mg/L	101	90	110			
WG229671CCB5	CCB	08/04/07 17:48				U	mg/L		-0.06	0.06			

Phosphorus, total M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG229938													
WG229876ICV	ICV	08/09/07 10:22	WI070329-1	.65228		.675	mg/L	103.5	90	110			
WG229876ICB	ICB	08/09/07 10:24				U	mg/L		-0.03	0.03			
WG229876LRB	LRB	08/09/07 10:25				U	mg/L		-0.03	0.03			
WG229876LFB	LFB	08/09/07 10:26	WI070808-2	.5		.489	mg/L	97.8	90	110			
WG229876CCV1	CCV	08/09/07 10:36	WI070808-2	.5		.526	mg/L	105.2	90	110			
WG229876CCB1	CCB	08/09/07 10:38				U	mg/L		-0.03	0.03			
WG229876CCV2	CCV	08/09/07 10:50	WI070808-2	.5		.526	mg/L	105.2	90	110			
WG229876CCB2	CCB	08/09/07 10:51				U	mg/L		-0.03	0.03			
L64121-02LFM	LFM	08/09/07 11:00	WI070808-2	.5	2	2.64	mg/L	128	90	110			M3
L64121-03DUP	DUP	08/09/07 11:03			.79	.822	mg/L				4	20	
WG229876CCV3	CCV	08/09/07 11:04	WI070808-2	.5		.524	mg/L	104.8	90	110			
WG229876CCB3	CCB	08/09/07 11:05				U	mg/L		-0.03	0.03			
WG229938CCV1	CCV	08/09/07 11:07	WI070808-2	.5		.522	mg/L	104.4	90	110			
WG229938CCB1	CCB	08/09/07 11:08				U	mg/L		-0.03	0.03			

Residue, Non-Filterable (TSS) @105C 160.2 / SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG229514													
WG229514PBW	PBW	08/02/07 10:45				U	mg/L		-15	15			
WG229514LCSW	LCSW	08/02/07 10:46	PCN27688	152		152	mg/L	100	80	120			
L64153-04DUP	DUP	08/02/07 11:19			U	U	mg/L				0	20	RA

ACZ Laboratories, Inc.
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Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID:

ACZ Project ID: ***L64142***

Selenium, total SM 3114 B, AA-Hydride

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG229650													
WG229650ICV	ICV	08/08/07 17:18	II070710-1	.025		.0259	mg/L	103.6	90	110			
WG229650ICB	ICB	08/08/07 17:20				U	mg/L		-0.003	0.003			
WG229650ICV1	ICV	08/09/07 18:09	II070710-1	.025		.0265	mg/L	106	90	110			
WG229650ICB1	ICB	08/09/07 18:11				U	mg/L		-0.003	0.003			
WG229650ICV1	ICV	08/10/07 7:21	II070710-1	.025		.0257	mg/L	102.8	90	110			
WG229650ICB1	ICB	08/10/07 7:23				U	mg/L		-0.003	0.003			
WG229775													
WG229775CCV	CCV	08/10/07 8:30	II070710-1	.025		.0242	mg/L	96.8	90	110			
WG229775CCB	CCB	08/10/07 8:31				U	mg/L		-0.003	0.003			
WG229775LRB	LRB	08/10/07 8:33				U	mg/L		-0.003	0.003			
WG229775LFB	LFB	08/10/07 8:34	II070720-5	.02		.0189	mg/L	94.5	85	115			
L64142-01LFM	LFM	08/10/07 8:38	II070720-5	.02	U	.0189	mg/L	94.5	85	115			
L64142-01LFMD	LFMD	08/10/07 8:39	II070720-5	.02	U	.019	mg/L	95	85	115	0.53	20	
WG229775CCV	CCV	08/10/07 8:49	II070710-1	.025		.0251	mg/L	100.4	90	110			
WG229775CCB	CCB	08/10/07 8:51				U	mg/L		-0.003	0.003			
WG229775CCV	CCV	08/10/07 8:54	II070710-1	.025		.0252	mg/L	100.8	90	110			
WG229775CCB	CCB	08/10/07 8:55				U	mg/L		-0.003	0.003			

Silver, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG229580													
WG229580ICV	ICV	08/03/07 8:14	MS070731-2	.02006		.018	mg/L	89.7	90	110			
WG229580ICB	ICB	08/03/07 8:20				U	mg/L		-0.00015	0.00015			
WG229580LFB	LFB	08/03/07 8:27	MS070712-3	.01003		.009416	mg/L	93.9	85	115			
WG229580CCV1	CCV	08/03/07 9:26	MS070725-4	.025075		.02479	mg/L	98.9	90	110			
WG229580CCB1	CCB	08/03/07 9:32				U	mg/L		-0.00015	0.00015			
L64111-05AS	AS	08/03/07 10:02	MS070712-3	.1003	U	.09023	mg/L	90	70	130			
L64111-05ASD	ASD	08/03/07 10:08	MS070712-3	.1003	U	.09295	mg/L	92.7	70	130	2.97	20	
WG229580CCV2	CCV	08/03/07 10:38	MS070725-4	.025075		.02441	mg/L	97.3	90	110			
WG229580CCB2	CCB	08/03/07 10:44				U	mg/L		-0.00015	0.00015			
WG229580CCV3	CCV	08/03/07 11:20	MS070725-4	.025075		.02474	mg/L	98.7	90	110			
WG229580CCB3	CCB	08/03/07 11:26				U	mg/L		-0.00015	0.00015			

Vanadium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG229403													
WG229403ICV	ICV	08/01/07 21:50	MS070607-2	.05		.05161	mg/L	103.2	90	110			
WG229403ICB	ICB	08/01/07 21:56				U	mg/L		-0.0006	0.0006			
WG229403LFB	LFB	08/01/07 22:02	MS070712-3	.05		.05246	mg/L	104.9	85	115			
WG229403CCV1	CCV	08/01/07 23:02	MS070725-4	.1		.09987	mg/L	99.9	90	110			
WG229403CCB1	CCB	08/01/07 23:08				U	mg/L		-0.0006	0.0006			
L64101-01AS	AS	08/01/07 23:38	MS070712-3	.05	.0008	.04981	mg/L	98	70	130			
L64101-01ASD	ASD	08/01/07 23:44	MS070712-3	.05	.0008	.04935	mg/L	97.1	70	130	0.93	20	
WG229403CCV2	CCV	08/02/07 0:14	MS070725-4	.1		.1008	mg/L	100.8	90	110			
WG229403CCB2	CCB	08/02/07 0:20				U	mg/L		-0.0006	0.0006			
WG229403CCV3	CCV	08/02/07 0:56	MS070725-4	.1		.1006	mg/L	100.6	90	110			
WG229403CCB3	CCB	08/02/07 1:02				U	mg/L		-0.0006	0.0006			

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Inorganic QC Summary

Idaho Dept of Environmental Quality
Project ID:

ACZ Project ID: ***L64142***

Zinc, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG229733													
WG229733ICV	ICV	08/07/07 1:27	II070725-7	2		1.982	mg/L	99.1	95	105			
WG229733ICB	ICB	08/07/07 1:31				U	mg/L		-0.03	0.03			
WG229733PQV	PQV	08/07/07 1:34	II070713-2	.05		.045	mg/L	90	70	130			
WG229733SIC	SIC	08/07/07 1:38	II070725-4	.1		.101	mg/L	101	80	120			
WG229733LFB	LFB	08/07/07 1:44	II070802-2	.5		.512	mg/L	102.4	85	115			
WG229733CCV1	CCV	08/07/07 2:23	II070725-6	1		1	mg/L	100	90	110			
WG229733CCB1	CCB	08/07/07 2:26				U	mg/L		-0.03	0.03			
L64111-12AS	AS	08/07/07 2:45	II070802-2	.5	U	.541	mg/L	108.2	85	115			
L64111-12ASD	ASD	08/07/07 2:49	II070802-2	.5	U	.534	mg/L	106.8	85	115	1.3	20	
WG229733CCV2	CCV	08/07/07 3:08	II070725-6	1		1.026	mg/L	102.6	90	110			
WG229733CCB2	CCB	08/07/07 3:11				U	mg/L		-0.03	0.03			
WG229733CCV3	CCV	08/07/07 3:34	II070725-6	1		1.032	mg/L	103.2	90	110			
WG229733CCB3	CCB	08/07/07 3:37				U	mg/L		-0.03	0.03			

ACZ Laboratories, Inc.
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Inorganic Extended Qualifier Report

Idaho Dept of Environmental Quality ACZ Project ID: ***L64142***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L64142-01	WG229403	Chromium, dissolved	M200.8 ICP-MS	BE	Target analyte in continuing calibration blank (CCB) at or above the acceptance criteria. Target analyte was not detected in the sample [< MDL].
	WG230038	Carbon, total organic (TOC)	415.1 / SM5310B	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG229938	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M3	The accuracy of the spike recovery does not apply because analyte concentration in the sample is disproportionate to the spike level. The recovery of the method control sample was acceptable.
	WG229514	Residue, Non-Filterable (TSS) @105C	160.2 / SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

ACZ Laboratories, Inc.
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Certification Qualifiers

Idaho Dept of Environmental Quality ACZ Project ID: ***L64142***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Idaho Dept of Environmental Quality

ACZ Project ID: L64142
Date Received: 7/27/2007
Received By:
Date Printed: 7/27/2007

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?	X		
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?	X		
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?			X
11) Are the trip blanks (VOA and/or Cyanide) present?			X
12) Are samples requiring no headspace, headspace free?			X
13) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

N/A

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id		Temp (°C)	Rad (µR/hr)
1612		2.7	17

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Idaho Dept of Environmental Quality

ACZ Project ID: L64142
Date Received: 7/27/2007
Received By:

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	O < 2	T >12	N/A	RAD	ID
L64142-01	BLACKFOOT R. @GOVT.	Y	Y			Y						

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: _____

L64142

ACZ Laboratories, Inc. — **CHAIN of CUSTODY**

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Greg Mladenka
Company: IDEQ
E-mail: greg.mladenka@deq.idaho.gov
Address: 444 Hospital Way #300 Pocatello, ID 83201
Telephone: 208-236-6160

Copy of Report to:

Name:
Company:
E-mail:
Telephone:

Invoice to:

Name: Kasey Guthrie
Company:
E-mail: kasey.guthrie@deq.idaho.gov
Address: SAME
Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

PROJECT INFORMATION

Quote #: 4-DAY-AVE
Project/PO #:
Reporting state for compliance testing: ID
Sampler's Name: Greg Mladenka
Are any samples NRC licensable material? NO

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	4-DAY-AVE
Blackfoot R @ Govt. Dam	7-26-07 1300	W	5	

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
[signature]	7/26/07 1500	[signature] 7-27-07	8:41

FRMAD050.03.05.02 White - Return with sample. Yellow - Retain for your records.

ACZ Laboratories, Inc.
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Short Holdtime

Idaho Dept of Environmental Quality ACZ Project ID: ***L64142***
Project ID:

Samplenum	ClientID	Collectdate	Receivedate	Prod	Holddays	Holddate	Past?

No short holdtime parameters found.

IDDEQ L64142

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Login Review

Idaho Dept of Environmental Quality
Project ID:
Printed: 07/27/07 16:21

Account Code: IDDEQ
ACZ Project ID: L64142
Project Manager Sue Webber
suew@acz.com x110

BILLING:
Kasey Guthrie
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

REPORTING:
Greg Mladenka
Idaho Dept of Environmental Quality
444 Hospital Way
Suite 300
Pocatello, ID 83201

DEPARTMENTS Inorganic, EDD, Raw Data, QC

CC:

Sample Receipt Form sent to: Greg Mladenka (greg.mladenka@deq.idaho.gov)

L64142-01

Client ID:	BLACKFOOT R. @GOVT	Priority:	-	Sampled:	7/26/2007 1:00:00 PM
Quote Num	4-DAY-AVE	Due:	8/10/2007	Received:	7/27/2007
Locator:		Site:			

Parameter	MX	Class	Bottle	ACZ Product	EPA Method	Price
Alkalinity as CaCO3	SW	S	RAW	ALK	SM2320B - Titration	9.90
Cadmium, dissolved	SW	S	GREEN PC	CD-DMS-200	M200.8 ICP-MS	17.60
Calcium, dissolved	SW	S	GREEN	CA-D-200	M200.7 ICP	8.80
Carbon, total organic (TOC)	SW	S	YELLOW GL	TOC	415.1 / SM5310B	33.00
Chromium, dissolved	SW	S	GREEN PC	CR-DMS-200	M200.8 ICP-MS	17.60
Copper, dissolved	SW	S	GREEN PC	CU-DMS-200	M200.8 ICP-MS	17.60
Electronic Data Deliverable	MI	S		EDD		0.00
Hardness as CaCO3	SW	S	GREEN	HARD-D	SM2340B - Calculation	0.00
Lead, dissolved	SW	S	GREEN PC	PB-DMS-200	M200.8 ICP-MS	17.60
Magnesium, dissolved	SW	S	GREEN	MG-D-200	M200.7 ICP	8.80
Nickel, dissolved	SW	S	GREEN PC	NI-DMS-200	M200.8 ICP-MS	17.60
Nitrate/Nitrite as N	SW	S	YELLOW	N-NO3NO2-Y	M353.2 - H2SO4 preserved	9.00
Phosphorus, total	SW	S	YELLOW	P-T	M365.1 - Auto Ascorbic Acid (diges	16.50
Phosphorus, total	SW	S	YELLOW	X-P-T	M365.1 - Auto Ascorbic Acid Digest	0.00
Quality Control Summary	MI	S		QC SUMMARY		0.00
Residue, Non-Filterable (TSS) @105	SW	S	RAW	TSS	160.1 / SM2540C	11.00
Selenium, total	SW	S	RED	SE-THY	SM 3114 B, AA-Hydride	27.50
Setup charge for ICP, dissolved	MI	S		SETUP-ICP-D		10.89
Silver, dissolved	SW	S	GREEN PC	AG-DMS-200	M200.8 ICP-MS	17.60
Special reporting requirements	MI	S		EXTENDED REPO		0.00
Vanadium, dissolved	SW	S	GREEN PC	V-DMS-200	M200.8 ICP-MS	17.60
Zinc, dissolved	SW	S	GREEN	ZN-D-200	M200.7 ICP	8.80

Factor: 100.00 Extended: 267.39

CLIENT SAMPLE ID REVIEW	COC SCANNED	LOGIN REVIEW	FINAL PDFS EMAILED
Signature:	Signature:	Signature:	Signature:
Date:	Date:	Date:	Date:

REPAD.12.06.05.01 Page 1 of 1

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