Red Dog Mine 4<sup>th</sup> Quarter and Annual Report 2013 for State of Alaska Waste Management Permit No. 0132-BA002 Reclamation Plan Approval F20099958 February 28, 2014

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#### Introduction

This report has been prepared to fulfill the quarterly reporting requirements of Red Dog Mine's obligations under the State of Alaska Waste Management Permit No. 0132-BA002 and the Red Dog Mine Reclamation Plan Approval F20099958.

This report covers the time period from January 1, 2013 through December 31, 2013, including quarterly data from October 1, 2013 through December 31, 2013

The report addresses mine water management, waste rock management, tailings management, inert solid waste landfills, mining and milling activities, reclamation activities and wildlife interactions which occur throughout the reporting period.

When appropriate updated plans will be provided with the report and recommendations will be made to modify reporting requirements or the underlying permit conditions.

# **Biomonitoring Program**

### **Annual Biomonitoring Report**

Al Ott and Bill Morris of the Alaska Department of Fish and Game prepared a draft biomonitoring report that has been reviewed and commented on by Red Dog. The report has not been finalized as of the date of this report. Once the final biomonitoring report for 2013 has been finalized, Red Dog will provide the final report to the Large Mine Permitting Team.

### Annual Summary of Biomonitoring Water Quality Sampling

Results of monthly samples of Biomonitoring water quality for the period can be found in attached electronic file, *Red Dog Biomonitoring Water Quality Analyses 2013.xlsx*, and in <u>APPENDIX A, Biomonitoring Water Quality Sample Results for 2013</u>

Biomonitoring water quality is analyzed using Water Quality Profile I from Table 2-7 of the Red Dog Mine Waste Management, Reclamation and Closure Monitoring Plan. The electronic file has a pivot chart with filters to allow the charting of any Profile I analyte for any biomonitoring station.

No unusual trends in the biomonitoring water chemistry were noted during the year other than the seasonal increase in metals due to deceasing water flows and increases or decreases related to freshet.

### Annual Data Report

The annual data report for the Long-Term Permafrost and Groundwater Monitoring Program is currently being prepared. Once the report has been completed a copy of the report will be submitted to DEC and DNR.

# **Mine Water Management**

#### Mine water flows

Table 1. Water Management Flows, shows the cumulative flows for each month in the reporting period and total flows for the 2013 calendar year.

**Table 1. Water Management Flows** 

	Flow in gallons							
Location	Oct-13	Nov-13	Dec-13	Total 2013				
Bon's Creek Total Flow	10,060,000	11,060,000	10,930,000	156,713,000				
Mine Water Collection Sump Total Flow	14,840,000	6,818,000	3,655,000	312,711,300				
Main Dam Seepage Pumpback	35,680,000	36,170,000	37,390,000	527,930,000				
Reclaim Flow to Mill	135,600,000 <sup>1</sup>	265,700,000 <sup>1</sup>	263,500,000 <sup>1</sup>	$2,327,580,000^{1}$				
WTP #1 Influent from Reclaim	3,180,000	0	0	330,131,000				
WTP #1 Influent from Mine Water	0	0	0	0				
Collection								
WTP #1 Influent from MWD	13,157,000	1,071,000	1,442,000	26,498,000				
WTP #1 Clarifier Underflow Sludge To	420,000	265,000	285,000	7,605,000				
Tails								
WTP #1 Effluent to Sand filter/Discharge	0	0	0	0				
WTP #2 Influent from Reclaim	0	0	0	1,867,580,000				
WTP #2 Sludge Discharge To Tails	0	0	0	99,356,000				
Sand Filter Effluent Discharged to Red	0	0	0	1,294,689,000				
Dog Ck								
WTP #3 Influent from MWD	5,053,000	0	0	46,484,000				
WTP #3 Influent from Mine Water	0	0	0	0				
Collection								
WTP #3 Total Effluent	5,053,000	0	0	46,484,000				
MWD to Pit	0	5,988,000	4,772,000	22,254,000				
Treated Water to Pit	0	0	0	132,091,000				
East Overburden Sump	852,000	536,000	732,000	12,975,000				
West Overburden Sump	2,908,000	2,261,000	1,678,000	16,522,000				
Natural Gas Water	0	0	0	0				

Notes to Table 1:

1. The flow meter for the reclaim water to the mill is currently bypassed because of operational requirements. As a result, the reported flows are significantly more than reported. The monthly flow of Reclaim Water to the Mill is usually 290,000,000 to 300,000,000 gallons per month. A plan is being developed to replace or move the flow meter.

There were no unusual, non-seasonal changes in flows in the quarter.

# Mine water quality

Results of monthly samples of mine water quality for the period can be found in attached electronic file, Red Dog Mine Water Quality Analyses 2013.xlsx, and in <u>APPENDIX B</u>, <u>Mine Water Quality Sample Results for 4<sup>th</sup> Quarter 2013</u>. Mine water quality is analyzed using Water Quality Profile II from Table 2-7 of the Red Dog Mine Waste Management, Reclamation and Closure Monitoring Plan.

Seasonal changes in concentrations in mine water quality occur because of flushing of metals from waste stockpiles in the spring, rain events, drought periods and low flows in winter. Spring time flushing generally causes an increase in the very soluble metals. Rain events can have effects similar to spring time flushing depending on the magnitude of the event. Drought periods often cause the concentrations of metals in the

streams to increase because of a reduction in dilution. Trending charts of any Profile II analyte and location can be plotted from the pivot chart tab of the electronic file.

#### Mine Water and Load Balance

A mine water balance is maintained at the Mine in GoldSim, a computer simulation program. An electronic copy of the 2013 GoldSim water balance is presented in an electronic file. Viewing the file requires GoldSim Player. The GoldSim Player is free and can be downloaded from <a href="http://www.goldsim.com/Web/Downloads/">http://www.goldsim.com/Web/Downloads/</a> A summary of annual flows and their loads for several chemical parameters are presented in an electronic file, Red Dog Mine 2013 Water and Mass Balance Estimates.xlsx.

The largest source of total dissolved solids (TDS) in the tailings impoundment water continues to be the Main Waste Stockpile. Red Dog has two major efforts underway to reduce the TDS entering the pond from the Main Waste Stockpile, our cover system plans for the Main Waste Stockpile and an investigation into improved methods of intercepting flows from the Main Waste Stockpile for treatment prior to the flow entering the tailings impoundment. See the attached 2013 TDS Management Plan Progress Report & Updated Management Plan for NPDES Permit AK-003865-2 in <a href="https://example.com/Appendix C Red Dog 2013 TDS Management Plan">Appendix C Red Dog 2013 TDS Management Plan</a>.

### Visual inspections of mine water systems

No unusual conditions were identified during visual inspections of mine water system during the quarter

# Reagents Consumed in Water Treatment in 2012

Red Dog Mine Reclamation Plan Approval F20099958 requires the following be provided in the annual report.

- Total volume of water treated in WTP#2; 1.9 billion gal
- Total quantity of flocculent used in WTP#2; can't be separated from WTP1
- Total quantity of lime used in WTP#2; can't be tracked separately from the other WTPs.
- Total quantity of sodium sulfide used in WTP#2; can't be separated from WTP1
- Quantity of any other chemicals used in significant quantities in WTP#2; none.
- Total quantity of flocculent used in WTP#3; none.
- Total quantity of lime used in WTP#3; and, can't be tracked separately from the other WTPs.
- Quantity of any other chemicals used in significant quantities in WTP#3. none

Total lime used throughout season for WTP1, WTP2, and WTP3 = 13,004 metric tonnes. Total flocculent used throughout the season was 75.6 metric tonnes for WTP1 and WTP2, most of which is for WTP2. Total sodium sulfide used for the season was 690 metric tonnes, most of which was used for WTP2.

#### Fish weir inspections

The Fish Weir was not inspected during the quarter.

# Waste Rock Management

### Quantities, placement locations and analysis of waste rock

As per Red Dog Mine Waste Management, Reclamation and Closure Monitoring Plan, Section 2.4 Waste Rock Management, the management of waste rock including quantities, locations and analysis of waste rock are reported in Appendix D Waste Rock Production Summary Fourth Quarter 2013.

### Results of waste rock geochemical monitoring

Other than blast hole analyses, no additional geochemical monitoring was conducted on waste rock materials during the reporting period.

### Visual inspections of waste rock facilities

Weekly waste stockpile inspections for Quarter 4, 2013 began on October 1, 2013 and ended on December 31, 2013. Dig face inspections were carried out on waste shots to confirm waste characteristics and suitability for designated stockpile locations. Phase III (PH3) is a Construction Waste Stockpile. The primary

waste storage sites have been the Main Pit Stockpile, (MPD2, MPD3, MPD4) the Main Waste Dump, (MWD,LAN) the North Oxide Dump(OXN) and the Coffer Dam (CFD, BDM). For Quarter 4 of 2013, a total of 2,279,935 tonnes of waste were hauled from the Aggaluk pit.

#### Main Waste Stockpile

1,335 tonnes of "Other Waste" were taken to the Main Waste Stockpile (MWD). Material taken to the Main Waste Stockpile was from the Ikalukrok and mixed formations.

#### Main Pit Stockpile

292,543, tonnes of "Most Reactive Waste" and 1,788,907, tonnes of "Other Waste" have been taken to the Main Pit Stockpile (MPD2, MPD3 and MPD4). Material taken to the Main Pit Stockpile was from the Ikalukrok, Siksikpuk and mixed formations.

#### Landfill Stockpile

3,916 tonnes of "Other Waste" was used to cover the landfill (LAN). The material was from the Ikalukrok formation.

#### Oxide North

110,182 tonnes of "Other Waste" was hauled to the Oxide North Dump (OXN). This material was from Ikalukrok, Siksikpuk and mixed formations.

#### Coffer Dam

36,591 tonnes of "Other Waste" was hauled to the Coffer Dam (CFD). This material was from the Ikalukrok and mixed formations.

#### Back Dam

63,813 tonnes of "Other Waste" was hauled to the Back Dam (BDM). The material was from the Ikalukrok and Siksikpuk formations.

### Incinerator

3,738 tonnes of "Other Waste" was hauled to the incinerator (INC) and used to build a ramp, this material was from the Ikalukrok formation.

#### Portable Crusher

37,294 tonnes of "Other Waste" was hauled to the portable crusher (PCP). This material was from the Ikalukrok and mixed formations.

### Phase III

6,052 tonnes of "Construction Waste" was hauled to the Phase III (PH3) stockpile; it was from the Ikalukrok formation.

#### Powerhouse

445 tonnes of "Other Waste" was hauled to the power house (PWR) for construction. It was from the Ikalukrok formation.

### New Shifter's Pad

5,429 tonnes of "Other Waste" was hauled to the new shifters pad area(SHP). It was from the Ikalukrok and Siksikpuk formations.

### Significant activities in waste rock management

No significant activities occurred in waste management during the quarter

# **Tailings Management**

### Quantities and analysis of tailings

Table 2 shows the tonnes of tailings produced and the lead, zinc and iron content of the produced tailings during the reporting period.

**Table 2. Tailings Produced During the Reporting Period** 

			Analysis	
Month	Dry Tonnes Tailings	%Pb	%Zn	%Fe
Oct-2013	237,816	0.7	2.5	3.3
Nov-2013	225,564	1.1	3.1	3.1
Dec-2013	224,114	1	3.2	3.8
Jan-Dec 2013	2,693,637	0.9	2.9	3.3

### Tailings pond elevation

Table 3 shows the surveyed Tailings Pond water levels for the reporting period. During the period the crest of the tailings dam was 970 feet above Mean Sea Level (MSL) and the allowable freeboard of the tailings dam was 5 feet below the crest of the tailings dam. The pond level is not supposed to be higher than 5 feet below the crest of the tailings dam which for this reporting period is 965 feet MSL.

**Table 3. Tailings Pond Water Elevation** 

Survey Date	Pond Level Feet above MSL
03-Oct	962.11
10-Oct	962.25
17-Oct	962.45
25-Oct	962.69
31-Oct	963.07
07-Nov	963.20
15-Nov	963.56
22-Nov	963.64
28-Nov	963.65
05-Dec	963.84
12-Dec	964.07
19-Dec	964.16
26-Dec	964.29

# Visual inspections of tailings facilities

No unusual conditions or findings were observed during the reporting period.

### Significant activities in tailings management

There were no significant activities in tailings management during the reporting period.

### **Inert Solid Waste Landfills**

Red Dog operates two inert solid waste disposal areas at the mine site. One facility is located on the Main Waste Stockpile and is the primary inert solid waste disposal area. The second site is located just south of the incinerators along the shore of the tailings pond. Only incinerator waste is deposited at this location.

### Quantities of inert solid waste

Approximately 22,000 cubic yards of material as determined by survey volume was placed in the Main Waste Stockpile inert solid waste landfill at the mine.

### Visual inspections of the inert solid waste landfills

There were no significant activities or changes to inert solid waste landfills during the reporting period. No conditions were observed at the landfills during the monthly inspections that were unusual or required corrective action. Some Red Fox activity was noticed in the vicinity of the mine landfill. Foxes were hazed or trapped and relocated as necessary.

### Significant activities in inert solid waste landfills

There were no significant changes to inert solid waste landfill operations or locations during the report period.

### **Mining and Milling Activities**

### **Mining Activities**

Table 4 shows the tonnes of ore hauled to mill feed stockpiles each month during the reporting period.

Table 4: Ore Mined During the Reporting Period

Date	Ore Mined, tonnes
Oct-2013	317,973
Nov-2013	261,144
Dec-2013	319,545
Jan-Dec 2013	3,716,502

#### Milling Activities

Table 5 shows the tonnes of ore fed to mill grinding each month during the reporting period.

**Table 5: Ore Milled During the Reporting Period** 

Date	Ore Milled, tonnes
Oct-2013	341,078
Nov-2013	313,941
Dec-2013	329,638
Jan-Dec 2013	3,852,807

# Significant activities in Mining and Milling

There were no significant activities in mining and milling during the quarter.

#### **Reclamation Activities**

### Significant activities in Mining and Milling

There were no significant activities in mining and milling during the quarter. The updated 2013 Mine Plan is included in Appendix E Red Dog One Year Mine Plan 2013.

### **Reclamation Activities**

#### Area Disturbed and Reclaimed

In the calendar year 2013 an additional 6.4 acres were disturbed within the mine air permit boundary. The areas are listed in Table 2. Area Disturbed in 2013. A Map showing the disturbed areas is included in <a href="https://example.com/appendix F-2013-Red Dog Mine Disturbance Map">Appendix F-2013-Red Dog Mine Disturbance Map</a>.

Table 2. Area Disturbed in 2013

Disturbed Area	Acres
Aqqaluk	6.4
Tailings Abutment	0.5
Total 2013 Disturbance	6.9

#### Reclamation Research

O'Kane Consultants Inc. and Teck continued monitoring the Oxide Stockpile Cover System. Upon completion of the 2013 report, Teck will submit the report to DEC and DNR. All indications are that the cover system is performing as designed.

### Wildlife

#### Wildlife interactions

There were a total of six wildlife interactions during the quarter. Five interactions involved Red Foxes that were trapped and released outside of the mine boundary or hazed. The sixth incident was porcupine that wandered into the mine area and was relocated away from the mine.

#### **Financial Assurance**

Teck does not feel that the changes from the 2007 mine plan to the current mine plan require substantive changes to the financial assurance for this year. Teck will be updating and revising expected mine closure costs as part of the renewal process for the Reclamation Plan Authorization.

# Closing

Please accept this as the 4<sup>th</sup> Quarter 2013 and 2013 Annual Report for State of Alaska Waste Management Permit No. 0132-BA002 and Reclamation Plan Approval F20099958. If there are any questions, please contact Chris Menefee at (907) 754-5138 or myself at (907) 754-5127.

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate and complete.

Sincerely,

Teck Alaska Incorporated

Henri Letient, P. Eng. General Manager

Cc

Tim Pilon, ADEC, Fairbanks
Pete McGee, ADEC, Fairbanks
Scott Pexton, ADNR, Anchorage
Brent Martellaro, ADNR, Fairbanks
Stephanie Lovell, ADNR/DMLW, Fairbanks
Jack DiMarchi, ADNR, Anchorage
Al Ott, ADF&G, Fairbanks

Appendix A, Biomonitoring Water Quality Sample Results for 2013

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Bons 220	Alkalinity (As CaCO3)	5/27/2013	43000	μg/L	01_051213_01	
Bons 220	Aluminum	5/27/2013	20	μg/L	01_051213_01	
Bons 220	Bicarbonate (As CaC03)	5/27/2013	43000	μg/L	01_051213_01	
Bons 220	Cadmium	5/27/2013	0.2	μg/L	01_051213_01	Analyte detected between MDL and ML
Bons 220	Calcium	5/27/2013	12200	μg/L	01_051213_01	
Bons 220	Carbonate (AS CaCO3)	5/27/2013	< 2000	μg/L	01_051213_01	Undetected
Bons 220	Chloride	5/27/2013	1960		01_051213_01	Analyte detected between MDL and ML
Bons 220	Conductivity, Field	5/27/2013	56.1	uS/cm	01_051213_01	
Bons 220	Iron	5/27/2013	30	μg/L	01_051213_01	Analyte detected between MDL and ML
Bons 220	Lead	5/27/2013	5.2	μg/L	01_051213_01	
Bons 220	Magnesium	5/27/2013	6000	μg/L	01_051213_01	
Bons 220	pH, Field	5/27/2013	7.35	pH Units	01_051213_01	
Bons 220	Potassium	5/27/2013	800	μg/L	01_051213_01	Analyte detected between MDL and ML
Bons 220	Selenium	5/27/2013	< 1	μg/L	01_051213_01	Undetected
Bons 220	Sodium	5/27/2013	800	μg/L	01_051213_01	Analyte detected between MDL and ML
Bons 220	Sulfate	5/27/2013	8630	μg/L	01_051213_01	
Bons 220	Temperature, Field	5/27/2013	0	°C	01_051213_01	
Bons 220	<b>Total Dissolved Solids</b>	5/27/2013	60000	μg/L	01_051213_01	
Bons 220	Total Suspended Solids	5/27/2013	< 5000	μg/L	01_051213_01	Undetected
Bons 220	Zinc	5/27/2013	27	μg/L	01_051213_01	
Bons 220	Alkalinity (As CaCO3)	5/31/2013	11000	μg/L	01_052613_01	Analyte detected between MDL and ML
Bons 220	Aluminum	5/31/2013	167	μg/L	01_052613_01	
Bons 220	Bicarbonate (As CaC03)	5/31/2013	11000	μg/L	01_052613_01	Analyte detected between MDL and ML
Bons 220	Cadmium	5/31/2013	0.7	μg/L	01_052613_01	
Bons 220	Calcium	5/31/2013	5800		01 052613 01	
Bons 220	Carbonate (AS CaCO3)	5/31/2013	< 2000		01_052613_01	Undetected

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
			4050	. 11		Analyte detected
Bons 220	Chloride	5/31/2013	1950	μg/L	01_052613_01	between MDL and ML
Bons 220	Conductivity, Field	5/31/2013	23.0	uS/cm	01_052613_01	IVIL
Bons 220	Iron	5/31/2013		μg/L	01_052613_01	
Bons 220	Lead	5/31/2013		μg/L	01_052613_01	
Bons 220	Magnesium	5/31/2013	2500		01_052613_01	
B0115 220	iviagnesium	3/31/2013		рН	01_032013_01	
Bons 220	pH, Field	5/31/2013	7.45	Units	01_052613_01	
						Analyte detected
<b>D</b> 220	<b>D</b>	F /24 /2042	800	μg/L	04 050640 04	between MDL and
Bons 220	Potassium	5/31/2013	. 1	/1	01_052613_01	ML
Bons 220	Selenium	5/31/2013	<1	μg/L	01_052613_01	Undetected
			600	μg/L		Analyte detected between MDL and
Bons 220	Sodium	5/31/2013	000	μg/ L	01_052613_01	ML ML
Bons 220	Sulfate	5/31/2013	6910	ug/L	01_052613_01	
Bons 220	Temperature, Field	5/31/2013		°C	01 052613 01	
Bons 220	Total Dissolved Solids	5/31/2013	30000		01_052613_01	
Bons 220	Total Suspended Solids	5/31/2013	< 5000		01 052613 01	Undetected
Bons 220	Zinc	5/31/2013		μg/L	01_052613_01	Onacteded
Bons 220	Alkalinity (As CaCO3)	6/7/2013	23000		01 060913 01	
Bons 220	Aluminum	6/7/2013		μg/L	01_060913_01	
Bons 220	Bicarbonate (As CaCO3)	6/7/2013	23000		01_060913_01	
Bons 220	Cadmium	6/7/2013		μg/L	01_060913_01	Analyte detected between MDL and ML
Bons 220	Calcium	6/7/2013	7500	μg/L	01_060913_01	
Bons 220	Carbonate (AS CaCO3)	6/7/2013	< 2000	μg/L	01_060913_01	Undetected
Bons 220	Chloride	6/7/2013	1300	μg/L	01_060913_01	Analyte detected between MDL and ML
Bons 220	Conductivity, Field	6/7/2013	39.1	uS/cm	01_060913_01	
Bons 220	Iron	6/7/2013	300	μg/L	01_060913_01	
Bons 220	Lead	6/7/2013	6.2	μg/L	01_060913_01	
Bons 220	Magnesium	6/7/2013	3500	μg/L	01_060913_01	
Bons 220	pH, Field	6/7/2013	7.46	pH Units	01_060913_01	
Bons 220	Potassium	6/7/2013	700	μg/L	01_060913_01	Analyte detected between MDL and ML
Bons 220	Selenium	6/7/2013	< 1	μg/L	01_060913_01	Undetected

Location	Analyte	Sample	Result	Unit	Sample	Qualifier Comment
	7 <b>,</b>	Date		00	Number	
			600	μg/L		Analyte detected between MDL and
Bons 220	Sodium	6/7/2013	000	μg/ L	01_060913_01	ML
Bons 220	Sulfate	6/7/2013	8660	ug/L	01_060913_01	
Bons 220	Temperature, Field	6/7/2013	1.1		01 060913 01	
Bons 220	Total Dissolved Solids	6/7/2013	40000		01_060913_01	
Bons 220	Total Suspended Solids	6/7/2013	< 5000		01 060913 01	Undetected
Bons 220	Zinc	6/7/2013		μg/L	01 060913 01	Gildeteeted
Bons 220	Alkalinity (As CaCO3)	6/20/2013	50000		01_062313_01	
Bons 220	Aluminum	6/20/2013		μg/L	01_062313_01	
Bons 220	Bicarbonate (As CaC03)	6/20/2013	50000		01_062313_01	
Bons 220	Cadmium	6/20/2013	< 0.1		01_062313_01	Undetected
Bons 220	Calcium	6/20/2013	12700	· -	01 062313 01	
Bons 220	Carbonate (AS CaCO3)	6/20/2013	< 2000		01 062313 01	Undetected
Bons 220	Chloride	6/20/2013	5830		01 062313 01	
Bons 220	Conductivity, Field	6/20/2013		uS/cm	01_062313_01	
Bons 220	Iron	6/20/2013	1030	•	01 062313 01	
Bons 220	Lead	6/20/2013		μg/L	01_062313_01	
Bons 220	Magnesium	6/20/2013	6200		01_062313_01	
20113 220	magnesiam	0,20,2013		pH	01_001313_01	
Bons 220	pH, Field	6/20/2013	7.39	Units	01_062313_01	
						Analyte detected
		- / /	800	μg/L		between MDL and
Bons 220	Potassium	6/20/2013			01_062313_01	ML
Bons 220	Selenium	6/20/2013	< 1	μg/L	01_062313_01	Undetected
			1100	ug/l		Analyte detected between MDL and
Bons 220	Sodium	6/20/2013	1100	μg/ L	01 062313 01	ML ML
Bons 220	Sulfate	6/20/2013	19300	ug/L	01_062313_01	
Bons 220	Temperature, Field	6/20/2013	6.3		01 062313 01	
Bons 220	Total Dissolved Solids	6/20/2013	80000		01_062313_01	
Bons 220	Total Suspended Solids	6/20/2013	< 5000		01 062313 01	Undetected
Bons 220	Zinc	6/20/2013		μg/L	01 062313 01	Citable
Bons 220	Alkalinity (As CaCO3)	7/5/2013	58000		01_071413_01	
Bons 220	Aluminum	7/5/2013		μg/L	01_071413_01	
Bons 220	Bicarbonate (As CaC03)	7/5/2013	58000		01_071413_01	
Bons 220	Cadmium	7/5/2013		μg/L	01_071413_01	Undetected
Bons 220	Calcium	7/5/2013	20500		01_071413_01	
Bons 220	Carbonate (AS CaCO3)	7/5/2013	< 2000		01_071413_01	Undetected
Bons 220	Chloride	7/5/2013	3890		01_071413_01	
Bons 220	Conductivity, Field	7/5/2013		uS/cm	01_071413_01	
Bons 220	Iron	7/5/2013		μg/L	01 071413 01	
	🕶 .	., 5, 2013	.,,	7-07 =	00,1.10_01	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Bons 220	Lead	7/5/2013	2.2	μg/L	01_071413_01	
Bons 220	Magnesium	7/5/2013	9700	μg/L	01_071413_01	
Bons 220	pH, Field	7/5/2013	7.68	pH Units	01_071413_01	
Bons 220	Potassium	7/5/2013	500	μg/L	01_071413_01	Analyte detected between MDL and ML
Bons 220	Selenium	7/5/2013	< 1	μg/L	01_071413_01	Undetected
Bons 220	Sodium	7/5/2013	1900	μg/L	01_071413_01	Analyte detected between MDL and ML
Bons 220	Sulfate	7/5/2013	32000	μg/L	01_071413_01	
Bons 220	Temperature, Field	7/5/2013	7.9	°C	01_071413_01	
Bons 220	<b>Total Dissolved Solids</b>	7/5/2013	130000	μg/L	01_071413_01	
Bons 220	Total Suspended Solids	7/5/2013	< 5000	μg/L	01_071413_01	Undetected
Bons 220	Zinc	7/5/2013	22	μg/L	01_071413_01	
Bons 220	Alkalinity (As CaCO3)	7/29/2013	86000	μg/L	01_072813_01	
Bons 220	Aluminum	7/29/2013	58	μg/L	01_072813_01	
Bons 220	Bicarbonate (As CaCO3)	7/29/2013	86000	μg/L	01_072813_01	
Bons 220	Cadmium	7/29/2013	< 0.1	μg/L	01_072813_01	Undetected
Bons 220	Calcium	7/29/2013	31400	μg/L	01_072813_01	
Bons 220	Carbonate (AS CaCO3)	7/29/2013	< 2000	μg/L	01_072813_01	Undetected
Bons 220	Chloride	7/29/2013	4510	μg/L	01_072813_01	
Bons 220	Conductivity, Field	7/29/2013	195.2	uS/cm	01_072813_01	
Bons 220	Iron	7/29/2013	50	μg/L	01_072813_01	
Bons 220	Lead	7/29/2013	0.6	μg/L	01_072813_01	
Bons 220	Magnesium	7/29/2013	15100	μg/L	01_072813_01	
Bons 220	pH, Field	7/29/2013	8	pH Units	01_072813_01	
Bons 220	Potassium	7/29/2013	300	μg/L	01_072813_01	Analyte detected between MDL and ML
Bons 220	Selenium	7/29/2013	1.0	μg/L	01_072813_01	Analyte detected between MDL and ML
Bons 220	Sodium	7/29/2013	2600	μg/L	01_072813_01	
Bons 220	Sulfate	7/29/2013	53800	μg/L	01_072813_01	
Bons 220	Temperature, Field	7/29/2013	8.5	°C	01_072813_01	
Bons 220	<b>Total Dissolved Solids</b>	7/29/2013	174000	μg/L	01_072813_01	
Bons 220	Total Suspended Solids	7/29/2013	< 5000	μg/L	01_072813_01	Undetected
Bons 220	Zinc	7/29/2013	21	μg/L	01_072813_01	
Bons 220	Alkalinity (As CaC03)	8/9/2013	82000	μg/L	01_081113_01	
Bons 220	Aluminum	8/9/2013	190	μg/L	01_081113_01	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Bons 220	Bicarbonate (As CaC03)	8/9/2013	82000	μg/L	01_081113_01	
Bons 220	Cadmium	8/9/2013	< 0.1	μg/L	01_081113_01	Undetected
Bons 220	Calcium	8/9/2013	28200	μg/L	01_081113_01	
Bons 220	Carbonate (AS CaCO3)	8/9/2013	< 2000	μg/L	01_081113_01	Undetected
Bons 220	Chloride	8/9/2013	3850	μg/L	01_081113_01	
Bons 220	Conductivity, Field	8/9/2013	172.6	uS/cm	01_081113_01	
Bons 220	Iron	8/9/2013	260	μg/L	01_081113_01	
Bons 220	Lead	8/9/2013	2.0	μg/L	01_081113_01	
Bons 220	Magnesium	8/9/2013	13600	μg/L	01_081113_01	
Bons 220	pH, Field	8/9/2013	7.92	pH Units	01_081113_01	
Bons 220	Potassium	8/9/2013	300	μg/L	01_081113_01	Analyte detected between MDL and ML
Bons 220	Selenium	8/9/2013	1.5	μg/L	01_081113_01	Analyte detected between MDL and ML
Bons 220	Sodium	8/9/2013	2100	πα/Ι	01_081113_01	IVIL
Bons 220	Sulfate	8/9/2013	44100		01_081113_01	
Bons 220	Temperature, Field	8/9/2013	7.9		01_081113_01	
Bons 220	Total Dissolved Solids	8/9/2013	152000		01_081113_01	
Bons 220		· ·	< 5000			Undetected
	Total Suspended Solids	8/9/2013			01_081113_01	Undetected
Bons 220	Zinc	8/9/2013	99000	μg/L	01_081113_01	
	Alkalinity (As CaC03)	8/23/2013			01_082513_01	
Bons 220	Aluminum	8/23/2013		μg/L	01_082513_01	
Bons 220	Bicarbonate (As CaC03)	8/23/2013	97000	μg/L μg/L	01_082513_01	I I wal a to a to al
Bons 220	Cadmium	8/23/2013			01_082513_01	Undetected
Bons 220	Calcium	8/23/2013	33200		01_082513_01	I I and a transfer of
Bons 220	Carbonate (AS CaCO3)	8/23/2013	< 2000 3800		01_082513_01	Undetected
Bons 220	Chloride	8/23/2013			01_082513_01	
Bons 220	Conductivity, Field	8/23/2013		uS/cm	01_082513_01	
Bons 220	Iron	8/23/2013		μg/L	01_082513_01	
Bons 220	Lead	8/23/2013		μg/L	01_082513_01	
Bons 220	Magnesium	8/23/2013	16200 7.85	рН	01_082513_01	
Bons 220	pH, Field	8/23/2013		Units	01_082513_01	Analyte detected
Pons 220	Dotassium	0/22/2012	300	μg/L	01 002512 01	between MDL and
Bons 220	Potassium	8/23/2013	_ 1	ug/l	01_082513_01	ML
Bons 220	Selenium	8/23/2013		μg/L	01_082513_01	Undetected
Bons 220	Sodium	8/23/2013	2400		01_082513_01	
Bons 220	Sulfate	8/23/2013	47900		01_082513_01	
Bons 220	Temperature, Field	8/23/2013	6.1	C	01_082513_01	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Bons 220	Total Dissolved Solids	8/23/2013	174000	μg/L	01_082513_01	
Bons 220	Total Suspended Solids	8/23/2013	< 5000	μg/L	01_082513_01	Undetected
Bons 220	Zinc	8/23/2013	26	μg/L	01_082513_01	
Bons 220	Alkalinity (As CaCO3)	9/12/2013	101000	μg/L	01_090813_01	
Bons 220	Aluminum	9/12/2013	15	μg/L	01_090813_01	
Bons 220	Bicarbonate (As CaC03)	9/12/2013	101000	μg/L	01_090813_01	
Bons 220	Cadmium	9/12/2013	< 0.1	μg/L	01_090813_01	Undetected
Bons 220	Calcium	9/12/2013	36300	μg/L	01_090813_01	
Bons 220	Carbonate (AS CaCO3)	9/12/2013	< 2000	μg/L	01_090813_01	Undetected
Bons 220	Chloride	9/12/2013	4700	μg/L	01_090813_01	
Bons 220	Conductivity, Field	9/12/2013	204.0	uS/cm	01_090813_01	
						Analyte detected
		- 4 - 4	30	μg/L		between MDL and
Bons 220	Iron	9/12/2013			01_090813_01	ML
			0.4	ug/l		Analyte detected between MDL and
Bons 220	Lead	9/12/2013	0.4	μg/L	01 090813 01	ML ML
Bons 220	Magnesium	9/12/2013	17800	ug/L	01_090813_01	IVIL
50113 220	Magnesiam	3,12,2013		pH	01_030013_01	
Bons 220	pH, Field	9/12/2013	8.02	Units	01_090813_01	
			400	μg/L		Analyte detected between MDL and
Bons 220	Potassium	9/12/2013			01_090813_01	ML
Bons 220	Selenium	9/12/2013	< 1	μg/L	01_090813_01	Undetected
Bons 220	Sodium	9/12/2013	3100	μg/L	01_090813_01	
Bons 220	Sulfate	9/12/2013	57300	μg/L	01_090813_01	
Bons 220	Temperature, Field	9/12/2013	5.2	°C	01_090813_01	
Bons 220	<b>Total Dissolved Solids</b>	9/12/2013	180000	μg/L	01_090813_01	
Bons 220	<b>Total Suspended Solids</b>	9/12/2013	< 5000	μg/L	01_090813_01	Undetected
Bons 220	Zinc	9/12/2013	27	μg/L	01_090813_01	
Bons 220	Alkalinity (As CaCO3)	9/27/2013	99000	μg/L	01_092213_01	
Bons 220	Aluminum	9/27/2013	10	μg/L	01_092213_01	
Bons 220	Bicarbonate (As CaC03)	9/27/2013	99000	μg/L	01_092213_01	
Bons 220	Cadmium	9/27/2013	< 0.1	μg/L	01_092213_01	Undetected
Bons 220	Calcium	9/27/2013	38000	μg/L	01_092213_01	
Bons 220	Carbonate (AS CaCO3)	9/27/2013	< 2000	μg/L	01_092213_01	Undetected
Bons 220	Chloride	9/27/2013	3350	μg/L	01_092213_01	
Bons 220	Conductivity, Field	9/27/2013	191.7	uS/cm	01_092213_01	
Bons 220	Iron	9/27/2013	30	μg/L	01_092213_01	Analyte detected between MDL and ML

Location	Analyte	Sample	Result	Unit	Sample	Qualifier Comment
Location	Analyte	Date	Nesuit	Oilit	Number	
			0.2	/1		Analyte detected
Bons 220	Lead	9/27/2013	0.2	μg/L	01_092213_01	between MDL and ML
Bons 220	Magnesium	9/27/2013	18600	πα/Ι	01_092213_01	IVIL
D0113 220	iviagnesium	3/2//2013		рН	01_092213_01	
Bons 220	pH, Field	9/27/2013	8.06	Units	01 092213 01	
	,	· ·				Analyte detected
Bons 220	Potassium	9/27/2013	400	μg/L	01_092213_01	between MDL and ML
BUIIS 220	Polassiuiii	9/2//2013			01_092213_01	Analyte detected
			1.6	μg/L		between MDL and
Bons 220	Selenium	9/27/2013		P-0/ -	01_092213_01	ML
Bons 220	Sodium	9/27/2013	2900	μg/L	01_092213_01	
Bons 220	Sulfate	9/27/2013	37800	μg/L	01_092213_01	
Bons 220	Temperature, Field	9/27/2013	1.4	°C	01_092213_01	
Bons 220	Total Dissolved Solids	9/27/2013	204000	μg/L	01_092213_01	
Bons 220	Total Suspended Solids	9/27/2013	< 5000	μg/L	01_092213_01	Undetected
Bons 220	Zinc	9/27/2013	27	μg/L	01_092213_01	
Bons 220	Alkalinity (As CaCO3)	10/7/2013	116000	μg/L	01_101313_01	
Bons 220	Aluminum	10/7/2013	14	μg/L	01_101313_01	
Bons 220	Bicarbonate (As CaC03)	10/7/2013	115000	μg/L	01_101313_01	
Bons 220	Cadmium	10/7/2013	< 0.2	μg/L	01_101313_01	Undetected
Bons 220	Calcium	10/7/2013	39800	μg/L	01_101313_01	
Bons 220	Carbonate (AS CaCO3)	10/7/2013	< 2000	μg/L	01_101313_01	Undetected
Bons 220	Chloride	10/7/2013	4980	μg/L	01_101313_01	
Bons 220	Conductivity, Field	10/7/2013	195.9	uS/cm	01_101313_01	
Bons 220	Iron	10/7/2013	< 20	μg/L	01_101313_01	Undetected
						Analyte detected
B 220		40/7/2040	0.2	μg/L	04 404040 04	between MDL and
Bons 220	Lead	10/7/2013	10400	/1	01_101313_01	ML
Bons 220	Magnesium	10/7/2013	19400		01_101313_01	
Bons 220	pH, Field	10/7/2013	7.56	pH Units	01 101313 01	
50113 220	prij riela	10,7,2013		<b>C</b> TITES	01_101313_01	Analyte detected
			400	μg/L		between MDL and
Bons 220	Potassium	10/7/2013			01_101313_01	ML
Bons 220	Selenium	10/7/2013	< 1	μg/L	01_101313_01	Undetected
Bons 220	Sodium	10/7/2013	2900	μg/L	01_101313_01	
Bons 220	Sulfate	10/7/2013	57800	μg/L	01_101313_01	
Bons 220	Temperature, Field	10/7/2013	1.8		01_101313_01	
Bons 220	Total Dissolved Solids	10/7/2013	206000		01_101313_01	
Bons 220	Total Suspended Solids	10/7/2013	< 5000	μg/L	01_101313_01	Undetected
Bons 220	Zinc	10/7/2013	26	μg/L	01_101313_01	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Bons 220	Alkalinity (As CaC03)	10/11/2013	131000	μg/L	01_102713_01	
Bons 220	Aluminum	10/11/2013	10	μg/L	01_102713_01	
Bons 220	Bicarbonate (As CaCO3)	10/11/2013	130000	μg/L	01_102713_01	
Bons 220	Cadmium	10/11/2013	< 0.1	μg/L	01_102713_01	Undetected
Bons 220	Calcium	10/11/2013	41000	μg/L	01_102713_01	
Bons 220	Carbonate (AS CaCO3)	10/11/2013	< 2000	μg/L	01_102713_01	Undetected
Bons 220	Chloride	10/11/2013	5030	μg/L	01_102713_01	
Bons 220	Conductivity, Field	10/11/2013	198.2	uS/cm	01_102713_01	
Bons 220	Iron	10/11/2013	< 20	μg/L	01_102713_01	Undetected
Bons 220	Lead	10/11/2013	0.3	μg/L	01_102713_01	Analyte detected between MDL and ML
Bons 220	Magnesium	10/11/2013	20200	μg/L	01_102713_01	
Bons 220	pH, Field	10/11/2013	8.03	pH Units	01_102713_01	
Bons 220	Potassium	10/11/2013	400	μg/L	01_102713_01	Analyte detected between MDL and ML
Bons 220	Selenium	10/11/2013	1.5	μg/L	01_102713_01	Analyte detected between MDL and ML
Bons 220	Sodium	10/11/2013	3100	ug/L	01_102713_01	
Bons 220	Sulfate	10/11/2013	58200		01_102713_01	
Bons 220	Temperature, Field	10/11/2013	1.4		01_102713_01	
Bons 220	Total Dissolved Solids	10/11/2013	192000	μg/L	01_102713_01	
Bons 220	Total Suspended Solids	10/11/2013	< 5000		01_102713_01	Undetected
Bons 220	Zinc	10/11/2013		μg/L	01_102713_01	
Bons Reservoir	Alkalinity (As CaCO3)	5/30/2013	27000		01 051213 02	
Bons Reservoir	Aluminum	5/30/2013	283	μg/L	01_051213_02	
Bons Reservoir	Bicarbonate (As CaCO3)	5/30/2013	27000		01_051213_02	
Bons Reservoir	Cadmium	5/30/2013	1.0	μg/L	01_051213_02	
Bons Reservoir	Calcium	5/30/2013	6600	μg/L	01_051213_02	
Bons Reservoir	Carbonate (AS CaCO3)	5/30/2013	< 2000	μg/L	01_051213_02	Undetected
Bons Reservoir	Chloride	5/30/2013	2530	μg/L	01_051213_02	
Bons Reservoir	Conductivity, Field	5/30/2013	34.2	uS/cm	01_051213_02	
Bons Reservoir	Iron	5/30/2013	490	μg/L	01_051213_02	
Bons Reservoir	Lead	5/30/2013	38.0	μg/L	01_051213_02	
Bons Reservoir	Magnesium	5/30/2013	2900	μg/L	01_051213_02	
Bons Reservoir	pH, Field	5/30/2013	6.77	pH Units	01_051213_02	
Bons Reservoir	Potassium	5/30/2013	1000	μg/L	01_051213_02	Analyte detected between MDL and ML

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Bons Reservoir	Selenium	5/30/2013	< 1	μg/L	01_051213_02	Undetected
Bons Reservoir	Sodium	5/30/2013	700	μg/L	01_051213_02	Analyte detected between MDL and ML
Bons Reservoir	Sulfate	5/30/2013	7900	μg/L	01_051213_02	
Bons Reservoir	Temperature, Field	5/30/2013	1.4	°C	01_051213_02	
Bons Reservoir	Total Dissolved Solids	5/30/2013	40000	μg/L	01_051213_02	
Bons Reservoir	Total Suspended Solids	5/30/2013	10000		01_051213_02	Analyte detected between MDL and ML
Bons Reservoir	Zinc	5/30/2013	102	μg/L	01_051213_02	
Bons Reservoir	Alkalinity (As CaCO3)	5/31/2013	13000		01_052613_02	Analyte detected between MDL and ML
Bons Reservoir	Aluminum	5/31/2013	168	μg/L	01_052613_02	
Bons Reservoir	Bicarbonate (As CaCO3)	5/31/2013	13000	μg/L	01_052613_02	Analyte detected between MDL and ML
Bons Reservoir	Cadmium	5/31/2013		μg/L	01_052613_02	
Bons Reservoir	Calcium	5/31/2013	5200		01_052613_02	
Bons Reservoir	Carbonate (AS CaCO3)	5/31/2013	< 2000	μg/L	01_052613_02	Undetected
Bons Reservoir	Chloride	5/31/2013	1840	μg/L	01_052613_02	Analyte detected between MDL and ML
Bons Reservoir	Conductivity, Field	5/31/2013	27.7	uS/cm	01_052613_02	
Bons Reservoir	Iron	5/31/2013	240	μg/L	01_052613_02	
Bons Reservoir	Lead	5/31/2013	22.4	μg/L	01_052613_02	
Bons Reservoir	Magnesium	5/31/2013	2200	μg/L	01_052613_02	
Bons Reservoir	pH, Field	5/31/2013	7.36	pH Units	01_052613_02	
Bons Reservoir	Potassium	5/31/2013	800	μg/L	01_052613_02	Analyte detected between MDL and ML
Bons Reservoir	Selenium	5/31/2013	< 1	μg/L	01_052613_02	Undetected
Bons Reservoir	Sodium	5/31/2013	600	μg/L	01_052613_02	Analyte detected between MDL and ML
Bons Reservoir	Sulfate	5/31/2013	6330	μg/L	01_052613_02	
Bons Reservoir	Temperature, Field	5/31/2013	0.3	°C	01_052613_02	
Bons Reservoir	Total Dissolved Solids	5/31/2013	30000	μg/L	01_052613_02	
Bons Reservoir	Total Suspended Solids	5/31/2013	< 5000	μg/L	01_052613_02	Undetected
Bons Reservoir	Zinc	5/31/2013		μg/L	01_052613_02	
Bons Reservoir	Alkalinity (As CaC03)	6/7/2013	20000	μg/L	01_060913_02	
Bons Reservoir	Aluminum	6/7/2013	182	μg/L	01_060913_02	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Bons Reservoir	Bicarbonate (As CaCO3)	6/7/2013	20000	μg/L	01_060913_02	
Bons Reservoir	Cadmium	6/7/2013	0.3	μg/L	01_060913_02	Analyte detected between MDL and ML
Bons Reservoir	Calcium	6/7/2013	6400	μg/L	01_060913_02	
Bons Reservoir	Carbonate (AS CaCO3)	6/7/2013	< 2000	μg/L	01_060913_02	Undetected
			1190	μg/L		Analyte detected between MDL and
Bons Reservoir	Chloride	6/7/2013		- 1	01_060913_02	ML
Bons Reservoir	Conductivity, Field	6/7/2013		uS/cm	01_060913_02	
Bons Reservoir	Iron	6/7/2013		μg/L	01_060913_02	
Bons Reservoir	Lead	6/7/2013	8.8	μg/L	01_060913_02	
Bons Reservoir	Magnesium	6/7/2013	3000	μg/L	01_060913_02	
Bons Reservoir	pH, Field	6/7/2013	7.08	pH Units	01_060913_02	
Bons Reservoir	Potassium	6/7/2013	800	μg/L	01_060913_02	Analyte detected between MDL and ML
Bons Reservoir	Selenium	6/7/2013	< 1	μg/L	01_060913_02	Undetected
Bons Reservoir	Sodium	6/7/2013	600	μg/L	01 060913 02	Analyte detected between MDL and ML
Bons Reservoir	Sulfate	6/7/2013	7470	μg/L	01 060913 02	
Bons Reservoir	Temperature, Field	6/7/2013		°C	01 060913 02	
Bons Reservoir	Total Dissolved Solids	6/7/2013	30000	μg/L	01_060913_02	
Bons Reservoir	Total Suspended Solids	6/7/2013	< 5000		01_060913_02	Undetected
Bons Reservoir	Zinc	6/7/2013		μg/L	01 060913 02	
Bons Reservoir	Alkalinity (As CaCO3)	6/20/2013	34000		01_062313_02	
Bons Reservoir	Aluminum	6/20/2013	1140		01_062313_02	
Bons Reservoir	Bicarbonate (As CaCO3)	6/20/2013	34000		01 062313 02	
Bons Reservoir	Cadmium	6/20/2013		μg/L	01_062313_02	Analyte detected between MDL and ML
Bons Reservoir	Calcium	6/20/2013	11500	μg/L	01_062313_02	
Bons Reservoir	Carbonate (AS CaCO3)	6/20/2013	< 2000	μg/L	01_062313_02	Undetected
Bons Reservoir	Chloride	6/20/2013	6820	μg/L	01_062313_02	
Bons Reservoir	Conductivity, Field	6/20/2013		uS/cm	01_062313_02	
Bons Reservoir	Iron	6/20/2013	1980	μg/L	01_062313_02	
Bons Reservoir	Lead	6/20/2013		μg/L	01_062313_02	
Bons Reservoir	Magnesium	6/20/2013	5600		01_062313_02	
Bons Reservoir	pH, Field	6/20/2013	7.55	pH Units	01_062313_02	

Location	Analysta	Sample	Dogult	Unit	Sample	Ovelifier Comment
Location	Analyte	Date	Result	Unit	Number	Qualifier Comment
			4000	. /1		Analyte detected
Bons Reservoir	Potassium	6/20/2013	1000	μg/L	01 062313 02	between MDL and ML
Bons Reservoir	Selenium	6/20/2013	< 1	μg/L	01_062313_02	Undetected
BOIIS RESERVOII	Selemum	0/20/2013		μg/ L	01_002313_02	Analyte detected
			1200	ug/L		between MDL and
Bons Reservoir	Sodium	6/20/2013		1-0/	01_062313_02	ML
Bons Reservoir	Sulfate	6/20/2013	20100	μg/L	01_062313_02	
Bons Reservoir	Temperature, Field	6/20/2013	5.4	°C	01_062313_02	
Bons Reservoir	Total Dissolved Solids	6/20/2013	100000	μg/L	01_062313_02	
						Analyte detected
			13000	μg/L		between MDL and
Bons Reservoir	Total Suspended Solids	6/20/2013			01_062313_02	ML
Bons Reservoir	Zinc	6/20/2013		μg/L	01_062313_02	
Bons Reservoir	Alkalinity (As CaCO3)	7/5/2013	53000		01_071413_02	
Bons Reservoir	Aluminum	7/5/2013		μg/L	01_071413_02	
Bons Reservoir	Bicarbonate (As CaC03)	7/5/2013	53000		01_071413_02	
Bons Reservoir	Cadmium	7/5/2013	< 0.1		01_071413_02	Undetected
Bons Reservoir	Calcium	7/5/2013	19200		01_071413_02	
Bons Reservoir	Carbonate (AS CaCO3)	7/5/2013	< 2000		01_071413_02	Undetected
Bons Reservoir	Chloride	7/5/2013	4680		01_071413_02	
Bons Reservoir	Conductivity, Field	7/5/2013		uS/cm	01_071413_02	
Bons Reservoir	Iron	7/5/2013	760	μg/L	01_071413_02	
Bons Reservoir	Lead	7/5/2013		μg/L	01_071413_02	
Bons Reservoir	Magnesium	7/5/2013	8900	μg/L	01_071413_02	
	=	- /- /	7.37	рН		
Bons Reservoir	pH, Field	7/5/2013		Units	01_071413_02	A
			600	μg/L		Analyte detected between MDL and
Bons Reservoir	Potassium	7/5/2013	000	μg/ L	01_071413_02	ML
Bons Reservoir	Selenium	7/5/2013	< 1	μg/L	01_071413_02	Undetected
201101100011011	- Coloniani	.,0,2020		F-0/	01_071110_01	Analyte detected
			1900	μg/L		between MDL and
Bons Reservoir	Sodium	7/5/2013			01_071413_02	ML
Bons Reservoir	Sulfate	7/5/2013	34400	μg/L	01_071413_02	
Bons Reservoir	Temperature, Field	7/5/2013	8.4	°C	01_071413_02	
Bons Reservoir	Total Dissolved Solids	7/5/2013	110000	μg/L	01_071413_02	
						Analyte detected
		_ /_ /	5000	μg/L		between MDL and
Bons Reservoir	Total Suspended Solids	7/5/2013			01_071413_02	ML
Bons Reservoir	Zinc	7/5/2013		μg/L	01_071413_02	
Bons Reservoir	Alkalinity (As CaC03)	7/29/2013	77000		01_072813_02	
Bons Reservoir	Aluminum	7/29/2013	68	μg/L	01_072813_02	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Bons Reservoir	Bicarbonate (As CaCO3)	7/29/2013	77000	μg/L	01_072813_02	
Bons Reservoir	Cadmium	7/29/2013	< 0.1	μg/L	01_072813_02	Undetected
Bons Reservoir	Calcium	7/29/2013	29000	μg/L	01_072813_02	
Bons Reservoir	Carbonate (AS CaCO3)	7/29/2013	< 2000	μg/L	01_072813_02	Undetected
Bons Reservoir	Chloride	7/29/2013	4300	μg/L	01_072813_02	
Bons Reservoir	Conductivity, Field	7/29/2013	188.9	uS/cm	01_072813_02	
Bons Reservoir	Iron	7/29/2013	150	μg/L	01_072813_02	
Bons Reservoir	Lead	7/29/2013	0.5	μg/L	01_072813_02	
Bons Reservoir	Magnesium	7/29/2013	13800	μg/L	01_072813_02	
Bons Reservoir	pH, Field	7/29/2013	7.87	pH Units	01_072813_02	
			300	μg/L		Analyte detected between MDL and
Bons Reservoir	Potassium	7/29/2013			01_072813_02	ML
Bons Reservoir	Selenium	7/29/2013		μg/L	01_072813_02	Undetected
Bons Reservoir	Sodium	7/29/2013	2600		01_072813_02	
Bons Reservoir	Sulfate	7/29/2013	62200		01_072813_02	
Bons Reservoir	Temperature, Field	7/29/2013	9.6		01_072813_02	
Bons Reservoir	Total Dissolved Solids	7/29/2013	162000		01_072813_02	
Bons Reservoir	Total Suspended Solids	7/29/2013	< 5000		01_072813_02	Undetected
Bons Reservoir	Zinc	7/29/2013		μg/L	01_072813_02	
Bons Reservoir	Alkalinity (As CaCO3)	8/9/2013	74000		01_081113_02	
Bons Reservoir	Aluminum	8/9/2013		μg/L	01_081113_02	
Bons Reservoir	Bicarbonate (As CaC03)	8/9/2013	74000		01_081113_02	
Bons Reservoir	Cadmium	8/9/2013	< 0.1		01_081113_02	Undetected
Bons Reservoir	Calcium	8/9/2013	27100		01_081113_02	
Bons Reservoir	Carbonate (AS CaCO3)	8/9/2013	< 2000		01_081113_02	Undetected
Bons Reservoir	Chloride	8/9/2013	4840		01_081113_02	
Bons Reservoir	Conductivity, Field	8/9/2013	163.3	uS/cm	01_081113_02	
Bons Reservoir	Iron	8/9/2013	380	μg/L	01_081113_02	
Bons Reservoir	Lead	8/9/2013		μg/L	01_081113_02	
Bons Reservoir	Magnesium	8/9/2013	13000	μg/L	01_081113_02	
Bons Reservoir	pH, Field	8/9/2013	7.54	pH Units	01_081113_02	
Bons Reservoir	Potassium	8/9/2013	400	μg/L	01_081113_02	Analyte detected between MDL and ML
			1.1	μg/L		Analyte detected between MDL and
Bons Reservoir	Selenium	8/9/2013		,	01_081113_02	ML
Bons Reservoir	Sodium	8/9/2013	2200		01_081113_02	
Bons Reservoir	Sulfate	8/9/2013	46500		01_081113_02	
Bons Reservoir	Temperature, Field	8/9/2013	7.2	°C	01_081113_02	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Bons Reservoir	Total Dissolved Solids	8/9/2013	142000	μg/L	01_081113_02	
Bons Reservoir	Total Suspended Solids	8/9/2013	< 5000	μg/L	01_081113_02	Undetected
Bons Reservoir	Zinc	8/9/2013	39	μg/L	01_081113_02	
Bons Reservoir	Alkalinity (As CaCO3)	8/23/2013	82000	μg/L	01_082513_02	
Bons Reservoir	Aluminum	8/23/2013	95	μg/L	01_082513_02	
Bons Reservoir	Bicarbonate (As CaC03)	8/23/2013	82000	μg/L	01_082513_02	
Bons Reservoir	Cadmium	8/23/2013	< 0.1	μg/L	01_082513_02	Undetected
Bons Reservoir	Calcium	8/23/2013	29600	μg/L	01_082513_02	
Bons Reservoir	Carbonate (AS CaCO3)	8/23/2013	< 2000	μg/L	01_082513_02	Undetected
Bons Reservoir	Chloride	8/23/2013	3440	μg/L	01_082513_02	
Bons Reservoir	Conductivity, Field	8/23/2013	180.8	uS/cm	01_082513_02	
Bons Reservoir	Iron	8/23/2013	170	μg/L	01_082513_02	
Bons Reservoir	Lead	8/23/2013	0.6	μg/L	01_082513_02	
Bons Reservoir	Magnesium	8/23/2013	14200	μg/L	01_082513_02	
Bons Reservoir	pH, Field	8/23/2013	7.75	pH Units	01_082513_02	
		- / /	300	μg/L		Analyte detected between MDL and
Bons Reservoir	Potassium	8/23/2013	. 4	/1	01_082513_02	ML
Bons Reservoir	Selenium	8/23/2013		μg/L	01_082513_02	Undetected
Bons Reservoir	Sodium	8/23/2013	2400		01_082513_02	
Bons Reservoir	Sulfate	8/23/2013	46700		01_082513_02	
Bons Reservoir	Temperature, Field	8/23/2013	7.75		01_082513_02	
Bons Reservoir	Total Dissolved Solids	8/23/2013	166000		01_082513_02	
Bons Reservoir	Total Suspended Solids	8/23/2013	< 5000		01_082513_02	Undetected
Bons Reservoir	Zinc	8/23/2013		μg/L	01_082513_02	
Bons Reservoir	Alkalinity (As CaCO3)	9/12/2013	96000		01_090813_02	
Bons Reservoir	Aluminum	9/12/2013		μg/L	01_090813_02	
Bons Reservoir	Bicarbonate (As CaC03)	9/12/2013	96000	μg/L	01_090813_02	
Bons Reservoir	Cadmium	9/12/2013	< 0.1	μg/L	01_090813_02	Undetected
Bons Reservoir	Calcium	9/12/2013	35000	μg/L	01_090813_02	
Bons Reservoir	Carbonate (AS CaCO3)	9/12/2013	< 2000	μg/L	01_090813_02	Undetected
Bons Reservoir	Chloride	9/12/2013	4730	μg/L	01_090813_02	
Bons Reservoir	Conductivity, Field	9/12/2013	203.6	uS/cm	01_090813_02	
Bons Reservoir	Iron	9/12/2013	70	μg/L	01_090813_02	
B B	Lord	0/42/2042	0.4	μg/L	04 000043 03	Analyte detected between MDL and
Bons Reservoir	Lead	9/12/2013	4.0000	/1	01_090813_02	ML
Bons Reservoir  Bons Reservoir	Magnesium pH, Field	9/12/2013	16900 7.97	μg/L pH Units	01_090813_02 01_090813_02	

Location	Analyte	Sample	Result	Unit	Sample	Qualifier Comment
	,	Date			Number	
			400	μg/L		Analyte detected between MDL and
Bons Reservoir	Potassium	9/12/2013	400	M8/ F	01 090813 02	ML
						Analyte detected
			1.1	μg/L		between MDL and
Bons Reservoir	Selenium	9/12/2013			01_090813_02	ML
Bons Reservoir	Sodium	9/12/2013	3100		01_090813_02	
Bons Reservoir	Sulfate	9/12/2013	59800		01_090813_02	
Bons Reservoir	Temperature, Field	9/12/2013	5.8		01_090813_02	
Bons Reservoir	Total Dissolved Solids	9/12/2013	192000	μg/L	01_090813_02	
Bons Reservoir	Total Suspended Solids	9/12/2013	< 5000	μg/L	01_090813_02	Undetected
Bons Reservoir	Zinc	9/12/2013		μg/L	01_090813_02	
Bons Reservoir	Alkalinity (As CaCO3)	9/27/2013	84000	μg/L	01_092213_02	
Bons Reservoir	Aluminum	9/27/2013	28	μg/L	01_092213_02	
Bons Reservoir	Bicarbonate (As CaC03)	9/27/2013	84000	μg/L	01_092213_02	
Bons Reservoir	Cadmium	9/27/2013	< 0.1	μg/L	01_092213_02	Undetected
Bons Reservoir	Calcium	9/27/2013	36700	μg/L	01_092213_02	
Bons Reservoir	Carbonate (AS CaCO3)	9/27/2013	< 2000	μg/L	01_092213_02	Undetected
Bons Reservoir	Chloride	9/27/2013	2730	μg/L	01_092213_02	
Bons Reservoir	Conductivity, Field	9/27/2013	189.4	uS/cm	01_092213_02	
Bons Reservoir	Iron	9/27/2013	100	μg/L	01_092213_02	
Bons Reservoir	Lead	9/27/2013	0.5	μg/L	01_092213_02	
Bons Reservoir	Magnesium	9/27/2013	17800	μg/L	01_092213_02	
			7.84	рН		
Bons Reservoir	pH, Field	9/27/2013	7.01	Units	01_092213_02	
			F00	/1		Analyte detected
Bons Reservoir	Potassium	9/27/2013	500	μg/L	01 092213 02	between MDL and ML
Bolis Reservoir	rotassiuiii	3/2//2013			01_092213_02	Analyte detected
			1.0	μg/L		between MDL and
Bons Reservoir	Selenium	9/27/2013		1-0/	01_092213_02	ML
Bons Reservoir	Sodium	9/27/2013	3100	μg/L	01_092213_02	
Bons Reservoir	Sulfate	9/27/2013	34100	μg/L	01_092213_02	
Bons Reservoir	Temperature, Field	9/27/2013	2.2	°C	01_092213_02	
Bons Reservoir	Total Dissolved Solids	9/27/2013	204000	μg/L	01 092213 02	
		·				Analyte detected
			11000	μg/L		between MDL and
Bons Reservoir	Total Suspended Solids	9/27/2013			01_092213_02	ML
Bons Reservoir	Zinc	9/27/2013		μg/L	01_092213_02	
Bons Reservoir	Alkalinity (As CaCO3)	10/7/2013	101000		01_101313_02	
Bons Reservoir	Aluminum	10/7/2013		μg/L	01_101313_02	
Bons Reservoir	Bicarbonate (As CaC03)	10/7/2013	101000		01_101313_02	
Bons Reservoir	Cadmium	10/7/2013	< 0.1	μg/L	01_101313_02	Undetected

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Bons Reservoir	Calcium	10/7/2013	38700	μg/L	01_101313_02	
Bons Reservoir	Carbonate (AS CaCO3)	10/7/2013	< 2000	μg/L	01_101313_02	Undetected
Bons Reservoir	Chloride	10/7/2013	4700	μg/L	01_101313_02	
Bons Reservoir	Conductivity, Field	10/7/2013	198.7	uS/cm	01_101313_02	
Bons Reservoir	Iron	10/7/2013	50	μg/L	01_101313_02	
Bons Reservoir	Lead	10/7/2013	0.8	μg/L	01_101313_02	
Bons Reservoir	Magnesium	10/7/2013	18600	μg/L	01_101313_02	
Bons Reservoir	pH, Field	10/7/2013	7.46	pH Units	01_101313_02	
Bons Reservoir	Potassium	10/7/2013	400	μg/L	01_101313_02	Analyte detected between MDL and ML
Bons Reservoir	Selenium	10/7/2013	1.4	μg/L	01_101313_02	Analyte detected between MDL and ML
Bons Reservoir	Sodium	10/7/2013	3300	μg/L	01_101313_02	
Bons Reservoir	Sulfate	10/7/2013	65000	μg/L	01_101313_02	
Bons Reservoir	Temperature, Field	10/7/2013	2.2	°C	01_101313_02	
Bons Reservoir	Total Dissolved Solids	10/7/2013	192000	μg/L	01_101313_02	
Bons Reservoir	Total Suspended Solids	10/7/2013	< 5000	μg/L	01_101313_02	Undetected
Bons Reservoir	Zinc	10/7/2013	63	μg/L	01_101313_02	
Bons Reservoir	Alkalinity (As CaCO3)	10/11/2013	102000	μg/L	01_102713_02	
Bons Reservoir	Aluminum	10/11/2013	10	μg/L	01_102713_02	
Bons Reservoir	Bicarbonate (As CaC03)	10/11/2013	102000	μg/L	01_102713_02	
Bons Reservoir	Cadmium	10/11/2013	< 0.1	μg/L	01_102713_02	Undetected
Bons Reservoir	Calcium	10/11/2013	39700	μg/L	01_102713_02	
Bons Reservoir	Carbonate (AS CaCO3)	10/11/2013	< 2000	μg/L	01_102713_02	Undetected
Bons Reservoir	Chloride	10/11/2013	4760	μg/L	01_102713_02	
Bons Reservoir	Conductivity, Field	10/11/2013	196.6	uS/cm	01_102713_02	
Bons Reservoir	Iron	10/11/2013	40	μg/L	01_102713_02	Analyte detected between MDL and ML
Bons Reservoir	Lead	10/11/2013	0.2	μg/L	01_102713_02	Analyte detected between MDL and ML
Bons Reservoir	Magnesium	10/11/2013	19100	μg/L	01_102713_02	
Bons Reservoir	pH, Field	10/11/2013	7.71	pH Units	01_102713_02	
Bons Reservoir	Potassium	10/11/2013	500	μg/L	01_102713_02	Analyte detected between MDL and ML
Bons Reservoir	Selenium	10/11/2013	1.5	μg/L	01_102713_02	Analyte detected between MDL and ML

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Bons Reservoir	Sodium	10/11/2013	3400	μg/L	01_102713_02	
Bons Reservoir	Sulfate	10/11/2013	65200	μg/L	01_102713_02	
Bons Reservoir	Temperature, Field	10/11/2013	1.8	°C	01_102713_02	
Bons Reservoir	Total Dissolved Solids	10/11/2013	202000	μg/L	01_102713_02	
Bons Reservoir	Total Suspended Solids	10/11/2013	< 5000	μg/L	01_102713_02	Undetected
Bons Reservoir	Zinc	10/11/2013	60	μg/L	01_102713_02	
Buddy 221	Alkalinity (As CaCO3)	5/27/2013	9000	μg/L	01_051213_03	Analyte detected between MDL and ML
Buddy 221	Aluminum	5/27/2013	60	μg/L	01_051213_03	
Buddy 221	Bicarbonate (As CaC03)	5/27/2013	9000	μg/L	01_051213_03	Analyte detected between MDL and ML
Buddy 221	Cadmium	5/27/2013	0.4	μg/L	01_051213_03	Analyte detected between MDL and ML
Buddy 221	Calcium	5/27/2013	3900	μg/L	01_051213_03	
Buddy 221	Carbonate (AS CaCO3)	5/27/2013	< 2000	μg/L	01_051213_03	Undetected
Buddy 221	Chloride	5/27/2013	1020	μg/L	01_051213_03	Analyte detected between MDL and ML
Buddy 221	Conductivity, Field	5/27/2013	19.4	uS/cm	01_051213_03	
Buddy 221	Iron	5/27/2013	50	μg/L	01_051213_03	
Buddy 221	Lead	5/27/2013	13.8	μg/L	01_051213_03	
Buddy 221	Magnesium	5/27/2013	1500	μg/L	01_051213_03	
Buddy 221	pH, Field	5/27/2013	7.04	pH Units	01_051213_03	
Buddy 221	Potassium	5/27/2013	1200	μg/L	01_051213_03	Analyte detected between MDL and ML
Buddy 221	Selenium	5/27/2013	< 1	μg/L	01_051213_03	Undetected
Buddy 221	Sodium	5/27/2013	700	μg/L	01_051213_03	Analyte detected between MDL and ML
Buddy 221	Sulfate	5/27/2013	4160	μg/L	01_051213_03	
Buddy 221	Temperature, Field	5/27/2013	0	°C	01_051213_03	
Buddy 221	Total Dissolved Solids	5/27/2013	30000	μg/L	01_051213_03	
Buddy 221	Total Suspended Solids	5/27/2013	< 5000		01_051213_03	Undetected
Buddy 221	Zinc	5/27/2013	36	μg/L	01_051213_03	
Buddy 221	Alkalinity (As CaCO3)	5/31/2013	10000	μg/L	01_052613_03	Analyte detected between MDL and ML
Buddy 221	Aluminum	5/31/2013	48	μg/L	01_052613_03	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Buddy 221	Bicarbonate (As CaC03)	5/31/2013	10000	μg/L	01_052613_03	Analyte detected between MDL and ML
Buddy 221	Cadmium	5/31/2013	0.2	μg/L	01_052613_03	Analyte detected between MDL and ML
Buddy 221	Calcium	5/31/2013	3400	μg/L	01_052613_03	
Buddy 221	Carbonate (AS CaCO3)	5/31/2013	< 2000	μg/L	01_052613_03	Undetected
Buddy 221	Chloride	5/31/2013	< 500	μg/L	01_052613_03	Undetected
Buddy 221	Conductivity, Field	5/31/2013	16.9	uS/cm	01_052613_03	
Buddy 221	Iron	5/31/2013	70	μg/L	01_052613_03	
Buddy 221	Lead	5/31/2013	6.0	μg/L	01_052613_03	
Buddy 221	Magnesium	5/31/2013	1200	μg/L	01_052613_03	
Buddy 221	pH, Field	5/31/2013	7.43	pH Units	01_052613_03	
Buddy 221	Potassium	5/31/2013	800	μg/L	01_052613_03	Analyte detected between MDL and ML
Buddy 221	Selenium	5/31/2013	< 1	μg/L	01_052613_03	Undetected
Buddy 221	Sodium	5/31/2013		μg/L	01_052613_03	Analyte detected between MDL and ML
Buddy 221	Sulfate	5/31/2013	4160	μg/L	01 052613 03	
Buddy 221	Temperature, Field	5/31/2013		°C	01_052613_03	
Buddy 221	Total Dissolved Solids	5/31/2013	30000	μg/L	01_052613_03	
Buddy 221	Total Suspended Solids	5/31/2013	< 5000		01_052613_03	Undetected
Buddy 221	Zinc	5/31/2013	20	μg/L	01_052613_03	
Buddy 221	Alkalinity (As CaCO3)	6/7/2013	14000	μg/L	01_060913_03	Analyte detected between MDL and ML
Buddy 221	Aluminum	6/7/2013	575	μg/L	01_060913_03	
Buddy 221	Bicarbonate (As CaC03)	6/7/2013	14000	μg/L	01_060913_03	Analyte detected between MDL and ML
Buddy 221	Cadmium	6/7/2013	0.1	μg/L	01_060913_03	Analyte detected between MDL and ML
Buddy 221	Calcium	6/7/2013	5800	ug/I	01_060913_03	
Buddy 221	Carbonate (AS CaCO3)	6/7/2013	< 2000		01 060913 03	Undetected
Buddy 221	Chloride	6/7/2013		μg/L	01_060913_03	Analyte detected between MDL and ML
Buddy 221	Conductivity, Field	6/7/2013	26.6	uS/cm	01_060913_03	
Buddy 221	Iron	6/7/2013		μg/L	01_060913_03	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Buddy 221	Lead	6/7/2013	3.6	μg/L	01_060913_03	
Buddy 221	Magnesium	6/7/2013	2200	μg/L	01_060913_03	
Buddy 221	pH, Field	6/7/2013	7.43	pH Units	01_060913_03	
Buddy 221	Potassium	6/7/2013	800	μg/L	01_060913_03	Analyte detected between MDL and ML
Buddy 221	Selenium	6/7/2013	< 1	μg/L	01_060913_03	Undetected
Buddy 221	Sodium	6/7/2013	800	μg/L	01_060913_03	Analyte detected between MDL and ML
Buddy 221	Sulfate	6/7/2013	6020	μg/L	01_060913_03	
Buddy 221	Temperature, Field	6/7/2013	0	°C	01_060913_03	
Buddy 221	Total Dissolved Solids	6/7/2013	30000	μg/L	01_060913_03	
Buddy 221	Total Suspended Solids	6/7/2013	13000	μg/L	01_060913_03	Analyte detected between MDL and ML
Buddy 221	Zinc	6/7/2013	17	μg/L	01_060913_03	
Buddy 221	Alkalinity (As CaCO3)	6/20/2013	55000	μg/L	01_062313_03	
Buddy 221	Aluminum	6/20/2013	561	μg/L	01_062313_03	
Buddy 221	Bicarbonate (As CaC03)	6/20/2013	55000	μg/L	01_062313_03	
Buddy 221	Cadmium	6/20/2013	< 0.1	μg/L	01_062313_03	Undetected
Buddy 221	Calcium	6/20/2013	17500	μg/L	01_062313_03	
Buddy 221	Carbonate (AS CaCO3)	6/20/2013	< 2000	μg/L	01_062313_03	Undetected
Buddy 221	Chloride	6/20/2013	2870	μg/L	01_062313_03	
Buddy 221	Conductivity, Field	6/20/2013	94.9	uS/cm	01_062313_03	
Buddy 221	Iron	6/20/2013	850	μg/L	01_062313_03	
Buddy 221	Lead	6/20/2013	2.1	μg/L	01_062313_03	
Buddy 221	Magnesium	6/20/2013	6200	μg/L	01_062313_03	
			7.42	рН		
Buddy 221	pH, Field	6/20/2013	7.72	Units	01_062313_03	
Buddy 221	Potassium	6/20/2013	900	μg/L	01_062313_03	Analyte detected between MDL and ML
Buddy 221	Selenium	6/20/2013	< 1	μg/L	01_062313_03	Undetected
Buddy 221	Sodium	6/20/2013		μg/L	01_062313_03	
Buddy 221	Sulfate	6/20/2013	21900		01_062313_03	
Buddy 221	Temperature, Field	6/20/2013	5.9		01_062313_03	
Buddy 221	Total Dissolved Solids	6/20/2013	90000		01_062313_03	
Buddy 221	Total Suspended Solids	6/20/2013	9000		01_062313_03	Analyte detected between MDL and ML
Buddy 221	Zinc	6/20/2013	7	μg/L	01_062313_03	IVIL
Duduy ZZI	ZIIIC	0/20/2013	/	μg/ L	01_002313_03	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Buddy 221	Alkalinity (As CaCO3)	7/5/2013	62000	μg/L	01_071413_03	
Buddy 221	Aluminum	7/5/2013	1460	μg/L	01_071413_03	
Buddy 221	Bicarbonate (As CaC03)	7/5/2013	62000	μg/L	01_071413_03	
Buddy 221	Cadmium	7/5/2013	< 0.1	μg/L	01_071413_03	Undetected
Buddy 221	Calcium	7/5/2013	21600	μg/L	01_071413_03	
Buddy 221	Carbonate (AS CaCO3)	7/5/2013	< 2000	μg/L	01_071413_03	Undetected
			570	μg/L		Analyte detected between MDL and
Buddy 221	Chloride	7/5/2013			01_071413_03	ML
Buddy 221	Conductivity, Field	7/5/2013		uS/cm	01_071413_03	
Buddy 221	Iron	7/5/2013	1810		01_071413_03	
Buddy 221	Lead	7/5/2013		μg/L	01_071413_03	
Buddy 221	Magnesium	7/5/2013	6900		01_071413_03	
Buddy 221	pH, Field	7/5/2013	7.6	pH Units	01_071413_03	
Buddy 221	Potassium	7/5/2013	800	μg/L	01_071413_03	Analyte detected between MDL and ML
Buddy 221	Selenium	7/5/2013	1.2	μg/L	01_071413_03	Analyte detected between MDL and ML
Buddy 221	Sodium	7/5/2013	3000	μg/L	01_071413_03	
Buddy 221	Sulfate	7/5/2013	23500	μg/L	01_071413_03	
Buddy 221	Temperature, Field	7/5/2013	3.3	°C	01_071413_03	
Buddy 221	Total Dissolved Solids	7/5/2013	110000	μg/L	01_071413_03	
Buddy 221	Total Suspended Solids	7/5/2013	26000	μg/L	01_071413_03	
Buddy 221	Zinc	7/5/2013	8	μg/L	01_071413_03	
Buddy 221	Alkalinity (As CaCO3)	7/29/2013	104000	μg/L	01_072813_03	
Buddy 221	Aluminum	7/29/2013	102	μg/L	01_072813_03	
Buddy 221	Bicarbonate (As CaC03)	7/29/2013	104000	μg/L	01_072813_03	
Buddy 221	Cadmium	7/29/2013	< 0.1	μg/L	01_072813_03	Undetected
Buddy 221	Calcium	7/29/2013	37300	μg/L	01_072813_03	
Buddy 221	Carbonate (AS CaCO3)	7/29/2013	< 2000	μg/L	01_072813_03	Undetected
Buddy 221	Chloride	7/29/2013	1490	μg/L	01_072813_03	Analyte detected between MDL and ML
Buddy 221	Conductivity, Field		101 2	uS/cm		IVIL
•	•	7/29/2013			01_072813_03	
Buddy 221	Iron	7/29/2013		μg/L μg/L	01_072813_03	Analyte detected between MDL and
Buddy 221	Lead	7/29/2013		1.	01_072813_03	ML
Buddy 221	Magnesium	7/29/2013	12800	μg/L	01_072813_03	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Buddy 221	pH, Field	7/29/2013	8.07	pH Units	01_072813_03	
Buddy 221	Potassium	7/29/2013	400	μg/L	01_072813_03	Analyte detected between MDL and ML
Buddy 221	Selenium	7/29/2013	1.9	μg/L	01_072813_03	Analyte detected between MDL and ML
Buddy 221	Sodium	7/29/2013	5000	μg/L	01_072813_03	
Buddy 221	Sulfate	7/29/2013	52700	μg/L	01_072813_03	
Buddy 221	Temperature, Field	7/29/2013	5.5	°C	01_072813_03	
Buddy 221	Total Dissolved Solids	7/29/2013	176000	μg/L	01_072813_03	
Buddy 221	Total Suspended Solids	7/29/2013	< 5000	μg/L	01_072813_03	Undetected
Buddy 221	Zinc	7/29/2013	3	μg/L	01_072813_03	Analyte detected between MDL and ML
Buddy 221	Alkalinity (As CaCO3)	8/9/2013	78000	μg/L	01_081113_03	
Buddy 221	Aluminum	8/9/2013	1730	μg/L	01_081113_03	
Buddy 221	Bicarbonate (As CaC03)	8/9/2013	78000	μg/L	01_081113_03	
Buddy 221	Cadmium	8/9/2013	0.1	μg/L	01_081113_03	Analyte detected between MDL and ML
Buddy 221	Calcium	8/9/2013	27700	μg/L	01_081113_03	
Buddy 221	Carbonate (AS CaCO3)	8/9/2013	< 2000	μg/L	01_081113_03	Undetected
Buddy 221	Chloride	8/9/2013	1140	μg/L	01 081113 03	Analyte detected between MDL and ML
Buddy 221	Conductivity, Field	8/9/2013	142.1	uS/cm	01 081113 03	
Buddy 221	Iron	8/9/2013	2620		01_081113_03	
Buddy 221	Lead	8/9/2013		μg/L	01_081113_03	
Buddy 221	Magnesium	8/9/2013	9800		01_081113_03	
Buddy 221	pH, Field	8/9/2013	7.86	pH Units	01_081113_03	
Buddy 221	Potassium	8/9/2013	800	μg/L	01_081113_03	Analyte detected between MDL and ML
Buddy 221	Selenium	8/9/2013	1.3	μg/L	01_081113_03	Analyte detected between MDL and ML
Buddy 221	Sodium	8/9/2013	3400	110/1	01_081113_03	IVIL
Buddy 221	Sulfate	8/9/2013	34500		01_081113_03	
			5.9			
Buddy 221	Temperature, Field	8/9/2013			01_081113_03	
Buddy 221	Total Dissolved Solids	8/9/2013	138000		01_081113_03	
Buddy 221	Total Suspended Solids	8/9/2013	58000	μg/L	01_081113_03	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Buddy 221	Zinc	8/9/2013	17	μg/L	01_081113_03	
Buddy 221	Alkalinity (As CaCO3)	8/23/2013	106000	μg/L	01_082513_03	
Buddy 221	Aluminum	8/23/2013	46	μg/L	01_082513_03	
Buddy 221	Bicarbonate (As CaC03)	8/23/2013	106000	μg/L	01_082513_03	
Buddy 221	Cadmium	8/23/2013	< 0.1	μg/L	01_082513_03	Undetected
Buddy 221	Calcium	8/23/2013	38100	μg/L	01_082513_03	
Buddy 221	Carbonate (AS CaCO3)	8/23/2013	< 2000	μg/L	01_082513_03	Undetected
Buddy 221	Chloride	8/23/2013	1140	μg/L	01_082513_03	Analyte detected between MDL and ML
Buddy 221	Conductivity, Field	8/23/2013	169.3	uS/cm	01_082513_03	IVIL
Buddy 221	Iron	8/23/2013		μg/L	01_082513_03	
Buddy 221	11011	0/23/2013	100	μg/ L	01_062515_05	Analyte detected
Buddy 221	Lead	8/23/2013	0.2	μg/L	01_082513_03	between MDL and ML
Buddy 221	Magnesium	8/23/2013	13800	μg/L	01_082513_03	
Buddy 221	pH, Field	8/23/2013	7.86	pH Units	01_082513_03	
Buddy 221	Potassium	8/23/2013	400	μg/L	01_082513_03	Analyte detected between MDL and ML
Buddy 221	Selenium	8/23/2013	< 1	μg/L	01 082513 03	Undetected
Buddy 221	Sodium	8/23/2013	4600		01_082513_03	
Buddy 221	Sulfate	8/23/2013	45200		01_082513_03	
Buddy 221	Temperature, Field	8/23/2013	2.8		01_082513_03	
Buddy 221	Total Dissolved Solids	8/23/2013	182000	μg/L	01_082513_03	
Buddy 221	Total Suspended Solids	8/23/2013	< 5000		01 082513 03	Undetected
Buddy 221	Zinc	8/23/2013		μg/L	01_082513_03	Analyte detected between MDL and ML
Buddy 221	Alkalinity (As CaCO3)	9/12/2013	113000	μσ/I	01 090813 03	IVIL
Buddy 221	Aluminum	9/12/2013		μg/L	01_090813_03	
Buddy 221	Bicarbonate (As CaC03)	9/12/2013	112000		01_090813_03	
Buddy 221	Cadmium	9/12/2013	< 0.1		01_090813_03	Undetected
Buddy 221	Calcium	9/12/2013	41700		01 090813 03	Ondetected
Buddy 221	Carbonate (AS CaCO3)	9/12/2013	< 2000		01 090813 03	Undetected
Buddy 221	Chloride	9/12/2013	2880		01_090813_03	Ondetected
Buddy 221	Conductivity, Field	9/12/2013		uS/cm	01_090813_03	
Buddy 221	Iron	9/12/2013		μg/L	01_090813_03	Undetected
Buddy 221	Lead	9/12/2013		μg/L	01_090813_03	Undetected
Buddy 221	Magnesium	9/12/2013	14500		01 090813 03	
Buddy 221	pH, Field	9/12/2013	8.12	pH Units	01_090813_03	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Buddy 221	Potassium	9/12/2013	500	μg/L	01_090813_03	Analyte detected between MDL and ML
Buddy 221	Selenium	9/12/2013	2.3	μg/L	01_090813_03	Analyte detected between MDL and ML
Buddy 221	Sodium	9/12/2013	5200	μg/L	01_090813_03	
Buddy 221	Sulfate	9/12/2013	57600	μg/L	01_090813_03	
Buddy 221	Temperature, Field	9/12/2013	2.6	°C	01_090813_03	
Buddy 221	Total Dissolved Solids	9/12/2013	194000	μg/L	01_090813_03	
Buddy 221	Total Suspended Solids	9/12/2013	< 5000	μg/L	01 090813 03	Undetected
Buddy 221	Zinc	9/12/2013	5	μg/L	01_090813_03	
Buddy 221	Alkalinity (As CaCO3)	9/27/2013	89000	μg/L	01 092213 03	
Buddy 221	Aluminum	9/27/2013		μg/L	01 092213 03	
Buddy 221	Bicarbonate (As CaCO3)	9/27/2013	89000	μg/L	01_092213_03	
Buddy 221	Cadmium	9/27/2013	< 0.1		01_092213_03	Undetected
Buddy 221	Calcium	9/27/2013	39200		01_092213_03	
Buddy 221	Carbonate (AS CaCO3)	9/27/2013	< 2000	μg/L	01_092213_03	Undetected
Buddy 221	Chloride	9/27/2013	1150	μg/L	01_092213_03	Analyte detected between MDL and ML
Buddy 221	Conductivity, Field	9/27/2013	176.1	uS/cm	01_092213_03	
Buddy 221	Iron	9/27/2013	40	μg/L	01_092213_03	Analyte detected between MDL and ML
Buddy 221	Lead	9/27/2013		μg/L	01_092213_03	Analyte detected between MDL and ML
Buddy 221	Magnesium	9/27/2013	14500		01_092213_03	
Buddy 221	pH, Field	9/27/2013	7.89	pH Units	01_092213_03	
Buddy 221	Potassium	9/27/2013	500	μg/L	01_092213_03	Analyte detected between MDL and ML
Buddy 221	Selenium	9/27/2013	< 1	μg/L	01_092213_03	Undetected
Buddy 221	Sodium	9/27/2013	6200	μg/L	01_092213_03	
Buddy 221	Sulfate	9/27/2013	30400	μg/L	01_092213_03	
Buddy 221	Temperature, Field	9/27/2013	0	°C	01_092213_03	
Buddy 221	Total Dissolved Solids	9/27/2013	202000	μg/L	01_092213_03	
Buddy 221	Total Suspended Solids	9/27/2013	< 5000		01_092213_03	Undetected
Buddy 221	Zinc	9/27/2013		μg/L	01_092213_03	
Buddy 221	Alkalinity (As CaCO3)	10/7/2013	117000		01_101313_03	
Buddy 221	Aluminum	10/7/2013	20	μg/L	01_101313_03	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Buddy 221	Bicarbonate (As CaCO3)	10/7/2013	117000	μg/L	01_101313_03	
Buddy 221	Cadmium	10/7/2013	< 0.1	μg/L	01_101313_03	Undetected
Buddy 221	Calcium	10/7/2013	40400	μg/L	01_101313_03	
Buddy 221	Carbonate (AS CaCO3)	10/7/2013	< 2000	μg/L	01_101313_03	Undetected
D., ddv 224	Chlarida	10/7/2012	1380	μg/L	01 101212 02	Analyte detected between MDL and
Buddy 221	Chloride Conductivity Field	10/7/2013	155.2	us/sm	01_101313_03	ML
Buddy 221	Conductivity, Field	10/7/2013		uS/cm	01_101313_03	11
Buddy 221	Iron	10/7/2013		μg/L	01_101313_03	Undetected
Buddy 221	Lead	10/7/2013		μg/L	01_101313_03	Undetected
Buddy 221	Magnesium	10/7/2013	14400		01_101313_03	
Buddy 221	pH, Field	10/7/2013	7.28	pH Units	01_101313_03	
Buddy 221	Potassium	10/7/2013	500	μg/L	01_101313_03	Analyte detected between MDL and ML
Buddy 221	Selenium	10/7/2013	< 1	μg/L	01_101313_03	Undetected
Buddy 221	Sodium	10/7/2013	7400		01_101313_03	
Buddy 221	Sulfate	10/7/2013	51500		01 101313 03	
Buddy 221	Temperature, Field	10/7/2013		°C	01_101313_03	
Buddy 221	Total Dissolved Solids	10/7/2013	200000		01_101313_03	
Buddy 221	Total Suspended Solids	10/7/2013	< 5000		01_101313_03	Undetected
Buddy 221	Zinc	10/7/2013		μg/L	01_101313_03	Analyte detected between MDL and ML
Buddy 221	Alkalinity (As CaCO3)	10/11/2013	120000	μg/L	01_102713_03	
Buddy 221	Aluminum	10/11/2013	18	μg/L	01_102713_03	
Buddy 221	Bicarbonate (As CaC03)	10/11/2013	120000	μg/L	01_102713_03	
Buddy 221	Cadmium	10/11/2013	< 0.1	μg/L	01_102713_03	Undetected
Buddy 221	Calcium	10/11/2013	41300	μg/L	01_102713_03	
Buddy 221	Carbonate (AS CaCO3)	10/11/2013	< 2000	μg/L	01_102713_03	Undetected
Buddy 221	Chloride	10/11/2013	1780	μg/L	01_102713_03	Analyte detected between MDL and ML
Buddy 221	Conductivity, Field	10/11/2013	182.8	uS/cm	01 102713 03	
Buddy 221	Iron	10/11/2013		μg/L	01_102713_03	Undetected
Buddy 221	Lead	10/11/2013		μg/L	01_102713_03	Undetected
Buddy 221	Magnesium	10/11/2013	15000		01_102713_03	
Buddy 221	pH, Field	10/11/2013	7.76	pH Units	01_102713_03	
Buddy 221	Potassium	10/11/2013	500	μg/L	01_102713_03	Analyte detected between MDL and ML

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Buddy 221	Selenium	10/11/2013	< 1	μg/L	01_102713_03	Undetected
Buddy 221	Sodium	10/11/2013	7700	μg/L	01_102713_03	
Buddy 221	Sulfate	10/11/2013	52200	μg/L	01_102713_03	
Buddy 221	Temperature, Field	10/11/2013	0	°C	01_102713_03	
Buddy 221	Total Dissolved Solids	10/11/2013	184000	μg/L	01_102713_03	
Buddy 221	Total Suspended Solids	10/11/2013	< 5000	μg/L	01_102713_03	Undetected
Buddy 221	Zinc	10/11/2013	4	μg/L	01_102713_03	Analyte detected between MDL and ML
Buddy Creek	Alkalinity (As CaCO3)	5/27/2013	20000	μg/L	01_051213_04	
Buddy Creek	Aluminum	5/27/2013	61	μg/L	01_051213_04	
Buddy Creek	Bicarbonate (As CaCO3)	5/27/2013	20000	μg/L	01_051213_04	
Buddy Creek	Cadmium	5/27/2013	0.5	μg/L	01_051213_04	Analyte detected between MDL and ML
Buddy Creek	Calcium	5/27/2013	6200	μg/L	01_051213_04	
Buddy Creek	Carbonate (AS CaCO3)	5/27/2013	< 2000	μg/L	01_051213_04	Undetected
Buddy Creek	Chloride	5/27/2013	1760	μg/L	01_051213_04	Analyte detected between MDL and ML
Buddy Creek	Conductivity, Field	5/27/2013	30.2	uS/cm	01_051213_04	
Buddy Creek	Iron	5/27/2013	70	μg/L	01_051213_04	
Buddy Creek	Lead	5/27/2013	13.9	μg/L	01_051213_04	
Buddy Creek	Magnesium	5/27/2013	2500	μg/L	01_051213_04	
Buddy Creek	pH, Field	5/27/2013	7.17	pH Units	01_051213_04	
Buddy Creek	Potassium	5/27/2013	1200	μg/L	01_051213_04	Analyte detected between MDL and ML
Buddy Creek	Selenium	5/27/2013	< 1	μg/L	01_051213_04	Undetected
Buddy Creek	Sodium	5/27/2013	700	μg/L	01_051213_04	Analyte detected between MDL and ML
Buddy Creek	Sulfate	5/27/2013	6310	μg/L	01_051213_04	
Buddy Creek	Temperature, Field	5/27/2013	0	°C	01_051213_04	
Buddy Creek	Total Dissolved Solids	5/27/2013	40000	μg/L	01_051213_04	
Buddy Creek	Total Suspended Solids	5/27/2013	< 5000	μg/L	01_051213_04	Undetected
Buddy Creek	Zinc	5/27/2013	48	μg/L	01_051213_04	
Buddy Creek	Alkalinity (As CaCO3)	5/31/2013	13000		01_052613_04	Analyte detected between MDL and ML
Buddy Creek	Aluminum	5/31/2013	64	μg/L	01_052613_04	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Buddy Creek	Bicarbonate (As CaC03)	5/31/2013	13000	μg/L	01_052613_04	Analyte detected between MDL and ML
		- / /	0.3	μg/L		Analyte detected between MDL and
Buddy Creek	Cadmium	5/31/2013	5000	/1	01_052613_04	ML
Buddy Creek	Calcium	5/31/2013	5000		01_052613_04	
Buddy Creek	Carbonate (AS CaCO3)	5/31/2013	< 2000	μg/L	01_052613_04	Undetected
		- /0.4 / <del>0</del> 0.4 0	1000	μg/L		Analyte detected between MDL and
Buddy Creek	Chloride	5/31/2013	24.0	C.L.	01_052613_04	ML
Buddy Creek	Conductivity, Field	5/31/2013		uS/cm	01_052613_04	
Buddy Creek	Iron	5/31/2013		μg/L	01_052613_04	
Buddy Creek	Lead	5/31/2013		μg/L	01_052613_04	
Buddy Creek	Magnesium	5/31/2013	1900	μg/L	01_052613_04	
Buddy Creek	pH, Field	5/31/2013	7.71	pH Units	01_052613_04	
Buddy Creek	Potassium	5/31/2013	800	μg/L	01_052613_04	Analyte detected between MDL and ML
Buddy Creek	Selenium	5/31/2013	< 1	μg/L	01_052613_04	Undetected
·	6.11			μg/L		Analyte detected between MDL and
Buddy Creek	Sodium	5/31/2013	6610	/1	01_052613_04	ML
Buddy Creek	Sulfate	5/31/2013	6610		01_052613_04	
Buddy Creek	Temperature, Field	5/31/2013		°C	01_052613_04	
Buddy Creek	Total Dissolved Solids	5/31/2013	30000		01_052613_04	
Buddy Creek	Total Suspended Solids	5/31/2013	< 5000		01_052613_04	Undetected
Buddy Creek	Zinc	5/31/2013		μg/L	01_052613_04	
Buddy Creek	Alkalinity (As CaC03)	6/7/2013	23000		01_060913_04	
Buddy Creek	Aluminum	6/7/2013		μg/L	01_060913_04	
Buddy Creek  Buddy Creek	Bicarbonate (As CaC03)  Cadmium	6/7/2013	0.2	μg/L	01_060913_04 01_060913_04	Analyte detected between MDL and ML
Buddy Creek	Calcium	6/7/2013	7200	ug/L	01_060913_04	
Buddy Creek	Carbonate (AS CaCO3)	6/7/2013	< 2000		01_060913_04	Undetected
Buddy Creek	Chloride	6/7/2013	1010		01_060913_04	Analyte detected between MDL and ML
Buddy Creek	Conductivity, Field	6/7/2013	35.4	uS/cm	01_060913_04	
Buddy Creek	Iron	6/7/2013	590	μg/L	01_060913_04	
Buddy Creek	Lead	6/7/2013	4.6	μg/L	01_060913_04	
Buddy Creek	Magnesium	6/7/2013	3100	μg/L	01_060913_04	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Buddy Creek	pH, Field	6/7/2013	7.5	pH Units	01_060913_04	
Buddy Creek	Potassium	6/7/2013	800	μg/L	01_060913_04	Analyte detected between MDL and ML
Buddy Creek	Selenium	6/7/2013	< 1	μg/L	01_060913_04	Undetected
Buddy Creek	Sodium	6/7/2013	700	μg/L	01_060913_04	Analyte detected between MDL and ML
Buddy Creek	Sulfate	6/7/2013	8350	μg/L	01_060913_04	
Buddy Creek	Temperature, Field	6/7/2013	0.5	°C	01_060913_04	
Buddy Creek	<b>Total Dissolved Solids</b>	6/7/2013	40000	μg/L	01_060913_04	
Buddy Creek	Total Suspended Solids	6/7/2013	5000	μg/L	01_060913_04	Analyte detected between MDL and ML
Buddy Creek	Zinc	6/7/2013	34	μg/L	01_060913_04	
Buddy Creek	Alkalinity (As CaCO3)	6/20/2013	56000	μg/L	01 062313 04	
Buddy Creek	Aluminum	6/20/2013		μg/L	01 062313 04	
Buddy Creek	Bicarbonate (As CaCO3)	6/20/2013	56000		01 062313 04	
Buddy Creek	Cadmium	6/20/2013	< 0.1		01 062313 04	Undetected
Buddy Creek	Calcium	6/20/2013	16300		01 062313 04	
Buddy Creek	Carbonate (AS CaCO3)	6/20/2013	< 2000		01_062313_04	Undetected
Buddy Creek	Chloride	6/20/2013	2200		01 062313 04	Analyte detected between MDL and ML
Buddy Creek	Conductivity, Field	6/20/2013	93.0	uS/cm	01_062313_04	1412
Buddy Creek	Iron	6/20/2013		μg/L	01_062313_04	
Buddy Creek	Lead	6/20/2013		μg/L	01 062313 04	
Buddy Creek	Magnesium	6/20/2013		μg/L	01 062313 04	
Buddy Creek	pH, Field	6/20/2013	7.5	pH Units	01_062313_04	
Buddy Creek	Potassium	6/20/2013	800	μg/L	01_062313_04	Analyte detected between MDL and ML
Buddy Creek	Selenium	6/20/2013	< 1	μg/L	01_062313_04	Undetected
Buddy Creek	Sodium	6/20/2013	1900	μg/L	01_062313_04	Analyte detected between MDL and ML
Buddy Creek	Sulfate	6/20/2013	19600	μg/L	01_062313_04	
Buddy Creek	Temperature, Field	6/20/2013	6.2	°C	01_062313_04	
Buddy Creek	Total Dissolved Solids	6/20/2013	80000	μg/L	01_062313_04	
Buddy Creek	Total Suspended Solids	6/20/2013	9000	μg/L	01_062313_04	Analyte detected between MDL and ML

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Buddy Creek	Zinc	6/20/2013	17	μg/L	01_062313_04	
Buddy Creek	Alkalinity (As CaCO3)	7/5/2013	63000	μg/L	01_071413_04	
Buddy Creek	Aluminum	7/5/2013	400	μg/L	01_071413_04	
Buddy Creek	Bicarbonate (As CaCO3)	7/5/2013	63000	μg/L	01_071413_04	
Buddy Creek	Cadmium	7/5/2013	< 0.1	μg/L	01_071413_04	Undetected
Buddy Creek	Calcium	7/5/2013	22100	μg/L	01_071413_04	
Buddy Creek	Carbonate (AS CaCO3)	7/5/2013	< 2000	μg/L	01_071413_04	Undetected
Buddy Creek	Chloride	7/5/2013	2760	μg/L	01_071413_04	
Buddy Creek	Conductivity, Field	7/5/2013	121.9	uS/cm	01_071413_04	
Buddy Creek	Iron	7/5/2013	560	μg/L	01_071413_04	
Buddy Creek	Lead	7/5/2013	1.6	μg/L	01_071413_04	
Buddy Creek	Magnesium	7/5/2013	9200	μg/L	01_071413_04	
Buddy Creek	pH, Field	7/5/2013	7.79	pH Units	01_071413_04	
Buddy Creek	Potassium	7/5/2013	500	μg/L	01 071413 04	Analyte detected between MDL and ML
Buddy Creek	Selenium	7/5/2013	1.1	μg/L	01_071413_04	Analyte detected between MDL and ML
Buddy Creek	Sodium	7/5/2013	2200	μg/L	01_071413_04	
Buddy Creek	Sulfate	7/5/2013	30100	μg/L	01_071413_04	
Buddy Creek	Temperature, Field	7/5/2013	5.8	°C	01_071413_04	
Buddy Creek	Total Dissolved Solids	7/5/2013	130000	μg/L	01_071413_04	
Buddy Creek	Total Suspended Solids	7/5/2013	9000	μg/L	01 071413 04	Analyte detected between MDL and ML
Buddy Creek	Zinc	7/5/2013	12	μg/L	01 071413 04	
Buddy Creek	Alkalinity (As CaCO3)	7/29/2013	96000	μg/L	01_072813_04	
Buddy Creek	Aluminum	7/29/2013		μg/L	01_072813_04	
Buddy Creek	Bicarbonate (As CaCO3)	7/29/2013	96000		01 072813 04	
Buddy Creek	Cadmium	7/29/2013		μg/L	01_072813_04	Undetected
Buddy Creek	Calcium	7/29/2013	35500		01 072813 04	
Buddy Creek	Carbonate (AS CaCO3)	7/29/2013	< 2000		01_072813_04	Undetected
Buddy Creek	Chloride	7/29/2013	3350		01 072813 04	
Buddy Creek	Conductivity, Field	7/29/2013		uS/cm	01 072813 04	
Buddy Creek	Iron	7/29/2013	80	μg/L	01_072813_04	
Buddy Creek	Lead	7/29/2013		μg/L	01_072813_04	
Buddy Creek	Magnesium	7/29/2013	14600		01_072813_04	
Buddy Creek	pH, Field	7/29/2013	8.1	pH Units	01_072813_04	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Buddy Creek	Potassium	7/29/2013	400	μg/L	01 072813 04	Analyte detected between MDL and ML
Buddy Creek	1 Occassion	772372013	1.1	μg/L	01_0/2013_04	Analyte detected between MDL and
Buddy Creek	Selenium	7/29/2013			01_072813_04	ML
Buddy Creek	Sodium	7/29/2013	3800	μg/L	01_072813_04	
Buddy Creek	Sulfate	7/29/2013	54100	μg/L	01_072813_04	
Buddy Creek	Temperature, Field	7/29/2013	7.1	°C	01_072813_04	
Buddy Creek	<b>Total Dissolved Solids</b>	7/29/2013	174000	μg/L	01_072813_04	
Buddy Creek	<b>Total Suspended Solids</b>	7/29/2013	< 5000	μg/L	01_072813_04	Undetected
Buddy Creek	Zinc	7/29/2013	14	μg/L	01_072813_04	
Buddy Creek	Alkalinity (As CaCO3)	8/9/2013	83000	μg/L	01_081113_04	
Buddy Creek	Aluminum	8/9/2013	658	μg/L	01_081113_04	
Buddy Creek	Bicarbonate (As CaC03)	8/9/2013	83000	μg/L	01_081113_04	
Buddy Creek	Cadmium	8/9/2013	< 0.1	μg/L	01_081113_04	Undetected
Buddy Creek	Calcium	8/9/2013	28600	μg/L	01_081113_04	
Buddy Creek	Carbonate (AS CaCO3)	8/9/2013	< 2000	μg/L	01_081113_04	Undetected
Buddy Creek	Chloride	8/9/2013	2870	μg/L	01_081113_04	
Buddy Creek	Conductivity, Field	8/9/2013	158.3	uS/cm	01_081113_04	
Buddy Creek	Iron	8/9/2013	850	μg/L	01_081113_04	
Buddy Creek	Lead	8/9/2013	3.1	μg/L	01_081113_04	
Buddy Creek	Magnesium	8/9/2013	11700	μg/L	01_081113_04	
Buddy Creek	pH, Field	8/9/2013	7.88	pH Units	01_081113_04	
Buddy Creek	Potassium	8/9/2013	500	μg/L	01_081113_04	Analyte detected between MDL and ML
Decidal Consoli	Calaminus	0/0/2012	1.3	μg/L	04 004442 04	Analyte detected between MDL and
Buddy Creek	Selenium	8/9/2013	2000	/1	01_081113_04	ML
Buddy Creek	Sodium	8/9/2013	2800		01_081113_04	
Buddy Creek	Sulfate	8/9/2013	40100		01_081113_04	
Buddy Creek	Temperature, Field	8/9/2013	6.6		01_081113_04	
Buddy Creek	Total Dissolved Solids	8/9/2013	144000		01_081113_04	
Buddy Creek	Total Suspended Solids	8/9/2013	20000		01_081113_04	
Buddy Creek	Zinc	8/9/2013		μg/L	01_081113_04	
Buddy Creek	Alkalinity (As CaC03)	8/23/2013	103000		01_082513_04	
Buddy Creek	Aluminum	8/23/2013		μg/L	01_082513_04	
Buddy Creek	Bicarbonate (As CaC03)	8/23/2013	103000		01_082513_04	
Buddy Creek	Cadmium	8/23/2013	< 0.1		01_082513_04	Undetected
Buddy Creek	Calcium	8/23/2013	35400		01_082513_04	
Buddy Creek	Carbonate (AS CaCO3)	8/23/2013	< 2000	μg/L	01_082513_04	Undetected

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Buddy Creek	Chloride	8/23/2013	3080	μg/L	01_082513_04	
Buddy Creek	Conductivity, Field	8/23/2013	186	uS/cm	01_082513_04	
Buddy Creek	Iron	8/23/2013	50	μg/L	01_082513_04	
Buddy Creek	Lead	8/23/2013		μg/L	01_082513_04	Analyte detected between MDL and ML
Buddy Creek	Magnesium	8/23/2013	15000	μg/L	01_082513_04	
Buddy Creek	pH, Field	8/23/2013	7.94	pH Units	01_082513_04	
Buddy Creek	Potassium	8/23/2013	400	μg/L	01_082513_04	Analyte detected between MDL and ML
Buddy Creek	Selenium	8/23/2013	< 1	μg/L	01_082513_04	Undetected
Buddy Creek	Sodium	8/23/2013	3500	μg/L	01_082513_04	
Buddy Creek	Sulfate	8/23/2013	47100	μg/L	01_082513_04	
Buddy Creek	Temperature, Field	8/23/2013	4.4	°C	01_082513_04	
Buddy Creek	Total Dissolved Solids	8/23/2013	184000	μg/L	01_082513_04	
Buddy Creek	Total Suspended Solids	8/23/2013	< 5000	μg/L	01_082513_04	Undetected
Buddy Creek	Zinc	8/23/2013	17	μg/L	01_082513_04	
Buddy Creek	Alkalinity (As CaCO3)	9/12/2013	108000	μg/L	01_090813_04	
Buddy Creek	Aluminum	9/12/2013	26	μg/L	01_090813_04	
Buddy Creek	Bicarbonate (As CaC03)	9/12/2013	108000	μg/L	01_090813_04	
Buddy Creek	Cadmium	9/12/2013	< 0.1	μg/L	01_090813_04	Undetected
Buddy Creek	Calcium	9/12/2013	39300	μg/L	01_090813_04	
Buddy Creek	Carbonate (AS CaCO3)	9/12/2013	< 2000	μg/L	01_090813_04	Undetected
Buddy Creek	Chloride	9/12/2013	3300	μg/L	01_090813_04	
Buddy Creek	Conductivity, Field	9/12/2013	200.5	uS/cm	01_090813_04	
Buddy Creek	Iron	9/12/2013	40	μg/L	01_090813_04	Analyte detected between MDL and ML
Buddy Creek	Lead	9/12/2013	0.8	μg/L	01_090813_04	
Buddy Creek	Magnesium	9/12/2013	16200		01_090813_04	
Buddy Creek	pH, Field	9/12/2013	8.13	pH Units	01_090813_04	
Buddy Creek	Potassium	9/12/2013	400	μg/L	01_090813_04	Analyte detected between MDL and ML
Buddy Creek	Selenium	9/12/2013	2.0	μg/L	01_090813_04	Analyte detected between MDL and ML
Buddy Creek	Sodium	9/12/2013	4000	μg/L	01_090813_04	
Buddy Creek	Sulfate	9/12/2013	58600		01_090813_04	
Buddy Creek	Temperature, Field	9/12/2013	3.8		01_090813_04	
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Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Buddy Creek	Total Dissolved Solids	9/12/2013	182000	μg/L	01_090813_04	
Buddy Creek	<b>Total Suspended Solids</b>	9/12/2013	< 5000	μg/L	01_090813_04	Undetected
Buddy Creek	Zinc	9/12/2013	16	μg/L	01_090813_04	
Buddy Creek	Alkalinity (As CaCO3)	9/27/2013	106000	μg/L	01_092213_04	
Buddy Creek	Aluminum	9/27/2013	27	μg/L	01_092213_04	
Buddy Creek	Bicarbonate (As CaC03)	9/27/2013	106000	μg/L	01_092213_04	
Buddy Creek	Cadmium	9/27/2013	< 0.1	μg/L	01_092213_04	Undetected
Buddy Creek	Calcium	9/27/2013	39400	μg/L	01_092213_04	
Buddy Creek	Carbonate (AS CaCO3)	9/27/2013	< 2000	μg/L	01_092213_04	Undetected
Buddy Creek	Chloride	9/27/2013	3810	μg/L	01_092213_04	
Buddy Creek	Conductivity, Field	9/27/2013	187.7	uS/cm	01_092213_04	
Buddy Creek	Iron	9/27/2013	70	μg/L	01_092213_04	
Buddy Creek	Lead	9/27/2013	0.2	μg/L	01_092213_04	Analyte detected between MDL and ML
Buddy Creek	Magnesium	9/27/2013	16900	μg/L	01_092213_04	
Buddy Creek	pH, Field	9/27/2013	7.95	pH Units	01_092213_04	
Buddy Creek	Potassium	9/27/2013	500	μg/L	01_092213_04	Analyte detected between MDL and ML
Buddy Creek	Selenium	9/27/2013	1.7	μg/L	01_092213_04	Analyte detected between MDL and ML
Buddy Creek  Buddy Creek	Sodium	9/27/2013	4400	μσ/I	01_092213_04	IVIL
Buddy Creek  Buddy Creek	Sulfate	9/27/2013	56800		01_092213_04	
Buddy Creek	Temperature, Field	9/27/2013	0.5		01_092213_04	
Buddy Creek  Buddy Creek	Total Dissolved Solids	9/27/2013	206000		01_092213_04	
Buddy Creek  Buddy Creek	Total Suspended Solids	9/27/2013	< 5000		01_092213_04	Undetected
Buddy Creek  Buddy Creek	Zinc	9/27/2013		μg/L	01_092213_04	Ondetected
Buddy Creek  Buddy Creek	Alkalinity (As CaC03)	10/7/2013	121000		01 101313 04	
Buddy Creek	Aluminum	10/7/2013		μg/L	01_101313_04	
Buddy Creek	Bicarbonate (As CaC03)	10/7/2013	121000		01 101313_04	
Buddy Creek	Cadmium	10/7/2013		μg/L	01_101313_04	Undetected
Buddy Creek	Calcium	10/7/2013	42300		01 101313_04	Ondetected
Buddy Creek	Carbonate (AS CaCO3)	10/7/2013	< 2000		01_101313_04	Undetected
Buddy Creek	Chloride	10/7/2013	3940		01 101313_04	Onactected
Buddy Creek  Buddy Creek	Conductivity, Field	10/7/2013		uS/cm	01_101313_04	
Buddy Creek  Buddy Creek	Iron	10/7/2013		μg/L	01_101313_04	Undetected
Buddy Creek	11011	10/7/2013		μg/L	01_101313_04	Analyte detected between MDL and
Buddy Creek	Lead	10/7/2013			01_101313_04	ML
Buddy Creek	Magnesium	10/7/2013	18100	μg/L	01_101313_04	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
		Date		pH	Number	
Buddy Creek	pH, Field	10/7/2013	7.60	Units	01_101313_04	
Buddy Creek	Potassium	10/7/2013	400	μg/L	01_101313_04	Analyte detected between MDL and ML
Buddy Creek	Selenium	10/7/2013		μg/L	01_101313_04	Analyte detected between MDL and ML
Buddy Creek	Sodium	10/7/2013	4800	μg/L	01_101313_04	
Buddy Creek	Sulfate	10/7/2013	58800		01_101313_04	
Buddy Creek	Temperature, Field	10/7/2013	0.9		01_101313_04	
Buddy Creek	Total Dissolved Solids	10/7/2013	200000	μg/L	01_101313_04	
Buddy Creek	Total Suspended Solids	10/7/2013	< 5000	μg/L	01_101313_04	Undetected
Buddy Creek	Zinc	10/7/2013	15	μg/L	01_101313_04	
Buddy Creek	Alkalinity (As CaC03)	10/11/2013	121000	μg/L	01_102713_04	
Buddy Creek	Aluminum	10/11/2013	9	μg/L	01_102713_04	
Buddy Creek	Bicarbonate (As CaCO3)	10/11/2013	121000	μg/L	01_102713_04	
Buddy Creek	Cadmium	10/11/2013	< 0.1	μg/L	01_102713_04	Undetected
Buddy Creek	Calcium	10/11/2013	43200	μg/L	01_102713_04	
Buddy Creek	Carbonate (AS CaCO3)	10/11/2013	< 2000	μg/L	01_102713_04	Undetected
Buddy Creek	Chloride	10/11/2013	4210	μg/L	01_102713_04	
Buddy Creek	Conductivity, Field	10/11/2013	199.5	uS/cm	01_102713_04	
Buddy Creek	Iron	10/11/2013	< 20	μg/L	01_102713_04	Undetected
Buddy Creek	Lead	10/11/2013	0.1	μg/L	01_102713_04	Analyte detected between MDL and ML
Buddy Creek	Magnesium	10/11/2013	18800	ug/L	01_102713_04	
		,,	7.95			
Buddy Creek	pH, Field	10/11/2013	7.95	Units	01_102713_04	
Buddy Creek	Potassium	10/11/2013	500	μg/L	01_102713_04	Analyte detected between MDL and ML
Buddy Creek	Selenium	10/11/2013	1.5	μg/L	01_102713_04	Analyte detected between MDL and ML
Buddy Creek	Sodium	10/11/2013	4800	μg/L	01_102713_04	
Buddy Creek	Sulfate	10/11/2013	59400	μg/L	01_102713_04	
Buddy Creek	Temperature, Field	10/11/2013	0.7	°C	01_102713_04	
Buddy Creek	Total Dissolved Solids	10/11/2013	204000	μg/L	01_102713_04	
Buddy Creek	Total Suspended Solids	10/11/2013	< 5000	μg/L	01_102713_04	Undetected
Buddy Creek	Zinc	10/11/2013	15	μg/L	01_102713_04	
Connie Creek	Alkalinity (As CaC03)	5/24/2013	98000	μg/L	01_051213_08	
Connie Creek	Aluminum	5/24/2013	74	μg/L	01_051213_08	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Connie Creek	Bicarbonate (As CaC03)	5/24/2013	98000	μg/L	01_051213_08	
Connie Creek	Cadmium	5/24/2013	5.6	μg/L	01_051213_08	
Connie Creek	Calcium	5/24/2013	61800	μg/L	01_051213_08	
Connie Creek	Carbonate (AS CaCO3)	5/24/2013	< 2000	μg/L	01_051213_08	Undetected
Connie Creek	Chloride	5/24/2013	< 1000	μg/L	01_051213_08	Undetected
Connie Creek	Conductivity, Field	5/24/2013	268.0	uS/cm	01_051213_08	
Connie Creek	Iron	5/24/2013	110	μg/L	01_051213_08	
Connie Creek	Lead	5/24/2013	46.8	μg/L	01_051213_08	
Connie Creek	Magnesium	5/24/2013	40100	μg/L	01_051213_08	
Connie Creek	pH, Field	5/24/2013	6.37	pH Units	01_051213_08	
Connie Creek	Potassium	5/24/2013	1700	μg/L	01_051213_08	Analyte detected between MDL and ML
Connie Creek	Selenium	5/24/2013	< 1	μg/L	01_051213_08	Undetected
Connie Creek	Sodium	5/24/2013	10000	μg/L	01_051213_08	
Connie Creek	Sulfate	5/24/2013	241000	μg/L	01_051213_08	
Connie Creek	Temperature, Field	5/24/2013	0	°C	01_051213_08	
Connie Creek	Total Dissolved Solids	5/24/2013	390000	μg/L	01_051213_08	
Connie Creek	Total Suspended Solids	5/24/2013	< 5000	μg/L	01_051213_08	Undetected
Connie Creek	Zinc	5/24/2013	431	μg/L	01_051213_08	
Connie Creek	Alkalinity (Ac CaCO2)	6/12/2012	8000	μg/L		Analyte detected between MDL and
	Alkalinity (As CaC03)	6/13/2013	1010	ug/l	01_060913_08	ML
Connie Creek Connie Creek	Aluminum  Bicarbonate (As CaC03)	6/13/2013	8000		01_060913_08 01_060913_08	Analyte detected between MDL and ML
Connie Creek	Cadmium	6/13/2013	0.5	μg/L	01_060913_08	IVIE
Connie Creek	Calcium	6/13/2013	4500		01_060913_08	
Connie Creek	Carbonate (AS CaCO3)	6/13/2013	< 2000		01 060913 08	Undetected
	Chloride			μg/L		Analyte detected between MDL and
Connie Creek		6/13/2013	26.6	uS/cm	01_060913_08	ML
Connie Creek	Conductivity, Field	6/13/2013			01_060913_08	
Connie Creek	Iron	6/13/2013		μg/L	01_060913_08	
Connie Creek Connie Creek	Lead	6/13/2013 6/13/2013		μg/L	01_060913_08	
Connie Creek	Magnesium pH, Field	6/13/2013	6.5	μg/L pH Units	01_060913_08 01_060913_08	
Connie Creek	Potassium	6/13/2013	800	μg/L	01_060913_08	Analyte detected between MDL and ML

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Connie Creek	Selenium	6/13/2013	< 1	μg/L	01_060913_08	Undetected
Connie Creek	Sodium	6/13/2013	800	μg/L	01_060913_08	Analyte detected between MDL and ML
Connie Creek	Sulfate	6/13/2013	13200	μg/L	01_060913_08	
Connie Creek	Temperature, Field	6/13/2013	0.3	°C	01_060913_08	
Connie Creek	Total Dissolved Solids	6/13/2013	30000	μg/L	01_060913_08	
Connie Creek	Total Suspended Solids	6/13/2013	33000	μg/L	01_060913_08	
Connie Creek	Zinc	6/13/2013	61	μg/L	01_060913_08	
Connie Creek	Alkalinity (As CaCO3)	7/11/2013	43000	μg/L	01_071413_08	
Connie Creek	Aluminum	7/11/2013	312	μg/L	01_071413_08	
Connie Creek	Bicarbonate (As CaC03)	7/11/2013	43000	μg/L	01_071413_08	
Connie Creek	Cadmium	7/11/2013	0.4	μg/L	01 071413 08	Analyte detected between MDL and ML
Connie Creek	Calcium	7/11/2013	33600	ug/l	01_071413_08	IVIL
Connie Creek	Carbonate (AS CaCO3)	7/11/2013	< 2000		01_071413_08	Undetected
Connie Creek	Chloride	7/11/2013	1140		01_071413_08	Analyte detected between MDL and ML
Connie Creek	Conductivity, Field	7/11/2013	240.8	uS/cm	01_071413_08	
Connie Creek	Iron	7/11/2013	1890		01_071413_08	
				μg/L		Analyte detected between MDL and
Connie Creek	Lead	7/11/2013	20200	/1	01_071413_08	ML
Connie Creek	Magnesium	7/11/2013	20200	рН	01_071413_08	
Connie Creek Connie Creek	pH, Field Potassium	7/11/2013 7/11/2013	700	Units μg/L	01_071413_08 01_071413_08	Analyte detected between MDL and ML
Connie Creek	Selenium	7/11/2013		μg/L	01_071413_08	Analyte detected between MDL and ML
Connie Creek	Sodium	7/11/2013	4700		01_071413_08	
Connie Creek	Sulfate	7/11/2013	155000		01_071413_08	
Connie Creek	Temperature, Field	7/11/2013	7.3	°C	01_071413_08	
Connie Creek	Total Dissolved Solids	7/11/2013	250000	μg/L	01_071413_08	
Connie Creek	Total Suspended Solids	7/11/2013	< 5000	μg/L	01_071413_08	Undetected
Connie Creek	Zinc	7/11/2013	85	μg/L	01_071413_08	
Connie Creek	Conductivity, Field	8/12/2013	152.7	uS/cm	01_081113_08	
Connie Creek Connie Creek	pH, Field Temperature, Field	8/12/2013 8/12/2013	7.12 4.3	pH Units °C	01_081113_08 01_081113_08	
Confine Creek	remperature, ricia	0/ 12/ 2013	1.5	_	31_001113_00	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Connie Creek	Alkalinity (As CaCO3)	9/12/2013	58000	μg/L	01_090813_08	
Connie Creek	Aluminum	9/12/2013	241	μg/L	01_090813_08	
Connie Creek	Bicarbonate (As CaC03)	9/12/2013	58000	μg/L	01_090813_08	
Connie Creek	Cadmium	9/12/2013	0.2	μg/L	01_090813_08	Analyte detected between MDL and ML
Connie Creek	Calcium	9/12/2013	42000	μg/L	01_090813_08	
Connie Creek	Carbonate (AS CaCO3)	9/12/2013	< 2000	μg/L	01_090813_08	Undetected
Connie Creek	Chloride	9/12/2013	< 1000	μg/L	01_090813_08	Undetected
Connie Creek	Conductivity, Field	9/12/2013	255.8	uS/cm	01_090813_08	
Connie Creek	Iron	9/12/2013	1890	μg/L	01_090813_08	
Connie Creek	Lead	9/12/2013	0.2	μg/L	01_090813_08	Analyte detected between MDL and ML
Connie Creek	Magnesium	9/12/2013	24200	μg/L	01_090813_08	
Connie Creek	pH, Field	9/12/2013	7.33	pH Units	01_090813_08	
Connie Creek	Potassium	9/12/2013	600	μg/L	01_090813_08	Analyte detected between MDL and ML
Connie Creek	Selenium	9/12/2013	1.1	μg/L	01_090813_08	Analyte detected between MDL and ML
Connie Creek	Sodium	9/12/2013	5500	ug/L	01_090813_08	
Connie Creek	Sulfate	9/12/2013	167000		01_090813_08	
Connie Creek	Temperature, Field	9/12/2013	2.6		01 090813 08	
Connie Creek	Total Dissolved Solids	9/12/2013	282000		01_090813_08	
Connie Creek	Total Suspended Solids	9/12/2013	7000		01_090813_08	Analyte detected between MDL and ML
Connie Creek	Zinc	9/12/2013	79	μg/L	01 090813 08	
Connie Creek	Alkalinity (As CaCO3)	10/7/2013	47000		01_101313_08	
Connie Creek	Aluminum	10/7/2013		μg/L	01_101313_08	
Connie Creek	Bicarbonate (As CaCO3)	10/7/2013	47000		01_101313_08	
Connie Creek	Cadmium	10/7/2013		μg/L	01 101313 08	
Connie Creek	Calcium	10/7/2013	60400		01_101313_08	
Connie Creek	Carbonate (AS CaCO3)	10/7/2013	< 2000		01_101313_08	Undetected
Connie Creek	Chloride	10/7/2013	< 1000		01_101313_08	Undetected
Connie Creek	Conductivity, Field	10/7/2013		uS/cm	01_101313_08	Onacteded
Connie Creek	Iron	10/7/2013	9790		01_101313_08	
Connie Creek	Lead	10/7/2013		μg/L	01_101313_08	Analyte detected between MDL and ML

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Connie Creek	Magnesium	10/7/2013	41600	μg/L	01_101313_08	
Connie Creek	pH, Field	10/7/2013	6.51	pH Units	01_101313_08	
Connie Creek	Potassium	10/7/2013	700	μg/L	01_101313_08	Analyte detected between MDL and ML
Connie Creek	Selenium	10/7/2013	< 1	μg/L	01_101313_08	Undetected
Connie Creek	Sodium	10/7/2013	8400	μg/L	01_101313_08	
Connie Creek	Sulfate	10/7/2013	281000	μg/L	01_101313_08	
Connie Creek	Temperature, Field	10/7/2013	-0.1	°C	01_101313_08	
Connie Creek	Total Dissolved Solids	10/7/2013	452000	μg/L	01_101313_08	
Connie Creek	Total Suspended Solids	10/7/2013	18000		01_101313_08	Analyte detected between MDL and ML
Connie Creek	Zinc	10/7/2013	291	μg/L	01_101313_08	
Dudd Creek	Alkalinity (As CaCO3)	5/27/2013	21000	μg/L	01_051213_05	
Dudd Creek	Aluminum	5/27/2013	47	μg/L	01_051213_05	
Dudd Creek	Bicarbonate (As CaC03)	5/27/2013	21000	μg/L	01_051213_05	
Dudd Creek	Cadmium	5/27/2013	0.3	μg/L	01_051213_05	Analyte detected between MDL and ML
Dudd Creek	Calcium	5/27/2013	6200	μg/L	01_051213_05	
Dudd Creek	Carbonate (AS CaCO3)	5/27/2013	< 2000	μg/L	01_051213_05	Undetected
Dudd Creek	Chloride	5/27/2013	1900	μg/L	01_051213_05	Analyte detected between MDL and ML
Dudd Creek	Conductivity, Field	5/27/2013	29.8	uS/cm	01_051213_05	
Dudd Creek	Iron	5/27/2013	70	μg/L	01_051213_05	
Dudd Creek	Lead	5/27/2013	8.1	μg/L	01_051213_05	
Dudd Creek	Magnesium	5/27/2013	2500	μg/L	01_051213_05	
Dudd Creek	pH, Field	5/27/2013	7.10	pH Units	01_051213_05	
Dudd Creek	Potassium	5/27/2013	1100	μg/L	01_051213_05	Analyte detected between MDL and ML
Dudd Creek	Selenium	5/27/2013	< 1	μg/L	01_051213_05	Undetected
Dudd Creek	Sodium	5/27/2013		μg/L		Analyte detected between MDL and ML
Dudd Creek  Dudd Creek	Sulfate	5/27/2013	4620	110/1	01_051213_05 01_051213_05	IVIL
				°C		
Dudd Creek	Temperature, Field	5/27/2013			01_051213_05	
Dudd Creek	Total Dissolved Solids	5/27/2013	40000		01_051213_05	llodoto -tl
Dudd Creek	Total Suspended Solids	5/27/2013	< 5000		01_051213_05	Undetected
Dudd Creek	Zinc	5/27/2013	38	μg/L	01_051213_05	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
				,		Analyte detected
Dudd Creek	Alkalinity (Ac CaCO2)	5/31/2013	13000	μg/L	01_052613_05	between MDL and ML
Dudd Creek  Dudd Creek	Alkalinity (As CaC03)  Aluminum	5/31/2013	160	μg/L	01_052613_05	IVIL
Dudu Creek	Aluminum	3/31/2013	103	μg/ L	01_032613_03	Analyte detected
Dudd Creek	Bicarbonate (As CaC03)	5/31/2013	13000	μg/L	01_052613_05	between MDL and ML
D. H.C.	C. L.:	5/24/2042	0.3	μg/L	04 052642 05	Analyte detected between MDL and
Dudd Creek	Cadmium	5/31/2013	4700	/1	01_052613_05	ML
Dudd Creek	Calcium	5/31/2013	4700		01_052613_05	
Dudd Creek	Carbonate (AS CaCO3)	5/31/2013	< 2000	μg/L	01_052613_05	Undetected
Dudd Creek	Chloride	5/31/2013	1280	μg/L	01_052613_05	Analyte detected between MDL and ML
Dudd Creek	Conductivity, Field	5/31/2013	23.1	uS/cm	01_052613_05	
Dudd Creek	Iron	5/31/2013	220	μg/L	01_052613_05	
Dudd Creek	Lead	5/31/2013	8.5	μg/L	01_052613_05	
Dudd Creek	Magnesium	5/31/2013	1900	μg/L	01_052613_05	
Dudd Creek	pH, Field	5/31/2013	7.86	pH Units	01_052613_05	
Dudd Creek	Potassium	5/31/2013	700	μg/L	01_052613_05	Analyte detected between MDL and ML
Dudd Creek	Selenium	5/31/2013	< 1	μg/L	01_052613_05	Undetected
Dudd Creek	Sodium	5/31/2013	500	μg/L	01_052613_05	Analyte detected between MDL and ML
Dudd Creek	Sulfate	5/31/2013	4910	μg/L	01_052613_05	
Dudd Creek	Temperature, Field	5/31/2013	0.1	°C	01_052613_05	
Dudd Creek	Total Dissolved Solids	5/31/2013	30000	μg/L	01_052613_05	
Dudd Creek	Total Suspended Solids	5/31/2013	< 5000	μg/L	01_052613_05	Undetected
Dudd Creek	Zinc	5/31/2013	34	μg/L	01_052613_05	
Dudd Creek	Alkalinity (As CaCO3)	6/7/2013	27000	μg/L	01_060913_05	
Dudd Creek	Aluminum	6/7/2013	300	μg/L	01_060913_05	
Dudd Creek	Bicarbonate (As CaC03)	6/7/2013	27000	μg/L	01_060913_05	
Dudd Creek	Cadmium	6/7/2013	0.1	μg/L	01_060913_05	Analyte detected between MDL and ML
Dudd Creek	Calcium	6/7/2013	7600	μg/L	01_060913_05	
Dudd Creek	Carbonate (AS CaCO3)	6/7/2013	< 2000	μg/L	01_060913_05	Undetected
Dudd Creek	Chloride	6/7/2013	1110	μg/L	01_060913_05	Analyte detected between MDL and ML

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Dudd Creek	Conductivity, Field	6/7/2013	35.3	uS/cm	01_060913_05	
Dudd Creek	Iron	6/7/2013	550	μg/L	01_060913_05	
Dudd Creek	Lead	6/7/2013	3.3	μg/L	01_060913_05	
Dudd Creek	Magnesium	6/7/2013	3200	μg/L	01_060913_05	
Dudd Creek	pH, Field	6/7/2013	7.47	pH Units	01_060913_05	
Dudd Creek	Potassium	6/7/2013	700	μg/L	01_060913_05	Analyte detected between MDL and ML
Dudd Creek	Selenium	6/7/2013	< 1	μg/L	01_060913_05	Undetected
Dudd Creek	Sodium	6/7/2013	600	μg/L	01_060913_05	Analyte detected between MDL and ML
Dudd Creek	Sulfate	6/7/2013	7610	μg/L	01_060913_05	
Dudd Creek	Temperature, Field	6/7/2013	0.2	°C	01_060913_05	
Dudd Creek	Total Dissolved Solids	6/7/2013	40000	μg/L	01_060913_05	
Dudd Creek	Total Suspended Solids	6/7/2013	8000		01_060913_05	Analyte detected between MDL and ML
Dudd Creek	Zinc	6/7/2013	22	μg/L	01_060913_05	
Dudd Creek	Alkalinity (As CaCO3)	6/20/2013	49000	μg/L	01_062313_05	
Dudd Creek	Aluminum	6/20/2013	205	μg/L	01_062313_05	
Dudd Creek	Bicarbonate (As CaC03)	6/20/2013	49000	μg/L	01_062313_05	
Dudd Creek	Cadmium	6/20/2013	< 0.1	μg/L	01_062313_05	Undetected
Dudd Creek	Calcium	6/20/2013	16400	μg/L	01_062313_05	
Dudd Creek	Carbonate (AS CaCO3)	6/20/2013	< 2000	μg/L	01_062313_05	Undetected
Dudd Creek	Chloride	6/20/2013	2160		01 062313 05	Analyte detected between MDL and ML
Dudd Creek	Conductivity, Field	6/20/2013	95.3	uS/cm	01 062313 05	IVIL
Dudd Creek	Iron	6/20/2013		μg/L	01_062313_05	
Dudd Creek	Lead	6/20/2013		μg/L	01 062313 05	
Dudd Creek	Magnesium	6/20/2013		μg/L	01 062313 05	
Dudd Creek	pH, Field	6/20/2013	7.54	pH Units	01_062313_05	
Dudd Creek	Potassium	6/20/2013	600	μg/L	01_062313_05	Analyte detected between MDL and ML
Dudd Creek	Selenium	6/20/2013	< 1	μg/L	01 062313 05	Undetected
Dudd Creek	Sodium	6/20/2013	1300		01_062313_05	Analyte detected between MDL and ML
Dudd Creek	Sulfate	6/20/2013	16700	ug/I	01_062313_05	
Dudd Creek	Temperature, Field	6/20/2013	8.8		01_062313_05	
Dada CICCK	remperature, ricia	0,20,2013	0.0		01_002313_03	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Dudd Creek	Total Dissolved Solids	6/20/2013	90000	μg/L	01_062313_05	
Dudd Creek	<b>Total Suspended Solids</b>	6/20/2013	< 5000	μg/L	01_062313_05	Undetected
Dudd Creek	Zinc	6/20/2013	8	μg/L	01_062313_05	
Dudd Creek	Alkalinity (As CaCO3)	7/5/2013	53000	μg/L	01_071413_05	
Dudd Creek	Aluminum	7/5/2013	283	μg/L	01_071413_05	
Dudd Creek	Bicarbonate (As CaC03)	7/5/2013	53000	μg/L	01_071413_05	
Dudd Creek	Cadmium	7/5/2013	< 0.1	μg/L	01_071413_05	Undetected
Dudd Creek	Calcium	7/5/2013	18200	μg/L	01_071413_05	
Dudd Creek	Carbonate (AS CaCO3)	7/5/2013	< 2000	μg/L	01_071413_05	Undetected
Dudd Creek	Chloride	7/5/2013	2190	μg/L	01_071413_05	Analyte detected between MDL and ML
Dudd Creek	Conductivity, Field	7/5/2013	98.4	uS/cm	01_071413_05	
Dudd Creek	Iron	7/5/2013	440	μg/L	01_071413_05	
Dudd Creek	Lead	7/5/2013	1.1	μg/L	01_071413_05	
Dudd Creek	Magnesium	7/5/2013	7100	μg/L	01_071413_05	
Dudd Creek	pH, Field	7/5/2013	7.51	pH Units	01_071413_05	
Dudd Creek	Potassium	7/5/2013	400	μg/L	01_071413_05	Analyte detected between MDL and ML
Dudd Creek	Selenium	7/5/2013	< 1	μg/L	01_071413_05	Undetected
Dudd Creek	Sodium	7/5/2013	1500	μg/L	01_071413_05	Analyte detected between MDL and ML
Dudd Creek	Sulfate	7/5/2013	20800	μg/L	01_071413_05	
Dudd Creek	Temperature, Field	7/5/2013	5.6	°C	01_071413_05	
Dudd Creek	Total Dissolved Solids	7/5/2013	110000	μg/L	01_071413_05	
Dudd Creek	Total Suspended Solids	7/5/2013	6000	μg/L	01_071413_05	Analyte detected between MDL and ML
Dudd Creek	Zinc	7/5/2013	7	μg/L	01_071413_05	
Dudd Creek	Alkalinity (As CaCO3)	7/29/2013	89000	μg/L	01_072813_05	
Dudd Creek	Aluminum	7/29/2013	35	μg/L	01_072813_05	
Dudd Creek	Bicarbonate (As CaC03)	7/29/2013	89000	μg/L	01_072813_05	
Dudd Creek	Cadmium	7/29/2013	< 0.1	μg/L	01_072813_05	Undetected
Dudd Creek	Calcium	7/29/2013	30100	μg/L	01_072813_05	
Dudd Creek	Carbonate (AS CaCO3)	7/29/2013	< 2000	μg/L	01_072813_05	Undetected
Dudd Creek	Chloride	7/29/2013	3130	μg/L	01_072813_05	
Dudd Creek	Conductivity, Field	7/29/2013	165.8	uS/cm	01_072813_05	
Dudd Creek	Iron	7/29/2013	40	μg/L	01_072813_05	Analyte detected between MDL and ML

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Dudd Creek	land	7/20/2042	0.1	μg/L	04 072042 05	Analyte detected between MDL and
Dudd Creek	Lead	7/29/2013	11000	/1	01_072813_05	ML
Dudd Creek	Magnesium	7/29/2013	11900		01_072813_05	
Dudd Creek	pH, Field	7/29/2013	8.04	pH Units	01_072813_05	
			300	μg/L		Analyte detected between MDL and
Dudd Creek	Potassium	7/29/2013		, 0	01_072813_05	ML
Dudd Creek	Selenium	7/29/2013	< 1	μg/L	01_072813_05	Undetected
Dudd Creek	Sodium	7/29/2013	2400	μg/L	01_072813_05	
Dudd Creek	Sulfate	7/29/2013	38800	μg/L	01_072813_05	
Dudd Creek	Temperature, Field	7/29/2013	6.4	°C	01_072813_05	
Dudd Creek	Total Dissolved Solids	7/29/2013	142000	μg/L	01_072813_05	
Dudd Creek	Total Suspended Solids	7/29/2013	< 5000	μg/L	01_072813_05	Undetected
Dudd Creek	Zinc	7/29/2013	5	μg/L	01_072813_05	
Dudd Creek	Alkalinity (As CaCO3)	8/9/2013	78000	μg/L	01_081113_05	
Dudd Creek	Aluminum	8/9/2013	119	μg/L	01_081113_05	
Dudd Creek	Bicarbonate (As CaCO3)	8/9/2013	78000	μg/L	01_081113_05	
Dudd Creek	Cadmium	8/9/2013	< 0.1	μg/L	01_081113_05	Undetected
Dudd Creek	Calcium	8/9/2013	27100	μg/L	01_081113_05	
Dudd Creek	Carbonate (AS CaCO3)	8/9/2013	< 2000	μg/L	01_081113_05	Undetected
Dudd Creek	Chloride	8/9/2013	2540	μg/L	01_081113_05	
Dudd Creek	Conductivity, Field	8/9/2013	146.8	uS/cm	01_081113_05	
Dudd Creek	Iron	8/9/2013	210	μg/L	01_081113_05	
Dudd Creek	Lead	8/9/2013	1.4	μg/L	01_081113_05	
Dudd Creek	Magnesium	8/9/2013	10500	μg/L	01_081113_05	
Dudd Creek	pH, Field	8/9/2013	7.85	pH Units	01_081113_05	
Dudd Creek	Potassium	8/9/2013	< 300	μg/L	01 081113 05	Undetected
Dudd Creek	Selenium	8/9/2013		μg/L	01_081113_05	Undetected
Dudd Creek	Sodium	8/9/2013		μg/L	01 081113 05	Analyte detected between MDL and ML
Dudd Creek	Sulfate	8/9/2013	31300	ug/L	01 081113 05	
Dudd Creek	Temperature, Field	8/9/2013	6.9		01_081113_05	
Dudd Creek	Total Dissolved Solids	8/9/2013	132000		01 081113 05	
Dudd Creek	Total Suspended Solids	8/9/2013	23000		01_081113_05	
Dudd Creek	Zinc	8/9/2013		μg/L	01 081113 05	
Dudd Creek	Alkalinity (As CaC03)	8/23/2013	125000		01_081113_05	
Dudd Creek	Aluminum	8/23/2013		μg/L	01_082513_05	
Dudd Creek	Bicarbonate (As CaC03)	8/23/2013	125000		01_082513_05	
Dudd Creek	Cadmium	8/23/2013		μg/L	01_082513_05	Undetected
Dada Creek	Cualificiti	3, 23, 2013	, 0.1	MD/ -	01_002313_03	Shactedea

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Dudd Creek	Calcium	8/23/2013	36700	μg/L	01_082513_05	
Dudd Creek	Carbonate (AS CaCO3)	8/23/2013	< 2000	μg/L	01_082513_05	Undetected
Dudd Creek	Chloride	8/23/2013	3080	μg/L	01_082513_05	
Dudd Creek	Conductivity, Field	8/23/2013	183	uS/cm	01_082513_05	
Dudd Creek	Iron	8/23/2013	< 20	μg/L	01_082513_05	Undetected
Dudd Creek	Lead	8/23/2013	0.1	μg/L	01_082513_05	Analyte detected between MDL and ML
Dudd Creek	Magnesium	8/23/2013	14800	μg/L	01_082513_05	
Dudd Creek	pH, Field	8/23/2013	7.98	pH Units	01_082513_05	
Dudd Creek	Potassium	8/23/2013	< 300	μg/L	01_082513_05	Undetected
Dudd Creek	Selenium	8/23/2013	< 1	μg/L	01_082513_05	Undetected
Dudd Creek	Sodium	8/23/2013	2500	μg/L	01_082513_05	
Dudd Creek	Sulfate	8/23/2013	43000	μg/L	01_082513_05	
Dudd Creek	Temperature, Field	8/23/2013	4	°C	01_082513_05	
Dudd Creek	Total Dissolved Solids	8/23/2013	176000	μg/L	01_082513_05	
Dudd Creek	<b>Total Suspended Solids</b>	8/23/2013	< 5000	μg/L	01_082513_05	Undetected
Dudd Creek	Zinc	8/23/2013	8	μg/L	01_082513_05	
Dudd Creek	Alkalinity (As CaCO3)	9/12/2013	105000	μg/L	01_090813_05	
Dudd Creek	Aluminum	9/12/2013	17	μg/L	01_090813_05	
Dudd Creek	Bicarbonate (As CaC03)	9/12/2013	105000	μg/L	01_090813_05	
Dudd Creek	Cadmium	9/12/2013	< 0.1	μg/L	01_090813_05	Undetected
Dudd Creek	Calcium	9/12/2013	31200	μg/L	01_090813_05	
Dudd Creek	Carbonate (AS CaCO3)	9/12/2013	< 2000	μg/L	01_090813_05	Undetected
Dudd Creek	Chloride	9/12/2013	3510	μg/L	01_090813_05	
Dudd Creek	Conductivity, Field	9/12/2013	157.7	uS/cm	01_090813_05	
Dudd Creek	Iron	9/12/2013	40	μg/L	01_090813_05	Analyte detected between MDL and ML
Dudd Creek	Lead	9/12/2013	0.1	μg/L	01_090813_05	Analyte detected between MDL and ML
Dudd Creek	Magnesium	9/12/2013	12600	μg/L	01_090813_05	
Dudd Creek	pH, Field	9/12/2013	8.07	pH Units	01_090813_05	
Dudd Creek	Potassium	9/12/2013	300	μg/L	01_090813_05	Analyte detected between MDL and ML
Dudd Creek	Selenium	9/12/2013	< 1	μg/L	01_090813_05	Undetected
Dudd Creek	Sodium	9/12/2013		μg/L	01_090813_05	
Dudd Creek	Sulfate	9/12/2013	38000		01_090813_05	
Dudd Creek	Temperature, Field	9/12/2013	3.3		01 090813 05	
Dada CICER	remperature, rielu	3, 12, 2013	3.3		01_030013_03	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Dudd Creek	Total Dissolved Solids	9/12/2013	146000	μg/L	01_090813_05	
Dudd Creek	Total Suspended Solids	9/12/2013	< 5000	μg/L	01_090813_05	Undetected
Dudd Creek	Zinc	9/12/2013	8	μg/L	01_090813_05	
Dudd Creek	Alkalinity (As CaCO3)	9/27/2013	108000	μg/L	01_092213_05	
Dudd Creek	Aluminum	9/27/2013	20	μg/L	01_092213_05	
Dudd Creek	Bicarbonate (As CaCO3)	9/27/2013	108000	μg/L	01_092213_05	
Dudd Creek	Cadmium	9/27/2013	< 0.1	μg/L	01_092213_05	Undetected
Dudd Creek	Calcium	9/27/2013	39500	μg/L	01_092213_05	
Dudd Creek	Carbonate (AS CaCO3)	9/27/2013	< 2000	μg/L	01_092213_05	Undetected
Dudd Creek	Chloride	9/27/2013	3670	μg/L	01_092213_05	
Dudd Creek	Conductivity, Field	9/27/2013	174.7	uS/cm	01_092213_05	
Dudd Creek	Iron	9/27/2013	40	μg/L	01_092213_05	Analyte detected between MDL and ML
Dudd Creek	Lead	9/27/2013	0.1	μg/L	01_092213_05	Analyte detected between MDL and ML
Dudd Creek	Magnesium	9/27/2013	16300	μg/L	01_092213_05	
Dudd Creek	pH, Field	9/27/2013	8.0	pH Units	01_092213_05	
Dudd Creek	Potassium	9/27/2013	500	μg/L	01_092213_05	Analyte detected between MDL and ML
Dudd Creek	Selenium	9/27/2013	< 1	μg/L	01_092213_05	Undetected
Dudd Creek	Sodium	9/27/2013	2900		01_092213_05	
Dudd Creek	Sulfate	9/27/2013	47200		01_092213_05	
Dudd Creek	Temperature, Field	9/27/2013		°C	01 092213 05	
Dudd Creek	Total Dissolved Solids	9/27/2013	198000	μg/L	01 092213 05	
Dudd Creek	Total Suspended Solids	9/27/2013	< 5000		01_092213_05	Undetected
Dudd Creek	Zinc	9/27/2013		μg/L	01_092213_05	Analyte detected between MDL and ML
Dudd Creek	Alkalinity (As CaCO3)	10/7/2013	118000	μg/L	01_101313_05	
Dudd Creek	Aluminum	10/7/2013	13	μg/L	01_101313_05	
Dudd Creek	Bicarbonate (As CaC03)	10/7/2013	118000	μg/L	01 101313 05	
Dudd Creek	Cadmium	10/7/2013	< 0.2	μg/L	01_101313_05	Undetected
Dudd Creek	Calcium	10/7/2013	41100	μg/L	01_101313_05	
Dudd Creek	Carbonate (AS CaCO3)	10/7/2013	< 2000		01_101313_05	Undetected
Dudd Creek	Chloride	10/7/2013	3570		01_101313_05	
Dudd Creek	Conductivity, Field	10/7/2013		uS/cm	01_101313_05	
Dudd Creek	Iron	10/7/2013	< 20	μg/L	01_101313_05	Undetected
Dudd Creek	Lead	10/7/2013	< 0.2	μg/L	01_101313_05	Undetected
Dudd Creek	Magnesium	10/7/2013	16700	μg/L	01_101313_05	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Dudd Creek	pH, Field	10/7/2013	7.62	pH Units	01_101313_05	
Dudd Creek	Potassium	10/7/2013	300	μg/L	01_101313_05	Analyte detected between MDL and ML
Dudd Creek	Selenium	10/7/2012	1.1	μg/L	01 101212 05	Analyte detected between MDL and
		10/7/2013	2000	/1	01_101313_05	ML
Dudd Creek	Sodium	10/7/2013	2900		01_101313_05	
Dudd Creek	Sulfate	10/7/2013	47300 0.4		01_101313_05	
Dudd Creek	Temperature, Field	10/7/2013			01_101313_05	
Dudd Creek	Total Dissolved Solids	10/7/2013	176000		01_101313_05	
Dudd Creek	Total Suspended Solids	10/7/2013	< 5000	μg/L	01_101313_05	Undetected
Dudd Creek	Zinc	10/7/2013	7	μg/L	01_101313_05	Analyte detected between MDL and ML
Dudd Creek	Alkalinity (As CaC03)	10/11/2013	119000	μg/L	01_102713_05	
Dudd Creek	Aluminum	10/11/2013	5	μg/L	01_102713_05	
Dudd Creek	Bicarbonate (As CaC03)	10/11/2013	118000	μg/L	01_102713_05	
Dudd Creek	Cadmium	10/11/2013	< 0.1	μg/L	01_102713_05	Undetected
Dudd Creek	Calcium	10/11/2013	41800	μg/L	01_102713_05	
Dudd Creek	Carbonate (AS CaCO3)	10/11/2013	< 2000	μg/L	01_102713_05	Undetected
Dudd Creek	Chloride	10/11/2013	3650	μg/L	01_102713_05	
Dudd Creek	Conductivity, Field	10/11/2013	183.6	uS/cm	01_102713_05	
Dudd Creek	Iron	10/11/2013	< 20	μg/L	01_102713_05	Undetected
Dudd Creek	Lead	10/11/2013	< 0.1	μg/L	01_102713_05	Undetected
Dudd Creek	Magnesium	10/11/2013	16800	μg/L	01_102713_05	
Dudd Creek	pH, Field	10/11/2013	7.98	pH Units	01_102713_05	
Dudd Creek	Potassium	10/11/2013	300	μg/L	01_102713_05	Analyte detected between MDL and ML
Dudd Creek	Selenium	10/11/2013	1.2	μg/L	01_102713_05	Analyte detected between MDL and ML
Dudd Creek	Sodium	10/11/2013	3100	110/1	01_102713_05	IVIL
Dudd Creek  Dudd Creek	Sulfate	10/11/2013	47500		01_102713_05	
Dudd Creek		10/11/2013	0.5			
Dudd Creek  Dudd Creek	Temperature, Field Total Dissolved Solids	10/11/2013	194000		01_102713_05 01_102713_05	
Dudd Creek		10/11/2013	< 5000			Undetected
Dudd Creek  Dudd Creek	Total Suspended Solids	10/11/2013		μg/L μg/L	01_102713_05	Undetected
Dudu Creek	Zinc	10/11/2013	U	μg/ L	01_102713_05	Analyte detected
Lower Bons	Alkalinity (As CaC03)	5/27/2013	16000	μg/L	01_051213_06	between MDL and ML

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Lower Bons	Aluminum	5/27/2013	234	μg/L	01_051213_06	
Lower Bons	Bicarbonate (As CaC03)	5/27/2013	16000	μg/L	01_051213_06	Analyte detected between MDL and ML
Lower Bons	Cadmium	5/27/2013	2.1	μg/L	01 051213 06	
Lower Bons	Calcium	5/27/2013	10100	μg/L	01_051213_06	
Lower Bons	Carbonate (AS CaCO3)	5/27/2013	< 2000		01 051213 06	Undetected
Lower Bons	Chloride	5/27/2013	7820		01 051213 06	
Lower Bons	Conductivity, Field	5/27/2013	52.2	uS/cm	01_051213_06	
Lower Bons	Iron	5/27/2013	910	μg/L	01_051213_06	
Lower Bons	Lead	5/27/2013	48.7	μg/L	01_051213_06	
Lower Bons	Magnesium	5/27/2013	3800	μg/L	01_051213_06	
Lower Bons	pH, Field	5/27/2013	6.77	pH Units	01_051213_06	
Lower Pens	Potassium	F /27/2012	1200	μg/L	01 051213 06	Analyte detected between MDL and ML
Lower Bons		5/27/2013		ug/l	01_051213_06	
Lower Bons	Selenium	5/27/2013	1100	μg/L μg/L		Analyte detected between MDL and
Lower Bons	Sodium	5/27/2013			01_051213_06	ML
Lower Bons	Sulfate	5/27/2013	14780		01_051213_06	
Lower Bons	Temperature, Field	5/27/2013		°C	01_051213_06	
Lower Bons	Total Dissolved Solids	5/27/2013	60000	μg/L	01_051213_06	
Lower Bons	Total Suspended Solids	5/27/2013	5000	μg/L	01_051213_06	Analyte detected between MDL and ML
Lower Bons	Zinc	5/27/2013	225	μg/L	01_051213_06	
Lower Bons	Alkalinity (As CaCO3)	5/31/2013	6000	μg/L	01 052613 06	Analyte detected between MDL and ML
Lower Bons	Aluminum	5/31/2013	358	μg/L	01_052613_06	
Lower Bons	Bicarbonate (As CaCO3)	5/31/2013	6000		01 052613 06	Analyte detected between MDL and ML
Lower Bons	Cadmium	5/31/2013	1 2	μg/L	01_052613_06	IVIL
Lower Bons	Calcium	5/31/2013	2900		01_052613_06	
Lower Bons	Carbonate (AS CaCO3)	5/31/2013	< 2000		01_052613_06	Undetected
			1220			Analyte detected between MDL and
Lower Bons	Chloride	5/31/2013	45.5		01_052613_06	ML
Lower Bons	Conductivity, Field	5/31/2013		uS/cm	01_052613_06	
Lower Bons	Iron	5/31/2013		μg/L	01_052613_06	
Lower Bons	Lead	5/31/2013	43.6	μg/L	01_052613_06	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
						Analyte detected
Lower Bons	Magnosium	5/31/2013	1000	μg/L	01 052613 06	between MDL and ML
Lower Bons	Magnesium	5/51/2015		рН	01_032013_00	IVIL
Lower Bons	pH, Field	5/31/2013	6.95	Units	01_052613_06	
						Analyte detected
	5.	5 /04 /0040	1000	μg/L	04 050640 06	between MDL and
Lower Bons	Potassium	5/31/2013		/1	01_052613_06	ML
Lower Bons	Selenium	5/31/2013	< 1	μg/L	01_052613_06	Undetected Analyte detected
			400	μg/L		between MDL and
Lower Bons	Sodium	5/31/2013		1-01	01_052613_06	ML
Lower Bons	Sulfate	5/31/2013	4100	μg/L	01_052613_06	
Lower Bons	Temperature, Field	5/31/2013	0	°C	01_052613_06	
Lower Bons	Total Dissolved Solids	5/31/2013	20000	μg/L	01_052613_06	
						Analyte detected
Lower Bons	Total Cusponded Colids	F /21 /2012	9000	μg/L	01 053613 06	between MDL and
Lower Bons	Total Suspended Solids Zinc	5/31/2013 5/31/2013	127	μg/L	01_052613_06 01_052613_06	ML
LOWEL BOILS	ZIIIC	5/51/2015	127	μg/ L	01_032013_00	Analyte detected
			11000	μg/L		between MDL and
Lower Bons	Alkalinity (As CaCO3)	6/7/2013		, 0,	01_060913_06	ML
Lower Bons	Aluminum	6/7/2013	1150	μg/L	01_060913_06	
						Analyte detected
Lawar Dana	Discurb consts (As CaCO2)	C /7 /2012	11000	μg/L	01 000013 00	between MDL and
Lower Bons	Bicarbonate (As CaC03)	6/7/2013			01_060913_06	ML Analyte detected
			0.4	μg/L		between MDL and
Lower Bons	Cadmium	6/7/2013		1-01	01_060913_06	ML
Lower Bons	Calcium	6/7/2013	7100	μg/L	01_060913_06	
Lower Bons	Carbonate (AS CaCO3)	6/7/2013	< 2000	μg/L	01_060913_06	Undetected
Lower Bons	Chloride	6/7/2013	3840	μg/L	01_060913_06	
Lower Bons	Conductivity, Field	6/7/2013	38.3	uS/cm	01_060913_06	
Lower Bons	Iron	6/7/2013	1920	μg/L	01_060913_06	
Lower Bons	Lead	6/7/2013	8.5	μg/L	01_060913_06	
Lower Bons	Magnesium	6/7/2013	2900	μg/L	01_060913_06	
Lower Bons	pH, Field	6/7/2013	7.38	pH Units	01_060913_06	
			4400	1.		Analyte detected
Lower Pens	Dotaccium	6/7/2012	1100	μg/L	01 060012 06	between MDL and
Lower Bons	Potassium Selenium	6/7/2013 6/7/2013		μg/L	01_060913_06 01_060913_06	ML Undetected
LOWEL DOLLS	Selemum	0///2013	<u> </u>	μg/ L	01_000313_00	Analyte detected
			800	μg/L		between MDL and
Lower Bons	Sodium	6/7/2013			01_060913_06	ML
20401 50113	Journ	0,7,2013			01_000313_00	

		Sample	- "		Sample	
Location	Analyte	Date	Result	Unit	Number	Qualifier Comment
Lower Bons	Sulfate	6/7/2013	10600	μg/L	01_060913_06	
Lower Bons	Temperature, Field	6/7/2013	0.7	°C	01_060913_06	
Lower Bons	Total Dissolved Solids	6/7/2013	50000	μg/L	01_060913_06	
Lower Bons	Total Suspended Solids	6/7/2013	31000	μg/L	01_060913_06	
Lower Bons	Zinc	6/7/2013	130	μg/L	01_060913_06	
Lower Bons	Alkalinity (As CaCO3)	6/20/2013	38000	μg/L	01_062313_06	
Lower Bons	Aluminum	6/20/2013	1290	μg/L	01_062313_06	
Lower Bons	Bicarbonate (As CaCO3)	6/20/2013	38000	μg/L	01_062313_06	
Lower Bons	Cadmium	6/20/2013	0.1	μg/L	01_062313_06	Analyte detected between MDL and ML
Lower Bons	Calcium	6/20/2013	15900	μg/L	01_062313_06	
Lower Bons	Carbonate (AS CaCO3)	6/20/2013	< 2000	μg/L	01_062313_06	Undetected
Lower Bons	Chloride	6/20/2013	2900	μg/L	01_062313_06	
Lower Bons	Conductivity, Field	6/20/2013	88.9	uS/cm	01_062313_06	
Lower Bons	Iron	6/20/2013	2540	μg/L	01_062313_06	
Lower Bons	Lead	6/20/2013	3.4	μg/L	01_062313_06	
Lower Bons	Magnesium	6/20/2013	6600	μg/L	01_062313_06	
Lower Bons	pH, Field	6/20/2013	6.97	pH Units	01_062313_06	
Lower Bons	Potassium	6/20/2013	1100	μg/L	01_062313_06	Analyte detected between MDL and ML
Lower Bons	Selenium	6/20/2013	<i>-</i> 1	μg/L	01_062313_06	Undetected
Lower Bons	Sodium	6/20/2013	2000		01_062313_06	Ondetected
	Sulfate	6/20/2013	28000		01_062313_06	
Lower Bons		6/20/2013	5.4		01_062313_06	
	Temperature, Field		90000			
Lower Bons	Total Dissolved Solids	6/20/2013			01_062313_06	
Lower Bons	Total Suspended Solids Zinc	6/20/2013 6/20/2013	21000	μg/L	01_062313_06 01_062313_06	
Lower Bons			32000			
Lower Bons	Alkalinity (As CaC03)  Aluminum	7/5/2013	2780		01_071413_06	
		7/5/2013	32000		01_071413_06	
Lower Bons	Bicarbonate (As CaC03)	7/5/2013	32000	μg/ L	01_071413_06	Analyte detected
Lower Bons	Cadmium	7/5/2013	0.2	μg/L	01_071413_06	between MDL and ML
Lower Bons	Calcium	7/5/2013	21100	μg/L	01 071413 06	
Lower Bons	Carbonate (AS CaCO3)	7/5/2013	< 2000		01_071413_06	Undetected
Lower Bons	Chloride	7/5/2013	6710		01_071413_06	
Lower Bons	Conductivity, Field	7/5/2013		uS/cm	01_071413_06	
Lower Bons	Iron	7/5/2013	3100		01_071413_06	
Lower Bons	Lead	7/5/2013		μg/L	01 071413 06	
2001 00110		., 5, 2013		r-01 =	55, 1 115_00	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Lower Bons	Magnesium	7/5/2013	11000	μg/L	01_071413_06	
Lower Bons	pH, Field	7/5/2013	7.23	pH Units	01_071413_06	
Lower Bons	Potassium	7/5/2013	1100	μg/L	01_071413_06	Analyte detected between MDL and ML
Lower Bons	Selenium	7/5/2013	< 1	μg/L	01_071413_06	Undetected
Lower Bons	Sodium	7/5/2013	2300		01_071413_06	
Lower Bons	Sulfate	7/5/2013	65900	μg/L	01_071413_06	
Lower Bons	Temperature, Field	7/5/2013	4.7	°C	01_071413_06	
Lower Bons	<b>Total Dissolved Solids</b>	7/5/2013	160000	μg/L	01_071413_06	
Lower Bons	<b>Total Suspended Solids</b>	7/5/2013	43000	μg/L	01_071413_06	
Lower Bons	Zinc	7/5/2013	151	μg/L	01_071413_06	
Lower Bons	Alkalinity (As CaCO3)	7/29/2013	59000	μg/L	01_072813_06	
Lower Bons	Aluminum	7/29/2013	980	μg/L	01_072813_06	
Lower Bons	Bicarbonate (As CaC03)	7/29/2013	59000	μg/L	01_072813_06	
Louisa Bons	Coducium	7/20/2012	0.4	μg/L	04 073843 06	Analyte detected between MDL and
Lower Bons	Cadmium	7/29/2013	44100	/1	01_072813_06	ML
Lower Bons	Calcium	7/29/2013	44100		01_072813_06	11. 1.1. 1. 1
Lower Bons	Carbonate (AS CaCO3)	7/29/2013	< 2000		01_072813_06	Undetected
Lower Bons	Chloride	7/29/2013	9070		01_072813_06	
Lower Bons	Conductivity, Field	7/29/2013		uS/cm	01_072813_06	
Lower Bons	Iron	7/29/2013	1510		01_072813_06	
Lower Bons	Lead	7/29/2013		μg/L	01_072813_06	
Lower Bons	Magnesium	7/29/2013	25100		01_072813_06	
Lower Bons	pH, Field	7/29/2013	7.37	pH Units	01_072813_06	
Lower Bons	Potassium	7/29/2013	800	μg/L	01_072813_06	Analyte detected between MDL and ML
Lower Bons	Selenium	7/29/2013	< 1	μg/L	01_072813_06	Undetected
Lower Bons	Sodium	7/29/2013	3200	μg/L	01_072813_06	
Lower Bons	Sulfate	7/29/2013	165000	μg/L	01_072813_06	
Lower Bons	Temperature, Field	7/29/2013	5.7	°C	01_072813_06	
Lower Bons	Total Dissolved Solids	7/29/2013	314000	μg/L	01_072813_06	
			15000	μg/L		Analyte detected between MDL and
Lower Bons	Total Suspended Solids	7/29/2013			01_072813_06	ML
Lower Bons	Zinc	7/29/2013		μg/L	01_072813_06	
Lower Bons	Alkalinity (As CaC03)	8/9/2013	44000		01_081113_06	
Lower Bons	Aluminum	8/9/2013	2130	μg/L	01_081113_06	
Lower Bons	Bicarbonate (As CaC03)	8/9/2013	44000	μg/L	01_081113_06	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
				4.		Analyte detected
Lower Bons	Cadmium	9/0/2012	0.4	μg/L	01 001112 06	between MDL and
	Calcium	8/9/2013	27200	ug/l	01_081113_06	ML
Lower Bons	Carbonate (AS CaCO3)	8/9/2013 8/9/2013	< 2000		01_081113_06 01_081113_06	Undetected
Lower Bons	Chloride (AS CaCOS)	8/9/2013	6260		01_081113_06	Undetected
	Conductivity, Field	8/9/2013		uS/cm	01_081113_00	
Lower Bons Lower Bons	Iron	8/9/2013	3060		01_081113_06	
Lower Bons	Lead	8/9/2013		μg/L	01_081113_06	
Lower Bons	Magnesium	8/9/2013	13300	рН	01_081113_06	
Lower Bons	pH, Field	8/9/2013	7.29	Units	01 081113 06	
201101 20110	p.,,,,,,,,,,	0,0,2020		• • • • • • • • • • • • • • • • • • • •	0000	Analyte detected
			1100	μg/L		between MDL and
Lower Bons	Potassium	8/9/2013			01_081113_06	ML
Lower Bons	Selenium	8/9/2013	< 1	μg/L	01_081113_06	Undetected
Lower Bons	Sodium	8/9/2013	2300	μg/L	01_081113_06	
Lower Bons	Sulfate	8/9/2013	79100	μg/L	01_081113_06	
Lower Bons	Temperature, Field	8/9/2013	6.8	°C	01_081113_06	
Lower Bons	Total Dissolved Solids	8/9/2013	178000	μg/L	01_081113_06	
Lower Bons	Total Suspended Solids	8/9/2013	60000	μg/L	01_081113_06	
Lower Bons	Zinc	8/9/2013	192	μg/L	01_081113_06	
Lower Bons	Alkalinity (As CaCO3)	8/23/2013	63000	μg/L	01_082513_06	
Lower Bons	Aluminum	8/23/2013	507	μg/L	01_082513_06	
Lower Bons	Bicarbonate (As CaCO3)	8/23/2013	63000	μg/L	01_082513_06	
Lower Bons	Cadmium	8/23/2013	0.3	μg/L	01_082513_06	Analyte detected between MDL and ML
Lower Bons	Calcium	8/23/2013	35800	μg/L	01_082513_06	
Lower Bons	Carbonate (AS CaCO3)	8/23/2013	< 2000	μg/L	01_082513_06	Undetected
Lower Bons	Chloride	8/23/2013	2730	μg/L	01_082513_06	
Lower Bons	Conductivity, Field	8/23/2013	196.5	uS/cm	01_082513_06	
Lower Bons	Iron	8/23/2013	1080	μg/L	01_082513_06	
Lower Bons	Lead	8/23/2013	2.1	μg/L	01_082513_06	
Lower Bons	Magnesium	8/23/2013	18600	μg/L	01_082513_06	
Lower Bons	pH, Field	8/23/2013	7.62	pH Units	01 082513 06	
			400	μg/L		Analyte detected between MDL and
Lower Bons	Potassium	8/23/2013	1	ug/l	01_082513_06	ML
Lower Bons	Selenium	8/23/2013		μg/L	01_082513_06	Undetected
Lower Bons	Sodium	8/23/2013	3000		01_082513_06	
Lower Bons	Sulfate	8/23/2013	103000	μg/L	01_082513_06	

Location	Analyte	Sample	Result	Unit	Sample	Qualifier Comment
	•	Date			Number	
Lower Bons	Temperature, Field	8/23/2013	3.6		01_082513_06	
Lower Bons	Total Dissolved Solids	8/23/2013	226000	μg/L	01_082513_06	
			16000	ug/l		Analyte detected
Lower Bons	Total Suspended Solids	8/23/2013	16000	μg/L	01_082513_06	between MDL and ML
Lower Bons	Zinc	8/23/2013	279	μg/L	01_082513_06	IVIL
Lower Bons	Alkalinity (As CaC03)	9/12/2013	68000		01_090813_06	
Lower Bons	Aluminum	9/12/2013		μg/L	01_090813_06	
Lower Bons	Bicarbonate (As CaC03)	9/12/2013	68000		01_090813_06	
LOWEL BOILS	bicarbonate (As Cacos)	9/12/2013	08000	μg/ L	01_090813_00	Analyte detected
			0.3	μg/L		between MDL and
Lower Bons	Cadmium	9/12/2013		P-0/ =	01_090813_06	ML
Lower Bons	Calcium	9/12/2013	41000	μg/L	01 090813 06	
Lower Bons	Carbonate (AS CaCO3)	9/12/2013	< 2000		01 090813 06	Undetected
Lower Bons	Chloride	9/12/2013	7160		01_090813_06	
Lower Bons	Conductivity, Field	9/12/2013	227.3	uS/cm	01_090813_06	
Lower Bons	Iron	9/12/2013		μg/L	01 090813 06	
Lower Bons	Lead	9/12/2013		μg/L	01_090813_06	
Lower Bons	Magnesium	9/12/2013	21300		01 090813 06	
				рН		
Lower Bons	pH, Field	9/12/2013	7.61	Units	01_090813_06	
						Analyte detected
_		- 4 4	500	μg/L		between MDL and
Lower Bons	Potassium	9/12/2013			01_090813_06	ML
Lower Bons	Selenium	9/12/2013		μg/L	01_090813_06	Undetected
Lower Bons	Sodium	9/12/2013	3300		01_090813_06	
Lower Bons	Sulfate	9/12/2013	124000		01_090813_06	
Lower Bons	Temperature, Field	9/12/2013	2.1		01_090813_06	
Lower Bons	Total Dissolved Solids	9/12/2013	244000		01_090813_06	
Lower Bons	Total Suspended Solids	9/12/2013	< 5000		01_090813_06	Undetected
Lower Bons	Zinc	9/12/2013	314	μg/L	01_090813_06	
Lower Bons	Alkalinity (As CaC03)	9/27/2013	71000	μg/L	01_092213_06	
Lower Bons	Aluminum	9/27/2013	53	μg/L	01_092213_06	
Lower Bons	Bicarbonate (As CaC03)	9/27/2013	71000	μg/L	01_092213_06	
						Analyte detected
Lavian Davia	Codesium	0/27/2042	0.4	μg/L	04 002242 00	between MDL and
Lower Bons	Calairea	9/27/2013	46100	a/!	01_092213_06	ML
Lower Bons	Calcium	9/27/2013	46100		01_092213_06	11. 1.1
Lower Bons	Carbonate (AS CaCO3)	9/27/2013	< 2000		01_092213_06	Undetected
Lower Bons	Chloride	9/27/2013	4290		01_092213_06	
Lower Bons	Conductivity, Field	9/27/2013		uS/cm	01_092213_06	
Lower Bons	Iron	9/27/2013	350	μg/L	01_092213_06	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
			0.4	ug/l		Analyte detected between MDL and
Lower Bons	Lead	9/27/2013	0.4	μg/L	01_092213_06	ML
Lower Bons	Magnesium	9/27/2013	24800	ug/L	01_092213_06	.,,_
LOWER BOILS	Wagnesiani	3/2//2013		pH	01_032213_00	
Lower Bons	pH, Field	9/27/2013	7.75	Units	01_092213_06	
Lower Bons	Potassium	9/27/2013	500	μg/L	01_092213_06	Analyte detected between MDL and ML
Lower Bons	Selenium	9/27/2013	< 1	μg/L	01 092213 06	Undetected
Lower Bons	Sodium	9/27/2013	3600		01_092213_06	
Lower Bons	Sulfate	9/27/2013	125000	· -	01 092213 06	
Lower Bons	Temperature, Field	9/27/2013		°C	01 092213 06	
Lower Bons	Total Dissolved Solids	9/27/2013	274000	μg/L	01 092213 06	
Lower Bons	Total Suspended Solids	9/27/2013	< 5000		01_092213_06	Undetected
Lower Bons	Zinc	9/27/2013		μg/L	01 092213 06	
Lower Bons	Alkalinity (As CaCO3)	10/7/2013	89000		01_101313_06	
Lower Bons	Aluminum	10/7/2013		μg/L	01 101313 06	
Lower Bons	Bicarbonate (As CaCO3)	10/7/2013	89000		01 101313 06	
Lower Bons	Cadmium	10/7/2013	0.6	μg/L	01_101313_06	Analyte detected between MDL and ML
Lower Bons	Calcium	10/7/2013	55500	μg/L	01 101313 06	
Lower Bons	Carbonate (AS CaCO3)	10/7/2013	< 2000	μg/L	01_101313_06	Undetected
Lower Bons	Chloride	10/7/2013	5690	μg/L	01_101313_06	Analyte detected between MDL and ML
Lower Bons	Conductivity, Field	10/7/2013	281.5	uS/cm	01_101313_06	
Lower Bons	Iron	10/7/2013	500	μg/L	01_101313_06	
Lower Bons	Lead	10/7/2013	2.1	μg/L	01_101313_06	
Lower Bons	Magnesium	10/7/2013	31100	μg/L	01_101313_06	
Lower Bons	pH, Field	10/7/2013	6.95	pH Units	01_101313_06	
			600	μg/L		Analyte detected between MDL and
Lower Bons	Potassium	10/7/2013	- 1	/1	01_101313_06	ML
Lower Bons	Selenium	10/7/2013		μg/L	01_101313_06	Undetected
Lower Bons	Sodium	10/7/2013	4100		01_101313_06	
Lower Bons	Sulfate	10/7/2013	158000		01_101313_06	
Lower Bons	Temperature, Field	10/7/2013		°C	01_101313_06	
Lower Bons	Total Dissolved Solids	10/7/2013	334000		01_101313_06	
Lower Bons	Total Suspended Solids	10/7/2013	< 5000		01_101313_06	Undetected
Lower Bons	Zinc	10/7/2013	/43	μg/L	01_101313_06	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Lower Bons	Alkalinity (As CaCO3)	10/11/2013	87000	μg/L	01_102713_06	
Lower Bons	Aluminum	10/11/2013	32	μg/L	01_102713_06	
Lower Bons	Bicarbonate (As CaCO3)	10/11/2013	87000	μg/L	01_102713_06	
Lower Bons	Cadmium	10/11/2013	0.8	μg/L	01_102713_06	
Lower Bons	Calcium	10/11/2013	72500	μg/L	01_102713_06	
Lower Bons	Carbonate (AS CaCO3)	10/11/2013	< 2000	μg/L	01_102713_06	Undetected
						Analyte detected
		10/11/0010	5120	μg/L		between MDL and
Lower Bons	Chloride	10/11/2013		- 1	01_102713_06	ML
Lower Bons	Conductivity, Field	10/11/2013		uS/cm	01_102713_06	
Lower Bons	Iron	10/11/2013	370	μg/L	01_102713_06	
			0.2	ug/I		Analyte detected between MDL and
Lower Bons	Lead	10/11/2013	0.5	μg/L	01_102713_06	ML
Lower Bons	Magnesium	10/11/2013	47600	πα/Ι	01_102713_06	IVIL
LOWER BOILS	Magnesiani	10/11/2013		рН	01_102713_00	
Lower Bons	pH, Field	10/11/2013	7.30	Units	01_102713_06	
						Analyte detected
			700	μg/L		between MDL and
Lower Bons	Potassium	10/11/2013			01_102713_06	ML
Lower Bons	Selenium	10/11/2013		μg/L	01_102713_06	Undetected
Lower Bons	Sodium	10/11/2013	4300		01_102713_06	
Lower Bons	Sulfate	10/11/2013	262000		01_102713_06	
Lower Bons	Temperature, Field	10/11/2013		°C	01_102713_06	
Lower Bons	Total Dissolved Solids	10/11/2013	486000		01_102713_06	
Lower Bons	Total Suspended Solids	10/11/2013	< 5000	μg/L	01_102713_06	Undetected
Lower Bons	Zinc	10/11/2013	1470	μg/L	01_102713_06	
Rachel Creek	Alkalinity (As CaCO3)	5/24/2013	3000	μg/L	01_051213_09	Analyte detected between MDL and ML
Rachel Creek	Aluminum	5/24/2013	185	μg/L	01_051213_09	
Rachel Creek	Bicarbonate (As CaC03)	5/24/2013		μg/L	01_051213_09	Analyte detected between MDL and ML
Rachel Creek	Cadmium	5/24/2013	7.2	μg/L	01 051213 09	
Rachel Creek	Calcium	5/24/2013	2700		01_051213_09	
Rachel Creek	Carbonate (AS CaCO3)	5/24/2013	< 2000		01 051213 09	Undetected
				μg/L		Analyte detected between MDL and
Rachel Creek	Chloride	5/24/2013			01_051213_09	ML
Rachel Creek	Conductivity, Field	5/24/2013		uS/cm	01_051213_09	
Rachel Creek	Iron	5/24/2013		μg/L	01_051213_09	
Rachel Creek	Lead	5/24/2013	95.5	μg/L	01_051213_09	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Rachel Creek	Magnesium	5/24/2013	1100	μg/L	01_051213_09	
Rachel Creek	pH, Field	5/24/2013	5.35	pH Units	01_051213_09	
Rachel Creek	Potassium	5/24/2013	1200		01_051213_09	Analyte detected between MDL and ML
Rachel Creek	Selenium	5/24/2013	< 1	μg/L	01_051213_09	Undetected
Rachel Creek	Sodium	5/24/2013		μg/L	01_051213_09	Analyte detected between MDL and ML
Rachel Creek	Sulfate	5/24/2013	10930		01_051213_09	
Rachel Creek	Temperature, Field	5/24/2013	0	°C	01_051213_09	
Rachel Creek	Total Dissolved Solids	5/24/2013	10000	μg/L	01_051213_09	Analyte detected between MDL and ML
Rachel Creek	Total Suspended Solids	5/24/2013	< 5000	μg/L	01_051213_09	Undetected
Rachel Creek	Zinc	5/24/2013	677	μg/L	01_051213_09	
Rachel Creek	Alkalinity (As CaCO3)	6/13/2013	4000	μg/L	01_060913_09	Analyte detected between MDL and ML
Rachel Creek	Aluminum	6/13/2013	1050	μg/L	01_060913_09	
Rachel Creek	Bicarbonate (As CaCO3)	6/13/2013	4000	μg/L	01_060913_09	Analyte detected between MDL and ML
Rachel Creek	Cadmium	6/13/2013	1.2	μg/L	01_060913_09	
Rachel Creek	Calcium	6/13/2013	5400	μg/L	01_060913_09	
Rachel Creek	Carbonate (AS CaCO3)	6/13/2013	< 2000	μg/L	01_060913_09	Undetected
Rachel Creek	Chloride	6/13/2013	610	μg/L	01_060913_09	Analyte detected between MDL and ML
Rachel Creek	Conductivity, Field	6/13/2013	40.5	uS/cm	01_060913_09	
Rachel Creek	Iron	6/13/2013	2620	μg/L	01_060913_09	
Rachel Creek	Lead	6/13/2013	14.5	μg/L	01_060913_09	
Rachel Creek	Magnesium	6/13/2013	3800	μg/L	01_060913_09	
Rachel Creek	pH, Field	6/13/2013	6.19	pH Units	01_060913_09	
Rachel Creek	Potassium	6/13/2013	700	μg/L	01_060913_09	Analyte detected between MDL and ML
Rachel Creek	Selenium	6/13/2013	< 1	μg/L	01_060913_09	Undetected
Rachel Creek	Sodium	6/13/2013	800	μg/L	01_060913_09	Analyte detected between MDL and ML
Rachel Creek	Sulfate	6/13/2013	29100	ug/I	01_060913_09	
Nacrici Cicck	Juliute	0/ 13/ 2013	_3100	MD/ -	01_000313_03	

le sation	Analysis	Sample	Donalt	l lost	Sample	Ouglifier Comment
Location	Analyte	Date	Result	Unit	Number	Qualifier Comment
Rachel Creek	Temperature, Field	6/13/2013	0.6		01_060913_09	
Rachel Creek	Total Dissolved Solids	6/13/2013	40000		01_060913_09	
Rachel Creek	Total Suspended Solids	6/13/2013	28000	μg/L	01_060913_09	
Rachel Creek	Zinc	6/13/2013	164	μg/L	01_060913_09	
						Analyte detected
Da ah al Cua ah	Aller Her (A - C- CO2)	7/44/2042	3000	μg/L	04 074442 00	between MDL and
Rachel Creek	Alkalinity (As CaC03)	7/11/2013	0.42	/1	01_071413_09	ML
Rachel Creek	Aluminum	7/11/2013	643	μg/L	01_071413_09	Analyte detected
			3000	μg/L		between MDL and
Rachel Creek	Bicarbonate (As CaCO3)	7/11/2013	3000	μ6/ <b>L</b>	01_071413_09	ML
Rachel Creek	Cadmium	7/11/2013	2.1	μg/L	01 071413 09	
Rachel Creek	Calcium	7/11/2013	41500		01 071413 09	
Rachel Creek	Carbonate (AS CaCO3)	7/11/2013	< 2000		01 071413 09	Undetected
Rachel Creek	Chloride	7/11/2013	< 2500		01 071413 09	Undetected
Rachel Creek	Conductivity, Field	7/11/2013		uS/cm	01_071413_09	
Rachel Creek	Iron	7/11/2013	1090		01 071413 09	
		.,,		1 0,		Analyte detected
			0.4	μg/L		between MDL and
Rachel Creek	Lead	7/11/2013			01_071413_09	ML
Rachel Creek	Magnesium	7/11/2013	29100	μg/L	01_071413_09	
		_ , , , , ,	5.96	рН		
Rachel Creek	pH, Field	7/11/2013		Units	01_071413_09	A call to data dad
			600	μg/L		Analyte detected between MDL and
Rachel Creek	Potassium	7/11/2013	000	μg/ L	01_071413_09	ML
racifer creek	7 0 (0 3 3 1 4 1 1 1	7,11,2013			01_071113_03	Analyte detected
			3.1	μg/L		between MDL and
Rachel Creek	Selenium	7/11/2013			01_071413_09	ML
Rachel Creek	Sodium	7/11/2013	3400	μg/L	01_071413_09	
Rachel Creek	Sulfate	7/11/2013	243000	μg/L	01_071413_09	
Rachel Creek	Temperature, Field	7/11/2013	9.7	°C	01_071413_09	
Rachel Creek	Total Dissolved Solids	7/11/2013	340000	μg/L	01_071413_09	
						Analyte detected
			7000	μg/L		between MDL and
Rachel Creek	Total Suspended Solids	7/11/2013			01_071413_09	ML
Rachel Creek	Zinc	7/11/2013		μg/L	01_071413_09	
Rachel Creek	Conductivity, Field	8/12/2013	143.1	uS/cm	01_081113_09	
Rachel Creek	pH, Field	8/12/2013	6.16	pH Units	01_081113_09	
Rachel Creek	Temperature, Field	8/12/2013	4.3		01_081113_09	
Nachel Cleek	remperature, rielu	0/12/2013	4.3		01_001113_09	Analyte detected
			8000	μg/L		between MDL and
Rachel Creek	Alkalinity (As CaCO3)	9/12/2013		, 0,	01_090813_09	ML

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Rachel Creek	Aluminum	9/12/2013	1240	μg/L	01_090813_09	
Rachel Creek	Bicarbonate (As CaCO3)	9/12/2013	8000	μg/L	01_090813_09	Analyte detected between MDL and ML
Rachel Creek	Cadmium	9/12/2013	2.0	μg/L	01_090813_09	
Rachel Creek	Calcium	9/12/2013	58800	μg/L	01_090813_09	
Rachel Creek	Carbonate (AS CaCO3)	9/12/2013	< 2000	μg/L	01_090813_09	Undetected
Rachel Creek	Chloride	9/12/2013	< 5000	μg/L	01_090813_09	Undetected
Rachel Creek	Conductivity, Field	9/12/2013	359.5	uS/cm	01_090813_09	
Rachel Creek	Iron	9/12/2013	1270	μg/L	01_090813_09	
Rachel Creek	Lead	9/12/2013	0.2	μg/L	01_090813_09	Analyte detected between MDL and ML
Rachel Creek	Magnesium	9/12/2013	38500	ug/L	01_090813_09	
Rachel Creek	pH, Field	9/12/2013	7.29	pH Units	01_090813_09	
Rachel Creek	Potassium	9/12/2013	600	μg/L	01_090813_09	Analyte detected between MDL and ML
Rachel Creek	Selenium	9/12/2013	2.7	μg/L	01_090813_09	Analyte detected between MDL and ML
Rachel Creek	Sodium	9/12/2013	4100	μg/L	01_090813_09	
Rachel Creek	Sulfate	9/12/2013	295000	μg/L	01_090813_09	
Rachel Creek	Temperature, Field	9/12/2013	2.6	°C	01_090813_09	
Rachel Creek	Total Dissolved Solids	9/12/2013	442000	μg/L	01_090813_09	
Rachel Creek	Total Suspended Solids	9/12/2013	< 5000	μg/L	01_090813_09	Undetected
Rachel Creek	Zinc	9/12/2013	433	μg/L	01_090813_09	
Rachel Creek	Alkalinity (As CaCO3)	10/18/2013	6000	μg/L	01_101313_09	Analyte detected between MDL and ML
Rachel Creek	Aluminum	10/18/2013	537	μg/L	01_101313_09	
Rachel Creek	Bicarbonate (As CaC03)	10/18/2013	6000	μg/L	01_101313_09	Analyte detected between MDL and ML
Rachel Creek	Cadmium	10/18/2013	1.8	μg/L	01_101313_09	
Rachel Creek	Calcium	10/18/2013	27900	μg/L	01_101313_09	
Rachel Creek	Carbonate (AS CaCO3)	10/18/2013	< 2000	μg/L	01_101313_09	Undetected
Rachel Creek	Chloride	10/18/2013	< 2500	μg/L	01_101313_09	Undetected
Rachel Creek	Conductivity, Field	10/18/2013	181.2	uS/cm	01_101313_09	
Rachel Creek	Iron	10/18/2013	320	μg/L	01_101313_09	
Rachel Creek	Lead	10/18/2013	0.7	μg/L	01_101313_09	
Rachel Creek	Magnesium	10/18/2013	17500	μg/L	01_101313_09	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Rachel Creek	pH, Field	10/18/2013	6.89	pH Units	01_101313_09	
Rachel Creek	Potassium	10/18/2013	400	μg/L	01_101313_09	Analyte detected between MDL and ML
Rachel Creek	Selenium	10/18/2013	2.2	μg/L	01_101313_09	Analyte detected between MDL and ML
Rachel Creek	Sodium	10/18/2013	2500	ug/l	01_101313_09	IVIL
Rachel Creek	Sulfate	10/18/2013	142000		01_101313_09	
Rachel Creek	Temperature, Field	10/18/2013		°C	01_101313_09	
Racilei Creek	remperature, rieiu	10/16/2013			01_101313_09	Analysis exceeded
Rachel Creek	Total Dissolved Solids	10/18/2013	226000		01_101313_09	method hold time
Rachel Creek	Total Suspended Solids	10/18/2013	< 5000		01_101313_09	Undetected
Rachel Creek	Zinc	10/18/2013	295	μg/L	01_101313_09	
Shelly Creek	Alkalinity (As CaC03)	5/24/2013	< 2000	μg/L	01_051213_10	Undetected
Shelly Creek	Aluminum	5/24/2013	89	μg/L	01_051213_10	
Shelly Creek	Bicarbonate (As CaC03)	5/24/2013	< 2000	μg/L	01_051213_10	Undetected
Shelly Creek	Cadmium	5/24/2013	2.9	μg/L	01_051213_10	
Shelly Creek	Calcium	5/24/2013	2100	μg/L	01_051213_10	
Shelly Creek	Carbonate (AS CaCO3)	5/24/2013	< 2000	μg/L	01_051213_10	Undetected
Shelly Creek	Chloride	5/24/2013	920	μg/L	01_051213_10	Analyte detected between MDL and ML
Shelly Creek	Conductivity, Field	5/24/2013	12.7	uS/cm	01_051213_10	
Shelly Creek	Iron	5/24/2013		μg/L	01 051213 10	
Shelly Creek	Lead	5/24/2013	105.7		01_051213_10	
Shelly Creek	Magnesium	5/24/2013		μg/L	01_051213_10	Analyte detected between MDL and ML
Shelly Creek	pH, Field	5/24/2013	5.35	pH Units	01_051213_10	
Shelly Creek	Potassium	5/24/2013	1100	μg/L	01 051213 10	Analyte detected between MDL and ML
Shelly Creek	Selenium	5/24/2013	< 1	μg/L	01 051213 10	Undetected
		· ·		μg/L		Analyte detected between MDL and
Shelly Creek	Sodium	5/24/2013	4550	/!	01_051213_10	ML
Shelly Creek	Sulfate	5/24/2013	4550		01_051213_10	
Shelly Creek	Temperature, Field	5/24/2013	5.35		01_051213_10	
Shelly Creek	Total Dissolved Solids	5/24/2013	< 10000		01_051213_10	Undetected
Shelly Creek	Total Suspended Solids	5/24/2013	< 5000		01_051213_10	Undetected
Shelly Creek	Zinc	5/24/2013	202	μg/L	01_051213_10	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
						Analyte detected
Chall Card	All all all (A. C. CO2)	6/42/2042	12000	μg/L	04 050042 40	between MDL and
Shelly Creek	Alkalinity (As CaC03)	6/13/2013	704	/1	01_060913_10	ML
Shelly Creek	Aluminum	6/13/2013	704	μg/L	01_060913_10	A soluto doto stod
			12000	uσ/I		Analyte detected between MDL and
Shelly Creek	Bicarbonate (As CaCO3)	6/13/2013	12000	μ6/ Ε	01 060913 10	ML
Shelly Creek	Cadmium	6/13/2013	0.5	μg/L	01 060913 10	
Shelly Creek	Calcium	6/13/2013	3400		01 060913 10	
Shelly Creek	Carbonate (AS CaCO3)	6/13/2013	< 2000		01_060913_10	Undetected
Shelly Creek	Chloride	6/13/2013		μg/L	01_060913_10	Analyte detected between MDL and ML
Shelly Creek	Conductivity, Field	6/13/2013	18.2	uS/cm	01_060913_10	
Shelly Creek	Iron	6/13/2013	1610		01_060913_10	
Shelly Creek	Lead	6/13/2013		μg/L	01 060913 10	
Shelly Creek	Magnesium	6/13/2013		μg/L	01 060913 10	
Shelly Creek	pH, Field	6/13/2013	6.74	pH Units	01_060913_10	
Shelly Creek	Potassium	6/13/2013	700	μg/L	01_060913_10	Analyte detected between MDL and ML
Shelly Creek	Selenium	6/13/2013	< 1	μg/L	01_060913_10	Undetected
Shelly Creek	Sodium	6/13/2013	600	μg/L	01_060913_10	Analyte detected between MDL and ML
Shelly Creek	Sulfate	6/13/2013	4660	μg/L	01_060913_10	
Shelly Creek	Temperature, Field	6/13/2013	1.1	°C	01_060913_10	
Shelly Creek	Total Dissolved Solids	6/13/2013	10000	μg/L	01_060913_10	Analyte detected between MDL and ML
Shelly Creek	Total Suspended Solids	6/13/2013	31000	ug/l	01 060913 10	IVIL
Shelly Creek	Zinc	6/13/2013		μg/L	01_060913_10	
Shelly Creek	Alkalinity (As CaCO3)	7/11/2013	36000		01 071413 10	
Shelly Creek	Aluminum	7/11/2013		μg/L	01 071413_10	
Shelly Creek	Bicarbonate (As CaC03)	7/11/2013	36000		01 071413_10	
Shelly Creek	Cadmium	7/11/2013		μg/L	01_071413_10	Analyte detected between MDL and ML
Shelly Creek	Calcium	7/11/2013	14000	μg/L	01 071413 10	
Shelly Creek	Carbonate (AS CaCO3)	7/11/2013	< 2000		01_071413_10	Undetected
Shelly Creek	Chloride	7/11/2013		μg/L	01_071413_10	Analyte detected between MDL and ML

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Shelly Creek	Conductivity, Field	7/11/2013	113.5	uS/cm	01_071413_10	
Shelly Creek	Iron	7/11/2013	170	μg/L	01_071413_10	
Shelly Creek	Lead	7/11/2013	0.8	μg/L	01_071413_10	
Shelly Creek	Magnesium	7/11/2013	7000	μg/L	01_071413_10	
			6.87	рН		
Shelly Creek	pH, Field	7/11/2013	0.67	Units	01_071413_10	
Shelly Creek	Potassium	7/11/2013	400	μg/L	01_071413_10	Analyte detected between MDL and ML
Shelly Creek	Selenium	7/11/2013		μg/L	01_071413_10	Analyte detected between MDL and ML
Shelly Creek	Sodium	7/11/2013	2400	μg/L	01_071413_10	
Shelly Creek	Sulfate	7/11/2013	63100	μg/L	01_071413_10	
Shelly Creek	Temperature, Field	7/11/2013	8.3	°C	01_071413_10	
Shelly Creek	Total Dissolved Solids	7/11/2013	80000	μg/L	01_071413_10	
Shelly Creek	<b>Total Suspended Solids</b>	7/11/2013	< 5000	μg/L	01_071413_10	Undetected
Shelly Creek	Zinc	7/11/2013	59	μg/L	01_071413_10	
Shelly Creek	Conductivity, Field	8/12/2013	66.9	uS/cm	01_081113_10	
Shelly Creek	pH, Field	8/12/2013	7.29	pH Units	01_081113_10	
Shelly Creek	Temperature, Field	8/12/2013	4.0		01_081113_10	
Shelly Creek	Alkalinity (As CaCO3)	9/12/2013	61000		01_090813_10	
Shelly Creek	Aluminum	9/12/2013		μg/L	01_090813_10	
Shelly Creek	Bicarbonate (As CaC03)	9/12/2013	61000	μg/L	01_090813_10	
Shelly Creek	Cadmium	9/12/2013		μg/L	01_090813_10	Analyte detected between MDL and ML
Shelly Creek	Calcium	9/12/2013	23600	μg/L	01_090813_10	
Shelly Creek	Carbonate (AS CaCO3)	9/12/2013	< 2000	μg/L	01_090813_10	Undetected
Shelly Creek	Chloride	9/12/2013		μg/L	01_090813_10	Analyte detected between MDL and ML
Shelly Creek	Conductivity, Field	9/12/2013	131.7	uS/cm	01_090813_10	
Shelly Creek	Iron	9/12/2013	20	μg/L	01_090813_10	Analyte detected between MDL and ML
Shelly Creek	Lead	9/12/2013	0.7	μg/L	01 090813 10	
Shelly Creek	Magnesium	9/12/2013	12400		01_090813_10	
Shelly Creek	pH, Field	9/12/2013	7.62	pH Units	01_090813_10	
Shelly Creek	Potassium	9/12/2013	400	μg/L	01_090813_10	Analyte detected between MDL and ML

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Shelly Creek	Selenium	9/12/2013	< 1	μg/L	01_090813_10	Undetected
Shelly Creek	Sodium	9/12/2013	2700	μg/L	01_090813_10	
Shelly Creek	Sulfate	9/12/2013	50500	μg/L	01_090813_10	
Shelly Creek	Temperature, Field	9/12/2013	2.2	°C	01_090813_10	
Shelly Creek	Total Dissolved Solids	9/12/2013	124000	μg/L	01_090813_10	
Shelly Creek	Total Suspended Solids	9/12/2013	< 5000	μg/L	01_090813_10	Undetected
Shelly Creek	Zinc	9/12/2013	18	μg/L	01_090813_10	
Shelly Creek	Alkalinity (As CaCO3)	10/7/2013	45000	μg/L	01_101313_10	
Shelly Creek	Aluminum	10/7/2013	54	μg/L	01_101313_10	
Shelly Creek	Bicarbonate (As CaC03)	10/7/2013	45000	μg/L	01_101313_10	
Shelly Creek	Cadmium	10/7/2013	1.5	μg/L	01_101313_10	
Shelly Creek	Calcium	10/7/2013	22800	μg/L	01_101313_10	
Shelly Creek	Carbonate (AS CaCO3)	10/7/2013	< 2000	μg/L	01_101313_10	Undetected
		/= /	540	μg/L		Analyte detected between MDL and
Shelly Creek	Chloride	10/7/2013		- 1	01_101313_10	ML
Shelly Creek	Conductivity, Field	10/7/2013		uS/cm	01_101313_10	
Shelly Creek	Iron	10/7/2013		μg/L	01_101313_10	
Shelly Creek	Lead	10/7/2013		μg/L	01_101313_10	
Shelly Creek	Magnesium	10/7/2013	10500		01_101313_10	
Shelly Creek	pH, Field	10/7/2013	6.79	pH Units	01_101313_10	
		40/7/2042	400	μg/L	04 404040 40	Analyte detected between MDL and
Shelly Creek	Potassium	10/7/2013	- 1	/1	01_101313_10	ML
Shelly Creek	Selenium Sodium	10/7/2013		μg/L	01_101313_10	Undetected
Shelly Creek		10/7/2013	4500		01_101313_10	
Shelly Creek	Sulfate	10/7/2013	63200		01_101313_10	
Shelly Creek	Temperature, Field	10/7/2013		°C	01_101313_10	
Shelly Creek	Total Dissolved Solids	10/7/2013	132000		01_101313_10	I I salata ata d
Shelly Creek	Total Suspended Solids	10/7/2013	< 5000		01_101313_10	Undetected
Shelly Creek	Zinc	10/7/2013	190	μg/L	01_101313_10	Analyte detected
Station 145	Alkalinity (As CaCO3)	5/24/2013	15000	μg/L	01_051213_11	between MDL and ML
Station 145	Aluminum	5/24/2013	72	μg/L	01 051213 11	
			15000			Analyte detected between MDL and
Station 145	Bicarbonate (As CaC03)	5/24/2013		1.	01_051213_11	ML
Station 145	Cadmium	5/24/2013		μg/L	01_051213_11	
Station 145	Calcium	5/24/2013	8700		01_051213_11	
Station 145	Carbonate (AS CaCO3)	5/24/2013	< 2000	μg/L	01_051213_11	Undetected

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
						Analyte detected
Station 145	Chloride	5/24/2013	950	μg/L	01_051213_11	between MDL and ML
Station 145	Conductivity, Field	5/24/2013	17.3	uS/cm	01_051213_11	IVIL
Station 145	Iron	5/24/2013		μg/L	01_051213_11	
Station 145	Lead	5/24/2013	240.6		01_051213_11	
Station 145	Magnesium	5/24/2013	3300		01_051213_11	
Station 145		5/24/2013	6.44	pH Units		
Station 145	pH, Field	5/24/2013		Units	01_051213_11	Analyte detected
			1000	ug/L		between MDL and
Station 145	Potassium	5/24/2013	1000	MB/ =	01_051213_11	ML
Station 145	Selenium	5/24/2013	< 1	μg/L	01 051213 11	Undetected
Station 145	Sodium	5/24/2013	2500		01_051213_11	
Station 145	Sulfate	5/24/2013	25840	μg/L	01_051213_11	
Station 145	Temperature, Field	5/24/2013	0	°C	01_051213_11	
Station 145	Total Dissolved Solids	5/24/2013	40000	μg/L	01_051213_11	
Station 145	Total Suspended Solids	5/24/2013	< 5000		01_051213_11	Undetected
Station 145	Zinc	5/24/2013	599	μg/L	01_051213_11	
Station 145	Alkalinity (As CaCO3)	6/13/2013	4000	μg/L	01_060913_11	Analyte detected between MDL and ML
Station 145	Aluminum	6/13/2013	1290	ug/l	01_060913_11	IVIL
3tation 145	Alullillulli	0/13/2013	1230	μg/ L	01_000915_11	Analyte detected
Station 145	Bicarbonate (As CaC03)	6/13/2013	4000	μg/L	01_060913_11	between MDL and ML
Station 145	Cadmium	6/13/2013	3.3	μg/L	01_060913_11	
Station 145	Calcium	6/13/2013	5400	μg/L	01_060913_11	
Station 145	Carbonate (AS CaCO3)	6/13/2013	< 2000	μg/L	01_060913_11	Undetected
Station 145	Chloride	6/13/2013	620	μg/L	01_060913_11	Analyte detected between MDL and ML
Station 145	Conductivity, Field	6/13/2013	31.1	uS/cm	01_060913_11	
Station 145	Iron	6/13/2013	2210	μg/L	01_060913_11	
Station 145	Lead	6/13/2013	106.6	μg/L	01_060913_11	
Station 145	Magnesium	6/13/2013	2800	μg/L	01_060913_11	
Station 145	pH, Field	6/13/2013	6.49	pH Units	01_060913_11	
Station 145	Potassium	6/13/2013	900	μg/L	01_060913_11	Analyte detected between MDL and ML
Station 145	Selenium	6/13/2013	< 1	μg/L	01_060913_11	Undetected

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
				,,		Analyte detected
Station 145	Sodium	6/13/2013	700	μg/L	01_060913_11	between MDL and ML
Station 145	Sulfate	6/13/2013	17900	πα/Ι	01 060913_11	IVIL
Station 145	Temperature, Field	6/13/2013	0.6		01_060913_11	
Station 145	Total Dissolved Solids	6/13/2013	40000		01_060913_11	
Station 145	Total Suspended Solids	6/13/2013	29000		01 060913 11	
Station 145	Zinc	6/13/2013		μg/L	01_060913_11	
Station 145	Alkalinity (As CaC03)	7/11/2013	34000		01 071413 11	
Station 145	Aluminum	7/11/2013		μg/L	01 071413_11	
Station 145	Bicarbonate (As CaCO3)	7/11/2013	34000		01_071413_11	
Station 145	Cadmium	7/11/2013		μg/L	01_071413_11	
Station 145	Calcium	7/11/2013	41900		01 071413_11	
Station 145	Carbonate (AS CaCO3)	7/11/2013	< 2000		01 071413_11	Undetected
Station 145	Chloride	7/11/2013	< 2500		01_071413_11	Undetected
Station 145	Conductivity, Field	7/11/2013		uS/cm	01 071413_11	Onactected
Station 145	Iron	7/11/2013		μg/L	01 071413_11	Undetected
Station 145	Lead	7/11/2013		μg/L	01_071413_11	Onacteted
Station 145	Magnesium	7/11/2013	21400		01_071413_11	
Station 143	Widgitestatti	7/11/2013		рН	01_0/1415_11	
Station 145	pH, Field	7/11/2013	6.16	Units	01_071413_11	
Station 145	Potassium	7/11/2013	500	μg/L	01_071413_11	Analyte detected between MDL and ML
			3.0	μg/L		Analyte detected between MDL and
Station 145	Selenium	7/11/2013			01_071413_11	ML
Station 145	Sodium	7/11/2013	4900	μg/L	01_071413_11	
Station 145	Sulfate	7/11/2013	173000	μg/L	01_071413_11	
Station 145	Temperature, Field	7/11/2013	8.3	°C	01_071413_11	
Station 145	Total Dissolved Solids	7/11/2013	270000	μg/L	01_071413_11	
Station 145	Total Suspended Solids	7/11/2013	< 5000	μg/L	01_071413_11	Undetected
Station 145	Zinc	7/11/2013	3030	μg/L	01_071413_11	
Station 145	Conductivity, Field	8/12/2013	187.3	uS/cm	01_081113_11	
Station 145	pH, Field	8/12/2013	6.99	pH Units	01_081113_11	
Station 145	Temperature, Field	8/12/2013	5.0	°C	01_081113_11	
Station 145	Alkalinity (As CaC03)	9/12/2013	49000	μg/L	01_090813_11	
Station 145	Aluminum	9/12/2013	295	μg/L	01_090813_11	
Station 145	Bicarbonate (As CaC03)	9/12/2013	49000	μg/L	01_090813_11	
Station 145	Cadmium	9/12/2013	18.1	μg/L	01_090813_11	
Station 145	Calcium	9/12/2013	62200	μg/L	01_090813_11	
Station 145	Carbonate (AS CaCO3)	9/12/2013	< 2000	μg/L	01_090813_11	Undetected

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Station 145	Chloride	9/12/2013	< 2500	μg/L	01_090813_11	Undetected
Station 145	Conductivity, Field	9/12/2013	343.6	uS/cm	01_090813_11	
Station 145	Iron	9/12/2013	50	μg/L	01_090813_11	
Station 145	Lead	9/12/2013	44.2	μg/L	01_090813_11	
Station 145	Magnesium	9/12/2013	32700	μg/L	01_090813_11	
Station 145	pH, Field	9/12/2013	7.53	pH Units	01_090813_11	
Station 145	pri, ricia	3/12/2013		Offics	01_030013_11	Analyte detected
			600	μg/L		between MDL and
Station 145	Potassium	9/12/2013		, 0.	01_090813_11	ML
Station 145	Selenium	9/12/2013	2.1	μg/L	01_090813_11	Analyte detected between MDL and ML
Station 145	Sodium	9/12/2013	6200	μg/L	01_090813_11	
Station 145	Sulfate	9/12/2013	257000		01_090813_11	
Station 145	Temperature, Field	9/12/2013	2.8		01 090813 11	
Station 145	Total Dissolved Solids	9/12/2013	408000	μg/L	01 090813 11	
Station 145	Total Suspended Solids	9/12/2013	< 5000		01_090813_11	Undetected
Station 145	Zinc	9/12/2013	4330		01 090813 11	
Station 145	Alkalinity (As CaCO3)	10/7/2013	64000		01_101313_11	
Station 145	Aluminum	10/7/2013	16	μg/L	01_101313_11	
Station 145	Bicarbonate (As CaCO3)	10/7/2013	64000	μg/L	01_101313_11	
Station 145	Cadmium	10/7/2013	9.3	μg/L	01_101313_11	
Station 145	Calcium	10/7/2013	62100	μg/L	01_101313_11	
Station 145	Carbonate (AS CaCO3)	10/7/2013	< 2000	μg/L	01_101313_11	Undetected
Station 145	Chloride	10/7/2013	< 2500	μg/L	01_101313_11	Undetected
Station 145	Conductivity, Field	10/7/2013	315.5	uS/cm	01_101313_11	
Station 145	Iron	10/7/2013	< 20	μg/L	01_101313_11	Undetected
Station 145	Lead	10/7/2013	4.5	μg/L	01_101313_11	
Station 145	Magnesium	10/7/2013	31400	μg/L	01_101313_11	
Station 145	pH, Field	10/7/2013	6.73	pH Units	01_101313_11	
Station 145	Potassium	10/7/2013	600	μg/L	01_101313_11	Analyte detected between MDL and ML
Station 145	Selenium	10/7/2013	2.1	μg/L	01_101313_11	Analyte detected between MDL and ML
Station 145	Sodium	10/7/2013	9000	110/1	01_101313_11	IVIL
Station 145	Sulfate	10/7/2013	230000		01_101313_11	
Station 145	Temperature, Field	10/7/2013		°C	01_101313_11	
Station 145	Total Dissolved Solids	10/7/2013	402000		01_101313_11	
	Total Suspended Solids	10/7/2013	< 5000		01_101313_11	Undetected
Station 145	Total Suspended Solids	10///2013	< J000	μg/ L	01_101313_11	Undetected

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Station 145	Zinc	10/7/2013	3600	μg/L	01_101313_11	
Station 150	Alkalinity (As CaCO3)	5/26/2013	21000	μg/L	13_050713_03	
Station 150	Aluminum	5/26/2013	101	μg/L	13_050713_03	
Station 150	Bicarbonate (As CaC03)	5/26/2013	21000	μg/L	13_050713_03	
Station 150	Cadmium	5/26/2013	5.0	μg/L	13_050713_03	
Station 150	Calcium	5/26/2013	66000	μg/L	13_050713_03	
Station 150	Carbonate (AS CaCO3)	5/26/2013	< 2000	μg/L	13_050713_03	Undetected
Station 150	Chloride	5/26/2013	< 2500	μg/L	13_050713_03	Undetected
Station 150	Conductivity, Field	5/26/2013	243.7	uS/cm	13_050713_03	
Station 150	Iron	5/26/2013	510	μg/L	13_050713_03	
Station 150	Lead	5/26/2013	61.9	μg/L	13_050713_03	
Station 150	Magnesium	5/26/2013	10300	μg/L	13_050713_03	
			7.38	рН		
Station 150	pH, Field	5/26/2013		Units	13_050713_03	
Station 150	Potassium	5/26/2013	2400	μg/L	13_050713_03	
Station 150	Selenium	5/26/2013	< 1	μg/L	13_050713_03	Undetected
Station 150	Sodium	5/26/2013	7400		13_050713_03	
Station 150	Sulfate	5/26/2013	186570		13_050713_03	
Station 150	Temperature, Field	5/26/2013	0	°C	13_050713_03	
Station 150	Total Dissolved Solids	5/26/2013	320000	μg/L	13_050713_03	Analysis exceeded method hold time
Station 150	Total Suspended Solids	5/26/2013	5000	μg/L	13_050713_03	Analyte detected between MDL and ML
Station 150	Zinc	5/26/2013	492	μg/L	13_050713_03	1412
Station 150	Conductivity, Field	5/27/2013		uS/cm	12_052113_05	
Station 150	pH, Field	5/27/2013	7.17	pH Units	12_052113_05	
Station 150	Temperature, Field	5/27/2013	0	°C	12_052113_05	
Station 150	Total Dissolved Solids	5/27/2013	300000	μg/L	12_052113_05	
Station 150	Alkalinity (As CaCO3)	6/3/2013	22000	μg/L	13_060413_03	
Station 150	Aluminum	6/3/2013	485	μg/L	13_060413_03	
Station 150	Bicarbonate (As CaC03)	6/3/2013	22000	μg/L	13_060413_03	
Station 150	Cadmium	6/3/2013	0.8	μg/L	13_060413_03	
Station 150	Calcium	6/3/2013	28000	μg/L	13_060413_03	
Station 150	Carbonate (AS CaCO3)	6/3/2013	< 2000	μg/L	13_060413_03	Undetected
			860	μg/L		Analyte detected between MDL and
Station 150	Chloride	6/3/2013		, 0,	13_060413_03	ML
Station 150	Conductivity, Field	6/3/2013	114.3	uS/cm	13_060413_03	
Station 150	Iron	6/3/2013	1200	μg/L	13_060413_03	
Station 150	Lead	6/3/2013		μg/L	13_060413_03	

Location	Analyte	Sample	Result	Unit	Sample	Qualifier Comment
Station 150	Magnasium	Date 6/2/2012	5000	ug/l	Number	
Station 150	Magnesium	6/3/2013		рН	13_060413_03	
Station 150	pH, Field	6/3/2013	7.34	Units	13 060413 03	
Station 150	Potassium	6/3/2013	< 2000		13 060413 03	Undetected
Station 150	Selenium	6/3/2013		μg/L	13 060413 03	Undetected
0.000.000		0,0,2020	3000			Analyte detected between MDL and
Station 150	Sodium	6/3/2013			13_060413_03	ML
Station 150	Sulfate	6/3/2013	73800	μg/L	13_060413_03	
Station 150	Temperature, Field	6/3/2013	0.7	°C	13_060413_03	
Station 150	<b>Total Dissolved Solids</b>	6/3/2013	130000	μg/L	13_060413_03	
		5 10 100 10	14000	μg/L		Analyte detected between MDL and
Station 150	Total Suspended Solids	6/3/2013	444	- /1	13_060413_03	ML
Station 150	Zinc	6/3/2013		μg/L	13_060413_03	
Station 150	Conductivity, Field	6/10/2013	259.7	uS/cm	12_061113_03	
Station 150	pH, Field	6/10/2013	7.53	pH Units	12_061113_03	
Station 150	Temperature, Field	6/10/2013	1.1		12 061113 03	
Station 150	Total Dissolved Solids	6/10/2013	334000	μg/L	12_061113_03	
Station 150	Conductivity, Field	6/17/2013		uS/cm	12 061813 05	
Station 150	pH, Field	6/17/2013	7.52	pH Units	12_061813_05	
Station 150	Temperature, Field	6/17/2013	5.9	°C	12_061813_05	
Station 150	Total Dissolved Solids	6/17/2013	250000	μg/L	12_061813_05	
Station 150	Conductivity, Field	6/24/2013	382.1	uS/cm	12_062513_03	
Station 150	pH, Field	6/24/2013	7.85	pH Units	12_062513_03	
Station 150	Temperature, Field	6/24/2013	6.7		12_062513_03	
Station 150	Total Dissolved Solids	6/24/2013	420000	μg/L	12_062513_03	
Station 150	Alkalinity (As CaCO3)	7/6/2013	63000	μg/L	13_070213_03	
Station 150	Aluminum	7/6/2013	420	μg/L	13_070213_03	
Station 150	Bicarbonate (As CaC03)	7/6/2013	63000	μg/L	13_070213_03	
Station 150	Cadmium	7/6/2013	0.8	μg/L	13_070213_03	
Station 150	Calcium	7/6/2013	65800	μg/L	13_070213_03	
Station 150	Carbonate (AS CaCO3)	7/6/2013	< 2000	μg/L	13_070213_03	Undetected
			3110	μg/L		Analyte detected between MDL and
Station 150	Chloride	7/6/2013		0.1	13_070213_03	ML
Station 150	Conductivity, Field	7/6/2013		uS/cm	13_070213_03	
Station 150	Iron	7/6/2013		μg/L	13_070213_03	
Station 150	Lead	7/6/2013		μg/L	13_070213_03	
Station 150	Magnesium	7/6/2013	12400	μg/L	13_070213_03	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Station 150	pH, Field	7/6/2013	7.70	pH Units	13_070213_03	
Station 150	Potassium	7/6/2013	1300	μg/L	13_070213_03	Analyte detected between MDL and ML
			1.3	μg/L		Analyte detected between MDL and
Station 150	Selenium	7/6/2013			13_070213_03	ML
Station 150	Sodium	7/6/2013	6100		13_070213_03	
Station 150	Sulfate	7/6/2013	159000	μg/L	13_070213_03	
Station 150	Temperature, Field	7/6/2013	5.7	°C	13_070213_03	
Station 150	Total Dissolved Solids	7/6/2013	260000	μg/L	13_070213_03	
Station 150	<b>Total Suspended Solids</b>	7/6/2013	25000	μg/L	13_070213_03	
Station 150	Zinc	7/6/2013	150	μg/L	13_070213_03	
Station 150	Conductivity, Field	7/8/2013	423.8	uS/cm	12_070913_03	
Station 150	pH, Field	7/8/2013	7.70	pH Units	12_070913_03	
Station 150	Temperature, Field	7/8/2013	7.3	°C	12_070913_03	
Station 150	Total Dissolved Solids	7/8/2013	440000	μg/L	12_070913_03	
Station 150	Conductivity, Field	7/15/2013	351.0	uS/cm	12_071613_05	
Station 150	pH, Field	7/15/2013	8.01	pH Units	12_071613_05	
Station 150	Temperature, Field	7/15/2013	11.3	°C	12_071613_05	
Station 150	Total Dissolved Solids	7/15/2013	430000	μg/L	12_071613_05	Analysis exceeded method hold time
Station 150	Conductivity, Field	7/22/2013	449.8	uS/cm	12_072313_03	
Station 150	pH, Field	7/22/2013	7.85	pH Units	12_072313_03	
Station 150	Temperature, Field	7/22/2013	7.6	°C	12_072313_03	
Station 150	Total Dissolved Solids	7/22/2013	510000	μg/L	12_072313_03	
Station 150	Conductivity, Field	7/29/2013	371.7	uS/cm	12_072913_03	
Station 150	pH, Field	7/29/2013	8.07	pH Units	12_072913_03	
Station 150	Temperature, Field	7/29/2013	7.6	°C	12_072913_03	
Station 150	<b>Total Dissolved Solids</b>	7/29/2013	394000	μg/L	12_072913_03	
Station 150	Alkalinity (As CaCO3)	8/5/2013	65000	μg/L	13_080613_03	
Station 150	Aluminum	8/5/2013	468	μg/L	13_080613_03	
Station 150	Bicarbonate (As CaC03)	8/5/2013	65000	μg/L	13_080613_03	
Station 150	Cadmium	8/5/2013	1.0	μg/L	13_080613_03	
Station 150	Calcium	8/5/2013	68900	μg/L	13_080613_03	
Station 150	Carbonate (AS CaCO3)	8/5/2013	< 2000	μg/L	13_080613_03	Undetected
Station 150	Chloride	8/5/2013	3140	μg/L	13_080613_03	Analyte detected between MDL and ML

Location	Analyte	Sample	Result	Unit	Sample	Qualifier Comment
		Date			Number	Quaimer Comment
Station 150	Conductivity, Field	8/5/2013		uS/cm	13_080613_03	
Station 150	Iron	8/5/2013		μg/L	13_080613_03	
Station 150	Lead	8/5/2013	10.1	μg/L	13_080613_03	
Station 150	Magnesium	8/5/2013	14100	μg/L	13_080613_03	
		- 1- 1	7.87	рН		
Station 150	pH, Field	8/5/2013		Units	13_080613_03	A 1 - 1 - 1 - 1 - 1 - 1
			1100	ug/l		Analyte detected between MDL and
Station 150	Potassium	8/5/2013	1100	μg/ L	13_080613_03	ML ML
Station 130	1 0 (435)4111	0/5/2015			13_000013_03	Analyte detected
			1.3	μg/L		between MDL and
Station 150	Selenium	8/5/2013		, 0.	13_080613_03	ML
Station 150	Sodium	8/5/2013	5900	μg/L	13_080613_03	
Station 150	Sulfate	8/5/2013	164000	μg/L	13_080613_03	
Station 150	Temperature, Field	8/5/2013	6.6	°C	13_080613_03	
Station 150	Total Dissolved Solids	8/5/2013	296000	μg/L	13_080613_03	
						Analyte detected
			17000	μg/L		between MDL and
Station 150	Total Suspended Solids	8/5/2013			13_080613_03	ML
Station 150	Zinc	8/5/2013		μg/L	13_080613_03	
Station 150	Conductivity, Field	8/12/2013	243.2	uS/cm	12_081313_03	
6 450	u et li	0/40/2040	7.76	pH	12 001010 00	
Station 150	pH, Field	8/12/2013	F 1	Units	12_081313_03	
Station 150	Temperature, Field	8/12/2013	5.1		12_081313_03	
Station 150	Total Dissolved Solids	8/12/2013	280000		12_081313_03	
Station 150	Conductivity, Field	8/19/2013	501.0	uS/cm	12_082013_05	
Station 150	pH, Field	8/19/2013	8.01	pH Units	12_082013_05	
Station 150	Temperature, Field	8/19/2013	7.7		12_082013_05	
Station 150	Total Dissolved Solids	8/19/2013	546000		12 082013_05	
Station 150	Conductivity, Field	8/26/2013		uS/cm	12_082013_03	
Station 150	Conductivity, Field	8/20/2013		pH	12_082713_03	
Station 150	pH, Field	8/26/2013	8.04	Units	12 082713 03	
Station 150	Temperature, Field	8/26/2013	4.6		12_082713_03	
Station 150	Total Dissolved Solids	8/26/2013	540000	μg/L	12_082713_03	
Station 150	Alkalinity (As CaCO3)	9/2/2013	93000		13_090313_03	
Station 150	Aluminum	9/2/2013		μg/L	13_090313_03	
Station 150	Bicarbonate (As CaC03)	9/2/2013	93000		13_090313_03	
Station 150	Cadmium	9/2/2013		μg/L	13_090313_03	
Station 150	Calcium	9/2/2013	128000		13_090313_03	
Station 150	Carbonate (AS CaCO3)	9/2/2013	< 2000		13_090313_03	Undetected
Station 150	Chloride	9/2/2013	< 5000		13_090313_03	Undetected
Station 150	Conductivity, Field	9/2/2013		uS/cm	13 090313_03	Jinactedtea
Station 130	Conductivity, Ficia	3,2,2013	1 10.0	30, 5111	13_030313_03	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Station 150	Iron	9/2/2013	200	μg/L	13_090313_03	
Station 150	Lead	9/2/2013	0	μg/L	13_090313_03	
Station 150	Magnesium	9/2/2013	25000	μg/L	13_090313_03	
Station 150	pH, Field	9/2/2013	7.87	pH Units	13_090313_03	
Station 150	Potassium	9/2/2013	1000	μg/L	13_090313_03	Analyte detected between MDL and ML
Station 150	Selenium	9/2/2013		μg/L	13_090313_03	Analyte detected between MDL and ML
Station 150	Sodium	9/2/2013	10000		13_090313_03	
Station 150	Sulfate	9/2/2013	330000		13_090313_03	
Station 150	Temperature, Field	9/2/2013	1.3	°C	13_090313_03	
Station 150	Total Dissolved Solids	9/2/2013	602000	μg/L	13_090313_03	Analysis exceeded method hold time
Station 150	Total Suspended Solids	9/2/2013	< 5000	μg/L	13_090313_03	
Station 150	Zinc	9/2/2013	310	μg/L	13_090313_03	
Station 150	Conductivity, Field	9/9/2013	475.0	uS/cm	12_091013_03	
Station 150	pH, Field	9/9/2013	8.01	pH Units	12_091013_03	
Station 150	Temperature, Field	9/9/2013	5.2	°C	12_091013_03	
Station 150	Total Dissolved Solids	9/9/2013	580000	μg/L	12_091013_03	
Station 150	Conductivity, Field	9/16/2013	463.8	uS/cm	12_091713_05	
Station 150	pH, Field	9/16/2013	8.16	pH Units	12_091713_05	
Station 150	Temperature, Field	9/16/2013	1.6	°C	12_091713_05	
Station 150	<b>Total Dissolved Solids</b>	9/16/2013	582000	μg/L	12_091713_05	
Station 150	Conductivity, Field	9/23/2013	257	uS/cm	12_092313_05	
Station 150	pH, Field	9/23/2013	7.99	pH Units	12_092313_05	
Station 150	Temperature, Field	9/23/2013	0	°C	12_092313_05	
Station 150	Total Dissolved Solids	9/23/2013	312000	μg/L	12_092313_05	
Station 150	Alkalinity (As CaC03)	10/1/2013	108000	μg/L	13_100113_03	
Station 150	Aluminum	10/1/2013	57	μg/L	13_100113_03	
Station 150	Bicarbonate (As CaC03)	10/1/2013	108000	μg/L	13_100113_03	
Station 150	Cadmium	10/1/2013	1.2	μg/L	13_100113_03	
Station 150	Calcium	10/1/2013	78100	μg/L	13_100113_03	
Station 150	Carbonate (AS CaCO3)	10/1/2013	< 2000	μg/L	13_100113_03	Undetected
Station 150	Chloride	10/1/2013	< 5000	μg/L	13_100113_03	Undetected
Station 150	Conductivity, Field	10/1/2013	279	uS/cm	13_100113_03	
Station 150	Iron	10/1/2013	340	μg/L	13_100113_03	
Station 150	Lead	10/1/2013	0.6	μg/L	13_100113_03	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Station 150	Magnesium	10/1/2013	23300	μg/L	13 100113 03	
Station 150	pH, Field	10/1/2013	7.72	pH Units	13_100113_03	
Station 150	Potassium	10/1/2013	600	μg/L	13_100113_03	Analyte detected between MDL and ML
Station 150	Selenium	10/1/2013	1.8	μg/L	13_100113_03	Analyte detected between MDL and ML
Station 150	Sodium	10/1/2013	4900	μg/L	13_100113_03	
Station 150	Sulfate	10/1/2013	161000	μg/L	13_100113_03	
Station 150	Temperature, Field	10/1/2013	0.01	°C	13_100113_03	
Station 150	Total Dissolved Solids	10/1/2013	386000	μg/L	13_100113_03	
Station 150	Total Suspended Solids	10/1/2013	< 5000	μg/L	13_100113_03	Undetected
Station 150	Zinc	10/1/2013	284	μg/L	13_100113_03	
Station 150	Conductivity, Field	10/7/2013	287.6	uS/cm	12_100813_03	
Station 150	pH, Field	10/7/2013	7.53	pH Units	12 100813 03	
Station 150	Temperature, Field	10/7/2013	0	°C	12 100813 03	
Station 150	Total Dissolved Solids	10/7/2013	345000	μg/L	12_100813_03	
Station 150	Conductivity, Field	10/14/2013	281.1	uS/cm	12 102213 03	
Station 150	pH, Field	10/14/2013	7.84	pH Units	12_102213_03	
Station 150	Temperature, Field	10/14/2013	0	°C	12_102213_03	
Station 150	Total Dissolved Solids	10/14/2013	348000	μg/L	12_102213_03	
Station 9	Alkalinity (As CaCO3)	5/26/2013	23000	μg/L	01_051213_12	
Station 9	Aluminum	5/26/2013	168	μg/L	01_051213_12	
Station 9	Bicarbonate (As CaC03)	5/26/2013	23000	μg/L	01_051213_12	
Station 9	Cadmium	5/26/2013	1.5	μg/L	01_051213_12	
Station 9	Calcium	5/26/2013	12500	μg/L	01_051213_12	
Station 9	Carbonate (AS CaCO3)	5/26/2013	< 2000	μg/L	01_051213_12	Undetected
		- 1 1	920	μg/L		Analyte detected between MDL and
Station 9	Chloride	5/26/2013		- 1	01_051213_12	ML
Station 9	Conductivity, Field	5/26/2013		uS/cm	01_051213_12	
Station 9	Iron	5/26/2013	1050		01_051213_12	
Station 9	Lead	5/26/2013		μg/L	01_051213_12	
Station 9	Magnesium	5/26/2013	6200	μg/L	01_051213_12	
Station 9	pH, Field	5/26/2013	7.36	pH Units	01_051213_12	
Station 9	Potassium	5/26/2013	1200	μg/L	01_051213_12	Analyte detected between MDL and ML

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Station 9	Selenium	5/26/2013	< 1	μg/L	01_051213_12	Undetected
Station 9	Sodium	5/26/2013	1300	μg/L	01_051213_12	Analyte detected between MDL and ML
Station 9	Sulfate	5/26/2013	38910	μg/L	01_051213_12	
Station 9	Temperature, Field	5/26/2013	0.1	°C	01_051213_12	
Station 9	Total Dissolved Solids	5/26/2013	90000	μg/L	01_051213_12	Analysis exceeded method hold time
Station 9	Total Suspended Solids	5/26/2013	< 5000	μg/L	01_051213_12	
Station 9	Zinc	5/26/2013	456	μg/L	01_051213_12	
Station 9	Alkalinity (As CaCO3)	5/27/2013	21000	μg/L	01_052613_08	
Station 9	Aluminum	5/27/2013	132	μg/L	01_052613_08	
Station 9	Bicarbonate (As CaCO3)	5/27/2013	21000	μg/L	01_052613_08	
Station 9	Cadmium	5/27/2013	0.5	μg/L	01_052613_08	
Station 9	Calcium	5/27/2013	10000	μg/L	01_052613_08	
Station 9	Carbonate (AS CaCO3)	5/27/2013	< 2000	μg/L	01_052613_08	Undetected
Station 0	Chloride	F /27/2012	750	μg/L	01 052612 09	Analyte detected between MDL and
Station 9		5/27/2013	EO 2	uS/cm	01_052613_08	ML
Station 9	Conductivity, Field	5/27/2013			01_052613_08	
Station 9	Iron	5/27/2013		μg/L	01_052613_08	
Station 9	Lead	5/27/2013		μg/L	01_052613_08	
Station 9	Magnesium	5/27/2013	4100		01_052613_08	
Station 9	pH, Field	5/27/2013	7.17	pH Units	01_052613_08	Analysis datasets d
Station 9	Potassium	5/27/2013	1100		01_052613_08	Analyte detected between MDL and ML
Station 9	Selenium	5/27/2013	< 1	μg/L	01_052613_08	Undetected
Station 9	Sodium	5/27/2013	1000	μg/L	01_052613_08	Analyte detected between MDL and ML
Station 9	Sulfate	5/27/2013	22250	μg/L	01_052613_08	
Station 9	Temperature, Field	5/27/2013	0.1	°C	01_052613_08	
Station 9	Total Dissolved Solids	5/27/2013	60000	μg/L	01 052613 08	
Station 9	Total Suspended Solids	5/27/2013	< 5000		01 052613 08	Undetected
Station 9	Zinc	5/27/2013		μg/L	01 052613 08	
Station 9	Alkalinity (As CaCO3)	6/7/2013	34000		01_060913_12	
Station 9	Aluminum	6/7/2013		μg/L	01_060913_12	
Station 9	Bicarbonate (As CaCO3)	6/7/2013	34000		01_060913_12	
Station 9	Cadmium	6/7/2013		μg/L	01_060913_12	
Station 9	Calcium	6/7/2013	14700		01_060913_12	
Station 9	Carbonate (AS CaCO3)	6/7/2013	< 2000		01 060913 12	Undetected
		-, ,				

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Station 9	Chloride	6/7/2013	< 500	μg/L	01_060913_12	Undetected
Station 9	Conductivity, Field	6/7/2013	68.4	uS/cm	01_060913_12	
Station 9	Iron	6/7/2013	900	μg/L	01_060913_12	
Station 9	Lead	6/7/2013	1.5	μg/L	01_060913_12	
Station 9	Magnesium	6/7/2013	5500	μg/L	01_060913_12	
Station 9	pH, Field	6/7/2013	7.43	pH Units	01_060913_12	
Station 9	Potassium	6/7/2013	500	μg/L	01_060913_12	Analyte detected between MDL and ML
Station 9	Selenium	6/7/2013	< 1	μg/L	01_060913_12	Undetected
Station 9	Sodium	6/7/2013	1000		01_060913_12	Analyte detected between MDL and ML
Station 9	Sulfate	6/7/2013	28000	μg/L	01_060913_12	
Station 9	Temperature, Field	6/7/2013	0.4	°C	01_060913_12	
Station 9	Total Dissolved Solids	6/7/2013	70000	μg/L	01_060913_12	
Station 9	Total Suspended Solids	6/7/2013	7000	μg/L	01_060913_12	Analyte detected between MDL and ML
Station 9	Zinc	6/7/2013	170	μg/L	01_060913_12	
Station 9	Alkalinity (As CaCO3)	6/20/2013	48000	μg/L	01_062313_08	
Station 9	Aluminum	6/20/2013	159	μg/L	01_062313_08	
Station 9	Bicarbonate (As CaC03)	6/20/2013	48000	μg/L	01_062313_08	
Station 9	Cadmium	6/20/2013	0.4	μg/L	01_062313_08	Analyte detected between MDL and ML
Station 9	Calcium	6/20/2013	20200	μg/L	01_062313_08	
Station 9	Carbonate (AS CaCO3)	6/20/2013	< 2000	μg/L	01_062313_08	Undetected
Station 9	Chloride	6/20/2013	660	μg/L	01_062313_08	Analyte detected between MDL and ML
Station 9	Conductivity, Field	6/20/2013	110.4	uS/cm	01_062313_08	
Station 9	Iron	6/20/2013	430	μg/L	01_062313_08	
Station 9	Lead	6/20/2013	0.7	μg/L	01_062313_08	
Station 9	Magnesium	6/20/2013	7300	μg/L	01_062313_08	
Station 9	pH, Field	6/20/2013	7.46	pH Units	01_062313_08	
Station 9	Potassium	6/20/2013	400	μg/L	01_062313_08	Analyte detected between MDL and ML
Station 9	Selenium	6/20/2013	< 1	μg/L	01_062313_08	Undetected

Station 9   Sodium   G/20/2013   33700 µg/L   01_062313_08   MIL   Station 9   Sulfate   G/20/2013   33700 µg/L   01_062313_08   MIL   Station 9   Temperature, Field   G/20/2013   7.8 °C   01_062313_08   MIL   Station 9   Total Dissolved Solids   G/20/2013   7.8 °C   01_062313_08   MIL   Station 9   Total Suspended Solids   G/20/2013   7.8000 µg/L   01_062313_08   MIL   Station 9   Total Suspended Solids   G/20/2013   5.0000 µg/L   01_062313_08   MIL   Station 9   Zinc   G/20/2013   8.9 µg/L   01_062313_08   MIL   Station 9   Alkalinity (As CaC03)   7/5/2013   71000 µg/L   01_071413_12   MIL   Station 9   Alkalinity (As CaC03)   7/5/2013   71000 µg/L   01_071413_12   MIL   Station 9   Bicarbonate (As CaC03)   7/5/2013   71000 µg/L   01_071413_12   MIL   Station 9   Cadmium   7/5/2013   2.9600 µg/L   01_071413_12   MIL   Station 9   Carbonate (As CaC03)   7/5/2013   2.2000 µg/L   01_071413_12   MIL   Station 9   Carbonate (As CaC03)   7/5/2013   2.2000 µg/L   01_071413_12   MIL   Station 9   Chloride   7/5/2013   2.2000 µg/L   01_071413_12   MIL   Station 9   Chloride   7/5/2013   3400 µg/L   01_071413_12   MIL   Station 9   Conductivity, Field   7/5/2013   3400 µg/L   01_071413_12   MIL   Station 9   Magnesium   7/5/2013   3400 µg/L   01_071413_12   MIL   Station 9   PH, Field   7/5/2013   3400 µg/L   01_071413_12   MIL   Station 9   PH, Field   7/5/2013   3400 µg/L   01_071413_12   MIL   Station 9   Sodium   7/5/2013   3400 µg/L   01_071413_12   MIL   Station 9   Sodium   7/5/2013   3700 µg/L   01_071413_12   MIL   Station 9   Sulfate   7/5/2013   3700 µg/L   01_071413_12   MIL   Station 9   Sulfate   7/5/2013   3700 µg/L   01_071413_12   MIL   Station 9   Total Dissolved Solids   7/5/2013   3700 µg/L   01_071413_12   MIL   Station 9   Total Dissolved Solids   7/5/2013   35000 µg/L   01_071413_12   MIL   Station 9   Total Dissolved Solids   7/5/2013   35000 µg/L   01_071413_12   MIL   Station 9   Aluminum   7/29/2013   35000 µg/L   01_071413_12   MIL   Station 9   Aluminum   7/29/2013   35000 µg/L   01_07141	Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Station 9   Sodium   6/20/2013   3370 μg/L   01_062313_08   NL   Station 9   Sulfate   6/20/2013   33700 μg/L   01_062313_08   Station 9   Temperature, Field   6/20/2013   110000 μg/L   01_062313_08   Station 9   Total Dissolved Solids   6/20/2013   110000 μg/L   01_062313_08   Station 9   Zinc   6/20/2013   <5000 μg/L   01_062313_08   Station 9   Zinc   6/20/2013   75000 μg/L   01_062313_08   Station 9   Zinc   6/20/2013   75000 μg/L   01_062313_08   Station 9   Alkalinity (As CaC03)   7/5/2013   71000 μg/L   01_071413_12   Station 9   Alkalinity (As CaC03)   7/5/2013   71000 μg/L   01_071413_12   Station 9   Bicarbonate (As CaC03)   7/5/2013   71000 μg/L   01_071413_12   Station 9   Cadhium   7/5/2013   29600 μg/L   01_071413_12   Station 9   Carbonate (As CaC03)   7/5/2013   29600 μg/L   01_071413_12   Station 9   Carbonate (As CaC03)   7/5/2013   29600 μg/L   01_071413_12   Undetected between MDL and betwe					1.		·
Station 9   Sulfate   6/20/2013   33700 μg/L   01_062313_08   Station 9   Total Dissolved Solids   6/20/2013   17.8 °C   01_062313_08   Station 9   Total Dissolved Solids   6/20/2013   17.000 μg/L   01_062313_08   Station 9   Total Suspended Solids   6/20/2013   89 μg/L   01_062313_08   Undetected   Station 9   Zinc   6/20/2013   89 μg/L   01_062313_08   Undetected   Station 9   Alkalinity (As CaC03)   7/5/2013   71000 μg/L   01_071413_12   Station 9   Aluminum   7/5/2013   71000 μg/L   01_071413_12   Station 9   Bicarbonate (As CaC03)   7/5/2013   71000 μg/L   01_071413_12   Station 9   Cadmium   7/5/2013   71000 μg/L   01_071413_12   Station 9   Carbonate (As CaC03)   7/5/2013   74000 μg/L   01_071413_12   Station 9   Carbonate (As CaC03)   7/5/2013   29600 μg/L   01_071413_12   Station 9   Carbonate (As CaC03)   7/5/2013   29600 μg/L   01_071413_12   Station 9   Carbonate (AS CaC03)   7/5/2013   29600 μg/L   01_071413_12   Station 9   Conductivity, Field   7/5/2013   153.1 uS/cm   01_071413_12   Station 9   Conductivity, Field   7/5/2013   153.1 uS/cm   01_071413_12   Station 9   Ead   7/5/2013   340 μg/L   01_071413_12   Station 9   Ph, Field   7/5/2013   7.67 pH   01_071413_12   Station 9   Ph, Field   7/5/2013   7.67 pH   01_071413_12   Station 9   Ph, Field   7/5/2013   7.67 pH   01_071413_12   Station 9   Selenium   7/5/2013   7/5/	Station 0	Sadium	6/20/2012	1100	μg/L	01 062212 00	
Station 9   Temperature, Field   6/20/2013   7.8 °C   01_062313_08   Station 9   Total Dissolved Solids   6/20/2013   110000 μg/L   01_062313_08   Station 9   Zinc   6/20/2013   89 μg/L   01_062313_08   Station 9   Zinc   6/20/2013   89 μg/L   01_062313_08   Station 9   Alkalinity (As CaC03)   7/5/2013   71000 μg/L   01_071413_12   Station 9   Alkalinity (As CaC03)   7/5/2013   71000 μg/L   01_071413_12   Station 9   Bicarbonate (As CaC03)   7/5/2013   71000 μg/L   01_071413_12   Station 9   Cadmium   7/5/2013   0.5 μg/L   01_071413_12   Station 9   Carbonate (As CaC03)   7/5/2013   29600 μg/L   01_071413_12   Station 9   Carbonate (AS CaC03)   7/5/2013   29600 μg/L   01_071413_12   Station 9   Carbonate (AS CaC03)   7/5/2013   29600 μg/L   01_071413_12   Station 9   Carbonate (AS CaC03)   7/5/2013   29600 μg/L   01_071413_12   Station 9   Chloride   7/5/2013   4.80 μg/L   01_071413_12   Station 9   Chloride   7/5/2013   153.1 u/5/cm   01_071413_12   Station 9   Conductivity, Field   7/5/2013   340 μg/L   01_071413_12   Station 9   Lead   7/5/2013   370 μg/L   01_071413_12   Station 9   PH, Field   7/5/2013   7.67 μg/L   01_071413_12   Station 9   PH, Field   7/5/2013   7.67 μg/L   01_071413_12   Station 9   PH, Field   7/5/2013   7.67 μg/L   01_071413_12   Station 9   Selenium   7/5/2013   7.67 μg/L   01_071413_12   Station 9   Selenium   7/5/2013   7.67 μg/L   01_071413_12   Station 9   Sulfate   7/5/2013   53700 μg/L   01_071413_12   Station 9   Sulfate   7/5/2013   53700 μg/L   01_071413_12   Station 9   Temperature, Field   7/5/2013   53700 μg/L   01_071413_12   Station 9   Total Dissolved Solids   7/5/2013   150000 μg/L   01_071413_12   Station 9   Total Dissolved Solids   7/5/2013   150000 μg/L   01_071413_12   Station 9   Alkalinity (As CaC03)   7/29/2013   145 μg/L   01_071413_12   Station 9   Alkalinity (As CaC03)   7/29/2013   145 μg/L   01_072813_08   Station 9   Calcium   7/29/2013   85000 μg/L   01_072813_08   Station 9   Calcium   7/29/2013   37100 μg/L   01_072813_08   Station 9   Calcium   7				22700	ug/l		IVIL
Station   9   Total Dissolved Solids   6/20/2013   110000 μg/L   01_062313_08   Station   9   Total Suspended Solids   6/20/2013   89 μg/L   01_062313_08   Station   9   Zinc   6/20/2013   89 μg/L   01_062313_08   Station   9   Alkalinity (As CaCO3)   7/5/2013   71000 μg/L   01_071413_12   Station   9   Alkalinity (As CaCO3)   7/5/2013   71000 μg/L   01_071413_12   Station   9   Bicarbonate (As CaCO3)   7/5/2013   71000 μg/L   01_071413_12   Station   9   Cadmium   7/5/2013   71000 μg/L   01_071413_12   Station   9   Carbonate (As CaCO3)   7/5/2013   71000 μg/L   01_071413_12   Station   9   Carbonate (As CaCO3)   7/5/2013   29600 μg/L   01_071413_12   Station   9   Carbonate (As CaCO3)   7/5/2013   29600 μg/L   01_071413_12   Station   9   Chloride   7/5/2013   2000 μg/L   01_071413_12   Station   9   Chloride   7/5/2013   153.1 uS/cm   01_071413_12   Station   9   Conductivity, Field   7/5/2013   340 μg/L   01_071413_12   Station   9   Lead   7/5/2013   340 μg/L   01_071413_12   Station   9   Magnesium   7/5/2013   11400 μg/L   01_071413_12   Station   9   PH, Field   7/5/2013   1400 μg/L   01_071413_12   Station   9   PH, Field   7/5/2013   400 μg/L   01_071413_12   Station   9   Selenium   7/5/2013   400 μg/L   01_071413_12   Station   9   Selenium   7/5/2013   4100 μg/L   01_071413_12   Station   9   Sulfate   7/5/2013   4100 μg/L   01_071413_12   Station   9   Sulfate   7/5/2013   4100 μg/L   01_071413_12   Station   9   Sulfate   7/5/2013   4100 μg/L   01_071413_12   Station   9   Temperature, Field   7/5/2013   4100 μg/L   01_071413_12   Station   9   Total Dissolved Solids   7/5/2013   150000 μg/L   01_071413_12   Station   9   Total Suspende Solids   7/5/2013   150000 μg/L   01_071413_12   Station   9   Zinc   7/5/2013   150000 μg/L   01_071413_12   Station   9   Alkalinity (As CaCO3)   7/29/2013   185 μg/L   01_072813_08   Station   9   Alkalinity (As CaCO3)   7/29/2013   185 μg/L   01_072813_08   Station   9   Cadmium   7/29/2013   37100 μg/L   01_072813_08   Station   9   Cadmium   7/29/2013   3							
Station   Station   Total Suspended Solids   6/20/2013   < 5000 μg/L   01_062313_08   Undetected   Station   Zinc   6/20/2013   89 μg/L   01_062313_08   Station   Alkalinity (As CaCO3)   7/5/2013   71000 μg/L   01_071413_12   Station   Bicarbonate (As CaCO3)   7/5/2013   71000 μg/L   01_071413_12   Station   Gadmium   7/5/2013   0.5 μg/L   01_071413_12   Station   Cadmium   7/5/2013   0.5 μg/L   01_071413_12   Station   Cadmium   7/5/2013   0.5 μg/L   01_071413_12   Station   Carbonate (AS CaCO3)   7/5/2013   0.7 μg/L   01_071413_12   Station   Chloride   7/5/2013   153.1 uS/cm   01_071413_12   Station   Conductivity, Field   7/5/2013   153.1 uS/cm   01_071413_12   Station   Iron   7/5/2013   0.7 μg/L   01_071413_12   Station   Hagnesium   7/5/2013   0.7 μg/L   01_071413_12   Station   PH, Field   7/5/2013   0.7 μg/L   01_071413_12   Station   Ph ctassium   7/5/2013   0.7 μg/L   01_071413_12   Station   O1_071413_12   0.0 μg/L   01_071413_12   Station   Sulfate   7/5/2013   0.7 μg/L   01_071413_12   Station   Total Dissolved Solids   7/5/2013   0.7 μg/L   01_071413_12   Station   Alkalinity (As CaCO3)   7/29/2013   0.7 μg/L   01_072813_08   Station   Alkalinity (As CaCO3)   7/29/2013		•					
Station 9   Zinc   G/20/2013   R9 μg/L   D1_062313_08   Station 9   Alkalinity (As CaC03)   7/5/2013   71000 μg/L   D1_071413_12   Station 9   Bicarbonate (As CaC03)   7/5/2013   71000 μg/L   D1_071413_12   Station 9   Bicarbonate (As CaC03)   7/5/2013   71000 μg/L   D1_071413_12   Station 9   Cadmium   7/5/2013   29600 μg/L   D1_071413_12   Station 9   Carbonate (As CaC03)   7/5/2013   29600 μg/L   D1_071413_12   Station 9   Carbonate (AS CaC03)   7/5/2013   29600 μg/L   D1_071413_12   Undetected between MDL and Analyte detected between MDL and D1_071413_12   ML							I I walata ata d
Station 9   Alkalinity (As CaCO3)   7/5/2013   71000 μg/L   01_071413_12		•					Undetected
Station 9   Aluminum   7/5/2013   128 μg/L   01_071413_12							
Station 9   Bicarbonate (As CaC03)   7/5/2013   71000 µg/L   01_071413_12							
Station 9   Cadmium   7/5/2013   0.5 μg/L   01_071413_12     Station 9   Calcium   7/5/2013   29600 μg/L   01_071413_12     Station 9   Carbonate (AS CaCO3)   7/5/2013   < 2000 μg/L   01_071413_12     Undetected between MDL and between MDL and between MDL and station 9   Chloride   7/5/2013   153.1 uS/cm   01_071413_12     Station 9   Conductivity, Field   7/5/2013   340 μg/L   01_071413_12     Station 9   Iron   7/5/2013   340 μg/L   01_071413_12     Station 9   Lead   7/5/2013   0.7 μg/L   01_071413_12     Station 9   Magnesium   7/5/2013   11400 μg/L   01_071413_12     Station 9   PH, Field   7/5/2013   7.67 μg/L   01_071413_12     Station 9   PH, Field   7/5/2013   400 μg/L   01_071413_12     Station 9   Potassium   7/5/2013   410 μg/L   01_071413_12     Station 9   Potassium   7/5/2013   410 μg/L   01_071413_12     Station 9   Selenium   7/5/2013   410 μg/L   01_071413_12     Station 9   Sodium   7/5/2013   410 μg/L   01_071413_12     Station 9   Sodium   7/5/2013   410 μg/L   01_071413_12     Station 9   Sulfate   7/5/2013   53700 μg/L   01_071413_12     Station 9   Temperature, Field   7/5/2013   450 °C   01_071413_12     Station 9   Total Dissolved Solids   7/5/2013   450 °C   01_071413_12     Station 9   Total Dissolved Solids   7/5/2013   450 °C   01_071413_12     Station 9   Total Suspended Solids   7/5/2013   450 °C   01_071413_12     Station 9   Alkalinity (As CaCO3)   7/5/2013   450  μg/L   01_071413_12     Station 9   Alkalinity (As CaCO3)   7/29/2013   85000 μg/L   01_072813_08     Station 9   Bicarbonate (As CaCO3)   7/29/2013   85000 μg/L   01_072813_08     Station 9   Cadmium   7/29/2013   85000 μg/L   01_072813_							
Station 9   Calcium   7/5/2013   29600 μg/L   01_071413_12   Undetected Analyte detected between MDL and ML							
Station 9   Carbonate (AS CaCO3)   7/5/2013   < 2000 μg/L   01_071413_12   Undetected between MDL and logology   153.1 uS/cm   01_071413_12   0							
Station 9         Chloride         7/5/2013         640 μg/L         01_071413_12         Analyte detected between MDL and between MDL and between MDL and between MDL and ML           Station 9         Conductivity, Field         7/5/2013         153.1 uS/cm         01_071413_12         ————————————————————————————————————							
Station 9         Chloride         7/5/2013         640 µg/L         between MDL and ML           Station 9         Conductivity, Field         7/5/2013         153.1 uS/cm         01_071413_12         ML           Station 9         Iron         7/5/2013         340 µg/L         01_071413_12	Station 9	Carbonate (AS CaCO3)	7/5/2013	< 2000	μg/L	01_071413_12	
Station 9         Conductivity, Field         7/5/2013         153.1 uS/cm         01_071413_12         Station 9         Iron         7/5/2013         340 μg/L         01_071413_12         O1_071413_12         O1				640	μg/L		between MDL and
Station 9							ML
Station 9   Lead   7/5/2013   0.7 μg/L   01_071413_12   Station 9   Magnesium   7/5/2013   11400 μg/L   01_071413_12   Station 9   pH, Field   7/5/2013   7.67   pH Units   01_071413_12   Station 9   Potassium   7/5/2013   400 μg/L   01_071413_12   ML	Station 9	Conductivity, Field	7/5/2013			01_071413_12	
Station 9         Magnesium         7/5/2013         11400 μg/L Units         01_071413_12         Analyte detected between MDL and MDL and between MDL and between MDL and between MDL and MDL and between MDL and between MDL and MDL a	Station 9	Iron	7/5/2013	340	μg/L	01_071413_12	
Station 9         pH, Field         7/5/2013         7.67 pH Units         01_071413_12         Analyte detected between MDL and MDL and between MDL and DI_071413_12         ML           Station 9         Sodium         7/5/2013         53700 μg/L         01_071413_12         ML           Station 9         Sulfate         7/5/2013         53700 μg/L         01_071413_12         ML           Station 9         Total Dissolved Solids         7/5/2013         4.6 °C         01_071413_12         Undetected           Station 9         Total Suspended Solids         7/5/2013         150000 μg/L         01_071413_12         Undetected           Station 9         Total Suspended Solids         7/5/2013         4.6 °C         01_071413_12         Undetected           Station 9         Alkalinity (As CaC03)         7/5/2013         4.5 μg/L         01_071413_12         Undetected           Station 9         Alkalinity (As CaC03)         7/29/2013         85000 μg/L         01_071413_12         Undetected           Station 9         Bicarbonate (As CaC03)         7/29/2013         85000 μg/L </td <td>Station 9</td> <td>Lead</td> <td>7/5/2013</td> <td></td> <td></td> <td>01_071413_12</td> <td></td>	Station 9	Lead	7/5/2013			01_071413_12	
Station 9         pH, Field         7/5/2013         7.67 Units         01_071413_12         Analyte detected between MDL and 01_071413_12         Analyte detected between MDL and 01_071413_12         Analyte detected between MDL and 01_071413_12         ML           Station 9         Selenium         7/5/2013         <1 µg/L	Station 9	Magnesium	7/5/2013	11400	μg/L	01_071413_12	
Station 9       Potassium       7/5/2013       400 μg/L       between MDL and O1_071413_12       ML         Station 9       Selenium       7/5/2013       <1 μg/L	Station 9	pH, Field	7/5/2013	7.67	•	01_071413_12	
1800 μg/L       Analyte detected between MDL and Distance of Station 9         Station 9       Sulfate       7/5/2013       53700 μg/L       01_071413_12       ML         Station 9       Temperature, Field       7/5/2013       4.6 °C       01_071413_12       01_071413_12         Station 9       Total Dissolved Solids       7/5/2013       150000 μg/L       01_071413_12       Undetected         Station 9       Total Suspended Solids       7/5/2013       < 5000 μg/L	Station 9	Potassium	7/5/2013	400	μg/L	01_071413_12	between MDL and
1800 μg/L       between MDL and         Station 9       Sodium       7/5/2013       53700 μg/L       01_071413_12       ML         Station 9       Sulfate       7/5/2013       53700 μg/L       01_071413_12       01_071413_12         Station 9       Temperature, Field       7/5/2013       4.6 °C       01_071413_12       01_071413_12         Station 9       Total Dissolved Solids       7/5/2013       150000 μg/L       01_071413_12       Undetected         Station 9       Zinc       7/5/2013       145 μg/L       01_071413_12       Undetected         Station 9       Alkalinity (As CaC03)       7/29/2013       85000 μg/L       01_072813_08         Station 9       Bicarbonate (As CaC03)       7/29/2013       85000 μg/L       01_072813_08         Station 9       Cadmium       7/29/2013       0.6 μg/L       01_072813_08         Station 9       Calcium       7/29/2013       37100 μg/L       01_072813_08	Station 9	Selenium	7/5/2013	< 1	μg/L	01_071413_12	Undetected
Station 9         Temperature, Field         7/5/2013         4.6 °C         01_071413_12           Station 9         Total Dissolved Solids         7/5/2013         150000 μg/L         01_071413_12           Station 9         Total Suspended Solids         7/5/2013         < 5000 μg/L	Station 9	Sodium	7/5/2013	1800	μg/L	01_071413_12	between MDL and
Station 9         Total Dissolved Solids         7/5/2013         150000 μg/L         01_071413_12           Station 9         Total Suspended Solids         7/5/2013         < 5000 μg/L	Station 9	Sulfate	7/5/2013	53700	μg/L	01_071413_12	
Station 9         Total Suspended Solids         7/5/2013         < 5000 μg/L         01_071413_12         Undetected           Station 9         Zinc         7/5/2013         145 μg/L         01_071413_12         01_071413_12           Station 9         Alkalinity (As CaC03)         7/29/2013         85000 μg/L         01_072813_08           Station 9         Aluminum         7/29/2013         132 μg/L         01_072813_08           Station 9         Bicarbonate (As CaC03)         7/29/2013         85000 μg/L         01_072813_08           Station 9         Cadmium         7/29/2013         37100 μg/L         01_072813_08           Station 9         Calcium         7/29/2013         37100 μg/L         01_072813_08	Station 9	Temperature, Field	7/5/2013	4.6	°C	01_071413_12	
Station 9       Zinc       7/5/2013       145 μg/L       01_071413_12         Station 9       Alkalinity (As CaC03)       7/29/2013       85000 μg/L       01_072813_08         Station 9       Aluminum       7/29/2013       132 μg/L       01_072813_08         Station 9       Bicarbonate (As CaC03)       7/29/2013       85000 μg/L       01_072813_08         Station 9       Cadmium       7/29/2013       0.6 μg/L       01_072813_08         Station 9       Calcium       7/29/2013       37100 μg/L       01_072813_08	Station 9	Total Dissolved Solids	7/5/2013	150000	μg/L	01_071413_12	
Station 9       Alkalinity (As CaC03)       7/29/2013       85000 μg/L       01_072813_08         Station 9       Aluminum       7/29/2013       132 μg/L       01_072813_08         Station 9       Bicarbonate (As CaC03)       7/29/2013       85000 μg/L       01_072813_08         Station 9       Cadmium       7/29/2013       0.6 μg/L       01_072813_08         Station 9       Calcium       7/29/2013       37100 μg/L       01_072813_08	Station 9	Total Suspended Solids	7/5/2013	< 5000	μg/L	01_071413_12	Undetected
Station 9       Alkalinity (As CaC03)       7/29/2013       85000 μg/L       01_072813_08         Station 9       Aluminum       7/29/2013       132 μg/L       01_072813_08         Station 9       Bicarbonate (As CaC03)       7/29/2013       85000 μg/L       01_072813_08         Station 9       Cadmium       7/29/2013       0.6 μg/L       01_072813_08         Station 9       Calcium       7/29/2013       37100 μg/L       01_072813_08	Station 9	Zinc	7/5/2013	145	μg/L	01 071413 12	
Station 9       Aluminum       7/29/2013       132 μg/L       01_072813_08         Station 9       Bicarbonate (As CaC03)       7/29/2013       85000 μg/L       01_072813_08         Station 9       Cadmium       7/29/2013       0.6 μg/L       01_072813_08         Station 9       Calcium       7/29/2013       37100 μg/L       01_072813_08							
Station 9       Bicarbonate (As CaC03)       7/29/2013       85000 μg/L       01_072813_08         Station 9       Cadmium       7/29/2013       0.6 μg/L       01_072813_08         Station 9       Calcium       7/29/2013       37100 μg/L       01_072813_08							
Station 9       Cadmium       7/29/2013       0.6 μg/L       01_072813_08         Station 9       Calcium       7/29/2013       37100 μg/L       01_072813_08							
Station 9 Calcium 7/29/2013 37100 μg/L 01_072813_08							
	Station 9	Carbonate (AS CaCO3)	7/29/2013			01 072813 08	Undetected

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
						Analyte detected
CL-11' O	Chile delle	7/20/2042	640	μg/L	04 072042 00	between MDL and
Station 9	Chloride	7/29/2013	202.5	C / a.ma	01_072813_08	ML
Station 9	Conductivity, Field	7/29/2013		uS/cm	01_072813_08	
Station 9	Iron	7/29/2013		μg/L	01_072813_08	
Station 9	Lead	7/29/2013		μg/L	01_072813_08	
Station 9	Magnesium	7/29/2013	14100		01_072813_08	
Station 9	pH, Field	7/29/2013	8.1	pH Units	01 072813 08	
Station 9	Potassium	7/29/2013	300	μg/L	01_072813_08	Analyte detected between MDL and ML
Station 9	Selenium	7/29/2013	< 1	μg/L	01_072813_08	Undetected
Station 9	Sodium	7/29/2013	2400	μg/L	01_072813_08	
Station 9	Sulfate	7/29/2013	72900	μg/L	01_072813_08	
Station 9	Temperature, Field	7/29/2013	6.8	°C	01_072813_08	
Station 9	Total Dissolved Solids	7/29/2013	186000	μg/L	01_072813_08	
Station 9	Total Suspended Solids	7/29/2013	< 5000	μg/L	01_072813_08	Undetected
Station 9	Zinc	7/29/2013	175	μg/L	01_072813_08	
Station 9	Alkalinity (As CaCO3)	8/9/2013	69000	μg/L	01_081113_12	
Station 9	Aluminum	8/9/2013	300	μg/L	01_081113_12	
Station 9	Bicarbonate (As CaC03)	8/9/2013	69000	μg/L	01_081113_12	
Station 9	Cadmium	8/9/2013	0.7	μg/L	01_081113_12	
Station 9	Calcium	8/9/2013	34900	μg/L	01_081113_12	
Station 9	Carbonate (AS CaCO3)	8/9/2013	< 2000	μg/L	01_081113_12	Undetected
Station 9	Chloride	8/9/2013	690	μg/L	01_081113_12	Analyte detected between MDL and ML
Station 9	Conductivity, Field	8/9/2013	188.9	uS/cm	01 081113 12	
Station 9	Iron	8/9/2013		μg/L	01_081113_12	
Station 9	Lead	8/9/2013		μg/L	01_081113_12	
Station 9	Magnesium	8/9/2013	13100		01_081113_12	
Station 9	pH, Field	8/9/2013	7.82	pH Units	01_081113_12	
Station 9	Potassium	8/9/2013	300	μg/L	01_081113_12	Analyte detected between MDL and ML
Station 9	Selenium	8/9/2013	1.4	μg/L	01_081113_12	Analyte detected between MDL and ML
Station 9	Sodium	8/9/2013	2200	μg/L	01_081113_12	
Station 9	Sulfate	8/9/2013	78700		01_081113_12	
Station 9	Temperature, Field	8/9/2013	5.9		01_081113_12	
Jacion 5	. emperature, meia	0, 5, 2013	3.3		31_001113_12	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Station 9	Total Dissolved Solids	8/9/2013	180000	μg/L	01_081113_12	
Station 9	Total Suspended Solids	8/9/2013	8000	μg/L	01_081113_12	Analyte detected between MDL and ML
Station 9	Zinc	8/9/2013	185	μg/L	01_081113_12	
Station 9	Alkalinity (As CaCO3)	8/23/2013	90000	μg/L	01_082513_08	
Station 9	Aluminum	8/23/2013	106	μg/L	01_082513_08	
Station 9	Bicarbonate (As CaCO3)	8/23/2013	90000	μg/L	01_082513_08	
Station 9	Cadmium	8/23/2013	0.9	μg/L	01_082513_08	
Station 9	Calcium	8/23/2013	48900	μg/L	01_082513_08	
Station 9	Carbonate (AS CaCO3)	8/23/2013	< 2000	μg/L	01_082513_08	Undetected
Station 9	Conductivity, Field	8/23/2013	241.7	uS/cm	01_082513_08	
Station 9	Iron	8/23/2013	480	μg/L	01_082513_08	
Station 9	Lead	8/23/2013	0.6	μg/L	01_082513_08	
Station 9	Magnesium	8/23/2013	18900	μg/L	01_082513_08	
Station 9	pH, Field	8/23/2013	7.91	pH Units	01_082513_08	
			400	μg/L		Analyte detected between MDL and
Station 9	Potassium	8/23/2013			01_082513_08	ML
Station 9	Selenium	8/23/2013		μg/L	01_082513_08	Undetected
Station 9	Sodium	8/23/2013	3400		01_082513_08	
Station 9	Temperature, Field	8/23/2013	4.1		01_082513_08	
Station 9	Total Dissolved Solids	8/23/2013	254000	μg/L	01_082513_08	
Station 9	Total Suspended Solids	8/23/2013	< 5000	μg/L	01_082513_08	Undetected
Station 9	Zinc	8/23/2013		μg/L	01_082513_08	
Station 9	Alkalinity (As CaC03)	9/12/2013	98000	μg/L	01_090813_12	
Station 9	Aluminum	9/12/2013	108	μg/L	01_090813_12	
Station 9	Bicarbonate (As CaCO3)	9/12/2013	98000	μg/L	01_090813_12	
Station 9	Cadmium	9/12/2013	0.8	μg/L	01_090813_12	
Station 9	Calcium	9/12/2013	48000	μg/L	01_090813_12	
Station 9	Carbonate (AS CaCO3)	9/12/2013	< 2000	μg/L	01_090813_12	Undetected
Station 9	Chloride	9/12/2013	< 1000	μg/L	01_090813_12	Undetected
Station 9	Conductivity, Field	9/12/2013	219.7	uS/cm	01_090813_12	
Station 9	Iron	9/12/2013	450	μg/L	01_090813_12	
Station 9	Lead	9/12/2013	0.6	μg/L	01_090813_12	
Station 9	Magnesium	9/12/2013	18300	μg/L	01_090813_12	
Station 9	pH, Field	9/12/2013	8.03	pH Units	01_090813_12	
Station 9	Potassium	9/12/2013	400	μg/L	01_090813_12	Analyte detected between MDL and ML
	Selenium	9/12/2013	_ 1	μg/L	01_090813_12	
Station 9	Selemani	9/12/2013	<u> </u>	μg/ L	01_090813_12	Undetected

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Station 9	Sodium	9/12/2013	3100	μg/L	01_090813_12	
Station 9	Sulfate	9/12/2013	128000	μg/L	01_090813_12	
Station 9	Temperature, Field	9/12/2013	2.4	°C	01_090813_12	
Station 9	<b>Total Dissolved Solids</b>	9/12/2013	232000	μg/L	01_090813_12	
Station 9	<b>Total Suspended Solids</b>	9/12/2013	< 5000	μg/L	01_090813_12	Undetected
Station 9	Zinc	9/12/2013	216	μg/L	01_090813_12	
Station 9	Alkalinity (As CaCO3)	9/27/2013	107000	μg/L	01_092213_08	
Station 9	Aluminum	9/27/2013	100	μg/L	01_092213_08	
Station 9	Bicarbonate (As CaC03)	9/27/2013	107000	μg/L	01_092213_08	
Station 9	Cadmium	9/27/2013	0.9	μg/L	01_092213_08	
Station 9	Calcium	9/27/2013	60300	μg/L	01_092213_08	
Station 9	Carbonate (AS CaCO3)	9/27/2013	< 2000	μg/L	01_092213_08	Undetected
Station 9	Chloride	9/27/2013	< 1000	μg/L	01_092213_08	Undetected
Station 9	Conductivity, Field	9/27/2013	251.0	uS/cm	01_092213_08	
Station 9	Iron	9/27/2013	560	μg/L	01_092213_08	
Station 0	11	0/27/2042	0.4	μg/L	04 002242 00	Analyte detected between MDL and
Station 9	Lead	9/27/2013	22000	. /1	01_092213_08	ML
Station 9	Magnesium	9/27/2013	22800		01_092213_08	
Station 9	pH, Field	9/27/2013	8.03	pH Units	01_092213_08	
Station 9	Potassium	9/27/2013	500	μg/L	01_092213_08	Analyte detected between MDL and ML
Station 9	Selenium	9/27/2013	1.5	μg/L	01_092213_08	Analyte detected between MDL and ML
Station 9	Sodium	9/27/2013	4100	μg/L	01_092213_08	
Station 9	Sulfate	9/27/2013	164000	μg/L	01_092213_08	
Station 9	Temperature, Field	9/27/2013	0.1	°C	01_092213_08	
Station 9	Total Dissolved Solids	9/27/2013	314000	μg/L	01_092213_08	
Station 9	Total Suspended Solids	9/27/2013	< 5000	μg/L	01_092213_08	Undetected
Station 9	Zinc	9/27/2013	289	μg/L	01_092213_08	
Station 9	Alkalinity (As CaC03)	10/7/2013	102000	μg/L	01_101313_12	
Station 9	Aluminum	10/7/2013	75	μg/L	01_101313_12	
Station 9	Bicarbonate (As CaCO3)	10/7/2013	102000	μg/L	01_101313_12	
Station 9	Cadmium	10/7/2013	1.2	μg/L	01_101313_12	
Station 9	Calcium	10/7/2013	62600	μg/L	01_101313_12	
Station 9	Carbonate (AS CaCO3)	10/7/2013	< 2000	μg/L	01_101313_12	Undetected
Station 9	Chloride	10/7/2013	< 2500	μg/L	01_101313_12	Undetected
Station 9	Conductivity, Field	10/7/2013	274.7	uS/cm	01_101313_12	
Station 9	Iron	10/7/2013	380	μg/L	01_101313_12	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
			0.2	. /1		Analyte detected
Station 9	Lead	10/7/2013	0.2	μg/L	01 101313 12	between MDL and ML
Station 9	Magnesium	10/7/2013	24700	μσ/I	01_101313_12	IVIL
Stations	wagnesiam	10/7/2013		рН	01_101313_12	
Station 9	pH, Field	10/7/2013	7.51	Units	01_101313_12	
						Analyte detected
a a		10/=/0010	400	μg/L	0.4 .0.0.0 .0	between MDL and
Station 9	Potassium	10/7/2013			01_101313_12	ML Analyte detected
			1 2	μg/L		Analyte detected between MDL and
Station 9	Selenium	10/7/2013	1.2	μ6/ Ε	01_101313_12	ML
Station 9	Sodium	10/7/2013	4700	μg/L	01_101313_12	
Station 9	Sulfate	10/7/2013	153000		01_101313_12	
Station 9	Temperature, Field	10/7/2013		°C	01 101313 12	
Station 9	Total Dissolved Solids	10/7/2013	320000	μg/L	01_101313_12	
Station 9	Total Suspended Solids	10/7/2013	< 5000		01 101313 12	Undetected
Station 9	Zinc	10/7/2013		μg/L	01_101313_12	
Station 9	Alkalinity (As CaCO3)	10/11/2013	103000	μg/L	01_102713_08	
Station 9	Aluminum	10/11/2013	74	μg/L	01_102713_08	
Station 9	Bicarbonate (As CaCO3)	10/11/2013	103000	μg/L	01_102713_08	
Station 9	Cadmium	10/11/2013	1.1	μg/L	01_102713_08	
Station 9	Calcium	10/11/2013	64700	μg/L	01_102713_08	
Station 9	Carbonate (AS CaCO3)	10/11/2013	< 2000	μg/L	01_102713_08	Undetected
Station 9	Chloride	10/11/2013	< 2500	μg/L	01_102713_08	Undetected
Station 9	Conductivity, Field	10/11/2013	278.8	uS/cm	01_102713_08	
Station 9	Iron	10/11/2013	390	μg/L	01_102713_08	
						Analyte detected
a a		10/11/2010	0.2	μg/L	04 400=40 00	between MDL and
Station 9	Lead	10/11/2013	35500	/1	01_102713_08	ML
Station 9	Magnesium	10/11/2013	25500		01_102713_08	
Station 9	pH, Field	10/11/2013	7.80	pH Units	01 102713 08	
Stations	pri, ricia	10/11/2013		OTHES	01_102713_00	Analyte detected
			400	μg/L		between MDL and
Station 9	Potassium	10/11/2013			01_102713_08	ML
				•-		Analyte detected
Chatie - O	Calanium	10/11/2012	1.4	μg/L	04 402742 00	between MDL and
Station 9	Selenium	10/11/2013	4000	ug/l	01_102713_08	ML
Station 9	Sodium	10/11/2013	4900		01_102713_08	
Station 9	Sulfate Temperature Field	10/11/2013	153000	μg/L °C	01_102713_08	
Station 9	Temperature, Field	10/11/2013			01_102713_08	
Station 9	Total Dissolved Solids	10/11/2013	338000 < 5000		01_102713_08	Undetected
Station 9	Total Suspended Solids	10/11/2013	< 3000	μg/ L	01_102713_08	Undetected

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Station 9	Zinc	10/11/2013	336	μg/L	01_102713_08	
Sulfur Creek	Alkalinity (As CaCO3)	5/24/2013	6000		01_051213_13	Analyte detected between MDL and ML
Sulfur Creek	Aluminum	5/24/2013	450	μg/L	01_051213_13	
Sulfur Creek	Bicarbonate (As CaCO3)	5/24/2013	6000		01_051213_13	Analyte detected between MDL and ML
Sulfur Creek	Cadmium	5/24/2013		μg/L	01_051213_13	
Sulfur Creek	Calcium	5/24/2013	12800		01_051213_13	
Sulfur Creek	Carbonate (AS CaCO3)	5/24/2013	< 2000	μg/L	01_051213_13	Undetected
Sulfur Creek	Chloride	5/24/2013		μg/L	01_051213_13	Analyte detected between MDL and ML
Sulfur Creek	Conductivity, Field	5/24/2013		uS/cm	01_051213_13	
Sulfur Creek	Iron	5/24/2013		μg/L	01_051213_13	
Sulfur Creek	Lead	5/24/2013	684.0		01_051213_13	
Sulfur Creek	Magnesium	5/24/2013	1600		01_051213_13	
Sulfur Creek	pH, Field	5/24/2013	5.51	pH Units	01_051213_13	
Sulfur Creek	Potassium	5/24/2013	1800	μg/L	01_051213_13	Analyte detected between MDL and ML
Sulfur Creek	Selenium	5/24/2013	5.6	μg/L	01_051213_13	
Sulfur Creek	Sodium	5/24/2013	1400	μg/L	01 051213 13	Analyte detected between MDL and ML
Sulfur Creek	Sulfate	5/24/2013	37400	ug/L	01_051213_13	
Sulfur Creek	Temperature, Field	5/24/2013		°C	01_051213_13	
Sulfur Creek	Total Dissolved Solids	5/24/2013	60000	μg/L	01 051213 13	
Sulfur Creek	Total Suspended Solids	5/24/2013	8000		01_051213_13	Analyte detected between MDL and ML
Sulfur Creek	Zinc	5/24/2013	1800	μg/L	01_051213_13	
Sulfur Creek	Alkalinity (As CaCO3)	6/13/2013	18000		01_060913_13	Analyte detected between MDL and ML
Sulfur Creek	Aluminum	6/13/2013	52000	ug/I	01_060913_13	
			18000			Analyte detected between MDL and
Sulfur Creek	Bicarbonate (As CaC03)	6/13/2013	40-	/1	01_060913_13	ML
Sulfur Creek	Cadmium	6/13/2013		μg/L	01_060913_13	
Sulfur Creek	Calcium	6/13/2013	36800		01_060913_13	
Sulfur Creek	Carbonate (AS CaCO3)	6/13/2013	< 2000	μg/L	01_060913_13	Undetected

Location	Analyte	Sample	Result	Unit	Sample	Qualifier Comment
	•	Date			Number	Analyte detected
			870	μg/L		between MDL and
Sulfur Creek	Chloride	6/13/2013	0.0	r6/ -	01 060913 13	ML
Sulfur Creek	Conductivity, Field	6/13/2013	57.9	uS/cm	01_060913_13	
Sulfur Creek	Iron	6/13/2013	162000	μg/L	01 060913 13	
Sulfur Creek	Lead	6/13/2013	659.5	μg/L	01_060913_13	
Sulfur Creek	Magnesium	6/13/2013	8500		01_060913_13	
				рН		
Sulfur Creek	pH, Field	6/13/2013	6.51	Units	01_060913_13	
Sulfur Creek	Potassium	6/13/2013	7200	μg/L	01_060913_13	
Sulfur Creek	Selenium	6/13/2013	21.0	μg/L	01_060913_13	
						Analyte detected
		- / /	1600	μg/L		between MDL and
Sulfur Creek	Sodium	6/13/2013	400		01_060913_13	ML
Sulfur Creek	Sulfate	6/13/2013	14500		01_060913_13	
Sulfur Creek	Temperature, Field	6/13/2013	10.7		01_060913_13	
Sulfur Creek	Total Dissolved Solids	6/13/2013	400000		01_060913_13	
Sulfur Creek	Total Suspended Solids	6/13/2013	3200000		01_060913_13	
Sulfur Creek	Zinc	6/13/2013	2020		01_060913_13	
Sulfur Creek	Alkalinity (As CaCO3)	7/11/2013	57000		01_071413_13	
Sulfur Creek	Aluminum	7/11/2013	5790		01_071413_13	
Sulfur Creek	Bicarbonate (As CaCO3)	7/11/2013	57000	μg/L	01_071413_13	
Sulfur Creek	Cadmium	7/11/2013	1.4	μg/L	01_071413_13	
Sulfur Creek	Calcium	7/11/2013	26700	μg/L	01_071413_13	
Sulfur Creek	Carbonate (AS CaCO3)	7/11/2013	< 2000	μg/L	01_071413_13	Undetected
						Analyte detected
C If C C I	Old St.	7/44/2042	1040	μg/L	04 074442 42	between MDL and
Sulfur Creek	Chloride	7/11/2013	4440	C /	01_071413_13	ML
Sulfur Creek	Conductivity, Field	7/11/2013		uS/cm	01_071413_13	
Sulfur Creek	Iron	7/11/2013	11400		01_071413_13	
Sulfur Creek	Lead	7/11/2013		μg/L	01_071413_13	
Sulfur Creek	Magnesium	7/11/2013	3800		01_071413_13	
Sulfur Creek	pH, Field	7/11/2013	7.49	pH Units	01_071413_13	
						Analyte detected
			1100	μg/L		between MDL and
Sulfur Creek	Potassium	7/11/2013			01_071413_13	ML
			4 -	/1		Analyte detected
Sulfur Creek	Selenium	7/11/2013	1.5	μg/L	01_071413_13	between MDL and ML
Sulfur Creek	Sodium	7/11/2013	9800	110/1	01_0/1413_13	IVIL
Sulfur Creek	Sulfate	7/11/2013	33400		01_071413_13	
			16.4			
Sulfur Creek	Temperature, Field	7/11/2013	10.4	C	01_071413_13	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
	T . ID:	7/44/2042	190000	μg/L	04 074440 40	Analysis exceeded
Sulfur Creek	Total Dissolved Solids	7/11/2013			01_071413_13	method hold time
Sulfur Creek	Total Suspended Solids	7/11/2013	460000		01_071413_13	
Sulfur Creek	Zinc	7/11/2013		μg/L	01_071413_13	
Sulfur Creek	Conductivity, Field	8/12/2013	109.6	uS/cm	01_081113_13	
Sulfur Creek	pH, Field	8/12/2013	7.77	pH Units	01_081113_13	
Sulfur Creek	Temperature, Field	8/12/2013	7.0	°C	01_081113_13	
Sulfur Creek	Alkalinity (As CaCO3)	9/12/2013	83000	μg/L	01_090813_13	
Sulfur Creek	Aluminum	9/12/2013	381	μg/L	01_090813_13	
Sulfur Creek	Bicarbonate (As CaC03)	9/12/2013	83000	μg/L	01_090813_13	
Sulfur Creek	Cadmium	9/12/2013	1.6	μg/L	01_090813_13	
Sulfur Creek	Calcium	9/12/2013	40900	μg/L	01_090813_13	
Sulfur Creek	Carbonate (AS CaCO3)	9/12/2013	< 2000	μg/L	01_090813_13	Undetected
			1050	μg/L		Analyte detected between MDL and
Sulfur Creek	Chloride	9/12/2013			01_090813_13	ML
Sulfur Creek	Conductivity, Field	9/12/2013		uS/cm	01_090813_13	
Sulfur Creek	Iron	9/12/2013		μg/L	01_090813_13	
Sulfur Creek	Lead	9/12/2013		μg/L	01_090813_13	
Sulfur Creek	Magnesium	9/12/2013	4400		01_090813_13	
Sulfur Creek	pH, Field	9/12/2013	8.0	pH Units	01_090813_13	
Sulfur Creek	Potassium	9/12/2013	400	μg/L	01_090813_13	Analyte detected between MDL and ML
Sulfur Creek	Selenium	9/12/2013	< 1	μg/L	01_090813_13	Undetected
Sulfur Creek	Sodium	9/12/2013	1200	μg/L	01_090813_13	Analyte detected between MDL and ML
Sulfur Creek	Sulfate	9/12/2013	33600	μg/L	01_090813_13	
Sulfur Creek	Temperature, Field	9/12/2013	1.9	°C	01_090813_13	
Sulfur Creek	Total Dissolved Solids	9/12/2013	144000	μg/L	01_090813_13	
Sulfur Creek	Total Suspended Solids	9/12/2013	< 5000	μg/L	01_090813_13	Undetected
Sulfur Creek	Zinc	9/12/2013	215	μg/L	01_090813_13	
Sulfur Creek	Alkalinity (As CaCO3)	10/18/2013	55000	μg/L	01_101313_13	
Sulfur Creek	Aluminum	10/18/2013	225	μg/L	01_101313_13	
Sulfur Creek	Bicarbonate (As CaCO3)	10/18/2013	55000		01_101313_13	
Sulfur Creek	Cadmium	10/18/2013		μg/L	01_101313_13	
Sulfur Creek	Calcium	10/18/2013	27900		01_101313_13	
Sulfur Creek	Carbonate (AS CaCO3)	10/18/2013	< 2000		01_101313_13	Undetected

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
			1040	μg/L		Analyte detected between MDL and
Sulfur Creek	Chloride	10/18/2013			01_101313_13	ML
Sulfur Creek	Conductivity, Field	10/18/2013	92.7	uS/cm	01_101313_13	
Sulfur Creek	Iron	10/18/2013	640	μg/L	01_101313_13	
Sulfur Creek	Lead	10/18/2013	120.2	μg/L	01_101313_13	
Sulfur Creek	Magnesium	10/18/2013	2800	μg/L	01_101313_13	
Sulfur Creek	pH, Field	10/18/2013	7.46	pH Units	01_101313_13	
Sulfur Creek	Potassium	10/18/2013	500	μg/L	01_101313_13	Analyte detected between MDL and ML
Sulfur Creek	Selenium	10/18/2013	< 1	μg/L	01_101313_13	Undetected
Sulfur Creek	Sodium	10/18/2013	800	μg/L	01 101313 13	Analyte detected between MDL and ML
Sulfur Creek	Sulfate	10/18/2013	27100	ug/L	01_101313_13	
Sulfur Creek	Temperature, Field	10/18/2013		°C	01_101313_13	
Sulfur Creek	Total Dissolved Solids	10/18/2013	120000		01_101313_13	Analysis exceeded method hold time
Sulfur Creek	Total Suspended Solids	10/18/2013	9000	μg/L	01_101313_13	Analyte detected between MDL and ML
Sulfur Creek	Zinc	10/18/2013	331	μg/L	01_101313_13	
Upper Bons	Alkalinity (As CaCO3)	5/30/2013	4000	μg/L	01_051213_07	Analyte detected between MDL and ML
Upper Bons	Aluminum	5/30/2013	103	μg/L	01_051213_07	
Upper Bons	Bicarbonate (As CaC03)	5/30/2013	4000	μg/L	01_051213_07	Analyte detected between MDL and ML
Upper Bons	Cadmium	5/30/2013	0.6	μg/L	01_051213_07	
Upper Bons	Calcium	5/30/2013	1600	μg/L	01_051213_07	
Upper Bons	Carbonate (AS CaCO3)	5/30/2013	< 2000	μg/L	01_051213_07	Undetected
Upper Bons	Chloride	5/30/2013	< 500	μg/L	01_051213_07	Undetected
Upper Bons	Conductivity, Field	5/30/2013	8.8	uS/cm	01_051213_07	
Upper Bons	Iron	5/30/2013	90	μg/L	01_051213_07	
Upper Bons	Lead	5/30/2013	20.6	μg/L	01_051213_07	
Upper Bons	Magnesium	5/30/2013	500	μg/L	01_051213_07	Analyte detected between MDL and ML
Upper Bons	pH, Field	5/30/2013	6.17	pH Units	01_051213_07	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Upper Bons	Potassium	5/30/2013	800	μg/L	01_051213_07	Analyte detected between MDL and ML
Upper Bons	Selenium	5/30/2013	< 1	μg/L	01_051213_07	Undetected
Upper Bons	Sodium	5/30/2013	400	μg/L	01_051213_07	Analyte detected between MDL and ML
Upper Bons	Sulfate	5/30/2013	2200		01_051213_07	Analyte detected between MDL and ML
Upper Bons	Temperature, Field	5/30/2013	0.1	°C	01_051213_07	
Upper Bons	Total Dissolved Solids	5/30/2013	20000		01_051213_07	Analyte detected between MDL and ML
Upper Bons	Total Suspended Solids	5/30/2013	< 5000	μg/L	01_051213_07	Undetected
Upper Bons	Zinc	5/30/2013	53	μg/L	01_051213_07	
Upper Bons	Alkalinity (As CaCO3)	5/31/2013	4000	μg/L	01_052613_07	Analyte detected between MDL and ML
Upper Bons	Aluminum	5/31/2013	85	μg/L	01_052613_07	
	D' b /A. C. CO2)	5/24/2042	4000			Analyte detected between MDL and
Upper Bons	Bicarbonate (As CaC03)	5/31/2013	0.5	. /1	01_052613_07	ML
Upper Bons	Cadmium	5/31/2013		μg/L	01_052613_07	
Upper Bons	Calcium	5/31/2013	1600		01_052613_07	
Upper Bons	Carbonate (AS CaCO3)	5/31/2013	< 2000		01_052613_07	Undetected
Upper Bons	Chloride	5/31/2013	< 500		01_052613_07	Undetected
Upper Bons	Conductivity, Field	5/31/2013		uS/cm	01_052613_07	
Upper Bons	Iron	5/31/2013		μg/L	01_052613_07	
Upper Bons	Lead	5/31/2013		μg/L μg/L	01_052613_07	Analyte detected between MDL and
Upper Bons	Magnesium	5/31/2013			01_052613_07	ML
Upper Bons	pH, Field	5/31/2013	6.63	pH Units	01_052613_07	
Upper Bons	Potassium	5/31/2013		μg/L	01_052613_07	Analyte detected between MDL and ML
Upper Bons	Selenium	5/31/2013	< 1	μg/L	01_052613_07	Undetected
Upper Bons	Sodium	5/31/2013	400	μg/L	01_052613_07	Analyte detected between MDL and ML
Upper Bons	Sulfate	5/31/2013	2220	μg/L	01_052613_07	Analyte detected between MDL and ML

Upper Bons   Temperature, Field   Sy31/2013   O °C   O1_052613_07			Sample			Sample	
Upper Bons         Total Dissolved Solids         5/31/2013         20000 μg/L         01_052613_07         Undetected           Upper Bons         Total Suspended Solids         5/31/2013         < 5000 μg/L         01_052613_07         Undetected           Upper Bons         Zinc         5/31/2013         46 μg/L         01_052613_07         Analyte detected between MDL and	Location	Analyte	•	Result	Unit	•	Qualifier Comment
Upper Bons   Total Suspended Solids   S/31/2013   < 5000 μg/L   01_052613_07   Undetected	Upper Bons	Temperature, Field	5/31/2013	0	°C	01_052613_07	
Upper Bons   Zinc   S/31/2013   46 μg/L   01_052613_07	Upper Bons	Total Dissolved Solids	5/31/2013	20000	μg/L	01_052613_07	
Upper Bons   Alkalinity (As CaCO3)   6/7/2013   126   μg/L   01_060913_07	Upper Bons	<b>Total Suspended Solids</b>	5/31/2013	< 5000	μg/L	01_052613_07	Undetected
Upper Bons   Alkalinity (As CaC03)   6/7/2013   126	Upper Bons	Zinc	5/31/2013	46	μg/L	01_052613_07	
Upper Bons         Alkalinity (As CaCO3)         6/7/2013         126 μg/L         01_060913_07         ML           Upper Bons         Aluminum         6/7/2013         126 μg/L         01_060913_07         Analyte detected between MDL and b							·
Upper Bons   Aluminum   6/7/2013   126 μg/L   01_060913_07				4000	μg/L		
Upper Bons   Bicarbonate (As CaCO3)   6/7/2013	•	,					ML
Upper Bons   Bicarbonate (As CaC03)   6/7/2013   01_060913_07   ML	Upper Bons	Aluminum	6/7/2013	126	μg/L	01_060913_07	
Upper Bons   Bicarbonate (As CaCO3)   6/7/2013   0.2 μg/L   μg/L   0.060913_07   ML				4000	/1		·
Upper Bons   Cadmium   6/7/2013   2800 μg/L   01_060913_07   ML	Unner Rons	Ricarhonate (As CaCO3)	6/7/2013	4000	μg/ L	01 060013 07	
Upper Bons         Cadmium         6/7/2013         0.2 µg/L         D1_060913_00         between MDL and ML           Upper Bons         Calcium         6/7/2013         2800 µg/L         01_060913_07         Upper Bons           Upper Bons         Carbonate (AS CaCO3)         6/7/2013         2800 µg/L         01_060913_07         Undetected           Upper Bons         Chloride         6/7/2013         4.500 µg/L         01_060913_07         Undetected           Upper Bons         Iron         6/7/2013         120 µg/L         01_060913_07         Undetected           Upper Bons         Lead         6/7/2013         120 µg/L         01_060913_07         Upper Bons           Upper Bons         Magnesium         6/7/2013         1200 µg/L         01_060913_07         Upper Bons           Upper Bons         Magnesium         6/7/2013         1200 µg/L         01_060913_07         Upper Bons           Upper Bons         PH, Field         6/7/2013         68.83 PH         PH         01_060913_07         WI           Upper Bons         Potassium         6/7/2013         2000 µg/L         01_060913_07         MI           Upper Bons         Selenium         6/7/2013         200 µg/L         01_060913_07         MI	Оррег волз	bicarbonate (As cacos)	0/7/2013			01_000913_07	
Upper Bons         Cadmium         6/7/2013         2800 μg/L         01_060913_07         ML           Upper Bons         Calcium         6/7/2013         2800 μg/L         01_060913_07         Undetected           Upper Bons         Carbonate (AS CaCO3)         6/7/2013         < 2000 μg/L				0.2	ug/L		•
Upper Bons   Carbonate (AS CaCO3)   6/7/2013   < 2000 μg/L   01_060913_07   Undetected	Upper Bons	Cadmium	6/7/2013		F-0/	01_060913_07	
Upper Bons   Chloride   6/7/2013   <500 μg/L   01_060913_07   Undetected	Upper Bons	Calcium	6/7/2013	2800	μg/L	01 060913 07	
Upper Bons   Chloride   6/7/2013   <500 μg/L   01_060913_07   Undetected	Upper Bons	Carbonate (AS CaCO3)	6/7/2013	< 2000	μg/L	01 060913 07	Undetected
Upper Bons   Conductivity, Field   6/7/2013   14.3 uS/cm   01_060913_07				< 500	μg/L	01 060913 07	Undetected
Upper Bons   Iron   6/7/2013   120 μg/L   01_060913_07     Upper Bons   Lead   6/7/2013   7.1 μg/L   01_060913_07     Upper Bons   Magnesium   6/7/2013   1200 μg/L   01_060913_07     Upper Bons   PH, Field   6/7/2013   6.83 pH   Units   01_060913_07     Upper Bons   Potassium   6/7/2013   600 μg/L   01_060913_07     Upper Bons   Potassium   6/7/2013   600 μg/L   01_060913_07     Upper Bons   Selenium   6/7/2013		Conductivity, Field		14.3	uS/cm		
Upper Bons   Lead   6/7/2013   7.1 μg/L   01_060913_07		•					
Upper Bons   Magnesium   6/7/2013   1200 μg/L   01_060913_07							
Upper Bons   pH, Field   6/7/2013   6.83   pH   Units   01_060913_07   Analyte detected between MDL and Upper Bons   Potassium   6/7/2013   6/7/2013   01_060913_07   ML							
Upper Bons         pH, Field         6/7/2013         6.83 bunits         01_060913_07         Analyte detected between MDL and 01_060913_07         Analyte detected between MDL and 01_060913_07         ML           Upper Bons         Selenium         6/7/2013         < 1 μg/L	-  -	.0					
Upper Bons         Potassium         6/7/2013         01_060913_07         ML           Upper Bons         Selenium         6/7/2013         <1 μg/L	Upper Bons	pH, Field	6/7/2013	6.83		01_060913_07	
Upper Bons         Potassium         6/7/2013         01_060913_07         ML           Upper Bons         Selenium         6/7/2013         <1 μg/L							Analyte detected
Upper Bons         Selenium         6/7/2013         < 1 μg/L         01_060913_07         Undetected           Upper Bons         Sodium         6/7/2013         500 μg/L         01_060913_07         ML           Upper Bons         Sulfate         6/7/2013         3970 μg/L         01_060913_07         ML           Upper Bons         Temperature, Field         6/7/2013         0.2 °C         01_060913_07         O1_060913_07           Upper Bons         Total Dissolved Solids         6/7/2013         20000 μg/L         01_060913_07         Undetected           Upper Bons         Total Suspended Solids         6/7/2013         < 5000 μg/L				600	μg/L		
Malyte detected between MDL and Upper Bons   Sodium   6/7/2013   3970 μg/L   01_060913_07   ML	• •					<del></del>	
Sodium   Sulfate   Sodium   Sodium   Sulfate   Sodium   Sodium	Upper Bons	Selenium	6/7/2013	< 1	μg/L	01_060913_07	
Upper Bons         Sodium         6/7/2013         01_060913_07         ML           Upper Bons         Sulfate         6/7/2013         3970 μg/L         01_060913_07           Upper Bons         Temperature, Field         6/7/2013         0.2 °C         01_060913_07           Upper Bons         Total Dissolved Solids         6/7/2013         20000 μg/L         01_060913_07           Upper Bons         Zinc         6/7/2013         24 μg/L         01_060913_07         Undetected           Upper Bons         Zinc         6/7/2013         24 μg/L         01_060913_07         Analyte detected between MDL and           Upper Bons         Alkalinity (As CaC03)         6/20/2013         01_062313_07         ML           Upper Bons         Aluminum         6/20/2013         69 μg/L         01_062313_07           Analyte detected between MDL and         401_062313_07         Analyte detected between MDL and				F00	/1		•
Upper Bons         Sulfate         6/7/2013         3970 μg/L         01_060913_07           Upper Bons         Temperature, Field         6/7/2013         0.2 °C         01_060913_07           Upper Bons         Total Dissolved Solids         6/7/2013         20000 μg/L         01_060913_07           Upper Bons         Total Suspended Solids         6/7/2013         < 5000 μg/L	Unner Rons	Sodium	6/7/2012	500	μg/L	01 060012 07	
Upper Bons         Temperature, Field         6/7/2013         0.2 °C         01_060913_07           Upper Bons         Total Dissolved Solids         6/7/2013         20000 μg/L         01_060913_07           Upper Bons         Total Suspended Solids         6/7/2013         < 5000 μg/L				3970	μσ/I		IVIL
Upper Bons         Total Dissolved Solids         6/7/2013         20000 μg/L         01_060913_07           Upper Bons         Total Suspended Solids         6/7/2013         < 5000 μg/L							
Upper Bons         Total Suspended Solids         6/7/2013         < 5000 μg/L         01_060913_07         Undetected           Upper Bons         Zinc         6/7/2013         24 μg/L         01_060913_07         Analyte detected between MDL and           Upper Bons         Alkalinity (As CaC03)         6/20/2013         01_062313_07         ML           Upper Bons         Aluminum         6/20/2013         69 μg/L         01_062313_07           Analyte detected between MDL and         15000 μg/L         Analyte detected between MDL and		<u> </u>					
Upper Bons         Zinc         6/7/2013         24 μg/L         01_060913_07           Upper Bons         Analyte detected between MDL and Upper Bons         Alkalinity (As CaC03)         6/20/2013         01_062313_07         ML           Upper Bons         Aluminum         6/20/2013         69 μg/L         01_062313_07         Analyte detected between MDL and           Logon Log							Undetected
Analyte detected between MDL and Upper Bons Alkalinity (As CaC03) 6/20/2013 01_062313_07 ML  Upper Bons Aluminum 6/20/2013 69 μg/L 01_062313_07  Analyte detected between MDL and Analyte detected between MDL and		<u> </u>					Undetected
15000 μg/L between MDL and Upper Bons Alkalinity (As CaC03) 6/20/2013 01_062313_07 ML  Upper Bons Aluminum 6/20/2013 69 μg/L 01_062313_07  Analyte detected between MDL and	Opper Bons	ZITIC	6/7/2013	24	μg/ L	01_060913_07	Analyte detected
Upper Bons         Alkalinity (As CaC03)         6/20/2013         01_062313_07         ML           Upper Bons         Aluminum         6/20/2013         69 μg/L         01_062313_07         Analyte detected between MDL and				15000	ug/L		·
Upper Bons Aluminum 6/20/2013 69 μg/L 01_062313_07  Analyte detected between MDL and	Upper Bons	Alkalinity (As CaCO3)	6/20/2013	10000	ro/ =	01 062313 07	
Analyte detected 15000 μg/L between MDL and		,		69	μg/L		
15000 μg/L between MDL and					. =-		Analyte detected
Upper Bons Bicarbonate (As CaC03) 6/20/2013 01_062313_07 ML				15000	μg/L		•
	Upper Bons	Bicarbonate (As CaC03)	6/20/2013			01_062313_07	ML
Upper Bons Cadmium 6/20/2013 < 0.1 μg/L 01_062313_07 Undetected	Upper Bons	Cadmium	6/20/2013	< 0.1	μg/L	01_062313_07	Undetected
Upper Bons Calcium 6/20/2013 6400 μg/L 01_062313_07	Upper Bons	Calcium	6/20/2013	6400	μg/L	01_062313_07	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Upper Bons	Carbonate (AS CaCO3)	6/20/2013	< 2000	μg/L	01_062313_07	Undetected
Upper Bons	Chloride	6/20/2013	680	μg/L	01_062313_07	Analyte detected between MDL and ML
Upper Bons	Conductivity, Field	6/20/2013	34.0	uS/cm	01_062313_07	
Upper Bons	Iron	6/20/2013	90	μg/L	01_062313_07	
Upper Bons	Lead	6/20/2013		μg/L	01_062313_07	
Upper Bons	Magnesium	6/20/2013	2600		01_062313_07	
Upper Bons	pH, Field	6/20/2013	7.19	pH Units	01_062313_07	
Upper Bons	Potassium	6/20/2013	400	μg/L	01 062313 07	Analyte detected between MDL and ML
Upper Bons	Selenium	6/20/2013	< 1	μg/L	01_062313_07	Undetected
Upper Bons	Sodium	6/20/2013	1200		01_062313_07	Analyte detected between MDL and ML
	Sulfate		9380	ug/l	01_062313_07	IVIL
Upper Bons		6/20/2013	4.2			
Upper Bons Upper Bons	Temperature, Field  Total Dissolved Solids	6/20/2013	10000		01_062313_07 01_062313_07	Analyte detected between MDL and ML
Upper Bons	Total Suspended Solids	6/20/2013	< 5000	μσ/I	01_062313_07	Undetected
Upper Bons	Zinc	6/20/2013		μg/L	01_062313_07	Ondetected
Upper Bons	Alkalinity (As CaC03)	7/5/2013	35000		01 071413 07	
Upper Bons	Aluminum	7/5/2013		μg/L	01_071413_07	
Upper Bons	Bicarbonate (As CaC03)	7/5/2013	35000		01 071413_07	
Upper Bons	Cadmium	7/5/2013	< 0.1		01_071413_07	Undetected
Upper Bons	Calcium	7/5/2013	11800		01_071413_07	Onactectea
Upper Bons	Carbonate (AS CaCO3)	7/5/2013	< 2000		01 071413_07	Undetected
Upper Bons	Chloride	7/5/2013		μg/L	01_071413_07	Analyte detected between MDL and ML
Upper Bons	Conductivity, Field	7/5/2013	63.4	uS/cm	01_071413_07	
Upper Bons	Iron	7/5/2013	30	μg/L	01_071413_07	Analyte detected between MDL and ML
Upper Bons	Lead	7/5/2013	0.4	μg/L	01_071413_07	Analyte detected between MDL and ML
Upper Bons	Magnesium	7/5/2013	4600	μg/L	01_071413_07	
Upper Bons	pH, Field	7/5/2013	7.36	pH Units	01_071413_07	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
					•	Analyte detected
Linnar Dana	Datassium	7/5/2012	400	μg/L	01 071412 07	between MDL and
Upper Bons	Potassium	7/5/2013	. 1	/1	01_071413_07	ML
Upper Bons	Selenium	7/5/2013		μg/L	01_071413_07	Undetected
Upper Bons	Sodium	7/5/2013	2000		01_071413_07	
Upper Bons	Sulfate	7/5/2013	18800		01_071413_07	
Upper Bons	Temperature, Field	7/5/2013			01_071413_07	
Upper Bons	Total Dissolved Solids	7/5/2013	60000	μg/ L	01_071413_07	Analyte detected
			5000	ug/l		between MDL and
Upper Bons	Total Suspended Solids	7/5/2013	3000	MB/ =	01_071413_07	ML
Upper Bons	Zinc	7/5/2013	6	μg/L	01 071413 07	
Upper Bons	Alkalinity (As CaCO3)	7/29/2013	60000		01 072813 07	
Upper Bons	Aluminum	7/29/2013		μg/L	01_072813_07	
Upper Bons	Bicarbonate (As CaCO3)	7/29/2013	60000		01_072813_07	
Upper Bons	Cadmium	7/29/2013	< 0.1		01 072813 07	Undetected
Upper Bons	Calcium	7/29/2013	20900		01 072813 07	
Upper Bons	Carbonate (AS CaCO3)	7/29/2013	< 2000		01_072813_07	Undetected
	,	, ,		, 0.		Analyte detected
			630	μg/L		between MDL and
Upper Bons	Chloride	7/29/2013			01_072813_07	ML
Upper Bons	Conductivity, Field	7/29/2013	107.8	uS/cm	01_072813_07	
Upper Bons	Iron	7/29/2013	< 20	μg/L	01_072813_07	Undetected
				,		Analyte detected
Linnar Dans	Load	7/20/2012	0.1	μg/L	01 073013 07	between MDL and
Upper Bons	Lead	7/29/2013	7900	ug/l	01_072813_07	ML
Upper Bons	Magnesium	7/29/2013	7800	лЦ	01_072813_07	
Upper Bons	pH, Field	7/29/2013	7.75	pH Units	01 072813 07	
оррег воль	pri, ricia	772372013		Offics	01_0/2013_0/	Analyte detected
			300	μg/L		between MDL and
Upper Bons	Potassium	7/29/2013			01_072813_07	ML
Upper Bons	Selenium	7/29/2013	< 1	μg/L	01_072813_07	Undetected
Upper Bons	Sodium	7/29/2013	3300	μg/L	01_072813_07	
Upper Bons	Sulfate	7/29/2013	38700	μg/L	01_072813_07	
Upper Bons	Temperature, Field	7/29/2013	3.6	°C	01_072813_07	
Upper Bons	Total Dissolved Solids	7/29/2013	110000	μg/L	01_072813_07	
Upper Bons	Total Suspended Solids	7/29/2013	< 5000	μg/L	01_072813_07	Undetected
Upper Bons	Zinc	7/29/2013	5	μg/L	01_072813_07	
Upper Bons	Alkalinity (As CaCO3)	8/9/2013	46000	μg/L	01_081113_07	
Upper Bons	Aluminum	8/9/2013	50	μg/L	01_081113_07	
Upper Bons	Bicarbonate (As CaC03)	8/9/2013	46000	μg/L	01_081113_07	
			< 0.1			

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Upper Bons	Calcium	8/9/2013	15900	μg/L	01_081113_07	
Upper Bons	Carbonate (AS CaCO3)	8/9/2013	< 2000	μg/L	01_081113_07	Undetected
Upper Bons	Chloride	8/9/2013	720	μg/L	01_081113_07	Analyte detected between MDL and ML
Upper Bons	Conductivity, Field	8/9/2013	85.6	uS/cm	01_081113_07	
Upper Bons	Iron	8/9/2013	20	μg/L	01_081113_07	Analyte detected between MDL and ML
Upper Bons	Lead	8/9/2013	0.3	μg/L	01_081113_07	Analyte detected between MDL and ML
Upper Bons	Magnesium	8/9/2013	6100	μg/L	01_081113_07	
Upper Bons	pH, Field	8/9/2013	7.59	pH Units	01_081113_07	
Upper Bons	Potassium	8/9/2013	300	μg/L	01_081113_07	Analyte detected between MDL and ML
Upper Bons	Selenium	8/9/2013	< 1	μg/L	01_081113_07	Undetected
Upper Bons	Sodium	8/9/2013	2600	μg/L	01_081113_07	
Upper Bons	Sulfate	8/9/2013	24100	μg/L	01_081113_07	
Upper Bons	Temperature, Field	8/9/2013	4.0	°C	01_081113_07	
Upper Bons	Total Dissolved Solids	8/9/2013	80000	μg/L	01_081113_07	
Upper Bons	Total Suspended Solids	8/9/2013	< 5000	μg/L	01_081113_07	Undetected
Upper Bons	Zinc	8/9/2013	8	μg/L	01_081113_07	
Upper Bons	Alkalinity (As CaCO3)	8/23/2013	59000	μg/L	01_082513_07	
Upper Bons	Aluminum	8/23/2013	24	μg/L	01_082513_07	
Upper Bons	Bicarbonate (As CaC03)	8/23/2013	59000	μg/L	01_082513_07	
Upper Bons	Cadmium	8/23/2013	< 0.1	μg/L	01_082513_07	Undetected
Upper Bons	Calcium	8/23/2013	21400	μg/L	01_082513_07	
Upper Bons	Carbonate (AS CaCO3)	8/23/2013	< 2000	μg/L	01_082513_07	Undetected
Upper Bons	Chloride	8/23/2013	510	μg/L	01_082513_07	Analyte detected between MDL and ML
Upper Bons	Conductivity, Field	8/23/2013	110.6	uS/cm	01_082513_07	
Upper Bons	Iron	8/23/2013	< 20	μg/L	01_082513_07	Undetected
Upper Bons	Lead	8/23/2013	1.2	μg/L	01_082513_07	
Upper Bons	Magnesium	8/23/2013	8200	μg/L	01_082513_07	
Upper Bons	pH, Field	8/23/2013	7.54	pH Units	01_082513_07	
Upper Bons	Potassium	8/23/2013	300	μg/L	01_082513_07	Analyte detected between MDL and ML
Upper Bons	Selenium	8/23/2013	< 1	μg/L	01_082513_07	Undetected

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Upper Bons	Sodium	8/23/2013	3300	μg/L	01_082513_07	
Upper Bons	Sulfate	8/23/2013	34600	μg/L	01_082513_07	
Upper Bons	Temperature, Field	8/23/2013	3.5	°C	01_082513_07	
Upper Bons	Total Dissolved Solids	8/23/2013	102000	μg/L	01_082513_07	
Upper Bons	Total Suspended Solids	8/23/2013	< 5000	μg/L	01_082513_07	Undetected
Upper Bons	Zinc	8/23/2013	9	μg/L	01_082513_07	
Upper Bons	Alkalinity (As CaCO3)	9/12/2013	64000	μg/L	01_090813_07	
Upper Bons	Aluminum	9/12/2013	16	μg/L	01_090813_07	
Upper Bons	Bicarbonate (As CaCO3)	9/12/2013	64000	μg/L	01_090813_07	
Upper Bons	Cadmium	9/12/2013	< 0.1	μg/L	01_090813_07	Undetected
Upper Bons	Calcium	9/12/2013	24700	μg/L	01_090813_07	
Upper Bons	Carbonate (AS CaCO3)	9/12/2013	< 2000	μg/L	01_090813_07	Undetected
Upper Bons	Chloride	9/12/2013	690	μg/L	01 090813 07	Analyte detected between MDL and ML
Upper Bons	Conductivity, Field	9/12/2013	122.6	uS/cm	01_090813_07	
Upper Bons	Iron	9/12/2013		μg/L	01_090813_07	Undetected
Upper Bons	Lead	9/12/2013		μg/L	01_090813_07	Analyte detected between MDL and ML
Upper Bons	Magnesium	9/12/2013	9400	μg/L	01_090813_07	
Upper Bons	pH, Field	9/12/2013	7.56	pH Units	01_090813_07	
Upper Bons	Potassium	9/12/2013	400	μg/L	01 090813 07	Analyte detected between MDL and ML
Upper Bons	Selenium	9/12/2013	<i>-</i> 1	μg/L	01_090813_07	Undetected
Upper Bons	Sodium	9/12/2013	3600		01_090813_07	Ondetected
Upper Bons	Sulfate	9/12/2013	41800		01_090813_07	
Upper Bons	Temperature, Field	9/12/2013	1.8		01_090813_07	
Upper Bons	Total Dissolved Solids	9/12/2013	116000		01 090813 07	
Upper Bons	Total Suspended Solids	9/12/2013	< 5000		01 090813 07	Undetected
Upper Bons	Zinc	9/12/2013		μg/L	01 090813 07	Onactettea
Upper Bons	Alkalinity (As CaC03)	9/27/2013	60000		01_092213_07	
Upper Bons	Aluminum	9/27/2013		μg/L	01 092213 07	
Upper Bons	Bicarbonate (As CaC03)	9/27/2013	60000		01_092213_07	
Upper Bons	Cadmium	9/27/2013	< 0.1		01_092213_07	Undetected
Upper Bons	Calcium	9/27/2013	23900		01 092213 07	Gildeteeted
Upper Bons	Carbonate (AS CaCO3)	9/27/2013	< 2000		01_092213_07	Undetected
- PPC. 50115		5, 2., 2013		1-0/ -	51_552215_67	Analyte detected
			600	μg/L		between MDL and
Upper Bons	Chloride	9/27/2013			01_092213_07	ML
Upper Bons	Conductivity, Field	9/27/2013	114.4	uS/cm	01_092213_07	

Upper Bons         Iron         9/27/2013         < 20 μg/L	ected DL and ected DL and
Upper Bons   Lead   9/27/2013   01_092213_07   ML	DL and ected DL and
Upper Bons         pH, Field         9/27/2013         7.84 Units         pH Units         01_092213_07           Analyte det between M Upper Bons         Potassium         9/27/2013         01_092213_07 ML           Upper Bons         Selenium         9/27/2013         < 1 μg/L	DL and
Upper Bons         pH, Field         9/27/2013         7.84 / Units         01_092213_07           Analyte det between M           Upper Bons         Potassium         9/27/2013         01_092213_07 / ML           Upper Bons         Selenium         9/27/2013         < 1 μg/L	DL and
400 μg/L       between M         Upper Bons       Potassium       9/27/2013       01_092213_07       ML         Upper Bons       Selenium       9/27/2013       < 1 μg/L	DL and
Unner Bons Sodium 9/27/2012 3500 ug/l 01 002212 07	
Opper Bons Socialin 9/2//2013 3300 Mg/r 01_032213_0/	
Upper Bons Sulfate 9/27/2013 40500 μg/L 01_092213_07	
Upper Bons         Temperature, Field         9/27/2013         0 °C         01_092213_07	
Upper Bons Total Dissolved Solids 9/27/2013 120000 μg/L 01_092213_07	
Upper Bons Total Suspended Solids 9/27/2013 < 5000 μg/L 01_092213_07 Undetected	I
Upper Bons Zinc 9/27/2013 7 μg/L 01_092213_07	
Upper Bons Alkalinity (As CaC03) 10/7/2013 66000 μg/L 01_101313_07	
Upper Bons Aluminum 10/7/2013 19 μg/L 01_101313_07	
Upper Bons Bicarbonate (As CaC03) 10/7/2013 66000 μg/L 01_101313_07	
$0.1~\mu\text{g/L} & \text{between M} \\ \text{Upper Bons} & \text{Cadmium} & 10/7/2013 & 01\_101313\_07 ~\text{ML} \\ \end{array}$	
Upper Bons Calcium 10/7/2013 25600 μg/L 01_101313_07	
Upper Bons Carbonate (AS CaCO3) 10/7/2013 < 2000 μg/L 01_101313_07 Undetected	
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	
Upper Bons Conductivity, Field 10/7/2013 122.3 uS/cm 01_101313_07	
Upper Bons Iron 10/7/2013 < 20 μg/L 01_101313_07 Undetected	I
Upper Bons Lead 10/7/2013 3.1 μg/L 01_101313_07	
Upper Bons Magnesium 10/7/2013 9900 μg/L 01_101313_07	
Upper Bons pH, Field 10/7/2013 7.82 pH Units 01_101313_07	
$300~\mu g/L \hspace{1cm} \text{between M}$ Upper Bons Potassium $10/7/2013 \hspace{1cm} 01\_101313\_07 \hspace{1cm} \text{ML}$	
Upper Bons Selenium 10/7/2013 < 1 μg/L 01_101313_07 Undetected	ı
Upper Bons Sodium 10/7/2013 3700 μg/L 01_101313_07	
Upper Bons Sulfate 10/7/2013 44100 μg/L 01_101313_07	
Upper Bons Temperature, Field 10/7/2013 0 °C 01_101313_07	
Upper Bons Total Dissolved Solids 10/7/2013 118000 μg/L 01_101313_07	
Upper Bons Total Suspended Solids 10/7/2013 < 5000 μg/L 01_101313_07 Undetected	1

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Upper Bons	Zinc	10/7/2013	15	μg/L	01_101313_07	
Upper Bons	Alkalinity (As CaCO3)	10/11/2013	67000	μg/L	01_102713_07	
Upper Bons	Aluminum	10/11/2013	5	μg/L	01_102713_07	
Upper Bons	Bicarbonate (As CaCO3)	10/11/2013	67000	μg/L	01_102713_07	
Upper Bons	Cadmium	10/11/2013	< 0.1	μg/L	01_102713_07	Undetected
Upper Bons	Calcium	10/11/2013	26400	μg/L	01_102713_07	
Upper Bons	Carbonate (AS CaCO3)	10/11/2013	< 2000	μg/L	01_102713_07	Undetected
Upper Bons	Chloride	10/11/2013	530	μg/L	01_102713_07	Analyte detected between MDL and ML
Upper Bons	Conductivity, Field	10/11/2013	132.6	uS/cm	01 102713 07	
Upper Bons	Iron	10/11/2013	< 20	μg/L	01_102713_07	Undetected
Upper Bons	Lead	10/11/2013	0.1	μg/L	01_102713_07	Analyte detected between MDL and ML
Upper Bons	Magnesium	10/11/2013	10300	μg/L	01_102713_07	
Upper Bons	pH, Field	10/11/2013	7.60	pH Units	01_102713_07	
Upper Bons	Potassium	10/11/2013	300	μg/L	01_102713_07	Analyte detected between MDL and ML
Upper Bons	Selenium	10/11/2013	< 1	μg/L	01_102713_07	Undetected
Upper Bons	Sodium	10/11/2013	3900	μg/L	01_102713_07	
Upper Bons	Sulfate	10/11/2013	45500	μg/L	01_102713_07	
Upper Bons	Temperature, Field	10/11/2013	1.5	°C	01_102713_07	
Upper Bons	Total Dissolved Solids	10/11/2013	136000	μg/L	01_102713_07	
Upper Bons	Total Suspended Solids	10/11/2013	< 5000	μg/L	01_102713_07	Undetected
Upper Bons	Zinc	10/11/2013	9	μg/L	01_102713_07	

Appendix B, Mine Water Quality Sample Results for 4<sup>th</sup> Quarter 2013

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
East Sump	Acidity as CaCO3	10/18/2013	< 10	mg/L	02_100113_01	Undetected
East Sump	Aluminum, dissolved	10/18/2013	< 0.03	mg/L	02_100113_01	Undetected
			0.3	mg/L		Analyte detected
East Sump	Ammonia (As N)	10/18/2013			02_100113_01	between MDL and ML
East Sump	Cadmium, dissolved	10/18/2013	0.0160		02_100113_01	
East Sump	Calcium, dissolved	10/18/2013		mg/L	02_100113_01	
East Sump	Chloride	10/18/2013		mg/L	02_100113_01	Undetected
East Sump	Conductivity, Field	10/18/2013		uS/cm	02_100113_01	
East Sump	Copper, dissolved	10/18/2013	< 0.001		02_100113_01	Undetected
East Sump	Cyanide, WAD	10/18/2013	< 0.003		02_100113_01	Undetected
East Sump	Iron, dissolved	10/18/2013		mg/L	02_100113_01	
East Sump	Lead, dissolved	10/18/2013	0.0022	mg/L	02_100113_01	
East Sump	Magnesium, dissolved	10/18/2013	209	mg/L	02_100113_01	
East Sump	Manganese, dissolved	10/18/2013	6.49	mg/L	02_100113_01	
East Sump	pH, Field	10/18/2013	6.41	pH Units	02_100113_01	
East Sump	Potassium, Dissolved	10/18/2013	2.4	mg/L	02_100113_01	
East Sump	Selenium, dissolved	10/18/2013	0.0014	mg/L	02_100113_01	
East Sump	Selenium, dissolved	10/18/2013	< 0.001	mg/L	02_100113_01	Undetected
East Sump	Sodium, dissolved	10/18/2013	5.1	mg/L	02_100113_01	
East Sump	Sulfate	10/18/2013	1440	mg/L	02_100113_01	
East Sump	Temperature, Field	10/18/2013	1.2	°C	02_100113_01	
East Sump	Total Dissolved Solids	10/18/2013	2080	mg/L	02_100113_01	Analysis exceeded method hold time
East Sump	Zinc, dissolved	10/18/2013	18.6	mg/L	02_100113_01	
East Sump	Acidity as CaCO3	11/18/2013	< 10	mg/L	02_110113_01	Undetected
East Sump	Aluminum, dissolved	11/18/2013	< 0.6	mg/L	02_110113_01	Undetected
East Sump	Ammonia (As N)	11/18/2013	0.4	mg/L	02_110113_01	Analyte detected between MDL and ML
East Sump	Cadmium, dissolved	11/18/2013	0.0317	mg/L	02_110113_01	
East Sump	Calcium, dissolved	11/18/2013	455	mg/L	02_110113_01	
East Sump	Chloride	11/18/2013	< 25	mg/L	02_110113_01	Undetected
East Sump	Conductivity, Field	11/18/2013	1890	uS/cm	02_110113_01	
East Sump	Copper, dissolved	11/18/2013	< 0.003	mg/L	02_110113_01	Undetected
East Sump	Cyanide, WAD	11/18/2013	< 0.003	mg/L	02_110113_01	Undetected
East Sump	Iron, dissolved	11/18/2013	< 0.4	mg/L	02_110113_01	Undetected
East Sump	Lead, dissolved	11/18/2013	< 0.0005	mg/L	02_110113_01	Undetected
East Sump	Magnesium, dissolved	11/18/2013		mg/L	02_110113_01	
East Sump	Manganese, dissolved	11/18/2013	12.80	mg/L	02_110113_01	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
East Sump	pH, Field	11/18/2013	6.64	pH Units	02_110113_01	
East Sump	Potassium, Dissolved	11/18/2013	< 6	mg/L	02_110113_01	Undetected
East Sump	Selenium, dissolved	11/18/2013	< 0.0005	mg/L	02_110113_01	Undetected
East Sump	Selenium, dissolved	11/18/2013	< 0.001	mg/L	02_110113_01	Undetected
East Sump	Sodium, dissolved	11/18/2013	10	mg/L	02_110113_01	Analyte detected between MDL and ML
East Sump	Sulfate	11/18/2013	2520	mg/L	02_110113_01	
East Sump	Temperature, Field	11/18/2013	0.4	°C	02_110113_01	
East Sump	Total Dissolved Solids	11/18/2013	4050	mg/L	02_110113_01	Analysis exceeded method hold time
East Sump	Zinc, dissolved	11/18/2013	33.9	mg/L	02_110113_01	
East Sump	Acidity as CaCO3	12/6/2013	< 10	mg/L	02_120113_01	Undetected
East Sump	Aluminum, dissolved	12/6/2013	< 0.2	mg/L	02_120113_01	Undetected
East Sump	Ammonia (As N)	12/6/2013	0.5	mg/L	02_120113_01	
East Sump	Cadmium, dissolved	12/6/2013	0.0269	mg/L	02_120113_01	
East Sump	Calcium, dissolved	12/6/2013	474	mg/L	02_120113_01	
East Sump	Chloride	12/6/2013	< 25	mg/L	02_120113_01	Undetected
East Sump	Conductivity, Field	12/6/2013	2353	uS/cm	02_120113_01	
East Sump	Copper, dissolved	12/6/2013	0.002	mg/L	02_120113_01	Analyte detected between MDL and ML
East Sump	Cyanide, WAD	12/6/2013	< 0.003	mg/L	02_120113_01	Undetected
East Sump	Iron, dissolved	12/6/2013	0.1	mg/L	02_120113_01	Analyte detected between MDL and ML
East Sump	Lead, dissolved	12/6/2013	< 0.0002	mg/L	02_120113_01	Undetected
East Sump	Magnesium, dissolved	12/6/2013	437	mg/L	02_120113_01	
East Sump	Manganese, dissolved	12/6/2013	20.1	mg/L	02_120113_01	
East Sump	pH, Field	12/6/2013	6.56	pH Units	02_120113_01	
East Sump	Potassium, Dissolved	12/6/2013		mg/L	02_120113_01	Analyte detected between MDL and ML
East Sump	Selenium, dissolved	12/6/2013	< 0.0002	mg/L	02_120113_01	Undetected
East Sump	Selenium, dissolved	12/6/2013	< 0.001	mg/L	02_120113_01	Undetected
East Sump	Sodium, dissolved	12/6/2013	10	mg/L	02_120113_01	
East Sump	Sulfate	12/6/2013	2720	mg/L	02_120113_01	
East Sump	Temperature, Field	12/6/2013	2.1	°C	02_120113_01	
East Sump	Total Dissolved Solids	12/6/2013	3990	mg/L	02_120113_01	Analysis exceeded method hold time
East Sump	Zinc, dissolved	12/6/2013	30.2	mg/L	02_120113_01	
Mine Sump	Acidity as CaCO3	10/18/2013	2280	mg/L	02_100113_02	
Mine Sump	Aluminum, dissolved	10/18/2013	48.80	mg/L	02_100113_02	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Mine Sump	Ammonia (As N)	10/18/2013	2	mg/L	02_100113_02	Analyte detected between MDL and ML
Mine Sump	Cadmium, dissolved	10/18/2013	6.5	mg/L	02_100113_02	between wide and wie
Mine Sump	Calcium, dissolved	10/18/2013		mg/L	02_100113_02	
Mine Sump	Chloride	10/18/2013		mg/L	02_100113_02	Undetected
Mine Sump	Conductivity, Field	10/18/2013		uS/cm	02 100113_02	Ondetected
Mine Sump	Copper, dissolved	10/18/2013	0.434		02_100113_02	
Mine Sump	Iron, dissolved	10/18/2013		mg/L	02_100113_02	
Mine Sump	Lead, dissolved	10/18/2013	1.7200		02_100113_02	
Willie Sump	Magnesium,	10/18/2013	1.7200	1116/ L	02_100113_02	
Mine Sump	dissolved	10/18/2013	101	mg/L	02_100113_02	
р	Manganese,		24.5	/1		
Mine Sump	dissolved	10/18/2013	21.5	mg/L	02_100113_02	
			3.06	рН		
Mine Sump	pH, Field	10/18/2013	3.00	Units	02_100113_02	
			1	mg/L		Analyte detected
Mine Sump	Potassium, Dissolved	10/18/2013			02_100113_02	between MDL and ML
Mine Sump	Selenium, dissolved	10/18/2013	0.0043	mg/L	02_100113_02	
Min o Curan	Calanium diasaluad	10/10/2012	0.0026	mg/L	02 100112 02	Analyte detected
Mine Sump	Selenium, dissolved	10/18/2013	4.5	m a /I	02_100113_02	between MDL and ML
Mine Sump	Sodium, dissolved	10/18/2013		mg/L	02_100113_02	
Mine Sump	Sulfate	10/18/2013		mg/L	02_100113_02	
Mine Sump	Temperature, Field	10/18/2013	2.2	٠.	02_100113_02	A malusia ayaa adad
Mine Sump	Total Dissolved Solids	10/18/2013	5670	mg/L	02_100113_02	Analysis exceeded method hold time
Mine Sump	Zinc, dissolved	10/18/2013	106	mg/L	02 100113_02	method hold time
Mine Sump	Acidity as CaCO3	11/18/2013	10300		02_100113_02	
Mine Sump	Aluminum, dissolved	11/18/2013		mg/L	02_110113_02	
wille Sump	Aluminum, dissolved	11/16/2015			02_110113_02	Analyte detected
Mine Sump	Ammonia (As N)	11/18/2013	2	mg/L	02_110113_02	between MDL and ML
Mine Sump	Cadmium, dissolved	11/18/2013	9	mg/L	02_110113_02	
Mine Sump	Calcium, dissolved	11/18/2013		mg/L	02_110113_02	
Mine Sump	Chloride	11/18/2013		mg/L	02_110113_02	Undetected
Mine Sump	Conductivity, Field	11/18/2013		uS/cm	02 110113_02	Onactedea
Mine Sump	Copper, dissolved	11/18/2013	0.256		02_110113_02	
Mine Sump	Iron, dissolved	11/18/2013		mg/L	02_110113_02	
Mine Sump	Lead, dissolved	11/18/2013	0.6700		02_110113_02	
Willie Sump	Magnesium,	11/10/2015			02_110113_02	
Mine Sump	dissolved	11/18/2013	188	mg/L	02_110113_02	
,	Manganese,		24	m = /1		
Mine Sump	dissolved	11/18/2013	31	mg/L	02_110113_02	
			4.59	рН		
Mine Sump	pH, Field	11/18/2013		Units	02_110113_02	
Mine Sump	Potassium, Dissolved	11/18/2013	< 6	mg/L	02_110113_02	Undetected

		Sample			Sample	
Location	Analyte	Date	Result	Unit	Number	Qualifier Comment
Mine Sump	Selenium, dissolved	11/18/2013	0.0024		02_110113_02	
Mine Sump	Selenium, dissolved	11/18/2013	< 0.001	mg/L	02_110113_02	Undetected
			10	mg/L		Analyte detected
Mine Sump	Sodium, dissolved	11/18/2013			02_110113_02	between MDL and ML
Mine Sump	Sulfate	11/18/2013		mg/L	02_110113_02	
Mine Sump	Temperature, Field	11/18/2013	1	°C	02_110113_02	
Mine Sump	Total Dissolved Solids	11/18/2013	7330	mg/L	02 110113 02	Analysis exceeded method hold time
Mine Sump	Zinc, dissolved	11/18/2013	1240	mg/L	02 110113_02	method hold time
Mine Sump	Acidity as CaCO3	12/9/2013		mg/L	02 120113 02	
Mine Sump	Aluminum, dissolved	12/9/2013		mg/L	02_120113_02	
Mine Sump	Ammonia (As N)	12/9/2013		mg/L	02_120113_02	
Mine Sump	Cadmium, dissolved	12/9/2013		mg/L	02_120113_02	
Mine Sump	Calcium, dissolved	12/9/2013		mg/L	02 120113_02	
Mine Sump	Chloride	12/9/2013		mg/L	02_120113_02	Undetected
		12/9/2013		uS/cm		Ondetected
Mine Sump	Conductivity, Field				02_120113_02	
Mine Sump	Copper, dissolved	12/9/2013	0.248		02_120113_02	
Mine Sump	Iron, dissolved	12/9/2013		mg/L	02_120113_02	
Mine Sump	Lead, dissolved	12/9/2013	0.7785	mg/L	02_120113_02	
Mine Sump	Magnesium, dissolved	12/9/2013	264	mg/L	02_120113_02	
	Manganese,		1	ma/l		Analyte detected
Mine Sump	dissolved	12/9/2013	4	mg/L	02_120113_02	between MDL and ML
			5.46	рН		
Mine Sump	pH, Field	12/9/2013		Units	02_120113_02	
Mina Cumn	Dotaccium Discolved	12/0/2012	2	mg/L	02 120112 02	Analyte detected between MDL and ML
Mine Sump	Potassium, Dissolved	12/9/2013	0.0015	ma/l	02_120113_02	between MDL and ML
Mine Sump	Selenium, dissolved	12/9/2013	0.0015		02_120113_02	I I and a banaka al
Mine Sump	Selenium, dissolved	12/9/2013	< 0.005		02_120113_02	Undetected
Mine Sump	Sodium, dissolved	12/9/2013		mg/L	02_120113_02	
Mine Sump	Sulfate	12/9/2013		mg/L	02_120113_02	
Mine Sump	Temperature, Field	12/9/2013	1.3		02_120113_02	
Mine Sump	Total Dissolved Solids	12/9/2013		mg/L	02_120113_02	
Mine Sump	Zinc, dissolved	12/9/2013		mg/L	02_120113_02	
Reclaim Water	Acidity as CaCO3	10/17/2013		mg/L	02_100113_08	
Reclaim Water	Aluminum, dissolved	10/17/2013		mg/L	02_100113_08	
Reclaim Water	Ammonia (As N)	10/17/2013		mg/L	02_100113_08	
Reclaim Water	Cadmium, dissolved	10/17/2013	3.890		02_100113_08	
Reclaim Water	Calcium, dissolved	10/17/2013		mg/L	02_100113_08	
Reclaim Water	Chloride	10/17/2013		mg/L	02_100113_08	Undetected
Reclaim Water	Conductivity, Field	10/17/2013		uS/cm	02_100113_08	
Reclaim Water	Copper, dissolved	10/17/2013	0.035	mg/L	02_100113_08	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Reclaim Water	Iron, dissolved	10/17/2013	15.60	mg/L	02_100113_08	
Reclaim Water	Lead, dissolved	10/17/2013	1.7600	mg/L	02_100113_08	
	Magnesium,		205	mg/L		
Reclaim Water	dissolved	10/17/2013		6/ =	02_100113_08	
Daglaina Watan	Manganese,	10/17/2012	54.500	mg/L	02 100112 00	
Reclaim Water	dissolved	10/17/2013		n∐	02_100113_08	
Reclaim Water	pH, Field	10/17/2013	4.93	pH Units	02_100113_08	
Reclaim Water	Potassium, Dissolved	10/17/2013	19.1	mg/L	02_100113_08	
Reclaim Water	Selenium, dissolved	10/17/2013	0.0057		02_100113_08	
						Analyte detected
Reclaim Water	Selenium, dissolved	10/17/2013	0.0042	mg/L	02_100113_08	between MDL and ML
Reclaim Water	Sodium, dissolved	10/17/2013	77.2	mg/L	02_100113_08	
Reclaim Water	Sulfate	10/17/2013	3680	mg/L	02_100113_08	
Reclaim Water	Temperature, Field	10/17/2013	3.4	°C	02_100113_08	
			5/150	mg/L		Analysis exceeded
Reclaim Water	Total Dissolved Solids	10/17/2013			02_100113_08	method hold time
Reclaim Water	Acidity as CaCO3	11/11/2013	900	mg/L	02_110113_08	
Reclaim Water	Aluminum, dissolved	11/11/2013	5.8	mg/L	02_110113_08	
Reclaim Water	Ammonia (As N)	11/11/2013	5	mg/L	02_110113_08	
Reclaim Water	Cadmium, dissolved	11/11/2013	4.71	mg/L	02_110113_08	
Reclaim Water	Calcium, dissolved	11/11/2013	568	mg/L	02_110113_08	
Reclaim Water	Chloride	11/11/2013	< 50	mg/L	02_110113_08	Undetected
Reclaim Water	Conductivity, Field	11/11/2013	4424	uS/cm	02_110113_08	
Reclaim Water	Copper, dissolved	11/11/2013	0.078	mg/L	02_110113_08	
Reclaim Water	Iron, dissolved	11/11/2013	20	mg/L	02_110113_08	
Reclaim Water	Lead, dissolved	11/11/2013	2.0300	mg/L	02_110113_08	
	Magnesium,		221	mg/L		
Reclaim Water	dissolved	11/11/2013		6/ =	02_110113_08	
Reclaim Water	Manganese, dissolved	11/11/2013	60.50	mg/L	02 110113 08	
Reciaiiii watei	uissoiveu	11/11/2015		рН	02_110113_08	
Reclaim Water	pH, Field	11/11/2013	4.54	Units	02_110113_08	
Reclaim Water	Potassium, Dissolved	11/11/2013	20	mg/L	02_110113_08	
Reclaim Water	Selenium, dissolved	11/11/2013	0.0054		02_110113_08	
Trace	Coloniality allocation	,,,			0=_==0==0	Analyte detected
Reclaim Water	Selenium, dissolved	11/11/2013	0.0047	mg/L	02_110113_08	between MDL and ML
Reclaim Water	Sodium, dissolved	11/11/2013	81	mg/L	02_110113_08	
Reclaim Water	Sulfate	11/11/2013	3640	mg/L	02_110113_08	
Reclaim Water	Temperature, Field	11/11/2013	1.7	°C	02_110113_08	
			5/190	mg/L		Analysis exceeded
Reclaim Water	Total Dissolved Solids	11/11/2013			02_110113_08	method hold time
Reclaim Water	Zinc, dissolved	11/11/2013	629	mg/L	02_110113_08	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Reclaim Water	Acidity as CaCO3	12/9/2013	970	mg/L	02_120113_08	
Reclaim Water	Aluminum, dissolved	12/9/2013	3.460	mg/L	02_120113_08	
Reclaim Water	Ammonia (As N)	12/9/2013	5.4	mg/L	02_120113_08	
Reclaim Water	Cadmium, dissolved	12/9/2013	4.43	mg/L	02_120113_08	
Reclaim Water	Calcium, dissolved	12/9/2013	539	mg/L	02_120113_08	
Reclaim Water	Chloride	12/9/2013	< 50	mg/L	02_120113_08	Undetected
Reclaim Water	Conductivity, Field	12/9/2013	4500	uS/cm	02_120113_08	
Reclaim Water	Copper, dissolved	12/9/2013	0.031	mg/L	02_120113_08	
Reclaim Water	Iron, dissolved	12/9/2013	17	mg/L	02_120113_08	
Reclaim Water	Lead, dissolved	12/9/2013	1.8600	mg/L	02_120113_08	
Reclaim Water	Magnesium, dissolved	12/9/2013	206	mg/L	02_120113_08	
Reclaim Water	Manganese, dissolved	12/9/2013	57.50		02_120113_08	
Reclaim Water	pH, Field	12/9/2013	4.76	pH Units	02_120113_08	
Reclaim Water	Potassium, Dissolved	12/9/2013		mg/L	02_120113_08	
Reclaim Water	Selenium, dissolved	12/9/2013	0.0050	mg/L	02_120113_08	
Reclaim Water	Selenium, dissolved	12/9/2013	0.0052	mg/L	02_120113_08	Analyte detected between MDL and ML
Reclaim Water	Sodium, dissolved	12/9/2013	75	mg/L	02_120113_08	
Reclaim Water	Sulfate	12/9/2013		mg/L	02_120113_08	
Reclaim Water	Temperature, Field	12/9/2013	4.0	°C	02_120113_08	
Reclaim Water	Total Dissolved Solids	12/9/2013	5710	mg/L	02_120113_08	
Reclaim Water	Zinc, dissolved	12/9/2013	609	mg/L	02_120113_08	
Seepage Pond	Acidity as CaCO3	10/17/2013	1340	mg/L	02_100113_05	
Seepage Pond	Aluminum, dissolved	10/17/2013	4.6	mg/L	02_100113_05	
Seepage Pond	Ammonia (As N)	10/17/2013	4.7	mg/L	02_100113_05	
Seepage Pond	Cadmium, dissolved	10/17/2013	6.700	mg/L	02_100113_05	
Seepage Pond	Calcium, dissolved	10/17/2013	471	mg/L	02_100113_05	
Seepage Pond	Chloride	10/17/2013	< 50	mg/L	02_100113_05	Undetected
Seepage Pond	Conductivity, Field	10/17/2013	3664	uS/cm	02_100113_05	
Seepage Pond	Copper, dissolved	10/17/2013	0.006	mg/L	02_100113_05	Analyte detected between MDL and ML
Seepage Pond	Iron, dissolved	10/17/2013	220	mg/L	02_100113_05	
Seepage Pond	Lead, dissolved	10/17/2013	0.0257	mg/L	02_100113_05	
Seepage Pond	Magnesium, dissolved	10/17/2013	332	mg/L	02_100113_05	
Seepage Pond	Manganese, dissolved	10/17/2013	110	mg/L	02_100113_05	
Seepage Pond	pH, Field	10/17/2013	5.25	pH Units	02_100113_05	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
		10/1=/0010	21	mg/L		Analyte detected
Seepage Pond	Potassium, Dissolved	10/17/2013			02_100113_05	between MDL and ML
Seepage Pond	Selenium, dissolved	10/17/2013	< 0.001		02_100113_05	Undetected
Seepage Pond	Sodium, dissolved	10/17/2013		mg/L	02_100113_05	
Seepage Pond	Sulfate	10/17/2013		mg/L	02_100113_05	
Seepage Pond	Temperature, Field	10/17/2013	4.7	°C	02_100113_05	
Seepage Pond	Total Dissolved Solids	10/17/2013		mg/L	02_100113_05	Analysis exceeded method hold time
Seepage Pond	Zinc, dissolved	10/17/2013		mg/L	02_100113_05	
Seepage Pond	Acidity as CaCO3	11/11/2013	2230	mg/L	02_110113_05	
Seepage Pond	Aluminum, dissolved	11/11/2013	13.5	mg/L	02_110113_05	
Seepage Pond	Ammonia (As N)	11/11/2013	3.9	mg/L	02_110113_05	
Seepage Pond	Cadmium, dissolved	11/11/2013	7.530	mg/L	02_110113_05	
Seepage Pond	Calcium, dissolved	11/11/2013	444	mg/L	02_110113_05	
Seepage Pond	Chloride	11/11/2013	< 50	mg/L	02_110113_05	Undetected
Seepage Pond	Conductivity, Field	11/11/2013	3846	uS/cm	02_110113_05	
Seepage Pond	Copper, dissolved	11/11/2013	0.124	mg/L	02_110113_05	
Seepage Pond	Iron, dissolved	11/11/2013	177	mg/L	02_110113_05	
Seepage Pond	Lead, dissolved	11/11/2013	0.1921	mg/L	02_110113_05	
Seepage Pond	Magnesium, dissolved	11/11/2013	356	mg/L	02_110113_05	
Seepage Pond	Manganese, dissolved	11/11/2013	120	mg/L	02_110113_05	
Seepage Pond	pH, Field	11/11/2013	4.7	pH Units	02_110113_05	
Seepage Pond	Potassium, Dissolved	11/11/2013	17	mg/L	02_110113_05	
Seepage Pond	Selenium, dissolved	11/11/2013	< 0.005	mg/L	02_110113_05	Undetected
Seepage Pond	Sodium, dissolved	11/11/2013	62	mg/L	02_110113_05	
Seepage Pond	Sulfate	11/11/2013	5590	mg/L	02_110113_05	
Seepage Pond	Temperature, Field	11/11/2013	4.4	°C	02_110113_05	
Seepage Pond	Total Dissolved Solids	11/11/2013	8150	mg/L	02_110113_05	Analysis exceeded method hold time
Seepage Pond	Zinc, dissolved	11/11/2013	1370	mg/L	02_110113_05	
Seepage Pond	Acidity as CaCO3	12/9/2013	2490	mg/L	02_120113_05	
Seepage Pond	Aluminum, dissolved	12/9/2013	13.7	mg/L	02_120113_05	
Seepage Pond	Ammonia (As N)	12/9/2013	4.3	mg/L	02_120113_05	
Seepage Pond	Cadmium, dissolved	12/9/2013	0.7	mg/L	02_120113_05	Analyte detected between MDL and ML
Seepage Pond	Calcium, dissolved	12/9/2013	439	mg/L	02_120113_05	
Seepage Pond	Chloride	12/9/2013	< 50	mg/L	02_120113_05	Undetected
Seepage Pond	Conductivity, Field	12/9/2013		uS/cm	02_120113_05	
Seepage Pond	Copper, dissolved	12/9/2013	0.061	mg/L	02_120113_05	
Seepage Pond	Iron, dissolved	12/9/2013		mg/L	02_120113_05	

Seepage Pond	Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Seepage Pond         Magnesium, dissolved         12/9/2013         365 mg/L         02_120113_05         Column (all or column)           Seepage Pond         dissolved         12/9/2013         12 mg/L         02_120113_05         Column (all or column)           Seepage Pond         pH, Field         12/9/2013         4.93 pH outs         02_120113_05         Column           Seepage Pond         Potassium, Dissolved         12/9/2013         4.93 pH outs         02_120113_05         Column           Seepage Pond         Selenium, dissolved         12/9/2013         <0.0005 mg/L	Seepage Pond	Lead, dissolved		0.1813	mg/L		
Seepage Pond         dissolved         12/9/2013         365 mg/L orange. Volume of the property of the prop			, _,				
Seepage Pond         dissolved         12/9/2013         12 mg/L         02_120113_05         Column (alteration of the properation of	Seepage Pond	- ·	12/9/2013	365	mg/L	02_120113_05	
Seepage Pond         pH, Field         12/9/2013         4.93 bits         02 120113 05         Cepage Pond         Potassium, Dissolved         12/9/2013         18 mg/L volume         02 120113 05         Cepage Pond         Seenage Pond         Seenage Pond volume, dissolved         12/9/2013         < 0.0005 mg/L volume         02 120113 05         Undetected           Seepage Pond         Seelenium, dissolved         12/9/2013         <0.005 mg/L volume	Coopers Dond		12/0/2012	12	mg/L	02 120112 05	
Seepage Pond         pH, Field         12/9/2013         4-93 bints         02, 120113_05         Cepage Pond         Potassium, Dissolved         12/9/2013         4-93 bints         02, 120113_05         Cepage Pond         Selenium, dissolved         12/9/2013         < 0.0005 mg/L         02, 120113_05         Undetected           Seepage Pond         Selenium, dissolved         12/9/2013         < 0.0005 mg/L	Seepage Pond	aissoivea	12/9/2013		n∐	02_120113_05	
Seepage Pond         Selenium, dissolved         12/9/2013         < 0.0005 mg/L         02_120113_05         Undetected           Seepage Pond         Selenium, dissolved         12/9/2013         < 0.005 mg/L	Seepage Pond	pH, Field	12/9/2013	4.93		02_120113_05	
Seepage Pond         Selenium, dissolved         12/9/2013         < 0.005         mg/L         02_120113_05         Undetected           Seepage Pond         Sodium, dissolved         12/9/2013         62         mg/L         02_120113_05         Compage Pond         Suffate         12/9/2013         5860         mg/L         02_120113_05         Compage Pond         Total Dissolved Solids         12/9/2013         9630         mg/L         02_120113_05         Compage Pond         Compage Pond         2 rotal Dissolved Solids         12/9/2013         9630         mg/L         02_120113_05         Compage Pond         Compage Pond         2 rotal Dissolved Solids         12/9/2013         138         mg/L         02_120113_05         Compage Pond         2 rotal Dissolved         10/17/2013         730         mg/L         02_120113_05         Compage Pond         2 rotal Dissolved         10/17/2013         730         mg/L         02_100113_07         Analyte detected between MDL and ML         Mange Pond         Analyte detected between MDL and ML         10/17/2013         6         mg/L         02_100113_07         Analyte detected between MDL and ML         10/17/2013         5.5         mg/L         02_100113_07         Undetected between MDL and ML         10/17/2013         5.5         mg/L         02_100113_07         Undetected between MDL and ML	Seepage Pond	Potassium, Dissolved	12/9/2013	18	mg/L	02_120113_05	
Seepage Pond         Sodium, dissolved         12/9/2013         62 mg/L         02_120113_05         Cepage Pond         Sulfate         12/9/2013         5860 mg/L         02_120113_05         Cepage Pond         Temperature, Field         12/9/2013         4 °C         02_120113_05         Cepage Pond         Temperature, Field         12/9/2013         9630 mg/L         02_120113_05         Cepage Pond         Time Portion (assolved)         12/9/2013         138 mg/L         02_120113_05         Cepage Pond         Time Portion (assolved)         12/9/2013         138 mg/L         02_120113_05         Cepage Pond         Time Portion (assolved)         12/9/2013         138 mg/L         02_120113_05         Cepage Pond         Time Portion (assolved)         10/17/2013         138 mg/L         02_120113_07         Cepage Pond         Time Portion (assolved)         10/17/2013         0.005 mg/L         02_100113_07         Analyte detected between MDL and ML         0.00113_07         Analyte detected between MDL and ML         0.00113_07         Cepage Pond         02_100113_07         Cepage Pond         0.017/2013         0.002 mg/L         02_100113_07         0.00113_07         0.00113_07         0.00113_07         0.00113_07         0.00113_07         0.00113_07         0.00113_07         0.00113_07         0.00113_07         0.00113_07         0.00113_07         0.00113_07         0.00	Seepage Pond	Selenium, dissolved	12/9/2013	< 0.0005	mg/L	02_120113_05	Undetected
Seepage Pond         Sulfate         12/9/2013         5860         mg/L         02_120113_05         Company           Seepage Pond         Temperature, Field         12/9/2013         4 °C         02_120113_05         Company         Com	Seepage Pond	Selenium, dissolved	12/9/2013	< 0.005	mg/L	02_120113_05	Undetected
Seepage Pond         Temperature, Field         12/9/2013         4 °C         02_120113_05         Company         Com	Seepage Pond	Sodium, dissolved	12/9/2013	62	mg/L	02_120113_05	
Seepage Pond         Total Dissolved Solids         12/9/2013         9630 mg/L         02_120113_05         Common Solid Solids         12/9/2013         138 mg/L         02_120113_05         Common Solid Solids         Common Solid Solids         12/9/2013         138 mg/L         02_120113_05         Common Solid Solids         Common Solid Solids         Common Solid Solids         Common Solid Solids         Manay to detected Detween MDL and ML D	Seepage Pond	Sulfate	12/9/2013	5860	mg/L	02_120113_05	
Seepage Pond         Zinc, dissolved         12/9/2013         138 mg/L         02_120113_05         Acadity as CaCO3         10/17/2013         730 mg/L         02_100113_07         Analyte detected between MDL and ML           Tailings Water         Aluminum, dissolved         10/17/2013         6 mg/L         02_100113_07         Analyte detected between MDL and ML           Tailings Water         Ammonia (As N)         10/17/2013         6 mg/L         02_100113_07         Detween MDL and ML           Tailings Water         Cadmium, dissolved         10/17/2013         5.5 mg/L         02_100113_07         Detween MDL and ML           Tailings Water         Calcium, dissolved         10/17/2013         5.5 mg/L         02_100113_07         Undetected           Tailings Water         Chloride         10/17/2013         4077         uS/cm         02_100113_07         Undetected           Tailings Water         Conductivity, Field         10/17/2013         0.127         mg/L         02_100113_07         Analyte detected           Tailings Water         Iron, dissolved         10/17/2013         0.02 mg/L         02_100113_07         Analyte detected           Tailings Water         Lead, dissolved         10/17/2013         57.5 mg/L         02_100113_07         Detween MDL and ML           Tailings Water </td <td>Seepage Pond</td> <td>Temperature, Field</td> <td>12/9/2013</td> <td>4</td> <td>°C</td> <td>02_120113_05</td> <td></td>	Seepage Pond	Temperature, Field	12/9/2013	4	°C	02_120113_05	
Tailings Water         Acidity as CaCO3         10/17/2013         730 mg/L         02_100113_07         Analyte detected between MDL and ML of 2_100113_07           Tailings Water         Aluminum, dissolved         10/17/2013         6 mg/L         02_100113_07         Analyte detected between MDL and ML of 2_100113_07           Tailings Water         Cadmium, dissolved         10/17/2013         5.5 mg/L         02_100113_07	Seepage Pond	<b>Total Dissolved Solids</b>	12/9/2013	9630	mg/L	02_120113_05	
Tailings Water         Aluminum, dissolved         10/17/2013         0.005 mg/L         02_100113_07         Analyte detected between MDL and ML between MDL and ML Detween MDL Detween MDL and ML Detween MDL De	Seepage Pond	Zinc, dissolved	12/9/2013	138	mg/L	02_120113_05	
Tailings Water         Aluminum, dissolved         10/17/2013         0.005 mg/L         02_100113_07         between MDL and ML           Tailings Water         Ammonia (As N)         10/17/2013         6 mg/L         02_100113_07	Tailings Water	Acidity as CaCO3	10/17/2013	730	mg/L	02_100113_07	
Tailings Water         Cadmium, dissolved         10/17/2013         5.5 mg/L         02_100113_07         Cadmium, dissolved         10/17/2013         585 mg/L         02_100113_07         Cadmium, dissolved         10/17/2013         585 mg/L         02_100113_07         Undetected           Tailings Water         Chloride         10/17/2013         4077 uS/cm         02_100113_07         Undetected           Tailings Water         Copper, dissolved         10/17/2013         0.02 mg/L         02_100113_07         Analyte detected between MDL and ML           Tailings Water         Iron, dissolved         10/17/2013         1.6600 mg/L         02_100113_07         Analyte detected between MDL and ML           Tailings Water         Lead, dissolved         10/17/2013         1.6600 mg/L         02_100113_07         Analyte detected between MDL and ML           Tailings Water         dissolved         10/17/2013         57.5 mg/L         02_100113_07         Analyte detected between MDL and ML           Tailings Water         pH, Field         10/17/2013         6.54 pH         pH         02_100113_07         Analyte detected between MDL and ML           Tailings Water         POtassium, Dissolved         10/17/2013         0.0054 mg/L         02_100113_07         Analyte detected between MDL and ML           Tailings Water         Selenium,	Tailings Water	Aluminum, dissolved	10/17/2013	0.005	mg/L	02_100113_07	•
Tailings Water         Calcium, dissolved         10/17/2013         585 mg/L         02_100113_07         Undetected           Tailings Water         Chloride         10/17/2013         <50 mg/L	Tailings Water	Ammonia (As N)	10/17/2013	6	mg/L	02_100113_07	
Tailings Water         Chloride         10/17/2013         < 50 mg/L         02_100113_07         Undetected           Tailings Water         Conductivity, Field         10/17/2013         4077 us/cm         02_100113_07         Analyte detected           Tailings Water         Copper, dissolved         10/17/2013         0.02 mg/L         02_100113_07         Analyte detected between MDL and ML           Tailings Water         Lead, dissolved         10/17/2013         1.6600 mg/L         02_100113_07         Analyte detected between MDL and ML           Tailings Water         Magnesium, dissolved         10/17/2013         209 mg/L         02_100113_07         Analyte detected between MDL and ML           Tailings Water         dissolved         10/17/2013         57.5 mg/L         02_100113_07         Analyte detected Units of Detecte	Tailings Water	Cadmium, dissolved	10/17/2013	5.5	mg/L	02_100113_07	
Tailings Water         Conductivity, Field         10/17/2013         4077 uS/cm         02_100113_07           Tailings Water         Copper, dissolved         10/17/2013         0.127 mg/L         02_100113_07           Tailings Water         Iron, dissolved         10/17/2013         0.02 mg/L         02_100113_07           Tailings Water         Lead, dissolved         10/17/2013         1.6600 mg/L         02_100113_07           Magnesium, dissolved         10/17/2013         209 mg/L         02_100113_07           Manganese, dissolved         10/17/2013         57.5 mg/L         02_100113_07           Tailings Water         pH, Field         10/17/2013         6.54 pH Units         02_100113_07           Tailings Water         Potassium, Dissolved         10/17/2013         26.4 mg/L         02_100113_07           Tailings Water         Selenium, dissolved         10/17/2013         0.0054 mg/L         02_100113_07           Tailings Water         Selenium, dissolved         10/17/2013         0.0058 mg/L         02_100113_07           Tailings Water         Selenium, dissolved         10/17/2013         0.0058 mg/L         02_100113_07           Tailings Water         Sodium, dissolved         10/17/2013         95.2 mg/L         02_100113_07           Tailings Water <td>Tailings Water</td> <td>Calcium, dissolved</td> <td>10/17/2013</td> <td>585</td> <td>mg/L</td> <td>02_100113_07</td> <td></td>	Tailings Water	Calcium, dissolved	10/17/2013	585	mg/L	02_100113_07	
Tailings Water         Copper, dissolved         10/17/2013         0.127 mg/L         02_100113_07         Analyte detected between MDL and ML oz_100113_07           Tailings Water         Iron, dissolved         10/17/2013         1.6600 mg/L         02_100113_07         Analyte detected between MDL and ML oz_100113_07           Tailings Water         Lead, dissolved         10/17/2013         209 mg/L         02_100113_07         Oz_100113_07           Tailings Water         dissolved         10/17/2013         57.5 mg/L         02_100113_07         Oz_100113_07           Tailings Water         pH, Field         10/17/2013         6.54 pH Units         02_100113_07         Oz_100113_07           Tailings Water         Potassium, Dissolved         10/17/2013         26.4 mg/L         02_100113_07         Oz_100113_07           Tailings Water         Selenium, dissolved         10/17/2013         0.0054 mg/L         02_100113_07         Analyte detected between MDL and ML           Tailings Water         Selenium, dissolved         10/17/2013         95.2 mg/L         02_100113_07         Analyte detected between MDL and ML           Tailings Water         Sulfate         10/17/2013         3270 mg/L         02_100113_07         Analyte detected between MDL and ML           Tailings Water         Temperature, Field         10/17/2013	Tailings Water	Chloride	10/17/2013	< 50	mg/L	02_100113_07	Undetected
Tailings Water   Iron, dissolved   10/17/2013   1.6600 mg/L   02_100113_07   between MDL and ML	Tailings Water	Conductivity, Field	10/17/2013	4077	uS/cm	02_100113_07	
Tailings Water         Iron, dissolved         10/17/2013         0.02 mg/L         02_100113_07         between MDL and ML           Tailings Water         Lead, dissolved         10/17/2013         1.6600 mg/L         02_100113_07         02_100113_07           Tailings Water         dissolved         10/17/2013         57.5 mg/L         02_100113_07         02_100113_07           Tailings Water         pH, Field         10/17/2013         6.54 pH         Units         02_100113_07           Tailings Water         Potassium, Dissolved         10/17/2013         26.4 mg/L         02_100113_07           Tailings Water         Selenium, dissolved         10/17/2013         0.0054 mg/L         02_100113_07           Tailings Water         Selenium, dissolved         10/17/2013         0.0058 mg/L         02_100113_07           Tailings Water         Sodium, dissolved         10/17/2013         95.2 mg/L         02_100113_07           Tailings Water         Sulfate         10/17/2013         3270 mg/L         02_100113_07           Tailings Water         Temperature, Field         10/17/2013         19.3 °C         02_100113_07           Tailings Water         Total Dissolved Solids         10/17/2013         4960 mg/L         02_100113_07         Analysis exceeded method hold time <td>Tailings Water</td> <td>Copper, dissolved</td> <td>10/17/2013</td> <td>0.127</td> <td>mg/L</td> <td>02_100113_07</td> <td></td>	Tailings Water	Copper, dissolved	10/17/2013	0.127	mg/L	02_100113_07	
Tailings Water				0.02	mg/l		Analyte detected
Magnesium, dissolved       10/17/2013       209 mg/L       02_100113_07         Tailings Water dissolved       10/17/2013       57.5 mg/L       02_100113_07         Tailings Water pH, Field       10/17/2013       6.54 pH Units of Delay (Inits)       02_100113_07         Tailings Water Potassium, Dissolved of Divition Dissolved of Divition Dissolved of Divition Dissolved or Divition Dissolved Divition Dissolved Divition Dissolved Divition Divition Dissolved Divition Divition Dissolved Divition Divition Dissolved Divition Dissolved Divition Divition Divition Dissolved Divition Divition Divition Dissolved Divition Divition Dissolved Divition Divition Divition Dissolved Divition Divition Divition Dissolved Divition D	Tailings Water						between MDL and ML
Tailings Water         dissolved         10/17/2013         209 mg/L         02_100113_07           Tailings Water         Manganese, dissolved         10/17/2013         57.5 mg/L         02_100113_07           Tailings Water         pH, Field         10/17/2013         6.54 pH Units         02_100113_07           Tailings Water         Potassium, Dissolved         10/17/2013         26.4 mg/L         02_100113_07           Tailings Water         Selenium, dissolved         10/17/2013         0.0054 mg/L         02_100113_07           Tailings Water         Selenium, dissolved         10/17/2013         95.2 mg/L         02_100113_07           Tailings Water         Sodium, dissolved         10/17/2013         95.2 mg/L         02_100113_07           Tailings Water         Sulfate         10/17/2013         3270 mg/L         02_100113_07           Tailings Water         Temperature, Field         10/17/2013         19.3 °C         02_100113_07           Tailings Water         Total Dissolved Solids         10/17/2013         4960 mg/L         02_100113_07         Analysis exceeded method hold time	Tailings Water	•	10/17/2013	1.6600	mg/L	02_100113_07	
Tailings Water         dissolved         10/17/2013         57.5 mg/L         02_100113_07           Tailings Water         pH, Field         10/17/2013         6.54 pH Units         02_100113_07           Tailings Water         Potassium, Dissolved         10/17/2013         26.4 mg/L         02_100113_07           Tailings Water         Selenium, dissolved         10/17/2013         0.0054 mg/L         02_100113_07           Tailings Water         Selenium, dissolved         10/17/2013         95.2 mg/L         02_100113_07           Tailings Water         Sulfate         10/17/2013         3270 mg/L         02_100113_07           Tailings Water         Temperature, Field         10/17/2013         19.3 °C         02_100113_07           Analysis exceeded method hold time         Analysis exceeded method hold time	Tailings Water	- · · · · · · · · · · · · · · · · · · ·	10/17/2013	209	mg/L	02_100113_07	
Tailings Water         pH, Field         10/17/2013         6.54 Units         02_100113_07           Tailings Water         Potassium, Dissolved         10/17/2013         26.4 mg/L         02_100113_07           Tailings Water         Selenium, dissolved         10/17/2013         0.0054 mg/L         02_100113_07           Tailings Water         Selenium, dissolved         10/17/2013         95.2 mg/L         02_100113_07           Tailings Water         Sodium, dissolved         10/17/2013         95.2 mg/L         02_100113_07           Tailings Water         Sulfate         10/17/2013         3270 mg/L         02_100113_07           Tailings Water         Temperature, Field         10/17/2013         19.3 °C         02_100113_07           Analysis exceeded method hold time         Analysis exceeded method hold time	Tailings Water	•	10/17/2013	57.5	mg/L	02_100113_07	
Tailings Water         pH, Field         10/17/2013         Units         02_100113_07           Tailings Water         Potassium, Dissolved         10/17/2013         26.4 mg/L         02_100113_07           Tailings Water         Selenium, dissolved         10/17/2013         0.0054 mg/L         02_100113_07           Tailings Water         Selenium, dissolved         10/17/2013         95.2 mg/L         02_100113_07           Tailings Water         Sulfate         10/17/2013         3270 mg/L         02_100113_07           Tailings Water         Temperature, Field         10/17/2013         19.3 °C         02_100113_07           Tailings Water         Total Dissolved Solids         10/17/2013         4960 mg/L         02_100113_07         Analysis exceeded method hold time			40/4=/22:	6.54	-		
Tailings Water         Selenium, dissolved         10/17/2013         0.0054 mg/L         02_100113_07         Analyte detected between MDL and ML           Tailings Water         Selenium, dissolved         10/17/2013         95.2 mg/L         02_100113_07         between MDL and ML           Tailings Water         Sodium, dissolved         10/17/2013         95.2 mg/L         02_100113_07           Tailings Water         Sulfate         10/17/2013         3270 mg/L         02_100113_07           Tailings Water         Temperature, Field         10/17/2013         19.3 °C         02_100113_07           Analysis exceeded method hold time         4960 mg/L         02_100113_07         Analysis exceeded method hold time		•					
Tailings Water Selenium, dissolved 10/17/2013 0.0058 mg/L 02_100113_07 between MDL and ML Tailings Water Sodium, dissolved 10/17/2013 95.2 mg/L 02_100113_07 Tailings Water Sulfate 10/17/2013 3270 mg/L 02_100113_07 Tailings Water Temperature, Field 10/17/2013 19.3 °C 02_100113_07 Tailings Water Total Dissolved Solids 10/17/2013 4960 mg/L 02_100113_07 Analysis exceeded method hold time		·					
Tailings Water         Selenium, dissolved         10/17/2013         0.0058 mg/L         02_100113_07         between MDL and ML           Tailings Water         Sodium, dissolved         10/17/2013         95.2 mg/L         02_100113_07         02_100113_07           Tailings Water         Sulfate         10/17/2013         3270 mg/L         02_100113_07         02_100113_07           Tailings Water         Temperature, Field         10/17/2013         19.3 °C         02_100113_07         Analysis exceeded method hold time	Tailings Water	Selenium, dissolved	10/17/2013	0.0054	mg/L	02_100113_07	Applyto detect d
Tailings Water         Sulfate         10/17/2013         3270 mg/L         02_100113_07           Tailings Water         Temperature, Field         10/17/2013         19.3 °C         02_100113_07           Tailings Water         Total Dissolved Solids         10/17/2013         4960 mg/L         Analysis exceeded o2_100113_07	Tailings Water		10/17/2013	0.0058	mg/L	02_100113_07	•
Tailings Water Temperature, Field 10/17/2013 19.3 °C 02_100113_07  Tailings Water Total Dissolved Solids 10/17/2013 4960 mg/L Analysis exceeded 02_100113_07 method hold time	Tailings Water	Sodium, dissolved	10/17/2013	95.2	mg/L	02_100113_07	
Tailings Water Total Dissolved Solids 10/17/2013  4960 mg/L Analysis exceeded 02_100113_07 method hold time	Tailings Water	Sulfate	10/17/2013			02_100113_07	
Tailings Water Total Dissolved Solids 10/17/2013 4960 mg/L 02_100113_07 method hold time	Tailings Water	Temperature, Field	10/17/2013	19.3	°C	02_100113_07	
Tailings Water Zinc, dissolved 10/17/2013 472 mg/L 02_100113_07	Tailings Water	Total Dissolved Solids	10/17/2013	4960	mg/L	02_100113_07	•
	Tailings Water	Zinc, dissolved	10/17/2013	472	mg/L	02_100113_07	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
Tailings Water	Acidity as CaCO3	11/11/2013	840	mg/L	02_110113_07	
Tailings Water	Aluminum, dissolved	11/11/2013	< 0.005	mg/L	02_110113_07	Undetected
Tailings Water	Ammonia (As N)	11/11/2013	5.6	mg/L	02_110113_07	
Tailings Water	Cadmium, dissolved	11/11/2013	3.64	mg/L	02_110113_07	
Tailings Water	Calcium, dissolved	11/11/2013	560	mg/L	02_110113_07	
Tailings Water	Chloride	11/11/2013	< 50	mg/L	02_110113_07	Undetected
Tailings Water	Conductivity, Field	11/11/2013	4033	uS/cm	02_110113_07	
Tailings Water	Copper, dissolved	11/11/2013	0.097	mg/L	02_110113_07	
Tailings Water	Iron, dissolved	11/11/2013	< 0.1	mg/L	02_110113_07	Undetected
Tailings Water	Lead, dissolved	11/11/2013	1.3200	mg/L	02_110113_07	
Tailings Water	Magnesium, dissolved	11/11/2013	209	mg/L	02_110113_07	
Tailings Water	Manganese, dissolved	11/11/2013	59.5	mg/L	02_110113_07	
Tailings Water	pH, Field	11/11/2013	6.06	pH Units	02_110113_07	
Tailings Water	Potassium, Dissolved	11/11/2013	26	mg/L	02_110113_07	
Tailings Water	Selenium, dissolved	11/11/2013	0.0052	mg/L	02_110113_07	
Tailings Water	Selenium, dissolved	11/11/2013	0.0043	mg/L	02_110113_07	Analyte detected between MDL and ML
Tailings Water	Sodium, dissolved	11/11/2013	93	mg/L	02_110113_07	
Tailings Water	Sulfate	11/11/2013	3370	mg/L	02_110113_07	
Tailings Water	Temperature, Field	11/11/2013	16.4	°C	02_110113_07	
Tailings Water	Total Dissolved Solids	11/11/2013	5220	mg/L	02_110113_07	Analysis exceeded method hold time
Tailings Water	Zinc, dissolved	11/11/2013	548	mg/L	02_110113_07	
Tailings Water	Acidity as CaCO3	12/9/2013	850	mg/L	02_120113_07	
Tailings Water	Aluminum, dissolved	12/9/2013	< 1	mg/L	02_120113_07	Undetected
Tailings Water	Ammonia (As N)	12/9/2013	6.7	mg/L	02_120113_07	
Tailings Water	Cadmium, dissolved	12/9/2013	4.3	mg/L	02_120113_07	
Tailings Water	Calcium, dissolved	12/9/2013	574	mg/L	02_120113_07	
Tailings Water	Chloride	12/9/2013	< 50	mg/L	02_120113_07	Undetected
Tailings Water	Conductivity, Field	12/9/2013	4135	uS/cm	02_120113_07	
Tailings Water	Copper, dissolved	12/9/2013	0.006	mg/L	02_120113_07	Analyte detected between MDL and ML
Tailings Water	Iron, dissolved	12/9/2013	< 0.1	mg/L	02_120113_07	Undetected
Tailings Water	Lead, dissolved	12/9/2013	2.8	mg/L	02_120113_07	
Tailings Water	Magnesium, dissolved	12/9/2013	207	mg/L	02_120113_07	
Tailings Water	Manganese, dissolved	12/9/2013	69.2	mg/L	02_120113_07	
Tailings Water	рН, Field	12/9/2013	6.38	pH Units	02_120113_07	

		Sample	<b>.</b>		Sample	0 11.6
Location	Analyte	Date	Result	Unit	Number	Qualifier Comment
Tailings Water	Potassium, Dissolved	12/9/2013		mg/L	02_120113_07	
Tailings Water	Selenium, dissolved	12/9/2013	0.0050		02_120113_07	
Tailings Water	Selenium, dissolved	12/9/2013	< 0.005	mg/L	02_120113_07	Undetected
Tailings Water	Sodium, dissolved	12/9/2013	90	mg/L	02_120113_07	
Tailings Water	Sulfate	12/9/2013	4460	mg/L	02_120113_07	
Tailings Water	Temperature, Field	12/9/2013	20.1	°C	02_120113_07	
Tailings Water	Total Dissolved Solids	12/9/2013	5620	mg/L	02_120113_07	
Tailings Water	Zinc, dissolved	12/9/2013	644	mg/L	02_120113_07	
West Sump	Acidity as CaCO3	10/18/2013	10	mg/L	02_100113_03	Analyte detected between MDL and ML
West Sump	Aluminum, dissolved	10/18/2013	0.03	mg/L	02_100113_03	Analyte detected between MDL and ML
West Sump	Ammonia (As N)	10/18/2013	< 0.1	mg/L	02_100113_03	Undetected
West Sump	Cadmium, dissolved	10/18/2013	0.0021	mg/L	02_100113_03	
West Sump	Calcium, dissolved	10/18/2013	19	mg/L	02_100113_03	
West Sump	Chloride	10/18/2013	1.11	mg/L	02_100113_03	Analyte detected between MDL and ML
West Sump	Conductivity, Field	10/18/2013	131.4	uS/cm	02_100113_03	
West Sump	Copper, dissolved	10/18/2013	0.0125	mg/L	02_100113_03	
West Sump	Cyanide, WAD	10/18/2013	< 0.003	mg/L	02_100113_03	Undetected
West Sump	Iron, dissolved	10/18/2013	0.34	mg/L	02_100113_03	
West Sump	Lead, dissolved	10/18/2013	0.0026	mg/L	02_100113_03	
West Sump	Magnesium, dissolved	10/18/2013	12.6	mg/L	02_100113_03	
West Sump	Manganese, dissolved	10/18/2013	0.0658	mg/L	02_100113_03	
West Sump	pH, Field	10/18/2013	6.94	pH Units	02_100113_03	
West Sump	Potassium, Dissolved	10/18/2013	0.4	mg/L	02_100113_03	Analyte detected between MDL and ML
West Sump	Selenium, dissolved	10/18/2013	0.0002	mg/L	02_100113_03	Analyte detected between MDL and ML
West Sump	Selenium, dissolved	10/18/2013	< 0.001	mg/L	02_100113_03	Undetected
West Sump	Sodium, dissolved	10/18/2013	2.6	mg/L	02_100113_03	
West Sump	Sulfate	10/18/2013	76.2	mg/L	02_100113_03	
West Sump	Temperature, Field	10/18/2013	2.4	°C	02_100113_03	
West Sump	Total Dissolved Solids	10/18/2013	132	mg/L	02_100113_03	Analysis exceeded method hold time
West Sump	Zinc, dissolved	10/18/2013	0.609	mg/L	02_100113_03	
West Sump	Acidity as CaCO3	11/18/2013	< 10	mg/L	02_110113_03	Undetected
West Sump	Aluminum, dissolved	11/18/2013	< 0.2	mg/L	02_110113_03	Undetected
West Sump	Ammonia (As N)	11/18/2013	0.1	mg/L	02_110113_03	Analyte detected between MDL and ML

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
West Sump	Cadmium, dissolved	11/18/2013	0.0152	mg/L	02_110113_03	
West Sump	Calcium, dissolved	11/18/2013	20	mg/L	02_110113_03	
West Sump	Chloride	11/18/2013	< 10	mg/L	02_110113_03	Undetected
West Sump	Conductivity, Field	11/18/2013	161.5	uS/cm	02_110113_03	
			0.0014	mg/l		Analyte detected
West Sump	Copper, dissolved	11/18/2013			02_110113_03	between MDL and ML
West Sump	Cyanide, WAD	11/18/2013	< 0.003		02_110113_03	Undetected
West Sump	Iron, dissolved	11/18/2013	0.3	mg/L	02_110113_03	
		44/40/2042	0.0003	mg/L	00 440440 00	Analyte detected
West Sump	Lead, dissolved	11/18/2013			02_110113_03	between MDL and ML
West Sump	Magnesium, dissolved	11/18/2013	13	mg/L	02_110113_03	
West Sump	Manganese,	11/10/2013			02_110113_03	
West Sump	dissolved	11/18/2013	0.254	mg/L	02 110113 03	
,			6.62	рН		
West Sump	pH, Field	11/18/2013	6.63	Units	02_110113_03	
West Sump	Potassium, Dissolved	11/18/2013	< 2	mg/L	02_110113_03	Undetected
West Sump	Selenium, dissolved	11/18/2013	0.0005	mg/L	02_110113_03	
West Sump	Selenium, dissolved	11/18/2013	< 0.001	mg/L	02_110113_03	Undetected
			1	mg/L		Analyte detected
West Sump	Sodium, dissolved	11/18/2013	4	IIIg/ L	02_110113_03	between MDL and ML
West Sump	Sulfate	11/18/2013	78.7	mg/L	02_110113_03	
West Sump	Temperature, Field	11/18/2013	1.4	°C	02_110113_03	
West Sump	<b>Total Dissolved Solids</b>	11/18/2013	210	mg/L	02_110113_03	
West Sump	Zinc, dissolved	11/18/2013	2.67	mg/L	02_110113_03	
West Sump	Acidity as CaCO3	12/6/2013	< 10	mg/L	02_120113_03	Undetected
West Sump	Aluminum, dissolved	12/6/2013	< 0.03	mg/L	02_120113_03	Undetected
West Sump	Ammonia (As N)	12/6/2013	< 0.1	mg/L	02_120113_03	Undetected
West Sump	Cadmium, dissolved	12/6/2013	0.0076	mg/L	02_120113_03	
West Sump	Calcium, dissolved	12/6/2013	33.2	mg/L	02_120113_03	
West Sump	Chloride	12/6/2013	< 5	mg/L	02_120113_03	Undetected
West Sump	Conductivity, Field	12/6/2013	300.3	uS/cm	02_120113_03	
			0.0010	ma/l		Analyte detected
West Sump	Copper, dissolved	12/6/2013	0.0019	mg/L	02_120113_03	between MDL and ML
West Sump	Cyanide, WAD	12/6/2013	< 0.003	mg/L	02_120113_03	Undetected
West Sump	Iron, dissolved	12/6/2013	0.17	mg/L	02_120113_03	
West Sump	Lead, dissolved	12/6/2013	< 0.0001	mg/L	02_120113_03	Undetected
West Sump	Magnesium, dissolved	12/6/2013	22.6	mg/L	02_120113_03	
West Sump	Manganese, dissolved	12/6/2013	0.1641	mg/L	02_120113_03	
West Sump	pH, Field	12/6/2013	6.48	pH Units	02_120113_03	

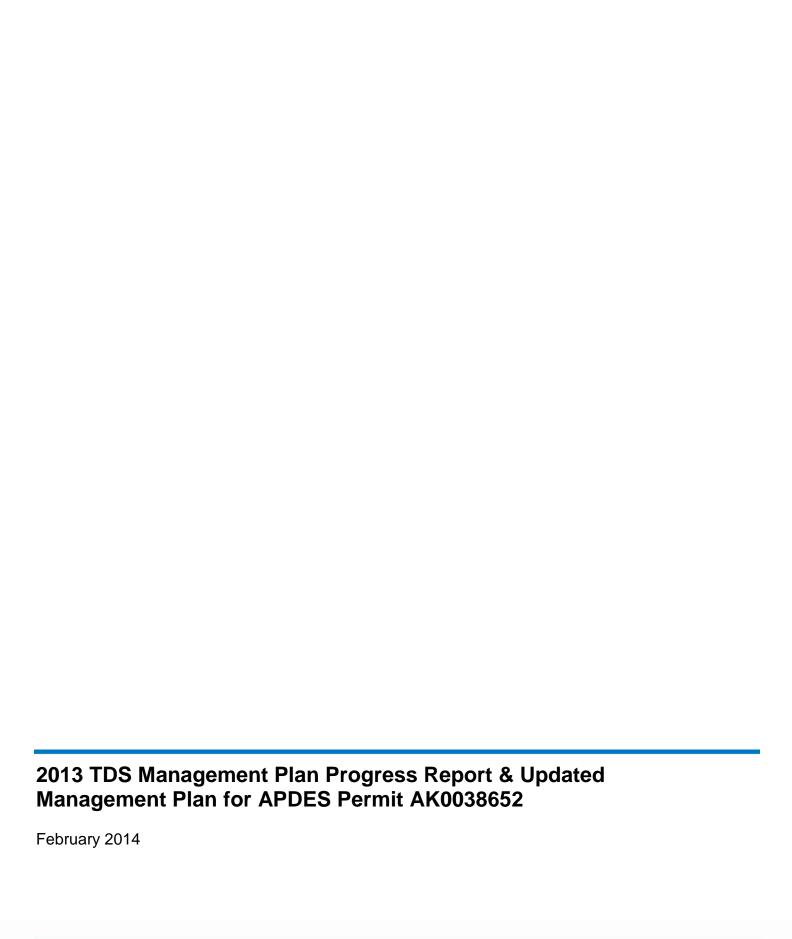
Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
M/o ot Cure o	Datassium Dissalus d	12/6/2012	0.4	mg/L	02 120112 02	Analyte detected
West Sump	Potassium, Dissolved	12/6/2013	0.0004	ma/I	02_120113_03	between MDL and ML
West Sump	Selenium, dissolved Selenium, dissolved	12/6/2013	< 0.001	<u> </u>	02_120113_03	Undetected
West Sump		12/6/2013		mg/L	02_120113_03	Undetected
West Sump	Sodium, dissolved Sulfate	12/6/2013		mg/L	02_120113_03	
West Sump		12/6/2013	3.5		02_120113_03	
West Sump	Temperature, Field	12/6/2013		mg/L	02_120113_03	
West Sump	Total Dissolved Solids	12/6/2013		mg/L	02_120113_03	
West Sump WTP3 Effluent	Zinc, dissolved	12/6/2013		mg/L	02_120113_03	Undatacted
WIPS EIIIUEIIL	Acidity as CaCO3	10/25/2013	<u> </u>	IIIg/L	02_100113_06	Undetected Analyte detected
WTP3 Effluent	Aluminum, dissolved	10/25/2013	0.09	mg/L	02 100113 06	between MDL and ML
WTP3 Effluent	Ammonia (As N)	10/25/2013	1.5	mg/L	02_100113_06	
WTP3 Effluent	Cadmium, dissolved	10/25/2013	0.0109	mg/L	02 100113 06	
WTP3 Effluent	Calcium, dissolved	10/25/2013	548	mg/L	02_100113_06	
WTP3 Effluent	Chloride	10/25/2013	< 25	mg/L	02 100113 06	Undetected
WTP3 Effluent	Conductivity, Field	10/25/2013	2194.0	uS/cm	02 100113 06	
WTP3 Effluent	Copper, dissolved	10/25/2013	0.0067	mg/L	02 100113 06	
WTP3 Effluent	Iron, dissolved	10/25/2013	< 0.02	mg/L	02_100113_06	Undetected
WTP3 Effluent	Lead, dissolved	10/25/2013	0.0004	mg/L	02_100113_06	Analyte detected between MDL and ML
WTP3 Effluent	Magnesium, dissolved	10/25/2013	32.8	mg/L	02_100113_06	
WTP3 Effluent	Manganese, dissolved	10/25/2013	0.0749	mg/L	02_100113_06	
WTP3 Effluent	pH, Field	10/25/2013	8.01	pH Units	02_100113_06	
WTP3 Effluent	Potassium, Dissolved	10/25/2013		mg/L	02_100113_06	
WTP3 Effluent	Selenium, dissolved	10/25/2013	0.0087	<u> </u>	02_100113_06	
WTP3 Effluent	Selenium, dissolved	10/25/2013	0.0058		02_100113_06	
WTP3 Effluent	Sodium, dissolved	10/25/2013		mg/L	02_100113_06	
WTP3 Effluent	Sulfate	10/25/2013		mg/L	02_100113_06	
WTP3 Effluent	Temperature, Field	10/25/2013	5.9		02_100113_06	
WTP3 Effluent	Total Dissolved Solids	10/25/2013		mg/L	02_100113_06	
WTP3 Effluent	Zinc, dissolved	10/25/2013	0.022		02_100113_06	
WTP3 Effluent	Acidity as CaCO3	10/28/2013	< 10	mg/L	02_101513_06	Undetected
WTP3 Effluent	Aluminum, dissolved	10/28/2013	0.16	mg/L	02_101513_06	Analyte detected between MDL and ML
WTP3 Effluent	Ammonia (As N)	10/28/2013		mg/L	02_101513_06	
WTP3 Effluent	Cadmium, dissolved	10/28/2013	0.0017	mg/L	02_101513_06	
WTP3 Effluent	Calcium, dissolved	10/28/2013	663	mg/L	02_101513_06	
WTP3 Effluent	Chloride	10/28/2013	< 25	mg/L	02_101513_06	Undetected
WTP3 Effluent	Conductivity, Field	10/28/2013	2327.0	uS/cm	02_101513_06	

	<u> </u>	Sample			Sample	
Location	Analyte	Date	Result	Unit	Number	Qualifier Comment
WTP3 Effluent	Copper, dissolved	10/28/2013	0.005		02_101513_06	
WTP3 Effluent	Iron, dissolved	10/28/2013	< 0.04		02_101513_06	Undetected
WTP3 Effluent	Lead, dissolved	10/28/2013	0.0019	mg/L	02_101513_06	
WTP3 Effluent	Magnesium, dissolved	10/28/2013	4.4	mg/L	02_101513_06	
WTP3 Effluent	Manganese, dissolved	10/28/2013	0.003		02_101513_06	Analyte detected between MDL and ML
WTP3 Effluent	pH, Field	10/28/2013	9.87	pH Units	02_101513_06	
WTP3 Effluent	Potassium, Dissolved	10/28/2013	5.9	mg/L	02_101513_06	
WTP3 Effluent	Selenium, dissolved	10/28/2013	0.0084	mg/L	02_101513_06	
WTP3 Effluent	Selenium, dissolved	10/28/2013	0.0073	mg/L	02_101513_06	
WTP3 Effluent	Sodium, dissolved	10/28/2013	41	mg/L	02_101513_06	
WTP3 Effluent	Sulfate	10/28/2013	1400	mg/L	02_101513_06	
WTP3 Effluent	Temperature, Field	10/28/2013	20.9	°C	02_101513_06	
WTP3 Effluent	Total Dissolved Solids	10/28/2013	2410	mg/L	02_101513_06	
WTP3 Effluent	Zinc, dissolved	10/28/2013	0.052	mg/L	02_101513_06	
WTP3 Effluent	Acidity as CaCO3	12/26/2013	< 10	mg/L	02_120113_06	Undetected
WTP3 Effluent	Aluminum, dissolved	12/26/2013	0.34	mg/L	02_120113_06	
WTP3 Effluent	Ammonia (As N)	12/26/2013	4.2	mg/L	02_120113_06	
WTP3 Effluent	Cadmium, dissolved	12/26/2013	0.0002	mg/L	02_120113_06	Analyte detected between MDL and ML
WTP3 Effluent	Calcium, dissolved	12/26/2013	890	mg/L	02_120113_06	
WTP3 Effluent	Chloride	12/26/2013	26.5	mg/L	02_120113_06	Analyte detected between MDL and ML
WTP3 Effluent	Conductivity, Field	12/26/2013	2786	uS/cm	02_120113_06	
WTP3 Effluent	Copper, dissolved	12/26/2013	0.004	mg/L	02_120113_06	Analyte detected between MDL and ML
WTP3 Effluent	Iron, dissolved	12/26/2013	0.08	mg/L	02_120113_06	Analyte detected between MDL and ML
WTP3 Effluent	Lead, dissolved	12/26/2013	0.0011	mg/L	02_120113_06	
WTP3 Effluent	Magnesium, dissolved	12/26/2013	1.5	mg/L	02_120113_06	
WTP3 Effluent	Manganese, dissolved	12/26/2013	0.001	mg/L	02_120113_06	Analyte detected between MDL and ML
WTP3 Effluent	pH, Field	12/26/2013	11.61	pH Units	02_120113_06	
WTP3 Effluent	Potassium, Dissolved	12/26/2013	15.1	mg/L	02_120113_06	
WTP3 Effluent	Selenium, dissolved	12/26/2013	0.0064	mg/L	02_120113_06	
WTP3 Effluent	Selenium, dissolved	12/26/2013	0.0062	mg/L	02_120113_06	
WTP3 Effluent	Sodium, dissolved	12/26/2013	64.8	mg/L	02_120113_06	
WTP3 Effluent	Sulfate	12/26/2013	1350	mg/L	02_120113_06	
WTP3 Effluent	Temperature, Field	12/26/2013	13.0	°C	02_120113_06	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
WTP3 Effluent	Total Dissolved Solids	12/26/2013	2750	mg/L	02_120113_06	
WTP3 Effluent	Zinc, dissolved	12/26/2013	0.471	mg/L	02_120113_06	
WTP3 Influent	Acidity as CaCO3	10/25/2013	44200	mg/L	02_100113_04	
WTP3 Influent	Aluminum, dissolved	10/25/2013	533	mg/L	02_100113_04	
WTP3 Influent	Ammonia (As N)	10/25/2013	5	mg/L	02_100113_04	
WTP3 Influent	Cadmium, dissolved	10/25/2013	60	mg/L	02_100113_04	
WTP3 Influent	Calcium, dissolved	10/25/2013	280	mg/L	02_100113_04	
WTP3 Influent	Chloride	10/25/2013	< 500	mg/L	02_100113_04	Undetected
WTP3 Influent	Conductivity, Field	10/25/2013	25589	uS/cm	02_100113_04	
WTP3 Influent	Copper, dissolved	10/25/2013	8.03	mg/L	02_100113_04	
WTP3 Influent	Iron, dissolved	10/25/2013	1680	mg/L	02_100113_04	
WTP3 Influent	Lead, dissolved	10/25/2013	0.053	mg/L	02_100113_04	
WTP3 Influent	Magnesium, dissolved	10/25/2013	1160	mg/L	02_100113_04	
WTP3 Influent	Manganese, dissolved	10/25/2013	553	mg/L	02_100113_04	
WTP3 Influent	pH, Field	10/25/2013	2.33	pH Units	02_100113_04	
WTP3 Influent	Potassium, Dissolved	10/25/2013	< 20	mg/L	02_100113_04	Undetected
WTP3 Influent	Selenium, dissolved	10/25/2013	0.040	mg/L	02_100113_04	
WTP3 Influent	Selenium, dissolved	10/25/2013	0.0270	mg/L	02_100113_04	Analyte detected between MDL and ML
WTP3 Influent	Sodium, dissolved	10/25/2013		mg/L	02_100113_04	Analyte detected between MDL and ML
WTP3 Influent	Sulfate	10/25/2013	42200	mg/L	02_100113_04	
WTP3 Influent	Temperature, Field	10/25/2013	24.2	°C	02_100113_04	
WTP3 Influent	Total Dissolved Solids	10/25/2013	66000	mg/L	02_100113_04	Analysis exceeded method hold time
WTP3 Influent	Zinc, dissolved	10/25/2013	9660	mg/L	02_100113_04	
WTP3 Influent	Acidity as CaCO3	10/28/2013	24900	mg/L	02_101513_04	
WTP3 Influent	Aluminum, dissolved	10/28/2013	815	mg/L	02_101513_04	
WTP3 Influent	Ammonia (As N)	10/28/2013	5	mg/L	02_101513_04	
WTP3 Influent	Cadmium, dissolved	10/28/2013	57	mg/L	02_101513_04	
WTP3 Influent	Calcium, dissolved	10/28/2013	423	mg/L	02_101513_04	
WTP3 Influent	Chloride	10/28/2013	< 500	mg/L	02_101513_04	Undetected
WTP3 Influent	Conductivity, Field	10/28/2013	23540	uS/cm	02_101513_04	
WTP3 Influent	Copper, dissolved	10/28/2013	7.41	mg/L	02_101513_04	
WTP3 Influent	Iron, dissolved	10/28/2013	2520	mg/L	02_101513_04	
WTP3 Influent	Lead, dissolved	10/28/2013	0.100	mg/L	02_101513_04	
WTP3 Influent	Magnesium, dissolved	10/28/2013	1880	mg/L	02_101513_04	
WTP3 Influent	Manganese, dissolved	10/28/2013	600	mg/L	02_101513_04	

Location	Analyte	Sample Date	Result	Unit	Sample Number	Qualifier Comment
WITTEN I		10/20/2012	2.55	pH	00 404540 04	
WTP3 Influent	pH, Field	10/28/2013		Units	02_101513_04	
WTP3 Influent	Potassium, Dissolved	10/28/2013		mg/L	02_101513_04	Undetected
WTP3 Influent	Selenium, dissolved	10/28/2013	0.051	mg/L	02_101513_04	A a l t. a . d. a t. a . d.
WTP3 Influent	Selenium, dissolved	10/28/2013	0.0320	mg/L	02_101513_04	Analyte detected between MDL and ML
WTP3 Influent	Sodium, dissolved	10/28/2013	30	mg/L	02_101513_04	
WTP3 Influent	Sulfate	10/28/2013	38100	mg/L	02_101513_04	
WTP3 Influent	Temperature, Field	10/28/2013	20.3	°C	02_101513_04	
WTP3 Influent	Total Dissolved Solids	10/28/2013	53200	mg/L	02_101513_04	Analysis exceeded method hold time
WTP3 Influent	Zinc, dissolved	10/28/2013	10100	mg/L	02_101513_04	
WTP3 Influent	Acidity as CaCO3	12/26/2013	29400	mg/L	02_120113_04	
WTP3 Influent	Aluminum, dissolved	12/26/2013	969	mg/L	02_120113_04	
WTP3 Influent	Ammonia (As N)	12/26/2013	7	mg/L	02_120113_04	
WTP3 Influent	Cadmium, dissolved	12/26/2013	69	mg/L	02_120113_04	
WTP3 Influent	Calcium, dissolved	12/26/2013	470	mg/L	02_120113_04	
WTP3 Influent	Chloride	12/26/2013	< 500	mg/L	02_120113_04	Undetected
WTP3 Influent	Conductivity, Field	12/26/2013	12697	uS/cm	02_120113_04	
WTP3 Influent	Copper, dissolved	12/26/2013	8.54	mg/L	02_120113_04	
WTP3 Influent	Iron, dissolved	12/26/2013	3190	mg/L	02_120113_04	
WTP3 Influent	Lead, dissolved	12/26/2013	0.094	mg/L	02_120113_04	
WTP3 Influent	Magnesium, dissolved	12/26/2013	2280	mg/L	02_120113_04	
WTP3 Influent	Manganese, dissolved	12/26/2013	710	mg/L	02_120113_04	
WTP3 Influent	pH, Field	12/26/2013	2.3	pH Units	02_120113_04	
WTP3 Influent	Potassium, Dissolved	12/26/2013	< 20	mg/L	02_120113_04	Undetected
WTP3 Influent	Selenium, dissolved	12/26/2013	0.037	mg/L	02_120113_04	
WTP3 Influent	Selenium, dissolved	12/26/2013	< 0.05	mg/L	02_120113_04	Undetected
WTP3 Influent	Sodium, dissolved	12/26/2013	30	mg/L	02_120113_04	Analyte detected between MDL and ML
WTP3 Influent	Sulfate	12/26/2013	47200	mg/L	02_120113_04	
WTP3 Influent	Temperature, Field	12/26/2013	18.6	°C	02_120113_04	
WTP3 Influent	Total Dissolved Solids	12/26/2013	69000	mg/L	02_120113_04	Analysis exceeded method hold time
WTP3 Influent	Zinc, dissolved	12/26/2013	11600	mg/L	02_120113_04	

Appendix C Red Dog 2013 TDS Management Plan



**Teck** 

Pursuant to Part I.A.7.f of APDES Permit AK0038652, Teck Alaska Incorporated (Teck) submitted a TDS Management Plan to EPA and ADEC prior to July 29, 2010. The permit requires Teck to include, by March 1<sup>st</sup> of each year, a TDS Management Plan progress report as part of the Red Dog Mine APDES Annual Water Monitoring Summary Report.

The progress report/updated management plan includes information on the actions and investigative efforts undertaken prior to and during 2013 and the actions that are planned for 2014 to provide enhanced treatment for total dissolved solids (TDS) and/or TDS-source control in order to ensure that:

- Red Dog will be able to discharge treated effluent through Outfall 001 in compliance with permitted TDS limits, and;
- Treated effluent of sufficient volume will be discharged to maintain the integrity of the tailings impoundment dam.

Reducing the concentration of TDS in the Red Dog Mine tailings storage facility (TSF) is a top priority of the mine. In its original TDS Management Plan, Teck identified and selected those actions and/or investigative efforts appropriate for incorporation into the plan. The initial review identified four general categories of actions and/or investigative activities and a fifth category, "Other Opportunities", was added in the 2012 report document. The categories are:

- 1. Source Control (Pre-ARD Generation) Examine potential means of reducing or preventing water infiltration into and/or oxidation of ARD generating material stockpiles
- 2. Source Control (Post-ARD Generation) Examine improved TDS capture and treatment
- 3. Enhanced Treatment Capacity Winterization of Water Treatment Plant 3 and/or improved utilization of Water Treatment Plant 1 and 3
- 4. Enhanced Treatment Technology Research
- 5. Other Opportunities

Results of these activities in 2013 as well as those planned for continuation or as new for 2014 are described below.

#### 1. Source Control (Pre-ARD Generation)

Acid Rock Drainage (ARD) largely results from the action of microbes on sulfide minerals which results in by-production of (sulfuric) acid. The ARD process requires oxygen and water, and generally results in acidic solutions that mobilize metal ions from the host rock. Reducing or eliminating the supply of water and/or oxygen to a reactive waste rock source is a potential method to mitigate or prevent ARD generation.

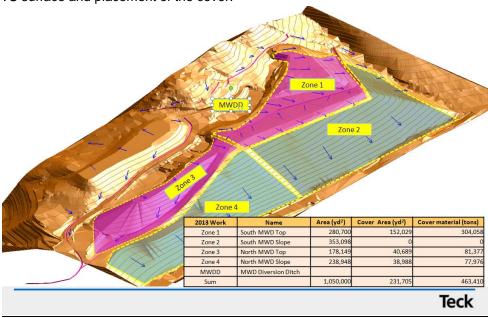
#### Reduction of Infiltration of precipitation into the MWS

In Q4 2012, a project was initiated to reduce the infiltration of precipitation into the main waste stockpile (MWS). Elements of the project included re-contouring MWS for proper drainage and

installing drainage structures to capture and divert a portion of the snowmelt and precipitation from the surface of the MWS.

During 2013, work consisted of re-contouring and compacting the MWS surface, and installation of surface runoff diversion ditches.

Future planned work consists of making necessary repairs to the diversion ditches and compaction of the MWS surface and placement of the cover.



#### 2. Source Control (Post-ARD Generation)

ARD is currently collected through a series of seven intercept wells that pump recovered ARD to a main collection tank from where it is pumped to WTP3 or WTP1 for treatment. Based on geotechnical information gathered in 2011 and 2012, three new wells and a continuous French Drain trench along the toe of the MWS were installed in order to increase the volume of ARD collected. Pumps and piping were installed to send water from the new wells to the main collection tank from where it is sent for treatment in WTP3/WTP1, or untreated to the Main Pit. New instrumentation was added to the system in order to improve efficiency of ARD-collection, and to monitor performance of the system for future planning.

The changes have allowed for year round collection and treatment of ARD in WTP3/WTP1. Recent system improvements have resulted in an increase in capture of total ARD water from an estimated 20% to 35% – or an increase of approximately 75% – from 2011 to 2013.

#### Improved TDS Capture through a MWS Drainage Collection System

A geotechnical evaluation to determine the water flow paths emanating from the MWS was completed in 2010. This was a two phase program.

Phase I had four objectives

- ✓ Determine nature and material properties of the overburden
- ✓ Determine depth and nature of weathered/fresh bedrock
- ✓ Determine depth to groundwater
- ✓ Locate discrete low resistivity (high conductivity) 2D and 3D pathways that could reflect metal-rich water migrating from the MWS to the tailings impoundment.

The data required to meet the first three objectives was obtained by drilling a series of 15 holes along the base of the MWS using a hollow stem auger. In each of the holes the overburden material was logged, and the condition of the bedrock was determined. In the eight holes that encountered groundwater, the groundwater elevation was measured.

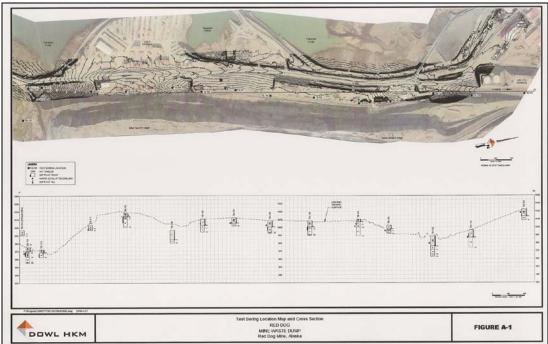


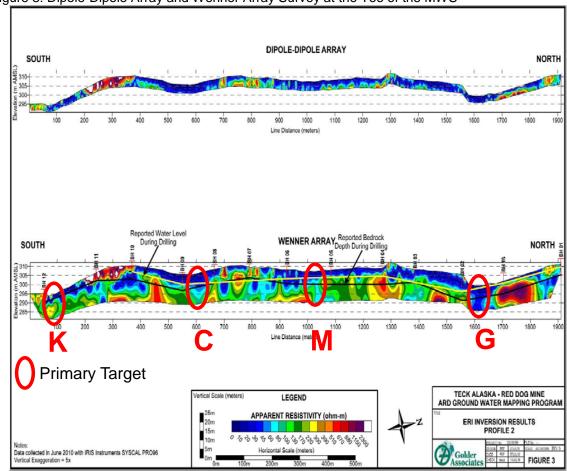
Figure 1: DOWL HKM Auger Hole Location Map

To gather the data needed to meet the fourth objective, two different electro-magnetic (EM) surveys were conducted. A RESOLVE Airborne EM Survey was conducted to locate discrete low resistivity (high conductivity) 3D pathways of metals-rich water flowing/draining into the tailings impoundment. The airborne survey was followed up by a ground based Dipole-Dipole Array and Wenner Array survey. The results of the surveys are presented in the figures below.

Proposed Borehole
Primary
Secondary

Figure 2: RESOLVE Airborne EM Survey – Differential Resistivity (320 MASL)





The objective of Phase II was to determine the target locations for intercept wells based on the results of the geophysical surveys. Wells were installed at locations G, M, C, and K. Pumps were installed in wells at locations G and M. Initial test work resulted in a non-sustained water draw. A system design evaluation is currently ongoing to re-assess well size diameter, recharge rates and optimal pumping capacity. Additional testing was undertaken during the 2011 field season.

In 2012 additional testing was completed to determine flow rates and loading at different elevations within the bedrock. Also, the pump and pipeline system was refurbished. A series of interconnecting drain ditches has been established along the MWS toe, and the pumping system draws from these ditches.

In 2013, pump drawdown testing was conducted in the vicinity of Target Area "C" (Figure 3). This was done in order to compare the pump testing results with predictions of the model which had been developed, based on results of previous airborne and ground-level EM surveys, and drilling/logging efforts. The model further assumed uniform flow through a weathered fractured zone at the top of bedrock. The model predicted that Target Area "C" would be the most suitable location at which to install a slurry wall as a sub-surface water barrier. However, the pump testing results indicated that the subsurface flow tends to be more localized in discrete fracture zones, and that Target Area "C" may not be the best location for a sub-surface water barrier. The next step should be to identify the fracture zone locations.

# 3. Enhanced Treatment Capacity

Red Dog is committed to increasing the capture of ARD from the MWS before it enters the TSF. Capturing and separately treating this water has been demonstrated to be the most cost effective method to reduce the TDS load in the TSF. It also provides process benefits as a lower TDS recycle water will reduce pipe scaling, thus improving availability and grade/recovery performance.

# Enhanced Utilization of Water Treatment Plant 1 and 3 (WTP1 and WTP3) and Winterization of Water Treatment Plant 3.

Lime-high density sludge (HDS) treatment of the MWS-stream in WTP1 has proven successful in dramatically lowering the high TDS concentrations of this source.

Certain improvements to the MWS-stream recovery/treatment system were completed to allow reliable winter operation. Further improvements to winterization will continue through 2014.

Water Treatment Plant 1 (WTP1) was successfully utilized to treat the MWS-stream beginning in October 2012 and continues through present.

The scoping-level engineering work for winterization of WTP3 was not completed in 2013. In light of the successful conversion of WTP1 to a facility capable of year-round MWS-stream treatment, the potential need for winterization of WTP3 was deferred with a scoping study to be initiated in 2015.

#### 4. Enhanced Treatment Technology Research

#### **Reverse Osmosis Bench Study**

In Q2 2012, Red Dog Mine commissioned a water treatment company to conduct a bench scale prefeasibility study to treat a sample of reclaimed TSF water using membrane technology. The technology demonstrated potential although there were concerns over certain operational parameters of the testing and so a second bench test was commissioned in Q4 2012.

The second bench test parameters were better defined to address the issues identified in the initial test. Lime was used as a pretreatment step and the water temperature was maintained to better simulate actual Red Dog conditions. Results of the second bench study were encouraging and Teck plans to continue evaluating membrane technology alternatives in 2014 through pilot studies. Work to be completed in 2014 consists of a 25 gpm membrane pilot program to test various membrane types, reagents, and RDM water. It is anticipated the study will take more than one year.

## 5. Other Opportunities

Mining in the Main Pit was completed in Q1 2012. A significant opportunity was identified to accelerate TDS reduction in the TSF by pumping ARD – generated in excess of what can currently be treated – into the Main Pit. The current plan is to fill and/or allow the pit surface water level to reach 840' above mean sea level (AMSL), after which the pit water will be pumped to the ARD treatment system, or untreated to the TSF. In 2013, 22.6 million gallons of untreated ARD was diverted to the Main Pit, thus preventing this TDS load from entering the TSF.

An element of TDS reduction is the diluting impact of spring freshet and summer precipitation flowing into the TSF. This impact is proportionately increased as the TSF water volume is decreased and to maximize this, 205 million gallons of treated water was pumped to the Main Pit in 2013 (rather than back to the TSF). This also helped ensure the TSF water level did not encroach into the TSF dam freeboard limit (TSF water level was 964.3' AMSL by 2013 year end). Red Dog plans to continue pumping ARD water in the Main Pit in 2014.

#### ARD Diversion to the Main Pit

Treatment of ARD in WTP3 is limited by lime mixing capacity during the spring and early summer. Lime demand is high during spring melt period as lime is used to treat reclaimed TSF water for discharge purposes. Hence, all of the collected ARD cannot be treated. Historically, ARD that could not be treated in WTP3 overflowed to the TSF, thus increasing its TDS load.

A pumping system was installed in 2012 to divert any collected, untreated ARD to the Main Pit. In 2013, 22.6 million gallons of untreated ARD was sent to the Main Pit, reducing the TDS load in the TSF. It is planned to continue diverting any ARD beyond the treatment capacity to the Main Pit in 2014.

Appendix D Waste Rock Production Summary Fourth Quarter 2013

# Waste Rock Production Summary

#### Production Month October 2013

Waste Type: Construction Waste

Formation: Siksikpuk

Stockpile Use:TonnesAvg. ZincAvg. Iron Avg. LeadMain pit dump 48,3641.9%0.9%5.4%

Waste Type Subtotal: 8,364

Waste Type: Most Reactive Waste

Formation: Ikalukrok

Stockpile Use:TonnesAvg. ZincAvg. Iron Avg. LeadMain Pit Dump 261,5000.7%5.5%0.1%

Waste Type Subtotal: 61,500

Waste Type: Other Waste

Formation: Ikalukrok

Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead 0.7% New shiter pad 4,920 3.9% 2.3% Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead Power house pad 410 2.9% 0.8% 1.9% Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead Oxide north 71,504 1.4% 0.8% 4.4% Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead 15,826 1.3% 0.9% 5.0% Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead Main pit dump 4 238,064 2.5% 1.1% 2.4% Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead Landfill @MWD 492 4.4% 0.9% 2.7% Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead Main Pit Dump 3 6,888 1.7% 1.6% **Stockpile Use:** Tonnes Avg. Zinc Avg. Iron Avg. Lead Main Pit Dump 2 39,442 1.5% 1.6% 1.6% Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead Coffer Dam 29,367 1.6% 2.1% 0.9% Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead

Formation: Mixed

Main Waste Dump

Portable crusher Pad

Stockpile Use:

Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead Main pit dump 4 100,860 1.5% 1.4% 2.7% Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead Portable crusher Pad 2.5% 2.0% 328 1.1% Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead Oxide north 0.9% 20,992 1.2% 3.6%

492

34,033

4.1%

2.9%

Tonnes Avg. Zinc Avg. Iron Avg. Lead

0.7%

1.1%

122

1.9%

Stockpile Use: Main Waste Dump	Tonnes	<b>Avg. Zinc</b> 0.6%	Avg. Iron Avg. Lead 1.1% 3.0%
Stockpile Use: Coffer Dam	<b>Tonnes</b> 4,346	<b>Avg. Zinc</b> 0.1%	Avg. Iron Avg. Lead 3.1% 0.0%
Stockpile Use: Main Pit Dump 2	Tonnes 13,202	Avg. Zinc	<b>Avg. Iron Avg. Lead</b> 2.4% 0.8%
Stockpile Use:  Main Pit Dump 3  Formation: Siksikpuk	<b>Tonnes</b> 1,066	<b>Avg. Zinc</b> 0.6%	Avg. Iron Avg. Lead 2.8% 0.4%
Stockpile Use: Main pit dump 4	<b>Tonnes</b> 44,444	<b>Avg. Zinc</b> 1.4%	<b>Avg. Iron Avg. Lead</b> 1.0% 4.6%
Stockpile Use: New shiter pad	Tonnes 82	<b>Avg. Zinc</b> 0.6%	<b>Avg. Iron Avg. Lead</b> 1.1% 3.0%
Stockpile Use: Oxide north	<b>Tonnes</b> 5,576	<b>Avg. Zinc</b> 1.0%	<b>Avg. Iron Avg. Lead</b> 1.2% 3.5%
Waste Type Subtotal:  Total tonnes for month:	632,744 <b>702,608</b>		

#### Production Month November 2013

Back Dam

Stockpile Use:

Waste Type: Construction Waste **Formation:** Ikalukrok Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead Phase 3 Main Waste Dump 5.576 0.1% 2.2% 0.0% Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead Main Pit Dump 3 6,806 2.3% 2.2% 1.3% Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead Main pit dump 4 10,086 0.7% 1.1% 4.8% Formation: Siksikpuk Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead Main pit dump 4 1,394 0.2% 1.9% 0.1% Waste Type Subtotal: 23,862 Waste Type: Most Reactive Waste Formation: Ikalukrok Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead Main Pit Dump 3 22,878 1.1% 5.8% 0.3% Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead 2.3% Main pit dump 4 1,148 3.5% 5.6% Formation: Mixed Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead Main pit dump 4 22,632 0.9% 5.7% 0.2% Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead Main Pit Dump 3 17,876 1.7% 6.8% 3.2% Waste Type Subtotal: 64,534 Waste Type: Other Waste Formation: Ikalukrok Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead Back Dam 52,726 1.6% 1.2% 1.2% Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead Main Pit Dump 2 6,806 1.9% 1.0% 3.1% Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead Main Pit Dump 3 10,086 1.0% 1.9% 1.1% Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead Landfill @MWD 2,296 2.4% 1.1% 3.1% Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead Main pit dump 4 506,596 1.8% 1.2% Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead incinerator 3.2% 0.8% 2.0% 3,444 Formation: Mixed Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead Main pit dump 4 35,588 2.4% 1.9% 3.4% Formation: Siksikpuk Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead

6,068

0.2%

Tonnes Avg. Zinc Avg. Iron Avg. Lead

1.1%

0.5%

Main Pit Dump 2	9,348	0.1%	3.3%	0.0%
Stockpile Use:		Avg. Zinc	•	U
Main Pit Dump 3  Stockpile Use:	16,482 <b>Tonnes</b>	0.3% <b>Avg. Zinc</b>		0.3% Avg. Lead
Main pit dump 4	64,534		2.0%	1.6%
Stockpile Use:	Tonnes	Avg. Zinc	Avg. Iron	Avg. Lead
Oxide north	3,444	0.4%	2.0%	1.5%

Waste Type Subtotal: 717,418

Total tonnes for month: 805,814

#### **Production Month December 2013**

Waste Type: Construction Waste

Formation: Mixed

Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead
Main Pit Dump 3 7.120 3.6% 1.1% 6.0%

Waste Type Subtotal: 7,120

Waste Type: Most Reactive Waste

Formation: Ikalukrok

Stockpile Use:TonnesAvg. ZincAvg. Iron Avg. LeadMain Pit Dump 39795.1%5.1%2.8%

Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead
Main pit dump 4 131,364 2.4% 4.8% 2.1%

Stockpile Use:TonnesAvg. ZincAvg. Iron Avg. LeadMain Pit Dump 22,5810.9%4.9%0.2%

Formation: Mixed

Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead
Main Waste Dump 356 1.7% 1.9% 5.3%

Stockpile Use:TonnesAvg. ZincAvg. Iron Avg. LeadMain Pit Dump 31,3357.0%6.2%8.0%

Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead
Main pit dump 4 18,601 8.0% 5.3% 10.7%

Formation: Siksikpuk

Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead

Main pit dump 4 890 3.2% 4.2% 1.5%

Waste Type Subtotal: 156,106

Waste Type: Other Waste

Formation: Ikalukrok

Stockpile Use:TonnesAvg. ZincAvg. Iron Avg. LeadMain Pit Dump 27,2984.4%1.0%2.6%

Stockpile Use:TonnesAvg. ZincAvg. Iron Avg. LeadMain Pit Dump 325,0981.5%2.2%1.0%

Stockpile Use:TonnesAvg. ZincAvg. Iron Avg. LeadLandfill @MWD8901.2%0.6%6.3%

Stockpile Use:TonnesAvg. ZincAvg. Iron Avg. LeadMain pit dump 4238,1863.1%1.3%3.5%

Formation: Mixed

Stockpile Use:TonnesAvg. ZincAvg. Iron Avg. LeadMain pit dump 4163,6711.4%2.2%2.4%

Stockpile Use:TonnesAvg. ZincAvg. IronAvg. LeadMain Pit Dump 3104,5752.4%1.4%3.2%

Formation: Siksikpuk

Stockpile Use: Tonnes Avg. Zinc Avg. Iron Avg. Lead

Main pit dump 4 10,146 0.5% 2.6% 0.5%

Waste Type Subtotal: 549,864

Total tonnes for month: 713,090

Appendix E Red Dog One Year Mine Plan 2013



**Red Dog Operations** 

Alaska, USA

# ONE YEAR MINE PLAN – 2014 ADDENDUM

(Financial Information Removed)

January 2014

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# 1. SUMMARY

#### 1.1. Introduction

The 2014 budget mine plan schedule was completed in July 2013. The following initial assumptions used for the 2014 mine plan have changed in the time between that schedule and this amended schedule:

- 1) Change in 2013 final pit status from EOY 2013 predictions made in July.
  - a. Progress on 825 and 850 bench shots was moderately different.
  - b. Progress on 975 bench shots was slower than the mid-year prediction, and the need to remove the geotechnical stepouts on 900 and 875 benches required more waste to be removed from 975 before ore is exposed.
- 2) Additional haul access to 950 / 975 bench on the west side of the pit, to be completed in early 2014.
- 3) Phase design changes (12a to 12c phases) The new phase designs keep the same phase concepts, but with moderate changes to the exact location of the walls, including wider catch benches every 4<sup>th</sup> bench in some areas to reduce geotechnical risk.
- 4) Geotechnical concerns leading to unplanned and planned stepouts.
- 5) In Pit stockpiles expanding Main Pit Dump 3 (MPD 3) in Q1 and Q2 to provide a platform for locating the stockpiles with the pit boundaries, in order to reduce fugitive dust from the stockpiles.
- 6) Changes in scope of major projects, and the associated equipment requirements. Largest change is that main dam work changed from a 6' raise to additional widening, and haulage requirements from DD2 increased by an order of magnitude, from 15,000 cubic yards to 150,000.

This 2014 Mine Plan Addendum is a collection of revised monthly 2014 mine production plans, equipment forecasts, dumping plans and other major changes.

# 1.2. Mine Production

The amended production forecast is 12,225 kt of total mine production from the Aqqaluk Pit (Table 1-1). There are 3,627 kt of ore scheduled at 17.5% Zn and 4.7% Pb. There are 8,598 kt of waste scheduled from the Aqqaluk Pit.

Aqqaluk Pit

Total (t)

12,225,137

Ore (t)

3,627,189

Zn (%)

17.5

Pb (%)

4.7

Waste (t)

8,597,948

SR

2.37

Table 1-1 2014 Mine Plan Summary

A comparison between the Amended Plan, 2014 Budget and 2014 5-year mine plan is in Table 1.2.

## 1.3. Mine Planning Parameters

1) Model: RED2012 BH-A

2) Aqqaluk 12c phase designs (Phase 2 is 12c1 version)

#### 1.4. Equipment Fleets

The adjusted 2014 equipment schedule is shown in Table 1-2. The fleet sizes for the blasthole drills, productions loaders and dozers remain the same throughout 2014. The fleet size for operating 777 haul trucks at begins at 8, and is reduced to 7 in July.

Equipment	Description	Q1 / Q2	Q3 / Q4
Drills	DML	3	3
Operating	777	8	7
Trucks			
Loaders	992/993	5	5
Dozers	D9/D10	4	4

Table 1-2 2014 Equipment Schedule

# 1.5. Haul Access

The overall goal for access is to have full width (93 ft.) two lane 777 haul roads, with reasonable grades (10-12%) on the most direct route possible between the active mining benches and the haul destinations, the ore stockpile and the waste dumps. Two access points to each mining bench are preferred, though benches may have a single access in the short term while mining is progressing towards an area that will provide additional access.

For drop cuts, the increased size of the 993 loaders has increased the required width to approximately 135 ft. The actual blasted width is adjusted to best fit the blast pattern spacing.

## 1.6. Risks and Opportunities

The 2014 Mine Plan has many challenges. Red Dog's continued success will be dependent on overcoming these challenges and on implementing procedures and plans to reduce risks and improve production.

1) Aggaluk Shape and Mining Phases Change

There are several outstanding issues that are likely to have an impact on these pit designs, requiring subsequent pit revisions:

 The completed 3-D models of the geotechnically pertinent fault and thrust surfaces in Aqqaluk. The final results of this work are pending. The new information may require an expansion of the Aqqaluk work due to the complexity of that deposit.

- The results of the geotechnical analysis of fault and thrust surfaces and rock properties in Aqqaluk. This work will be done when the 3-D models from the previous bullet are available.
- The adjustment of the geological boundaries to be consistent with the reinterpreted geotechnical structure. Adjustments to the Aqqaluk deposit are not expected to be straightforward due its much greater complexity and size. Resources and timing for this task are not yet determined.
- Diamond core drilling is continuing in the vicinity of the Aqqaluk pit in 2013 and 2014.
  This data will improve the modeling of several peripheral knobs of high grade exhalite
  which may lead to local expansions of the ultimate pit. This drilling will also better define
  mineralization that is currently considered part of the Paalaaq deposit and may lead to a
  deepening of the ultimate Aqqaluk pit.

# 2) Aggaluk Pit Ore Reserves and Block Model Accuracy

It is expected that block model inaccuracies in the benches just below the original ground surface and at the fringes of an ore body will continue as new pits and new pushback phases are pioneered. The ore and waste tonnages and ore grade estimates during this period could be poorer than the historical average. Regular updates of the diamond drillhole model with blasthole assay data should improve the accuracy of the block model used for planning.

# 3) High Silica, Low Barite and Fine Grain Ore Content in Stockpiles

High silica and high fine grain ore (Type 8) content in stockpiles causes challenges with metal recovery in the mill, because high silica rock in harder to grind, and fine grained rock must be grinded to a smaller diameter to achieve good liberation of the zinc or lead minerals from the gangue. The average barite grade for 2014 is lower than the average mill feed in 2013, so it will be important to mix the ore with high barite content evenly among stockpiles. Also, building stockpiles with ore from several areas of the pit will reduce the proportion that is high silica or high Type 8 rock from a particular location. Planning for fine grained ore is also challenging because it is not included in the block model.

# 4) Main Pit Dump Stability

Main Pit dump stability will be constantly monitored and evaluated. Efforts to retain the longest strike length for dumping must be made to ensure constant availability for waste disposal. Proper blending of varying waste materials will be maintained.

Dump stability will be particularity important for Main Pit Dump 3, as it will be used as pad for inpit stockpile building. Significant settling on this dump after a stockpile has been built on it could lead to a significant loss of ore.

### 5) Aqqaluk Pit Highwall Slope Stability

There are currently four significant zones of concern across Aqqaluk highwalls. These areas are now identified as "Risk Areas" on planning maps. The areas are:

- Risk Area 1 (High Risk) Located below the 900 bench in the Southeast portion of the
  pit and involves a three-bench failure, which occurred in early July as result of Barite
  failing along steeply dipping shales. This area will be removed by mining through the
  failed wall before the end of 2013
- Risk Area 2 (High Risk) This large area on the upper Northeast wall of Aqqaluk continues to exhibit instability and movement due to the shearing, foliation and weakness of the Kayak shales. The portion of the ramp on 1025 bench along this wall was stepped out, and the remainder of the bench below the wall has a roll out berm.
- Risk Area 3 (Medium Risk) This area is located in the center of the Aqqaluk Pit and involves filled catch benches from blasting above it on the 1025 bench and above. This area is currently being remediated and should be eliminated by the end of January 2014.
- Risk Area 4 (Medium Risk) Located in the Southeast corner of the Aqqaluk Pit, this risk
  area is caused by the intersection of steeply dipping shale bedding and steeply plunging
  joint surfaces in the barite contact.

The south wall of the Phase 1 pushback is directly beneath the Red Dog Creek diversion culvert. Instability was noted here while completing the shots directly adjacent to the culvert on 875 bench. Because of this instability, and the high environmental and operational consequences of a failure of the culvert, the wall of Phase 1 was pushed out 75 feet until the culvert can be moved farther away from the crest of the original Phase 1 pushback, which is also the crest of the ultimate Aqqaluk pit. Planning of the RDC culvert move is currently in progress, and it is tentatively schedule for Q4 2014 / Q1 2015.

In addition to inherent geotechnical structure causing issues, blasting on upper benches has filled the catch benches in the highwall in some areas. Blasting technique and mining sequence will be altered while mining the remaining upper benches limit the filling of catch benches.

Additional width will also be included in catch benches at regular intervals, and interim highwalls between phases will be limited to 4 (or at maxium, 5) benches in height.

## 6) Mill Feed Blending

A challenge to maintaining mill feed requirements will be our ability to plan for varying ore grades. Challenges include difficult sequencing of ore/waste, difficulties maintaining access, and congestion of equipment.

High barite ore will be a critical part of the mining sequence in 2014. A relatively even barite grade must be maintained in all stockpiles built throughout 2014. The mill requirement for barite content is between 7% and 15%, mining forecast for 2014 is 10.5%.

# 7) Acid Rock Drainage, Total Dissolved Solids and Selenium levels reduction

Due to mining of weathered material at the top of Aqqaluk pit, and Main Waste Dump leaching, dissolved selenium levels in the Tailings Storage Facility (TSF) have been elevated beyond permitted release boundaries at times, even after treatment. When treated water could not be discharged it was being stored in Main Pit, but treated water was below release limits was discharged to Red Dog Creek in 2013.

Accelerated raises of the Tailings Dams were completed in 2013 to provide extra volume in the tailings pond if elevated levels of selenium and TDS continue. However, a water balance completed in 2013 shows the water level in the Tailings Storage Facility (TSF) and Main Pit will rise slower than expected.

A variety of projects are in progress to reduce the levels of ARD, TDS and Selenium in the TSF and Main Pit lake.

#### 8) Blasting performance improvement

In June 2013 the mine technical group began to implement High Energy (HE) blasting in the ore shots, with a goal of using a powder factor of 0.44 kg/tonne, to improve fragmentation of mill feed. An ore shot is defined as containing more than 30% ore by tonnage from the block model. Currently Red Dog is using a 13.5' x 11.7' pattern size for ore shots. The powder factor average is 0.36 for the ore shots that are not wall control, Red Dog Creek proximate or affected by water.

In early 2014, a trial study will be conducted on the ore shots using 7.0" drill bits (versus current 6.5" bits). The pattern size will stay constant. A larger hole size allows for more blasting agent, increasing the powder factor.

Analysis has indicated there is a discrepancy between the amount of blasting agent loaded into the holes versus predicted loads. An investigation into variables affecting the amount of product used in the shots is ongoing.

Mine technical is also collecting fragmentation information to evaluate HE blasting results. In April 2013, consistent documentation of each shot with video and photos began, mainly to provide a qualitative indication of fragmentation. Fragmentation software packages that quantitatively measure fragmentation are being researched.

#### 9) Equipment Modernization Projects

Installation and implementation of GPS guidance and wireless data connections on production drills began in late 2013. Utilization of modern technologies is expected to increase productivity in the equipment fleet, increase survey availability, enhance field safety, and produce improved blast performance.

#### 10) Production Efficiencies

Maintaining three benches with ore production, along with at least two additional waste benches, will increase efficiency and maximize production. Multiple haulage paths mitigate access and haulage issues.

#### 11) Waste Rock Reactivity Model

A more predictive model of the reactivity of waste rock is required as not all reactive susceptible waste rock undergoes exothermic reaction. A tighter classification of reactive waste material may reduce the quantity needing to be stored below the water elevation ensuring only the most problematic material uses up the available volume.

### 12) Project Equipment Hour Forecasts

The 2013 budget forecasts for project equipment hours were significantly less than actual equipment hours used on projects, primarily because the scope of projects changed from when the original budget forecasts were done. Currently, projects for 2014 have not been planned or scheduled in detail, which is likely to result in significant differences in equipment hours again in 2014. The largest impact of these changes is on the 777 truck fleet, so trucks not required for mine production will be parked and kept in reserve to provide additional material movement for projects.

## 13) Stockpile Performance

Stockpile performance, in terms of the stockpile release vs. mill assay grades is a challenge in Aqqaluk pit. Possible causes of poor performance are: inaccurate blasthole assays, inconsistent stockpile construction, dilution or poor recovery of ore in the pit, and errors caused by having a single constant load factor for ore tonnes for 777 truck load. Geology, mine engineering and mine operations are working to improve the performance of stockpiles.

One action has been to adjust the truck load factors based on a quarterly volume reconciliation.

# 2. MONTHLY MINE PRODUCTION

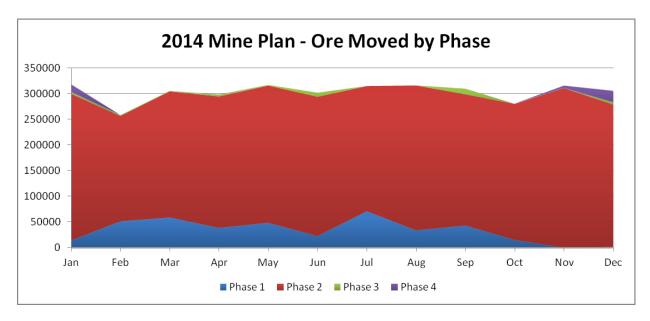


Figure 2-1 Ore Moved by Phase

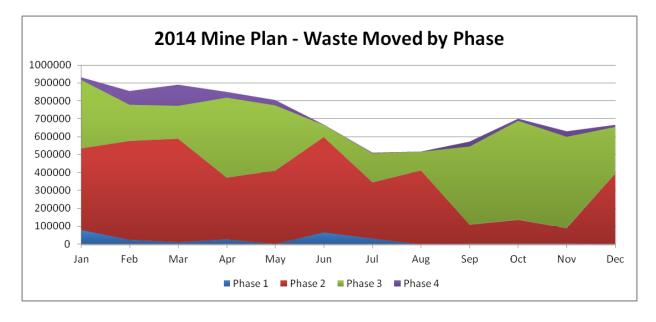


Figure 2-2 Waste Moved by Phase

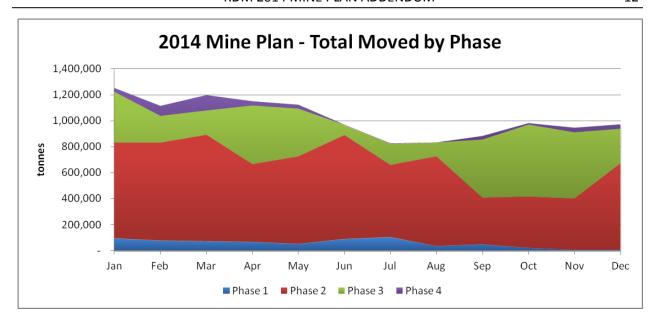


Figure 2-3 Total Moved by Phase

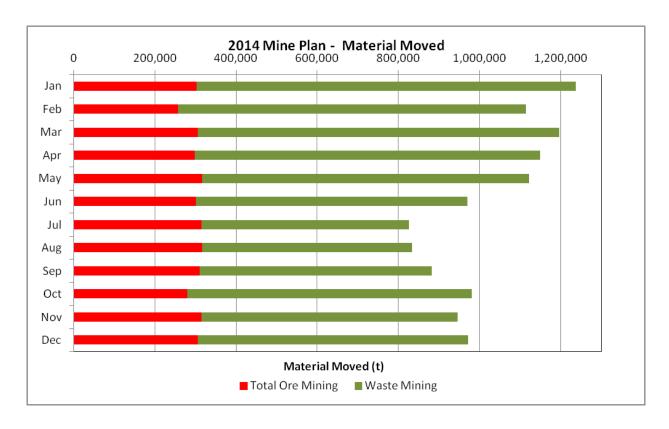


Figure 2-4 Material Movement Split Per Month

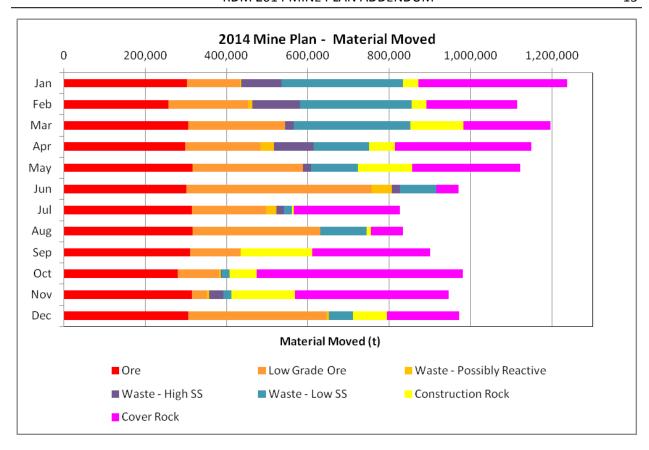


Figure 2-5 Material Types Moved by Month

Table 2-1 2014 Monthly Mine Plan Summary by Phase

# 2014 Monthly Mine Production Forecast by AQQ Pit Phase

	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	2014 Total
Ore													
PH	1 14,151	51,233	58,800	38,478	48,384	22,587	70,915	33,626	43,119	15,053	0	1,642	397,988
PH	285,710	205,303	245,981	256,314	267,781	271,471	244,218	282,610	255,694	265,346	311,082	277,172	3,168,681
PH	3,544	1,544	756	3,239	959	7,960	0	0	11,039	0	84	4,512	33,638
PH	4 (	0	0	335	0	0	0	0	0	0	4,437	22,108	26,880
Tota	I 303,407	258,081	305,540	298,366	317,123	302,021	315,131	316,234	309,853	280,399	315,602	305,432	3,627,189
Waste													
PH	1 79,768	25,652	12,355	27,685	2,086	66,204	32,203	0	4,034	4,281	4,397	2,566	261,230
PH	2 453,574	549,561	574,968	343,454	407,701	529,913	312,264	410,219	105,070	131,482	85,672	391,235	4,295,113
PH	385,136	203,577	185,611	447,324	365,699	69,266	162,517	105,606	436,103	553,021	509,379	260,637	3,683,876
PH	4 14,127	76,743	117,779	32,119	29,605	1,751	3,298	676	27,212	11,860	30,655	11,902	357,727
Tota	932,605	855,533	890,710	850,585	805,092	667,134	510,281	516,500	572,419	700,648	630,103	666,338	8,597,948
Total													
PH	93,919	76,885	71,155	66,163	50,470	88,791	103,118	33,626	47,152	19,334	4,397	4,208	659,218
PH	2 <b>739,28</b> 4	754,864	820,949	599,768	675,481	801,384	556,481	692,829	360,764	396,829	396,754	668,407	7,463,794
PH	388,681	205,122	186,367	450,564	366,658	77,225	162,517	105,606	447,142	553,021	509,463	265,149	3,717,513
PH	4 14,127	76,743	117,779	32,453	29,605	1,751	3,298	676	27,212	11,860	35,092	34,010	384,607
Tota	I 1,236,012	1,113,614	1,196,250	1,148,951	1,122,215	969,155	825,412	832,734	882,272	981,047	945,705	971,770	12,225,137

Table 2-2 2014 Quarterly Mine Plan Summary by Phase

# 2014 Quarterly Mine Production Forecast by AQQ Pit Phase

<u>Total</u>		Q1	Q2	Q3	Q4	2014 Total
Ore						
	PH1	124,184	109,449	147,660	16,695	397,988
	PH2	736,994	795,565	782,522	853,600	3,168,681
	PH3	5,845	12,157	11,039	4,596	33,638
	PH4	0	335	0	26,546	26,880
	Total	867,028	917,510	941,218	901,433	3,627,189
Waste						
	PH1	117,775	95,975	36,236	11,244	261,230
	PH2	1,578,103	1,281,068	827,553	608,389	4,295,113
	PH3	774,324	882,289	704,226	1,323,037	3,683,876
	PH4	208,649	63,475	31,186	54,417	357,727
	Total	2,678,848	2,322,811	1,599,200	1,997,089	8,597,948
Total						
	PH1	241,960	205,423	183,896	27,939	659,218
	PH2	2,315,097	2,076,633	1,610,075	1,461,990	7,463,794
	PH3	780,169	894,446	715,265	1,327,633	3,717,513
	PH4	208,649	63,809	31,186	80,962	384,607
	Total	3,545,876	3,240,321	2,540,418	2,898,522	12,225,137

Bench	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1250	10	•	ı	•	•	•	•	ı	1		•		10
1225	233	-	1	-	-	-	-	1	-	-	-	-	233
1200	26	241	271	-	-	-	-	-	-	-	-	-	539
1175	-	-	23	376	144	-	-	-	-	-	-	-	542
1150	31	-	-	36	262	-	62	88	209	-	-	-	688
1125	-	-	-	-	-	-	108	-	250	318	256	-	932
1100	-	-	-	-	-	-	-	-	-	216	318	270	805
1075	-	-	-	-	-	-	-	-	-	-	-	-	-
1050	-	-	-	-	-	-	-	-	-	-	-	-	-
1025	-	-	-	-	-	-	-	-	-	-	-	-	-
1000	125	-	-	-	-	-	-	-	-	-	-	-	125
975	324	351	248	81	-	-	-	-	-	-	-	-	1,003
950	-	-	-	376	328	556	-	-	-	-	-	-	1,260
925	-	-	-	-	110	145	227	433	125	40	109	106	1,295
900	23	-	-	-	-	-	-	57	78	145	90	288	681
875	85	32	-	-	-	-	-	-	-	-	38	99	255
850	320	236	479	31	158	-	-	-	-	-	-	-	1,223
825	95	157	149	170	139	195	297	176	172	90	8	-	1,647
800	-	-	-	68	-	91	176	105	124	197	114	250	1,123
Total	1,236	1,114	1,196	1,149	1,122	969	825	833	882	981	946	972	12,225

Figure 2-6 Benches Mined (Total Material)

		Març	ginal	Wa	ste	
		Not	React	Excluding	Total	
Bench	Ore	Reactive	Noact	Marginal	Total	Total
1250	-	1	-	10	10	10
1225	ı	1	1	233	233	233
1200	ı	1	•	539	539	539
1175	1	1	•	542	542	542
1150	1	1	•	688	688	688
1125	•	1	•	932	932	932
1100	-	1	-	805	805	805
1075	-	1	-	-	1	-
1050	1	1	1	1	1	-
1025	-	-	-	-	-	-
1000	-	6	-	119	125	125
975	26	300	16	661	977	1,003
950	251	482	188	340	1,009	1,260
925	462	513	53	267	833	1,295
900	212	327	12	131	469	681
875	111	58	4	82	144	255
850	642	231	1	348	581	1,223
825	1,216	234	4	193	431	1,647
800	825	111	33	154	297	1,123
Total	3,627	2,257	310	6,032	8,598	12,225

Figure 2-7 Material Split by Bench

# 3. ADDITIONAL PROJECTS

## 3.1. Sulfur Creek Dirty Water Ditch

The expansion of the ultimate pit shell, and the resulting changes in the Sulfur Creek clean water ditch, require a permanent dirty water ditch as part of the diversion system. This ditch will prevent water from the active mining area from entering Sulfur Creek and ultimately Red Dog Creek. The design is still being finalized, but it will likely require a combination of lined ditch, 36" pipe and unlined ditch. The latest design draft is shown in Figure 4-1.

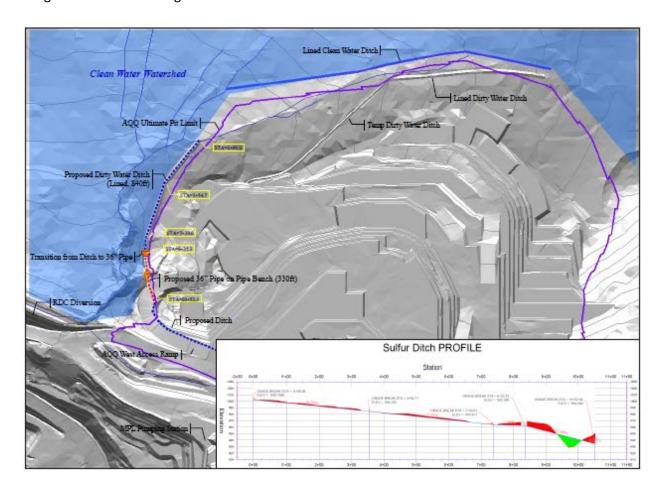


Figure 4-1 Sulfur Creek Diversion System Layout

## 3.2. Red Dog Creek Culvert Move

The bend in the Red Dog Culvert where it passes closest to the pit will be relocated in late 2014 / early 2015. The culvert will be moved south, onto Main Pit Dump 3 (MPD 3), generally

straightening the bend. This is due to the geotechnical instability in the south wall of Aqqaluk pit. A 75 foot step of the wall has been left in-situ to provide a buffer for the existing culvert.

# 3.3. In-Pit Stockpiles

Fugitive dust comes from the construction and reclamation of the ore stockpiles located in front of the gyratory crusher. The prevailing winds are from the NE, thus carrying dust from stockpile activity to the tundra located south and west of the tailings pond. MPD 3 will be expanded with waste material to create a pad for two 170 kt stockpiles, as shown in Figure 4-2. The lower location should reduce the amount of dust transported to tundra outside the mine site.

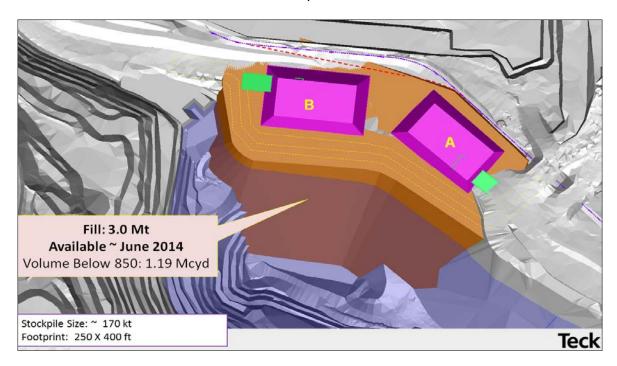


Figure 4-2 In-Pit Stockpile Options

Appendix F 2013 Red Dog Mine Disturbance Map

