

SUMMARY REPORT
GROUNDWATER WATER QUALITY MONITORING
FARO MINE COMPLEX (FMC)
SEPTEMBER 2012

For



Erik Pit
Assessment and Abandoned Mines Branch

Submitted by



January 11th, 2013

1.0 BACKGROUND AND SCOPE OF WORK

In March, 2009 Laberge Environmental Services (LES) was tasked with sample collection of all groundwater (GW) monitoring sites at the Faro Mine Complex (FMC) then under the Care and Maintenance contract then being executed by Denison Environmental Services (DES). At the same time, AECOM was contracted to supply a technical knowledge transfer to LES/DES. AECOM attended two sampling events at the Faro Mine Complex (FMC), during which the Standard Operating Procedures for each monitoring well were fully documented and practised. All relevant monitoring well information was transcribed into a field manual which was used in all subsequent groundwater monitoring campaigns. During 2010 and 2011, DES conducted the groundwater monitoring on their own without assistance from LES. In May, 2012 LES conducted the GW monitoring for the Yukon Government (YG).

On August 22nd, 2012, a request was made of LES to provide a proposal to Assessment and Abandoned Mines (AAM) to conduct the groundwater monitoring program at the FMC in September, 2012. LES signed a contract on September 4th, 2012 to complete the fall groundwater monitoring program.

A list was provided by YG indicated that 100 wells were to be sampled in September 2012 for a suite of analytical and in-situ parameters. Specifically the full suite of parameters was as follows:

In-situ

- pH
- conductivity
- temperature
- purge volume
- purge time
- sample time

Analytical

- acidity
- alkalinity
- chloride
- conductivity
- pH
- sulphate
- total suspended solids
- low level dissolved metals (30 element suite)

Several of these wells required a reduced suite of analytical parameters. These parameters included the following only:

- alkalinity
- conductivity
- pH
- sulphate
- low level dissolved metals (7 element suite – calcium, iron, magnesium, manganese, sodium and zinc)

The wells assigned the reduced suite of analysis include: BH13B, TH86-2, TH86-5, SRK04-3A, SRK05-ETA-BR1, SKR05-ETA-BR2, SRK05-SP-1A, SRK05-SP-1B, SRK05-SP2, SRK05-SP-3A, SRK05-SP-3B and SRK05-SP-6.

2.0 STUDY AREA

The study area encompasses three general areas of the Faro Mine Complex (FMC); Rose Creek Tailings and area, Faro Mine area and Vangorada/Grum area. The table below lists the wells that were sampled in September 2012. For any wells that were not sampled a rationale has been provided in the comments column.

TABLE 1 GROUNDWATER WELLS SAMPLED IN SEPTEMBER 2012		
Well Name	Sampled	Not Sampled Comments
Zone 2 Outwash/Pit		
BH5	√	
BH6	√	
BH8	√	
BH10A	√	
BH10B	√	
P05-04	√	
SRK08-P12A	√	
SRK08-P12B	√	
Northeast Dumps		
BH13B	√	
BH14A	√	
BH14B	√	
Mill Area		
SRK08-10A	√	
SRK08-11A	√	
SRK08-11B	√	
Main Dump		
SRK08-P9	√	
Intermediate Dump		
P96-6	√	
ETA Area		
P96-8A	√	
P96-8B	√	
P09-ETA-1	√	
P09-ETA-2	√	
SRK04-3A	√	
SRK05-ETA-BR1	√	
SRK05-ETA-BR2	√	
S-Wells Area		
S1A	√	
S1B		Insufficient volume to sample
S2A	√	
S2B	√	
P96-7	√	
SRK05-SP-1A	√	
SRK05-SP-1B	√	
SRK05-SP-2	√	

TABLE 1 GROUNDWATER WELLS SAMPLED IN SEPTEMBER 2012		
Well Name	Sampled	Not Sampled Comments
SRK05-SP-3A	√	
SRK05-SP-3B	√	
SRK05-SP-4A	√	
SRK05-SP-4B		Dry
SRK05-SP-5	√	
SRK05-SP-6		Dry
SRK08-SP7A	√	
SRK08-SP7B	√	
SRK08-SP8A	√	
SRK08-SP8B	√	
SRK08-SBR1		Blocked
SRK08-SBR2	√	
SRK08-SBR3	√	
SRK08-SBR4	√	
P09-SIS1	√	
P09-SIS2	√	
P09-SIS3	√	
P09-SIS4	√	
P09-SIS5	√	
Upstream of Tailings		
TH86-2	√	
TH86-5	√	
Second Impoundment		
P03-01-2	√	
P03-01-8	√	
P03-03-2	√	
P03-03-4	√	
P03-03-9	√	
P03-05-4	√	
P03-06-1	√	
P03-06-2	√	
P03-06-6	√	
P03-06-7		Dry
Intermediate Dam		
P01-03	√	
P01-04A	√	
P01-04B	√	
X24-96D	√	
X25-96A	√	
X25-96B	√	
Cross Valley Dam		
P03-09-6	√	
P03-09-9	√	
P05-01-03	√	
P05-01-05	√	
P01-11	√	

TABLE 1 GROUNDWATER WELLS SAMPLED IN SEPTEMBER 2012		
Well Name	Sampled	Not Sampled Comments
P09-C2	√	
P09-C3	√	
Downgradient of CVD		
P01-01A	√	
P01-01B	√	
Groundwater - Vangorda/Grum		
P2001-2A	√	
P2001-2B	√	
P2001-3	√	
P96-9A	√	
P96-9BR	√	
SRK05-05C	√	
SRK05-7	√	
SRK05-8	√	
SRK05-9	√	
V34	√	
V35	√	
V36	√	
V37	√	
SRK08-P14	√	
SRK08-P15	√	
SRK08-P16		Dry
P09-GS1A	√	
P09-GS1B	√	
P09-LCD1	√	
P09-LCD4	√	
P09-LCD6	√	
P09-VC1	√	
P09-VC2	√	

3.0 METHODS

As mentioned above, LES followed the SOPs and QA/QC measures prescribed for the FMC by AECOM dating to 2009. Most of the sampling methods were common to mine-site groundwater monitoring programs with a few site-specific protocols adapted to local conditions.

LES was requested by AAM to use Analytical Laboratory Services (ALS) for this round of sampling. The necessary sample kits were picked up from the Whitehorse ALS laboratory. Each sample bottle was rinsed three times with the sample waters and then filled and preserved in the field as specified by the laboratory's protocols. Dissolved metals samples were field-filtered and preserved. In some cases grossly high very fine suspended solids were present in the sample waters. This is usually a symptom of a poorly developed monitoring well, or simply one which was very difficult to screen in a way that prevented high suspended solids from coming up the casing. In these cases, it was not practical to obtain a clear enough water sample within the time constraints, and such sites were simply sampled, kept cool and presented to the lab at the soonest possible time so that they could perform the filtration process with industrial equipment. Samples that contained such high suspended solids were not filtered or preserved in the field, but were prepared by ALS Whitehorse. Samples were kept cool then shipped in three separate shipments during the week to Whitehorse on A1 Delivery from Faro, utilizing their schedule to ensure all samples, and especially those which could not be field filtered, were received as soon as possible and well within their respective holding times.

In-situ measurements of water temperature, conductivity and pH were taken at each site using a handheld Hanna multi-probe meter. The instrument was calibrated daily prior to sampling. Depth to water and total depth of each well was noted in order to calculate purge volumes. Photographs were also taken to document the current conditions at each well.

Water left standing in a monitoring well for months between sampling may become stagnant and unrepresentative of the formation water quality. The most common purging approach, including that used at the FMC, is to remove a predetermined volume of stagnant water from the casing before sampling while keeping the pumping rate similar to the rate of recharge. This is to prevent changes in the redox state that may cause oxidation of dissolved metals (ASTM Standard Guide for Sampling Ground-Water Monitoring Wells D4448-01). Prior to sampling the conventional wells, three volumes of standing water were purged where possible, to ensure samples representative of the actual groundwater. Previously, Gartner Lee Ltd (AECOM) had calculated that an additional 42 litres should be removed from each well to represent water that may be contained within a presumed sand pack. LES was informed that using this protocol should be continued for the September, 2012 monitoring. Purging of the multilevel wells required the removal of only one volume of standing water. Note that purging the target calculated volumes was not possible due to

the extremely low rate of recharge in many of the wells monitored during this survey. The total amount purged has been recorded however in Tables 2 and 3 with rationales provided in the Comments column for each of the affected wells.

Most of the conventional wells were equipped with dedicated 5/8" tubing. Purging was either conducted manually or with the aid of a Honda centrifugal pump and/or Hydrolift displacement pump. Purge method has been indicated in Tables 2 and 3. After purging was complete, the pump was disconnected and the sample bottles were filled manually using the tubing present in each well. The flexible hose attached to the centrifugal pumps was re-used at each well since only the purged water contacted this tubing. Purged water was discarded at each site.

The multi level wells were sampled using 1/4" tubing which was thoroughly rinsed with deionized water between each multi-level well in the set, and then disposed. Where the water level was greater than five meters from the top of the pipe, foot valves were used. A peristaltic pump, powered by a portable generator or a battery pack, was used to purge and sample each well. Purging of the multilevel wells required the removal of only one volume of standing water.

As measures of quality assurance and quality control, QA/QC, nine blind duplicates were collected during the survey. In addition, one field blank was submitted as well as the travel blank provided in the sampling kit by the lab. The lab also ran their own QA/QC and their report is included with their analytical report, appended to this document.

4.0 RESULTS

Photographs of the wells are provided in Appendix A. The QA/QC protocol required at least 10% of samples be supplied with a blind duplicate – a sample collected at the same time and with the same protocols as the respective sample, but whose location was not revealed to the lab. The data for the blind duplicates are contained in the final columns of each of the tables. The location for each blind duplicate is indicated in the Comments column in Tables 2 and 3 and is listed below:

BD-1 = BH05-9B-R
BD-2 = P09-VC2
BD-3 = SRK05-2P-4A
BD-4 = SRK05-SP-3A
BD-5 = SRK08-P14
BD-6 = TH86-5
BD-7 = P03-01-02
BD-8 = PO1-04A
BD-9 = BH10A

4.1 In-Situ Results

Ninety-four wells were sampled; results for all wells are included in the in-situ tables. The in-situ data for the conventional wells are presented in Table 2 of Appendix B. Table 3 (Appendix B) includes in-situ data for the multilevel wells.

4.2 Analytical Data

Anions, Nutrients and Physical Data

Table 4, Appendix B, presents the compiled anion, nutrient and physical attributes of the samples collected in the study area.

Dissolved Metals

The dissolved metals data are presented in Table 5, Appendix B. Note that the lab reported all metals that are included in the ICP scan for the reduced suite of parameters, despite the fact that only the metals calcium, iron, magnesium, manganese, sodium and zinc were requested.

Appendix C contains the analytical reports, complete with all QA/QC, from ALS. Note that there are three separate reports which represent each shipment.

5.0 DISCUSSION AND RECOMMENDATIONS

It is beyond our scope of work to provide any discussion or interpretation of the results for the September 2012 groundwater quality samples collected at the Faro Mine Complex. This letter report and appendices includes all the specified deliverables in the provided scope of work. It is recommended that repairs and routine maintenance should be completed to the wells identified in Table 2 prior to the next round of sampling to ensure that the quality of the groundwater samples is not compromised.

It is suggested that the water quality data from the very poor producing groundwater wells be carefully analyzed to determine their usefulness in future groundwater monitoring programs. Although every effort was undertaken to purge the calculated volumes of water, this could not be accomplished at many of the wells. As indicated in Table 2 and listed below, several wells contained very little water and were pumped dry very quickly. Recovery takes days, weeks, maybe even months, indicating very low permeability and negligible groundwater movement at these locations.

GW wells that presented purge water well below the recommended volume:

- | | |
|-----------------|-------------|
| • SRK05-ETA-BR1 | • P2001-02A |
| • SRK05-ETA-BR2 | • P2001-02B |
| • SRK08-P9 | • P2001-03 |
| • BH13B | • SRK05-05C |
| • BH14A | • SRK05-07 |
| • BH14B | • SRK05-08 |
| • BH8 | • SRK05-9 |
| • BH10B | • V34 |
| • S2A | • V35 |
| • S2B | • V37 |
| • P09-SIS1 | • P09GSIB |
| • P09-SIS4 | • P09-LCD4 |
| • P09-SIS5 | |

The two wells TH86-2 and TH86-5 are supposedly reference or background wells upstream of the tailings facility. However, TH86-5 is grossly contaminated with an unknown substance. The water is black, very high in suspended solids, and does not clear up even after the removal of 150L (see picture in Appendix A). It is noteworthy that the concentrations of dissolved metals and sulphate concentration are low. Had this site been an artefact of some outside pollutant (such as an object or animal entering the unprotected well-head), by now it would have been purged from the well. This groundwater does not appear to represent typical background conditions. It is recommended

that this site be re-sampled with an added suite of parameters targeting carbon, nutrients, hydrocarbons and typical conservative ions.

The purge protocols should be revisited. Removing three volumes of standing water seems reasonable to ensure that the actual groundwater is being sampled, however the addition of 42L that AECOM has recommended that may be present in the sand pack, makes it difficult to retrieve the calculated volume of purge water, especially from some of the shallow wells. A good field practise is to use in-situ parameters to guide the purge volume. Our practise is to monitor pH, temperature and conductivity in the purge water. When these parameters stabilize, that is indicative of formation water. We have noticed that a lot of the excess purging is unnecessary.

The approach to purging the extremely low yield wells should be changed. Pumping a monitoring well dry is not particularly good practise, and reducing the pumping rate to less than that of recharge is simply not practical for these wells. If a given well is determined to be crucial to the program, then it is suggested that a groundwater expert be consulted to advise on the utility of either purging a minimum of water or none at all prior to sampling. The use of a submersible pump or peristaltic pump for these wells is also recommended because these can be adjusted to low-flow purging methods.

LES has conducted the groundwater monitoring program at FMC in 2009 (4 sampling events) and in 2012 (2 sampling events). In past years we found it useful to attend a meeting where groundwater experts shared the same room with field staff, mine managers, government staff and consultants. Such a meeting has beneficial outcomes in data quality and objectives, logistics and cost savings. At a minimum, the groundwater quality data should routinely be analyzed by a specialist to interpret the data, determine the relevance of the collected data and to observe any trends. One such trend may be lesser concentrations of dissolved metals down gradient of the seepage collection systems. There are hundreds of groundwater wells on the property with more seemingly drilled each year, and as the usefulness of particular wells decrease they should be decommissioned accordingly.

Respectfully submitted,



Bonnie Burns
Laberge Environmental Services

APPENDIX A

PHOTOGRAPHS, GROUNDWATER WELLS SEPTEMBER 2012



Well name: P01-01A and P01-01B, Sept 10, 2012.



Well name: X24-96D, Sept 10, 2012.



Well name: P01-11, September 10, 2012.



Well name: X25-96A and X25-96B, Sept 10, 2012.



Well name: P01-03, September 2012.



Well name: P01-04A and P01-04B, Sept 10, 2012.



Well name: TH-86-2, September 13, 2012.



Well name: SRK08-10A, September 10, 2012



Well name: TH86-5, water very black and did not clear up at all, September 13, 2012.



Well name: BH13B, September 12th, 2012.



Well name: BH5, September 12th, 2012.



Well name: BH14A and BH14B, September 12th, 2012.



Well name: BH8, September 12th, 2012.



Well name: BH6, September 12th, 2012.



Well name: BH10A and BH10B, September 12th, 2012.



Well name: SRK08-P12A and SRK08-P12B, September 12th, 2012.



Well name: P96-6, September 12th, 2012.



Well name: S2A and S2B, September 11th, 2012.



Well name: P05-04, September 12th, 2012.



Well name: S1A and S1B, September 12th, 2012.



Well name: SRK05-SP-1A and SRK05-SP-1B, September 12th, 2012.



Well name: SRK05-SP-2, September 12th, 2012.



Well name: SRK05-SP-3A and SRK05-SP-3B, September 11th, 2012.



Well name: SRK05-SP-5, September 11th, 2012.



Well name: SRK05-SP-4A and SRK05-SP-4B, September 11th, 2012.



Well name: SRK05-SP-6, September 11th, 2012.



Well name: SRK08-SP7A and SRK08-SP7B, September 12th, 2012.



Well name: SRK08-SP8A and SRK08-SP8B, September 12th, 2012.



Well name: SRK08-SBR1, September 12th, 2012.



Well name: SRK08-SBR2, September 12th, 2012.



Well name: SRK08-SBR3, September 12th, 2012.



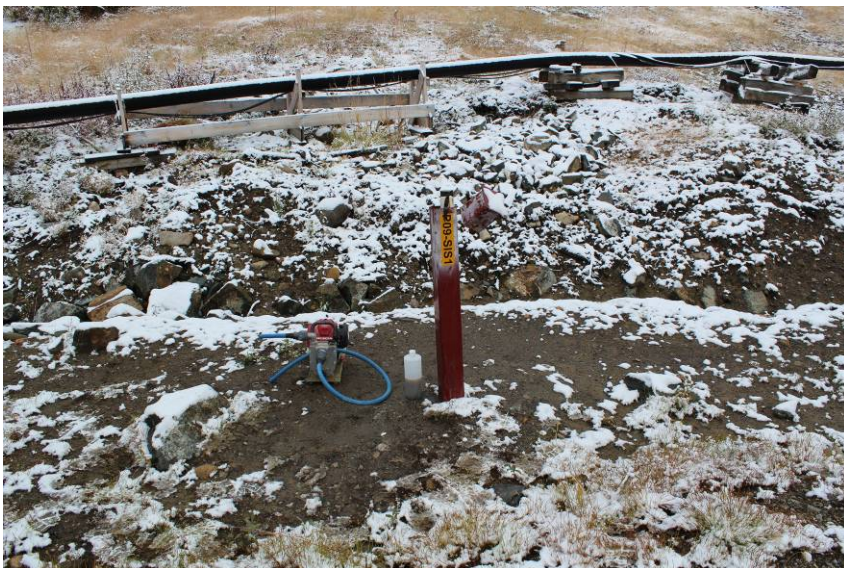
Well name: SRK08-SBR4, September 11th, 2012.



Well name: P96-7, September 12th, 2012.



Well name: P09-SIS2, September 11th, 2012.



Well name: P09-SIS1, September 11th, 2012.



Well name: P09-SIS4, September 11th, 2012.



Well name: P09-SIS3, September 11th, 2012.



Well name: P09-SIS5, September 11th, 2012.



Well name: BH05-9B-R, September 12th, 2012.



Well name: SRK05-05C, September 11th, 2012.



Well name: SRK05-9, September 12th, 2012.



Well name: SRK09-08, September 12th, 2012.



Well name: P2001-02A and P2001-02B, September 12th, 2012.



Well name: P2001-03, September 11th, 2012.



Well name: V34, September 12th, 2012.



Well name: P96-9A, September 13th, 2012.



Well name: V35, September 11th, 2012.



Well name: V36, September 11th, 2012.



Well name: V37, September 11th, 2012.



Well name: P09-GS1A, September 13th, 2012.



Well name: P09-GS1B, September 13th, 2012.



Well name: P09-LCD1, September 13th, 2012.



Well name: P09-LCD6, September 13th, 2012.



Well name: P09-LCD4, September 13th, 2012.



Well name: P09-VC1, September 11th, 2012.



Well name: P09-VC2, September 11th, 2012.



Well name: SRK08-P14, September 13th, 2012.



Well name: SRK08-11A and SRK08-11B, September 10th, 2012.



Well name: SRK08-P15, September 12th, 2012.



Well name: SRK08-P16, September 12th, 2012.



Well name: P09-C2, September 10th, 2012.



Well name: SRK05-ETA-BR2, September 10th, 2012.



Well name: P05-01, September 10th, 2012.



Well name: P03-09, September 10th, 2012.



Well name: P03-05, September 11th, 2012.



Well name: P03-06, September 11th, 2012.



Well name: P03-02, September 11th, 2012.



Well name: P03-01, September 11th, 2012.

APPENDIX B

GROUNDWATER DATA TABLES 2 TO 5

TABLE 2, APPENDIX B

INSITU DATA FOR CONVENTIOAL WELLS, FARO MINE COMPLEX, SEPTEMBER 2012

Monitor ID	Date Sampled	Time Sampled	Time Water Level	TotalDepth (m TOC)	DTW (m) frm (TOC)	Height of Water (m)	Calculated Purge Volume (L)	Actual Amount Purged (L)	Collection Method	pH	Cond. (µS/cm)	Temp (°C)	Comments
Down Gradient of Cross Valley Dam													
P01-01A	10-Sep-2012	9:25	9:00	20.350	3.618	16.732	142	142	pump	7.02	2013	2.7	Clear, good yield, started getting dirty on 4th bucket but cleared again. Clear sample.
P01-01B	10-Sep-2012	10:00	9:05	35.275	3.681	31.594	232	232	pump	7.34	1395	3.1	Clear, good yield.
Cross Valley Dam													
P01-11	10-Sep-2012	10:34	10:00	11.110	1.320	9.790	101	105	pump	6.92	3374	4.7	Initially turbid but cleared on second bucket. PVC pipe is 15" above casing and thus not capped. Frost heaved at base. Started snowing.
P09-C2	10-Sep-2012	11:30	8:40	65.530	0.274	65.256	434	430	hydrolift and honda	6.70	2695	3.8	No change since May 2012. Clear.
P09-C3	10-Sep-2012	13:00	9:15	52.180	1.690	50.490	345	340	hydrolift and honda	6.73	1448	4.4	Stick up shorter due to road grading. Flow rate 7.5L/minute.
Intermediate Dam													
X24D-96	10-Sep-2012	11:52	11:25	28.570	4.820	23.750	185	180	pump	6.21	3802	3.8	Tubing was initially stuck but came free.
X25A-96	10-Sep-2012	14:12	14:00	9.490	4.170	5.320	74	75	pump	7.14	1578	3.5	Clear.
X25B-96	10-Sep-2012	14:20	14:15	19.730	4.045	15.685	136	135	pump	7.57	1518	3.4	Clear water. Snowing steadily.
P01-03	10-Sep-2012	13:00	12:40	9.620	3.930	5.690	76	75	pump	6.19	3780	4.4	High sediment load for first bucket then cleared up.
P01-04A	10-Sep-2012	14:50	14:00	53.330	2.401	50.929	348	345	pump	6.88	676	4.9	Clear, good yield, snowing, breezy, blind duplicate collected here, BD-8.
P01-04B	10-Sep-2012	15:30	14:10	34.080	3.047	31.033	228	225	pump	6.93	2273	3.9	Clear, good yield.
ETA, Intermediate Impoundment and Tailings													
P09-ETA1	10-Sep-2012	15:00	14:00	33.300	6.560	26.740	202	100	manual	7.76	443	3.7	Dry at 75L. Clear to slightly turbid, slightly milky, bubbles - frothy but dissipates.
P09-ETA2	10-Sep-2012	14:45	14:20	18.450	10.070	8.380	92	90	manual	6.61	>4000	4.5	Reddish, low turbidity, cleared up after 20L but very fine sediments and took 20 filters.
P96-8A	10-Sep-2012	16:30	15:45	9.420	2.410	7.010	84	80	manual	5.69	>4000	6.8	Clear and copious
P96-8B	10-Sep-2012	16:00	15:40	4.319	2.500	1.819	53	55	manual	4.26	>4000	6.4	Clear and copious, chemical smell, bubbles.
SRK04-3A	10-Sep-2012	14:45	14:30	12.372	5.976	6.396	80	75	pump & assist	5.38	>4000	5.6	Moderate suspended sediment.
SRK05-ETA-BR1	10-Sep-2012	17:05	16:50	13.248	6.815	6.433	81	45	pump & assist	5.49	>4000	4.3	1" tubing which had to be removed to measure depths, cloudy, milky white suspended solids, dissolved metals was not filtered or preserved.
SRK05-ETA-BR2	10-Sep-2012	16:05	15:45	19.344	4.991	14.353	128	60	pump & assist	7.08	2586	5.7	1" tubing which had to be removed to measure depths, cloudy, milky white suspended solids, dissolved metals was not filtered or preserved.

Monitor ID	Date Sampled	Time Sampled	Time Water Level	TotalDepth (m TOC)	DTW (m) frm (TOC)	Height of Water (m)	Calculated Purge Volume (L)	Actual Amount Purged (L)	Collection Method	pH	Cond. (µS/cm)	Temp (°C)	Comments
Upstream of Tailings													
TH86-2	13-Sep-2012	10:00	9:45	11.515	2.363	9.152	97	105	pump	6.62	303	3.9	Good yield. Initially turbid, cleared up then became turbid again after 7th bucket. Uncapped well so applied new latex glove.
TH86-5	13-Sep-2012	9:35	9:00	27.550	8.755	18.795	155	150	pump & assist	5.99	844	5.8	High sediment load, black as ink, did not clear up whatsoever. Blind duplicate collected here - BD-6
Mill Area													
SRK08-P10A	10-Sep-2012	15:30	14:15	13.800	9.530	4.270	68	45	pump & assist	6.52	3627	2.8	Poor yield, first bucket very dirty. Let recover before sampling. Turbid sample, did filter some.
SRK08-P11A	10-Sep-2012	17:35	17:00	12.400	0.690	11.710	112	105	pump	7.31	761	2.4	First purge was silver grey but milky after that.
SRK08-P11B	10-Sep-2012	18:00	17:03	6.690	0.895	5.795	77	75	pump	7.07	1077	3.4	Clear.
Faro Dumps													
SRK08-P9	13-Sep-2012	11:00	10:40	6.135	4.281	1.854	53	8.5	manual	6.58	2041	3.7	Casing still broken, some debris in first bucket, dry at 8.5 L, allowed to recover then sampled. Did not filter or preserve dissolved metals sample.
P96-7	12-Sep-2012	12:30	12:00	9.888	3.895	5.993	78	60	pump & assist	7.42	3358	3.0	Turbid water, light brown in colour. Concrete is elevated.
Northeast Dumps													
BH13B	12-Sep-2012	15:00	14:40	4.480	2.890	1.590	52	0	manual	7.37	1289	2.7	Nearly dry, retrieved about 1 L from tubing to use for sample. Muddy water and dissolved metals sample not filtered or preserved.
BH14A	12-Sep-2012	13:50	13:35	6.435	3.370	3.065	60	12	pump assist	6.57	3730	4.7	Fresh grizzly tracks. Poor yield.
BH14B	12-Sep-2012	14:05	13:35	10.100	4.035	6.065	78	16	pump assist	7.01	3583	4.1	Dry at 16L.
Zone 2 Outwash													
BH5	12-Sep-2012	15:00	13:49	7.305	2.296	5.009	72	75	manual	5.12	555	2.8	No casing, no cap, put glove on pipe end, very dirty and thick sample. Did not filter or preserve dissolved metals sample. Sandhill cranes flying around.
BH6	12-Sep-2012	14:30	13:35	6.416	3.397	3.019	60	60	manual	5.82	7.34	2.8	Turbid throughout and did not filter or preserved the dissolved metals sample.
BH8	13-Sep-2012	12:00	17:00 on Sept 12, 2012	20.623	15.627	4.996	72	12	manual	4.30	3660	6.3	Old tubing with foot valve discarded at site. Poor yield, turbid, light brown. Dry and 11L, dry at 1L, then dry. Let recover overnight. Did not filter or preserve dissolved metals sample. Large flocks of sandhill cranes overhead
BH10A	12-Sep-2012	17:30	16:45	34.100	7.442	26.658	66	45	pump & assist	5.84	790	5.3	Small diameter tubing so had to use mini dipper. Very slow purging. Clear water. Blind Duplicate collected here BD-9.
BH10B	12-Sep-2012	18:15	16:55	52.900	7.380	45.520	83	16	pump & assist	5.72	1051	4.9	Used mini dipper. Extremely slow purging.

TABLE 2, APPENDIX B

INSITU DATA FOR CONVENTIONAL WELLS, FARO MINE COMPLEX, SEPTEMBER 2012

Monitor ID	Date Sampled	Time Sampled	Time Water Level	TotalDepth (m TOC)	DTW (m) frm (TOC)	Height of Water (m)	Calculated Purge Volume (L)	Actual Amount Purged (L)	Collection Method	pH	Cond. (µS/cm)	Temp (°C)	Comments
P05-04	12-Sep-2012	14:00	13:20	7.057	3.145	3.912	65	75	manual (ran out of gas)	5.50	458	2.7	Turbid water throughout, light brown in colour.
SRK08-P12A	12-Sep-2012	15:35	15:10	12.790	2.090	10.700	106	105	pump	5.90	1180	2.0	Mostly clear.
SRK08-P12B	12-Sep-2012	16:00	15:12	8.440	2.095	6.345	80	80	pump	5.81	787	1.7	High sediment load in first bucket and gradually cleared up at the end of the purge.
P96-6	12-Sep-2012	16:20	15:30	17.634	12.183	5.451	75	75	pump & assist	5.74	2041	3.6	Walk in from SRK08-P13A and B. Clear water. Tubing well down in well but managed to retrieve it. Sandhill cranes overhead.
S Cluster Area													
S1A	12-Sep-2012	9:50	9:32	13.107	5.268	7.839	89	90	pump	5.75	356	2.8	Clear, good yield. Standing pipe broken at joint.
S1B	12-Sep-2012		9:36	5.120	4.957	0.163							insufficient volume to sample
S2A	11-Sep-2012	16:00	15:45	12.640	5.705	6.935	84	20	pump & assist	6.18	1202	3.4	First bucket turbid - coffee coloured with light cream, remained turbid, dry @ 15L.
S2B	11-Sep-2012	16:40	16:00	7.060	4.902	2.158	55	4.5	manual	6.23	3762	3.0	Dry at 4.5L. Orangey-brown colour, did not filter or preserve dissolved metals sample.
SRK05-SP-1A	12-Sep-2012	10:00	9:25	19.990	7.000	12.990	120	120	pump - assist	5.83	2023	2.0	First bucket turbid - grey, then cleared up. Reduced suite of parameters.
SRK05-SP-1B	12-Sep-2012	10:30	10:07	13.100	7.200	5.900	77	60	pump - assist	6.36	1165	2.3	First bucket turbid - brown/light orange, then clear. Reduced suite of parameters.
SRK05-SP-2	12-Sep-2012	9:15	8:51	11.550	1.990	9.560	99	105	pump	6.46	382	1.3	Good yield, initially turbid but clear by 3rd bucket, reduced suite of parameters.
SRK05-SP-3A	11-Sep-2012	15:15	13:45	23.790	4.879	18.911	155	165	pump - assist	6.06	1627	2.2	First bucket slightly cloudy, 2nd bucket turbid, grey, then cleared up. Duplicate BD-4. Reduced suite of parameters.
SRK05-SP-3B	11-Sep-2012	15:35	13:50	13.113	3.938	9.175	97	90	pump - assist	5.93	1205	1.6	Metal shavings in sample from unknown source. Reduced suite of parameters.
SRK05-SP-4A	11-Sep-2012	14:09	13:37	22.730	4.630	18.100	151	150	pump	6.14	1141	2.4	PVC pipe broken at ground level, pulled up tubing. Stand pipe broken off at ground level. 1st bucket slightly cloudy and clear by 3rd bucket. Duplicate collected : BD-3.
SRK05-SP-4B	11-Sep-2012		12:00										Appears to be dry. Stand pipe broken off at ground level.
SRK05-SP-5	11-Sep-2012	9:45	9:15	13.930	7.562	6.368	80	75	pump/ assist	6.10	>4,000	3.7	Casing broken at ground level, 1st bucket high sediment load - chocolate brown, gradually cleared up to fairly clear water.
SRK05-SP-6	12-Sep-2012		11:30	11.800									Dry well.
SRK08-SP7A	12-Sep-2012	9:10	8:53	17.658	2.957	14.701	130	120	pump	5.47	952	2.8	First bucket muddy then cleared up. Good yield.
SRK08-SP7B	12-Sep-2012	9:20	8:50	8.615	2.951	5.664	76	75	pump	5.94	203	3.6	Good yield, clear water.
SRK08-SP8A	12-Sep-2012	10:40	10:10	8.014	1.587	6.427	81	90	pump	5.58	2992	1.3	Needs tubing and foot valve, removed tubing from 8B to collect sample and returned, clear water.
SRK08-SP8B	12-Sep-2012	10:30	10:13	6.978	1.848	5.130	73	80	pump	5.43	2904	1.2	Turbid, milky and cloudy. Did not filter or preserve dissolved metals sample.
SRK08-SBR1	12-Sep-2012		11:10										Blocked at 1.22m.

TABLE 2, APPENDIX B

INSITU DATA FOR CONVENTIONAL WELLS, FARO MINE COMPLEX, SEPTEMBER 2012

Monitor ID	Date Sampled	Time Sampled	Time Water Level	TotalDepth (m TOC)	DTW (m) frm (TOC)	Height of Water (m)	Calculated Purge Volume (L)	Actual Amount Purged (L)	Collection Method	pH	Cond. (µS/cm)	Temp (°C)	Comments
SRK08-SBR2	12-Sep-2012	11:50	11:14	18.806	6.077	12.729	118	120	pump	5.72	2025	4.3	Well at 45 degree angle, initially turbid but cleared on 2nd bucket.
SRK08-SBR3	12-Sep-2012	11:20	10:50	13.230	11.610	1.620	52	25	Pump - assist	6.92	3930	1.5	First bucket slightly turbid and cleared by 2nd bucket.
SRK08-SBR4	11-Sep-2012	17:25	16:52	21.560	8.180	13.380	122	120	Pump - assist	6.46	4310	2.7	First bucket turbid - orange coloured, 2nd bucket relatively clear.
P09-SIS1	11-Sep-2012	10:50	10:10	6.655	4.760	1.895	53	4.5	Pump - assist	6.79	6100	4.3	Dry after 4.5L, let recover then sampled. Very turbid, did not filter or preserve dissolved metals sample.
P09-SIS2	11-Sep-2012	11:05	10:35	6.330	3.84	2.490	57	60	pump	6.11	>4000	5.6	Pulled data logger at 10:30. 1st bucket chocolate brown colour, clearing up by 3rd bucket, good yield. Replaced data logger at 11:16.
P09-SIS3	11-Sep-2012	11:47	11:27	4.620	3.495	1.125	49	42	Pump - assist	6.09	>4000	5.5	Pulled data logger at 11:25, replaced at 11:55. 1st bucket fairly turbid but cleared up by 3rd bucket
P09-SIS4	11-Sep-2012	12:33	12:20	4.430	3.740	0.690	46	1.5	manual	6.61	5820	5.0	Removed data logger at 12:15, replaced at 12:55. Turbid water, enough for sample only after recovery. Did not filter or preserve for dissolved metals.
P09-SIS5	11-Sep-2012	14:15	13:25	4.600	3.365	1.235	49	3	Pump - assist	6.82	6100	5.6	Removed data logger at 13:20, replaced at 14:20. Very turbid. Let recover after 3L but only managed to retrieve approx 250 mL, did not filter or preserve for dissolved metals.
Grum / Vangorda													
BH05-9B-R	12-Sep-2012	18:00	17:15	19.670	0.490	19.180	157	175	hydrolift	8.35	628	3.8	No longer artesian, clear water, Blind duplicate - BD-1
P96-9A	13-Sep-2012	11:23	11:17	9.390	5.810	3.580	63	75	pump	6.87	3296	7.5	Water clear.
P2001-02A	12-Sep-2012	10:30	9:30	14.050	4.231	9.819	101	60	hydrolift	7.35	2235	3.1	Turbid, dark grey, low yield and decreased even more near the end. Did not filter or preserve dissolved metals sample as so muddy.
P2001-02B	12-Sep-2012	11:30	10:40	27.400	6.791	20.609	166	50	hydrolift	7.24	2090	2.9	Turbid - grey/silver, very low yield, Did not filter or preserve.
P2001-03	11-Sep-2012	16:15	15:00	61.800	37.900	61.800	413	195	Hydrolift and Honda pump	7.67	964	4.5	Dipper to big to fit past 1" tube therefore no DTW, approx same judging by time to fill tube, turbid - silver/grey, did not filter or preserve.
SRK05-05C	12-Sep-2012	14:20	17:30 on Sept 11	3.850	3.000	3.000	60	8	manual	8.08	562	4.9	Dirty water - brown, purge 8L, dry, left overnight and then sampled, did not filter or preserve.
SRK05-07	12-Sep-2012	15:30	15:00	6.500	5.630	0.870	47	2.5	manual	7.38	3253	4.0	Dry at 2L, obtain sample from tube, very dirty water so did not filter or preserved dissolved metals sample.
SRK05-08	12-Sep-2012	14:30	Sept 11, 18:00	8.500	5.800	2.700	58	20	pump & assist	7.14	2374	5.1	Dry at 20L, left over night to recover, sample grey/silver.
SRK05-9	12-Sep-2012	14:30	14:00	3.960	2.200	1.760	53	4	manual	7.44	2346	7.0	Dry at 2L, grey/brown, recharge then sample, high turbidity, took 8 filters.
V34	12-Sep-2012	8:30	16:30 on Sept 11	12.820	5.920	6.900	83	10	manual	7.30	1961	2.9	Dry at 10L, very turbid - grey, left over night to recover

TABLE 2, APPENDIX B

INSITU DATA FOR CONVENTIOAL WELLS, FARO MINE COMPLEX, SEPTEMBER 2012

Monitor ID	Date Sampled	Time Sampled	Time Water Level	TotalDepth (m TOC)	DTW (m) frm (TOC)	Height of Water (m)	Calculated Purge Volume (L)	Actual Amount Purged (L)	Collection Method	pH	Cond. (µS/cm)	Temp (°C)	Comments
V35	12-Sep-2012	9:00	16:45 on Sept 11	16.020	7.380	8.640	94	13	manual	7.28	2345	2.5	Dry at 13L, clear, left over night to recover
V36	11-Sep-2012	16:15	15:30	11.900	9.021	2.879	59	60	manual	7.18	2653	3.1	Initial 15L silver/grey then cleared up.
V37	12-Sep-2012	11:30	17:00 on Sept 11	14.510	8.61	5.900	77	15	manual	7.35	1076	2.2	Dry at 13L, left overnight, low turbidity.
P09-GS1A	13-Sep-2012	10:00		30.400	2.145	28.255	212	175	hydrolift	6.88	1500	7.9	Installed new foot valve, clear water.
P09-GS1B	13-Sep-2012	9:00	9:15	7.378	2.180	5.198	73	35	pump	7.10	1491	4.6	Dissolved metals sample not filtered or preserved.
P09-LCD1	13-Sep-2012	12:15	12:05 on Sept 12	7.200	3.895	3.305	62	45	manual	7.74	880	2.8	Turbid, silver/grey, yield is okay, let recharge overnight, did not filter or preserve.
P09-LCD4	13-Sep-2012	12:10	12:00 on Sept 12	12.210	5.25	6.960	84	15	manual	7.77	970	2.7	Dry at 15L, let recharge overnight. Turbid sample, grey, Did not filter or preserve.
P09-LCD6	13-Sep-2012	12:04	11:40 on Sept 12	7.960	5.64	2.320	56	50	manual	7.64	938	3.2	Good yield, turbid, grey/brown. Let recharge overnight.
P09-VC1	11-Sep-2012	14:30	11:30	68.700	3.791	64.909	431	400	pump	8.25	360	5.4	Good yeild, clear.
P09-VC2	11-Sep-2012	12:00	10:30	21.920	1.741	20.179	163	145	hydrolift	7.72	410	3.0	Foot valve plugged - replaced. Initially turbid, grey, clear by 30L. Blind duplicate; BD-2.
SRK08-P14	13-Sep-2012	13:39	13:33	9.870	6.906	2.964	60	60	pump	7.34	1314	2.7	Very silty purge - tan coloured. Cleared up after 15L and remained clear. Blind duplicate: BD-5.
SRK08-P15	12-Sep-2012	16:40	16:20	8.260	3.24	5.020	72	75	manual	7.32	2038	2.2	High turbidity, milky. Well in good condition but still needs label.
SRK08-P16	12-Sep-2012		15:30	6.950									Dry at 6.95m, mud bottom, tube sticking up.

LEGEND FOR COLLECTION METHOD:

pump = Honda centrifugal water pump

Hydrolift = Wattera Hydrolift II

Hydrolift and pump = Hydrolift plus Honda pump together for more efficient pumping

pump and assist = Honda pump and manually pumping as the pump alone was not enough to bring up the water, typically when water level is deeper than 7m.

manual = using manpower only to pump the well

NOTE: 1 BUCKET = 15 L

APPENDIX B, TABLE 3

INSITU DATA FOR MULTI WELLS, FARO MINE COMPLEX, SEPTEMBER 2012

Well #	Date Sampled	Time Sampled	Samplers	Depth to Water (m)	Time of Water Level	Total Depth (m)	Purge Volume (L)	Development Method	pH	Conductivity (µS/cm)	Temp. (°C)	Comments
P03-01 Second Impoundment												
P03-01-02	9/11/2012	16:05	SW, BB	5.96	15:00	39.521	4	Peristaltic pump	6.72	412	4.4	Quite clear, good yield, blind duplicated collected here: BD-7.
P03-01-08	9/11/2012	16:20	SW, BB	5.742	15:12	10.038	0.5	Peristaltic pump	5.78	>4000	4.9	Turbid, grey, did not filter or preserve for dissolved metals altho had cleared up a bit when sampling.
P03-03 Second Impoundment												
P03-03-02	9/11/2012	17:05	SW, BB	7.161	14:38	34.246	3	Peristaltic pump	4.06	1994	4.4	Fairly clear, good yield.
P03-03-04	9/11/2012	17:20	SW, BB	7.183	14:46	23.489	2	Peristaltic pump	4.97	1429	4.3	Fairly clear, good yield.
P03-03-09	9/11/2012	17:45	SW, BB	6.952	14:51	10.145	0.4	Peristaltic pump	2.32	>4000	6.1	Very cloudy, milky green colour, low yield, did not filter or preserve for dissolved metals sample.
P03-05 Second Impoundment												
P03-05-04	9/11/2012	12:20	SW, BB	2.81	11:30	24.562	2.7	Peristaltic pump	5.93	1358	3.9	Slow yield, quite clear.
P03-06 Second Impoundment												
P03-06-01	9/11/2012	10:00	SW, BB	12.049	9:05	25.598	1.7	pp/assist	4.48	>4000	3.8	Fairly clear.
P03-06-02	9/11/2012	10:30	SW, BB	12.078	9:12	23.692	1.4	pp/assist	4.55	>4000	3.8	Somewhat turbid, took 3 filters, yellowish colour.
P03-06-06	9/11/2012	11:00	SW, BB	12.236	9:20	13.641	0.2	pp/assist	5.57	2741	5.7	Very dirty, hard to get sample, black, collected 0.5 L for general. Did not filter or preserve sample for dissolved metals.
P03-06-07	9/11/2012		SW, BB		9:22	11.803						Dry at 11.803m.
P03-09 Downgradient of Cross Valley Dam												
P03-06-06	9/10/2012	12:30	SW, BB	3.972	12:04	19.807	2	Peristaltic pump	7.00	1787	4.5	Well #s 2, 5 and 8 already have tubing in them but size 3/8". Purge was turbid with floating organics - dead ant, grey, but clear sample.
P03-09-09	9/10/2012	12:45	SW, BB	3.797	12:06	8.385	0.6	Peristaltic pump	7.03	1853	3.7	Fairly clear, pretty good yield.
P05-01 Cross Valley Dam												
P05-01-03	9/10/2012	11:45	SW, BB	1.732	10:28	17.70	2	Peristaltic pump	6.65	2502	4.5	Good yield initially, turbid, grey, odour, did not filter or preserve for dissolved metals sample.
P05-01-05	9/10/2012	11:20	SW, BB	2.091	10:30	6.557	0.5	Peristaltic pump	6.70	2864	5.6	Pretty clear.

TABLE 4 INORGANICS, ANIONS AND PHYSICAL PROPERTIES, FARO GROUNDWATER, SEPTEMBER 2012									
Well Number	Date Sampled	Time Sampled	Physical Tests			Anions and Nutrients			
			Conductivity	pH	Total Suspended Solids	Acidity (as CaCO3)	Alkalinity, Total	Chloride (Cl)	Sulfate (SO4)
P01-01A	10-SEP-12	09:25	1930	7.37	2.6	19.2	350	<10	1000
P01-01B	10-SEP-12	10:00	1330	7.75	1.0	6.5	276	<5.0	600
P01-011	10-SEP-12	10:34	3140	7.03	57.0	49.8	476	<10	2030
P09-C2	10-SEP-12	11:30	2610	8.35	17.4	<1.0	1220	24	38
P09-C3	10-SEP-12	13:00	1380	6.97	4.8	34.3	803	7.5	70.6
X24D-96	10-SEP-12	11:52	3650	8.11	2.6	41.2	454	<10	2550
X25A-96	10-SEP-12	14:12	1490	8.35	2.0	<1.0	298	<5.0	681
X25B-96	10-SEP-12	14:20	1460	7.73	1.6	15.3	280	<5.0	663
P01-03	10-SEP-12	13:00	3580	7.16	65.0	174	236	<10	2600
P01-04A	10-SEP-12	14:50	994	7.20	<1.0	11.5	569	6.9	42.6
P01-04B	10-SEP-12	15:30	2170	7.26	4.8	4.6	346	<10	1230
P09-ETA-1	10-SEP-12	15:00	421	8.43	121	<1.0	192	<0.50	31.9
P09-ETA-2	10-SEP-12	14:45	5570	6.59	33.4	599	208	32	5260
P96-8A	10-SEP-12	16:30	8240	5.89	10.8	1040	120	<25	8820
P96-8B	10-SEP-12	16:00	8000	3.70	8.2	1720	<10	<25	8600
SRK04-3A	10-SEP-12	14:45	8210	5.34	-	-	84.1	-	8730
SRK05-ETA-BR1	10-SEP-12	16:50	7610	5.48	-	-	72.1	-	7810
SRK05-ETA-BR2	10-SEP-12	15:45	2840	6.80	-	-	160	-	2060
SRK08-ETA-10A	10-SEP-12	14:15	3520	7.01	238	61.3	547	120	1860
SRK08-ETA-11A	10-SEP-12	17:35	680	8.51	59.0	<1.0	154	<0.50	231
SRK08-ETA-11B	10-SEP-12	18:00	1060	8.36	54.2	<1.0	152	<5.0	515
P03-09-6	10-SEP-12	00:30	1700	7.40	10.0	21.1	312	<5.0	838
P03-09-9	10-SEP-12	00:45	1840	7.31	65.6	28.7	312	<5.0	915
P05-01-03	10-SEP-12	11:45	2980	6.87	918	71.8	416	<10	1940
P05-01-05	10-SEP-12	11:20	2670	7.52	11.6	13.6	362	<10	1720
P03-01-02	11-SEP-12	16:05	400	7.71	26.4	6.7	199	<0.50	23.6
P03-01-08	11-SEP-12	16:20	12300	3.55	11.0	7570	<2.0	<25	13000
P03-03-02	11-SEP-12	17:05	1930	4.45	16.4	1020	<2.0	<10	1430
P03-03-04	11-SEP-12	17:20	1450	6.50	8.8	418	16.8	<5.0	940
P03-03-09	11-SEP-12	17:45	23700	2.98	572	34600	<2.0	<50	42100
P03-05-04	11-SEP-12	12:20	1300	7.56	2.0	29.8	120	<5.0	739
P03-06-01	11-SEP-12	10:00	4140	6.02	65.0	1220	8.2	<10	3800
P03-06-02	11-SEP-12	10:30	4320	4.85	104	1330	13.0	<10	3870
P03-06-06	11-SEP-12	11:00	6720	3.76	2440	2170	<2.0	<25	7020
S1A	12-SEP-12	09:50	348	7.38	1.6	8.3	62.5	<0.50	120
S2A	11-SEP-12	16:00	1260	6.75	445	183	334	<5.0	493
S2B	14-SEP-12	12:00	6570	6.94	451	28.6	156	<25	6850
SRK05-SP-1A	12-SEP-12	10:00	1880	6.99	-	-	265	-	1140
SRK05-SP-1B	12-SEP-12	10:30	1080	7.48	-	-	388	-	318
SRK05-SP-2	12-SEP-12	09:15	362	7.87	-	-	148	-	54.1
SRK05-SP-3A	11-SEP-12	15:15	1410	6.06	-	-	314	-	655
SRK05-SP-3B	11-SEP-12	15:35	1120	7.28	-	-	274	-	446
SRK05-SP-4A	11-SEP-12	14:09	1060	7.30	2.0	125	300	<5.0	377
SRK05-SP-5	11-SEP-12	09:45	5640	7.27	64.7	914	205	<25	5910
SRK08-SP7A	12-SEP-12	09:10	920	7.30	5.8	27.7	116	<2.5	429
SRK08-SP7B	12-SEP-12	09:20	207	7.91	12.5	12.5	76.9	<0.50	29.0
SRK08-SP8A	12-SEP-12	10:40	2630	7.24	7.4	142	289	<10	1900
SRK08-SP8B	12-SEP-12	10:30	2730	7.28	202	163	270	<10	2110
SRK08-SBR2	12-SEP-12	11:50	1790	7.43	4.6	107	336	<10	1040
SRK08-SBR3	12-SEP-12	11:20	3310	7.82	75.8	28.5	28.4	<10	2570
SRK08-SBR4	11-SEP-12	17:25	3320	7.43	19.6	219	165	<10	3070
P09-S1S1	11-SEP-12	10:50	5420	7.31	1500	464	268	<25	6330
P09-S1S2	11-SEP-12	11:05	5920	7.14	47.0	838	156	<25	7650
P09-S1S3	11-SEP-12	11:47	5580	7.14	329	880	131	<25	7180
P09-S1S4	11-SEP-12	12:33	4170	7.49	555	176	373	<25	4320
P09-S1S5	11-SEP-12	16:00	-	-	-	-	-	-	-
P96-9BR	11-SEP-12	18:00	575	8.41	72.0	<1.0	142	1.28	168
BH-5	12-SEP-12	15:00	520	7.12	109	169	126	<0.50	164
BH-6	12-SEP-12	14:30	658	7.17	159	59.2	86.3	<2.5	303
BH-8	13-SEP-12	12:00	3280	3.96	93.0	1980	<2.0	<10	3300
BH-10A	12-SEP-12	16:45	734	6.98	22.8	31.7	226	<5.0	202
BH-10B	12-SEP-12	17:30	965	7.10	22.4	61.1	402	<5.0	214
P05-04	12-SEP-12	14:00	444	8.10	33.8	13.5	109	<0.50	134
SRK08-P12A	12-SEP-12	15:35	1050	7.13	551	215	528	<5.0	132
SRK08-P12B	12-SEP-12	16:00	660	7.79	535	25.0	332	<2.5	85.5
P96-6	12-SEP-12	16:20	1770	8.02	21.0	40.4	297	<10	1110
P96-7	12-SEP-12	12:30	2780	8.33	47.4	40.0	204	<10	2390
BH13B	12-SEP-12	15:00	1200	7.48	-	-	91.3	-	649
BH14A	12-SEP-12	13:50	3160	8.11	13.8	13.0	456	14	2510
BH14B	12-SEP-12	14:05	2840	8.02	227	20.5	436	13	2100
SRK08-P9	13-SEP-12	11:00	2050	8.09	71.4	8.0	242	<10	1160
TH86-2	13-SEP-12	10:00	308	7.85	-	-	135	-	32.9
TH86-5	13-SEP-12	09:35	819	7.37	-	-	474	-	27.3
P2001-2A	12-SEP-12	10:30	2090	8.00	762	16.1	562	<10	784
P2001-2B	12-SEP-12	11:30	1530	8.00	296	14.8	475	<5.0	723
P2001-3	11-SEP-12	16:15	807	8.11	482	5.9	459	<5.0	103
P96-9A	13-SEP-12	11:23	2670	7.91	6.0	32.0	626	<10	1980
SRK05-05C	12-SEP-12	14:20	403	8.09	13200	2.6	141	<0.50	95.5
SRK05-07	12-SEP-12	15:30	3220	7.84	3930	36.2	653	<10	1950
SRK05-08	12-SEP-12	14:30	2410	7.93	529	20.9	548	<10	1230
SRK05-9	12-SEP-12	14:30	2230	8.05	994	11.4	406	<10	1210
V34	12-SEP-12	08:30	1500	8.00	185	21.8	857	<5.0	454
V35	12-SEP-12	09:00	2120	8.05	12.0	12.4	447	<10	1040
V36	11-SEP-12	16:15	2610	7.96	29.6	20.0	523	<10	1460
V37	12-SEP-12	11:00	1080	8.31	290	<1.0	465	<5.0	230
SRK08-P14	13-SEP-12	13:39	1270	7.97	183	5.3	234	<5.0	558
SRK08-P15	13-SEP-12	16:40	1960	7.91	1030	10.5	367	<10	970
P09-GS1A	13-SEP-12	09:00	1470	7.88	2.8	19.5	283	<5.0	696
P09-GS1B	13-SEP-12	10:00	1460	8.03	263	8.4	252	<5.0	699
P09-LCD 1	13-SEP-12	12:15	860	8.10	3150	5.9	302	<5.0	228
P09-LCD 4	13-SEP-12	12:10	910	8.24	448	3.6	348	<5.0	193
P09-LCD 6	13-SEP-12	12:04	889	8.16	6400	4.3	274	<0.50	264
P09-VC1	11-SEP-12	14:30	352	8.21	5.4	1.6	124	<0.50	68.7
P09-VC2	11-SEP-12	12:00	395	8.05	15.5	2.7	178	<0.50	44.6
BD1			573	8.52	76.0	<1.0	146	1.29	169
BD-2			386	8.33	10.8	<1.0	175	<0.50	45.4
BD-3			1040	7.38	32.2	171	286	<5.0	401
BD-4			1380	7.25	4.6	62.5	313	<5.0	630
BD-5			1270	8.07	29.4	5.8	233	<5.0	565
BD-6			809	7.48	-	-	467	-	25.6
BD-7			408	7.98	25.8	20.2	204	<0.50	23.6
BD-8			992	7.18	8.8	43.1	563	<5.0	40.9
BD-9			725	8.33	12.0	93.8	210	<5.0	213
FB			<2.0	6.12	<1.0	1.8	<1.5	<0.50	<0.50
TRAVEL BLANK			<2.0	5.88	<1.0	1.9	<1.5	<0.50	<0.50

TABLE 5, APPENDIX B

DISSOLVED METALS FOR FARO GROUNDWATER, SEPTEMBER 2012

WELL NUMBER	P01-01A	P01-01B	P01-011	P09-C2	P09-C3	X24D-96	X25A-96	X25B-96	P01-03	P01-04A	P01-04B
Date Sampled	10-SEP-12	10-SEP-12	10-SEP-12	10-SEP-12	10-SEP-12	10-SEP-12	10-SEP-12	10-SEP-12	10-SEP-12	10-SEP-12	10-SEP-12
Time Sampled	09:25	10:00	10:34	11:30	13:00	11:52	14:12	14:20	13:00	14:50	15:30
Aluminum (Al)-Dissolved	<0.0020	<0.0020	<0.0050	0.0182	0.0036	<0.010	<0.0020	<0.0020	<0.010	0.0022	<0.0050
Antimony (Sb)-Dissolved	<0.00020	<0.00020	<0.00050	<0.00020	<0.00010	<0.0010	<0.00020	<0.00020	<0.0010	<0.00010	<0.00050
Arsenic (As)-Dissolved	0.00021	0.00221	0.0429	<0.00020	0.00126	<0.0010	<0.00020	0.00070	<0.0010	0.00016	0.00156
Barium (Ba)-Dissolved	0.0461	0.0528	0.0294	0.699	0.431	0.0186	0.0544	0.0301	0.0124	0.383	0.0187
Beryllium (Be)-Dissolved	<0.00020	<0.00020	<0.00050	0.00276	0.00049	<0.0010	<0.00020	<0.00020	<0.0010	0.00021	<0.00050
Bismuth (Bi)-Dissolved	<0.0010	<0.0010	<0.0025	<0.0010	<0.00050	<0.0050	<0.0010	<0.0010	<0.0050	<0.00050	<0.0025
Boron (B)-Dissolved	<0.020	<0.020	<0.050	0.100	0.029	<0.10	<0.020	<0.020	<0.10	0.020	<0.050
Cadmium (Cd)-Dissolved	0.000753	<0.000020	<0.000050	<0.000020	<0.000010	0.00349	0.000165	0.000027	0.00205	<0.000010	<0.000050
Calcium (Ca)-Dissolved	388	248	659	212	152	763	275	287	747	126	458
Chromium (Cr)-Dissolved	<0.00020	<0.00020	<0.00050	0.00025	0.00012	<0.0010	<0.00020	<0.00020	<0.0010	<0.00010	<0.00050
Cobalt (Co)-Dissolved	0.00206	<0.00020	0.00853	<0.00020	<0.00010	0.287	0.00640	0.00022	0.178	0.00012	0.00088
Copper (Cu)-Dissolved	<0.00040	<0.00040	<0.0010	<0.00040	<0.00020	0.0030	0.00135	<0.00040	<0.0020	<0.00020	<0.0010
Iron (Fe)-Dissolved	<0.020	0.770	60.1	3.38	3.09	<0.10	<0.020	1.22	70.9	0.569	11.5
Lead (Pb)-Dissolved	<0.00010	<0.00010	<0.00025	<0.00010	<0.000050	<0.00050	<0.00010	<0.00010	<0.00050	0.000146	<0.00025
Lithium (Li)-Dissolved	0.0109	0.0115	0.0161	0.921	0.219	0.0297	0.0026	0.0093	0.0242	0.145	0.0187
Magnesium (Mg)-Dissolved	83.1	49.1	138	106	67.2	183	66.6	44.5	177	40.3	75.3
Manganese (Mn)-Dissolved	7.96	0.173	34.8	0.133	0.189	97.0	12.2	0.286	85.1	0.238	6.07
Molybdenum (Mo)-Dissolved	0.00093	0.00106	0.00100	<0.00010	0.000330	0.00094	0.00155	0.00042	0.00080	<0.000050	0.00047
Nickel (Ni)-Dissolved	0.0108	<0.0010	0.0166	<0.0010	<0.00050	0.348	0.0073	<0.0010	0.0575	<0.00050	<0.0025
Phosphorus (P)-Dissolved	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Potassium (K)-Dissolved	6.50	4.18	7.93	11.4	4.60	7.36	4.69	3.78	7.38	3.03	5.04
Selenium (Se)-Dissolved	<0.00020	<0.00020	<0.00050	<0.00020	0.00022	<0.0010	<0.00020	<0.00020	<0.0010	0.00030	<0.00050
Silicon (Si)-Dissolved	7.52	5.50	11.9	9.82	9.09	10.8	8.44	5.66	11.6	7.82	7.37
Silver (Ag)-Dissolved	<0.000020	<0.000020	<0.000050	0.000242	0.000102	<0.00010	<0.000020	<0.000020	<0.00010	0.000066	<0.000050
Sodium (Na)-Dissolved	19.8	23.0	38.3	321	98.2	39.1	21.0	49.0	30.8	57.5	39.1
Strontium (Sr)-Dissolved	1.12	0.946	1.55	5.07	3.79	2.18	0.753	0.610	2.15	1.63	1.23
Thallium (Tl)-Dissolved	<0.000020	<0.000020	<0.000050	<0.000020	<0.000010	0.00023	<0.000020	<0.000020	<0.00010	<0.000010	<0.000050
Tin (Sn)-Dissolved	<0.00020	<0.00020	<0.00050	<0.00020	<0.00010	<0.0010	<0.00020	<0.00020	<0.0010	<0.00010	<0.00050
Titanium (Ti)-Dissolved	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Dissolved	0.0104	0.00881	0.0118	0.000445	0.000836	0.00438	0.0113	0.00767	0.00534	0.000282	0.00586
Vanadium (V)-Dissolved	<0.0020	<0.0020	<0.0050	<0.0020	<0.0010	<0.010	<0.0020	<0.0020	<0.010	<0.0010	<0.0050
Zinc (Zn)-Dissolved	0.0033	0.0023	0.0054	0.0045	<0.0010	0.146	0.0044	<0.0020	0.054	0.0016	<0.0050
Zirconium (Zr)-Dissolved	<0.0016	<0.0016	<0.0040	0.171	0.0730	<0.0080	<0.0016	<0.0016	<0.0080	0.0510	<0.0040

TABLE 5, APPENDIX B

DISSOLVED METALS FOR FARO GROUNDWATER, SEPTEMBER 2012

WELL NUMBER	P09-ETA-1	P09-ETA-2	P96-8A	P96-8B	SRK04-3A	SRK05-ETA BR1	SRK05-ETA BR2	SRK08-ETA 10A	SRK08-ETA 11A	SRK08-ETA 11B	P03-09-6
Date Sampled	10-SEP-12	10-SEP-12	10-SEP-12	10-SEP-12	10-SEP-12	10-SEP-12	10-SEP-12	10-SEP-12	10-SEP-12	10-SEP-12	10-SEP-12
Time Sampled	15:00	14:45	16:30	16:00	14:45	16:50	15:45	14:15	17:35	18:00	00:30
Aluminum (Al)-Dissolved	0.0015	0.036	0.34	9.05	4.96	1.40	0.373	0.0059	0.0018	0.0031	<0.0020
Antimony (Sb)-Dissolved	<0.00010	<0.0020	<0.010	<0.010	<0.15	<0.15	<0.050	<0.00050	<0.00010	<0.00010	<0.00020
Arsenic (As)-Dissolved	0.00017	0.103	<0.010	<0.010	<0.15	<0.15	<0.050	<0.00050	0.00015	0.00020	<0.00020
Barium (Ba)-Dissolved	0.0146	0.0092	0.0202	0.0162	0.0086	0.0135	0.0460	0.0194	0.0663	0.0489	0.0349
Beryllium (Be)-Dissolved	<0.00010	<0.0020	<0.010	<0.010	0.0031	<0.0030	<0.0010	<0.00050	<0.00010	<0.00010	<0.00020
Bismuth (Bi)-Dissolved	<0.00050	<0.010	<0.050	<0.050	<0.15	<0.15	<0.050	<0.0025	<0.00050	<0.00050	<0.0010
Boron (B)-Dissolved	0.014	<0.20	<1.0	<1.0	<0.15	<0.15	<0.050	<0.050	<0.010	<0.010	<0.020
Cadmium (Cd)-Dissolved	<0.000010	<0.00020	0.0807	0.197	0.102	0.119	<0.0010	0.000284	<0.000010	0.000453	0.000205
Calcium (Ca)-Dissolved	69.9	504	464	424	419	437	557	787	152	175	332
Chromium (Cr)-Dissolved	0.00028	<0.0020	<0.010	<0.010	<0.015	<0.015	<0.0050	<0.00050	<0.00010	<0.00010	<0.00020
Cobalt (Co)-Dissolved	0.00020	0.475	1.22	1.88	1.48	1.43	0.0828	0.0113	<0.00010	<0.00010	0.00175
Copper (Cu)-Dissolved	0.00053	<0.0040	<0.020	0.165	<0.030	<0.030	<0.010	0.0016	0.00108	0.00144	<0.00040
Iron (Fe)-Dissolved	0.138	254	126	83.5	947	1380	0.840	<0.050	<0.010	0.080	0.020
Lead (Pb)-Dissolved	0.000212	0.0012	0.0303	0.0669	<0.090	0.198	<0.030	<0.00025	<0.000050	0.000361	<0.00010
Lithium (Li)-Dissolved	0.00060	0.078	0.203	0.242	0.202	0.165	0.022	0.0046	0.00918	0.0106	0.0129
Magnesium (Mg)-Dissolved	11.3	722	1500	1310	961	830	152	91.6	24.9	45.4	65.7
Manganese (Mn)-Dissolved	0.0112	60.4	116	133	115	117	9.31	0.0145	0.000886	0.242	12.1
Molybdenum (Mo)-Dissolved	0.000156	<0.0010	<0.0050	<0.0050	<0.030	<0.030	<0.010	0.00030	0.000267	0.000181	0.00123
Nickel (Ni)-Dissolved	0.00061	0.444	1.24	1.96	1.32	1.25	0.0765	0.0083	0.00102	0.00690	0.0205
Phosphorus (P)-Dissolved	<0.30	<0.60	<0.90	<0.90	<0.15	<0.15	<0.050	<0.30	<0.30	<0.30	<0.30
Potassium (K)-Dissolved	0.262	9.5	18.3	17.7	16.0	13.7	4.27	13.0	2.92	3.41	4.55
Selenium (Se)-Dissolved	<0.00010	<0.0020	<0.010	<0.010	<0.060	<0.060	<0.020	<0.00050	0.00023	<0.00010	<0.00020
Silicon (Si)-Dissolved	9.15	12.4	13.7	19.5	18.3	17.0	8.41	9.40	7.17	6.83	7.71
Silver (Ag)-Dissolved	<0.000010	<0.00020	<0.0010	<0.0010	<0.030	<0.030	<0.010	<0.000050	<0.000010	<0.000010	<0.000020
Sodium (Na)-Dissolved	16.7	46.2	55.4	59.4	55.5	59.6	31.3	130	5.26	7.78	27.5
Strontium (Sr)-Dissolved	0.538	3.81	4.03	3.81	4.08	4.54	6.56	1.49	0.469	0.637	0.782
Thallium (Tl)-Dissolved	<0.000010	<0.00020	<0.0010	0.0011	<0.090	<0.090	<0.030	<0.000050	<0.000010	0.000023	<0.000020
Tin (Sn)-Dissolved	<0.00010	<0.0020	<0.010	<0.010	<0.060	<0.060	<0.020	<0.00050	<0.00010	<0.00010	<0.00020
Titanium (Ti)-Dissolved	<0.010	0.036	0.046	0.047	0.044	0.045	0.026	<0.010	<0.010	<0.010	0.010
Uranium (U)-Dissolved	0.000091	0.00527	0.0027	0.0093	6.3	8.6	1.27	0.0362	0.00153	0.00138	0.00815
Vanadium (V)-Dissolved	<0.0010	<0.020	<0.10	<0.10	<0.090	<0.090	<0.030	<0.0050	<0.0010	<0.0010	<0.0020
Zinc (Zn)-Dissolved	0.0136	173	497	797	688	759	29.1	0.153	0.0042	0.135	0.0050
Zirconium (Zr)-Dissolved	0.00219	<0.016	<0.080	<0.080	-	-	-	<0.0040	<0.00080	<0.00080	<0.0016

TABLE 5, APPENDIX B

DISSOLVED METALS FOR FARO GROUNDWATER, SEPTEMBER 2012

WELL NUMBER	P03-09-9	P05-01-03	P05-01-05	P03-01-02	P03-01-08	P03-03-02	P03-03-04	P03-03-09	P03-05-04	P03-06-01	P03-06-02
Date Sampled	10-SEP-12	10-SEP-12	10-SEP-12	11-SEP-12	11-SEP-12	11-SEP-12	11-SEP-12	11-SEP-12	11-SEP-12	11-SEP-12	11-SEP-12
Time Sampled	00:45	11:45	11:20	16:05	16:20	17:05	17:20	17:45	12:20	10:00	10:30
Aluminum (Al)-Dissolved	<0.0020	<0.0050	<0.0050	0.0019	0.048	1.29	0.0373	0.22	0.0078	0.999	0.746
Antimony (Sb)-Dissolved	<0.00020	<0.00050	<0.00050	<0.00010	<0.0020	<0.0010	<0.00050	<0.010	<0.00020	<0.0050	<0.0050
Arsenic (As)-Dissolved	<0.00020	<0.00050	0.00434	0.00099	<0.0020	<0.0010	0.00304	0.023	<0.00020	<0.0050	<0.0050
Barium (Ba)-Dissolved	0.0299	0.0256	0.0155	0.111	0.0042	0.00705	0.0386	<0.0050	0.0438	0.0151	0.0148
Beryllium (Be)-Dissolved	<0.00020	<0.00050	<0.00050	<0.00010	<0.0020	0.0011	<0.00050	<0.010	<0.00020	<0.0050	<0.0050
Bismuth (Bi)-Dissolved	<0.0010	<0.0025	<0.0025	<0.00050	<0.010	<0.0050	<0.0025	<0.050	<0.0010	<0.025	<0.025
Boron (B)-Dissolved	<0.020	<0.050	<0.050	<0.010	<0.20	<0.10	<0.050	<1.0	<0.020	<0.50	<0.50
Cadmium (Cd)-Dissolved	0.000450	0.000115	0.000268	<0.000010	<0.00020	0.00538	0.00701	0.0136	0.000140	0.0400	0.0334
Calcium (Ca)-Dissolved	352	617	512	69.2	334	64.8	135	427	242	576	606
Chromium (Cr)-Dissolved	<0.00020	<0.00050	<0.00050	<0.00010	<0.0020	<0.0010	<0.00050	<0.010	<0.00020	<0.0050	<0.0050
Cobalt (Co)-Dissolved	0.00476	0.00066	0.0138	0.00180	0.0035	0.0605	0.212	0.014	0.0148	2.45	2.19
Copper (Cu)-Dissolved	<0.00040	<0.0010	<0.0010	<0.00020	0.0060	0.0145	<0.0010	0.157	<0.00040	<0.010	<0.010
Iron (Fe)-Dissolved	0.042	<0.050	24.1	1.13	4320	545	194	18700	2.82	625	694
Lead (Pb)-Dissolved	<0.00010	<0.00025	<0.00025	<0.000050	0.279	0.00157	0.00045	0.0224	<0.00010	0.0115	0.0111
Lithium (Li)-Dissolved	0.0139	0.0330	0.0238	0.00578	0.231	0.0160	0.0423	0.164	0.0129	0.088	0.077
Magnesium (Mg)-Dissolved	69.7	140	132	12.3	487	22.6	34.3	633	43.9	217	212
Manganese (Mn)-Dissolved	16.1	37.0	35.8	0.621	37.4	7.93	38.3	138	25.7	251	235
Molybdenum (Mo)-Dissolved	0.00108	0.00137	0.00079	0.00418	<0.0010	<0.00050	<0.00025	<0.0050	0.00040	<0.0025	<0.0025
Nickel (Ni)-Dissolved	0.0216	0.0026	0.0148	0.00060	<0.010	0.0933	0.218	<0.050	0.0064	3.23	3.02
Phosphorus (P)-Dissolved	<0.30	<0.30	<0.30	<0.30	<1.5	<0.30	<0.30	<9.0	<0.30	<0.60	<0.60
Potassium (K)-Dissolved	4.69	7.66	6.90	2.63	90.2	3.73	3.95	36.4	2.75	6.8	6.6
Selenium (Se)-Dissolved	<0.00020	<0.00050	<0.00050	<0.00010	<0.0020	<0.0010	<0.00050	<0.010	<0.00020	<0.0050	<0.0050
Silicon (Si)-Dissolved	8.02	9.57	9.79	5.45	1.83	15.9	16.1	10.1	9.25	30.3	29.1
Silver (Ag)-Dissolved	<0.000020	<0.000050	<0.000050	<0.000010	<0.00020	<0.00010	0.000229	<0.0010	<0.000020	<0.00050	<0.00050
Sodium (Na)-Dissolved	32.3	37.9	32.8	5.90	640	6.98	14.3	326	13.7	28.6	28.2
Strontium (Sr)-Dissolved	0.781	1.52	1.30	0.289	1.05	0.269	0.439	0.903	0.587	2.11	2.11
Thallium (Tl)-Dissolved	<0.000020	<0.000050	<0.000050	<0.000010	0.00040	0.00012	0.000050	0.0015	<0.000020	<0.00050	<0.00050
Tin (Sn)-Dissolved	<0.00020	<0.00050	<0.00050	<0.00010	<0.0020	<0.0010	<0.00050	<0.010	<0.00020	<0.0050	<0.0050
Titanium (Ti)-Dissolved	0.010	0.020	0.020	<0.010	<0.050	<0.010	0.015	<0.30	0.019	0.039	0.040
Uranium (U)-Dissolved	0.00850	0.00211	0.00464	0.00233	<0.00020	0.00081	0.000135	<0.0010	0.00254	0.00152	0.00133
Vanadium (V)-Dissolved	<0.0020	<0.0050	<0.0050	<0.0010	<0.020	<0.010	<0.0050	<0.10	<0.0020	<0.050	<0.050
Zinc (Zn)-Dissolved	0.0079	0.0124	0.0117	0.0458	134	75.3	11.6	732	0.0074	17.4	18.0
Zirconium (Zr)-Dissolved	<0.0016	<0.0040	<0.0040								

TABLE 5, APPENDIX B

DISSOLVED METALS FOR FARO GROUNDWATER, SEPTEMBER 2012

WELL NUMBER	P03-06-06	S1A	S2A	S2B	SRK05-SP-1A	SRK05-SP-1B	SRK05-SP-2	SRK05-SP-3A	SRK05-SP-3B	SRK05-SP-4A	SRK05-SP-5
Date Sampled	11-SEP-12	12-SEP-12	11-SEP-12	14-SEP-12	12-SEP-12	12-SEP-12	12-SEP-12	11-SEP-12	11-SEP-12	11-SEP-12	11-SEP-12
Time Sampled	11:00	09:50	16:00	12:00	10:00	10:30	09:15	15:15	15:35	14:09	09:45
Aluminum (Al)-Dissolved	0.204	0.0041	0.0143	<0.050	0.116	<0.050	<0.050	<0.050	0.065	0.0343	<0.050
Antimony (Sb)-Dissolved	<0.0050	<0.00010	<0.00010	<0.0050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.00010	<0.0050
Arsenic (As)-Dissolved	<0.0050	0.00011	0.00017	<0.0050	<0.050	<0.050	<0.050	<0.050	<0.050	0.00386	<0.0050
Barium (Ba)-Dissolved	<0.0025	0.0277	0.0183	0.0190	0.0394	0.0551	0.0585	0.0304	0.0285	0.0140	0.0226
Beryllium (Be)-Dissolved	<0.0050	<0.00010	0.00011	<0.0050	0.0026	<0.0010	<0.0010	<0.0010	<0.0010	0.00095	<0.0050
Bismuth (Bi)-Dissolved	<0.025	<0.00050	<0.00050	<0.025	<0.050	<0.050	<0.050	<0.050	<0.050	<0.00050	<0.025
Boron (B)-Dissolved	<0.50	<0.010	<0.010	<0.50	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.50
Cadmium (Cd)-Dissolved	0.103	0.000750	0.000619	0.0346	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.000073	0.162
Calcium (Ca)-Dissolved	266	34.6	195	466	299	169	59.4	225	178	164	417
Chromium (Cr)-Dissolved	<0.0050	<0.00010	<0.00010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.0050
Cobalt (Co)-Dissolved	0.317	0.00307	0.0142	0.721	0.0062	<0.0050	0.0058	0.0050	0.0077	0.0107	0.876
Copper (Cu)-Dissolved	<0.010	0.00067	0.00036	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.00020	<0.010
Iron (Fe)-Dissolved	444	3.14	20.0	7.67	77.1	13.8	0.022	30.4	24.1	26.6	<0.50
Lead (Pb)-Dissolved	3.83	0.000100	0.000079	<0.0025	<0.030	<0.030	<0.030	<0.030	<0.030	0.000178	<0.0025
Lithium (Li)-Dissolved	0.052	0.0334	0.0527	0.146	0.108	0.037	0.012	0.062	0.064	0.0587	0.133
Magnesium (Mg)-Dissolved	778	57.9	75.3	1280	120	62.0	14.0	85.3	62.3	59.3	1110
Manganese (Mn)-Dissolved	87.8	5.27	2.78	131	2.50	0.889	1.44	1.40	1.63	1.47	106
Molybdenum (Mo)-Dissolved	<0.0025	<0.000050	<0.000050	<0.0025	<0.010	<0.010	<0.010	<0.010	<0.010	0.000094	<0.0025
Nickel (Ni)-Dissolved	0.480	0.00847	0.0322	1.90	0.0286	0.0095	0.0054	0.0180	0.0222	0.0252	2.33
Phosphorus (P)-Dissolved	<0.90	<0.30	<0.30	<0.90	<0.050	0.143	<0.050	<0.050	<0.050	<0.30	<0.90
Potassium (K)-Dissolved	10.7	2.72	5.37	13.2	6.56	4.89	1.72	5.15	5.38	4.87	12.6
Selenium (Se)-Dissolved	<0.0050	<0.00010	<0.00010	<0.0050	<0.020	<0.020	<0.020	<0.020	<0.020	<0.00010	<0.0050
Silicon (Si)-Dissolved	7.46	9.16	15.4	11.3	14.9	12.9	7.05	12.5	12.2	15.2	12.6
Silver (Ag)-Dissolved	<0.00050	<0.000010	<0.000010	<0.00050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.000010	<0.00050
Sodium (Na)-Dissolved	49.7	4.53	11.1	42.1	19.4	8.77	5.74	10.2	9.80	10.4	43.0
Strontium (Sr)-Dissolved	0.236	0.236	0.693	1.95	1.39	0.719	0.256	0.886	0.737	0.646	1.74
Thallium (Tl)-Dissolved	0.00295	<0.000010	<0.000010	<0.00050	<0.030	<0.030	<0.030	<0.030	<0.030	<0.000010	<0.00050
Tin (Sn)-Dissolved	<0.0050	<0.00010	<0.00010	<0.0050	<0.020	<0.020	<0.020	<0.020	<0.020	<0.00010	<0.0050
Titanium (Ti)-Dissolved	0.034	<0.010	<0.010	0.045	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.044
Uranium (U)-Dissolved	0.0146	0.000055	0.00264	<0.00050	<0.50	<0.50	<0.50	<0.50	<0.50	0.000859	0.00315
Vanadium (V)-Dissolved	<0.050	<0.0010	<0.0010	<0.050	<0.030	<0.030	<0.030	<0.030	<0.030	<0.0010	<0.050
Zinc (Zn)-Dissolved	538	1.28	2.40	389	2.29	0.315	0.170	1.47	1.26	1.26	368
Zirconium (Zr)-Dissolved											

TABLE 5, APPENDIX B

DISSOLVED METALS FOR FARO GROUNDWATER, SEPTEMBER 2012

WELL NUMBER	SRK08-SP7A	SRK08-SP7B	SRK08-SP8A	SRK08-SP8B	SRK08-SBR2	SRK08-SBR3	SRK08-SBR4	P09-S1S1	P09-S1S2	P09-S1S3	P09-S1S4
Date Sampled	12-SEP-12	12-SEP-12	12-SEP-12	12-SEP-12	12-SEP-12	12-SEP-12	11-SEP-12	11-SEP-12	11-SEP-12	11-SEP-12	11-SEP-12
Time Sampled	09:10	09:20	10:40	10:30	11:50	11:20	17:25	10:50	11:05	11:47	12:33
Aluminum (Al)-Dissolved	0.0415	0.0122	0.0119	<0.0050	0.0282	<0.0050	<0.020	<0.050	0.059	0.050	0.054
Antimony (Sb)-Dissolved	<0.00010	<0.00010	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	<0.0050	<0.0050	<0.0050	<0.0010
Arsenic (As)-Dissolved	0.00477	0.00162	0.00578	<0.00050	0.00115	<0.00050	<0.0020	<0.0050	<0.0050	<0.0050	<0.0010
Barium (Ba)-Dissolved	0.0118	0.0445	0.0208	0.0198	0.0216	0.0206	0.0161	0.0279	0.0217	0.0216	0.0175
Beryllium (Be)-Dissolved	0.00044	<0.00010	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	<0.0050	<0.0050	<0.0050	<0.0010
Bismuth (Bi)-Dissolved	<0.00050	<0.00050	<0.0025	<0.0025	<0.0025	<0.0025	<0.010	<0.025	<0.025	<0.025	<0.0050
Boron (B)-Dissolved	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.20	<0.50	<0.50	<0.50	<0.10
Cadmium (Cd)-Dissolved	0.000029	0.000011	<0.000050	0.000124	0.0148	<0.000050	0.0148	0.0983	0.203	0.219	0.0208
Calcium (Ca)-Dissolved	187	12.3	489	472	241	535	338	522	459	447	436
Chromium (Cr)-Dissolved	<0.00010	0.00012	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	<0.0050	<0.0050	<0.0050	<0.0010
Cobalt (Co)-Dissolved	0.00804	0.00069	0.0115	0.0124	0.0774	0.00247	0.132	0.604	1.14	0.359	0.0047
Copper (Cu)-Dissolved	<0.00020	0.00034	<0.0010	<0.0010	<0.0010	<0.0010	<0.0040	<0.010	<0.010	0.015	0.0051
Iron (Fe)-Dissolved	20.9	1.91	46.5	15.8	18.4	<0.050	1.92	2.17	4.66	0.57	<0.10
Lead (Pb)-Dissolved	0.000287	0.000087	0.00031	<0.00025	0.00090	<0.00025	<0.0010	<0.0025	<0.0025	<0.0025	<0.00050
Lithium (Li)-Dissolved	0.0537	0.0150	0.110	0.0823	0.0556	0.0860	0.108	0.150	0.164	0.172	0.113
Magnesium (Mg)-Dissolved	66.2	17.9	212	266	184	440	545	1390	1470	1390	907
Manganese (Mn)-Dissolved	1.72	1.05	3.73	4.60	11.9	0.0181	33.3	83.6	127	121	9.76
Molybdenum (Mo)-Dissolved	0.000083	0.000209	<0.00025	<0.00025	0.00028	<0.00025	<0.0010	<0.0025	<0.0025	<0.0025	<0.00050
Nickel (Ni)-Dissolved	0.0218	0.00495	0.0297	0.0260	0.241	0.0360	0.905	1.59	2.85	2.98	0.700
Phosphorus (P)-Dissolved	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.90	<0.90	<0.90	<0.60
Potassium (K)-Dissolved	5.33	1.70	5.82	5.88	6.19	8.41	9.7	12.5	15.1	14.7	10.7
Selenium (Se)-Dissolved	<0.00010	<0.00010	<0.00050	<0.00050	<0.00050	0.00054	<0.0020	<0.0050	<0.0050	<0.0050	<0.0010
Silicon (Si)-Dissolved	14.2	7.25	13.9	12.0	14.8	5.69	10.3	11.1	12.3	12.5	11.9
Silver (Ag)-Dissolved	<0.000010	<0.000010	<0.000050	<0.000050	<0.000050	<0.000050	<0.00020	<0.00050	<0.00050	<0.00050	<0.00010
Sodium (Na)-Dissolved	10.5	2.79	23.2	24.2	13.4	67.6	27.7	47.5	54.5	50.9	33.2
Strontium (Sr)-Dissolved	0.665	0.101	2.01	1.75	0.846	1.45	1.36	2.19	1.91	1.87	1.84
Thallium (Tl)-Dissolved	<0.000010	<0.000010	<0.000050	<0.000050	<0.000050	<0.000050	<0.00020	<0.00050	<0.00050	<0.00050	<0.00010
Tin (Sn)-Dissolved	<0.00010	<0.00010	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	<0.0050	<0.0050	<0.0050	<0.0010
Titanium (Ti)-Dissolved	<0.010	<0.010	<0.010	<0.010	<0.010	0.020	<0.010	0.049	0.047	0.047	0.039
Uranium (U)-Dissolved	0.000532	0.000100	0.00280	0.00340	0.00183	0.0377	0.00213	0.00667	0.00338	0.00202	0.0128
Vanadium (V)-Dissolved	<0.0010	<0.0010	<0.0050	<0.0050	<0.0050	<0.0050	<0.020	<0.050	<0.050	<0.050	<0.010
Zinc (Zn)-Dissolved	0.575	1.23	0.677	0.688	34.0	0.0549	113	250	461	460	92.8
Zirconium (Zr)-Dissolved											

TABLE 5, APPENDIX B

DISSOLVED METALS FOR FARO GROUNDWATER, SEPTEMBER 2012

WELL NUMBER	P09-S1S5	P96-9BR	BH-5	BH-6	BH-8	BH-10A	BH-10B	P05-04	SRK08-P12A	SRK08-P12B	P96-6
Date Sampled	11-SEP-12	11-SEP-12	12-SEP-12	12-SEP-12	13-SEP-12	12-SEP-12	12-SEP-12	12-SEP-12	12-SEP-12	12-SEP-12	12-SEP-12
Time Sampled	16:00	18:00	15:00	14:30	12:00	16:45	17:30	14:00	15:35	16:00	16:20
Aluminum (Al)-Dissolved	0.0033	0.0012	0.0320	0.0242	14.5	0.0336	0.0548	0.0465	0.0036	0.0399	<0.0020
Antimony (Sb)-Dissolved	<0.00010	<0.00010	<0.00010	<0.00010	<0.0020	<0.00010	<0.00010	<0.00010	0.00078	<0.00010	<0.00020
Arsenic (As)-Dissolved	0.00014	0.0188	0.00011	<0.00010	<0.0020	0.00539	0.0376	<0.00010	0.00249	<0.00010	<0.00020
Barium (Ba)-Dissolved	0.0256	0.0161	0.0382	0.0384	0.0146	0.0113	0.0123	0.0417	0.0368	0.0769	0.0247
Beryllium (Be)-Dissolved	0.00018	<0.00010	0.00017	<0.00010	0.0106	0.00071	0.00144	<0.00010	0.00031	0.00043	<0.00020
Bismuth (Bi)-Dissolved	<0.00050	<0.00050	<0.00050	<0.00050	<0.010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
Boron (B)-Dissolved	0.013	0.038	<0.010	<0.010	<0.20	<0.010	0.011	<0.010	<0.010	<0.010	<0.020
Cadmium (Cd)-Dissolved	0.000011	<0.000010	0.00168	0.00325	0.578	0.000011	<0.000010	0.00329	0.000026	0.000068	0.000368
Calcium (Ca)-Dissolved	209	51.1	69.5	99.4	285	98.6	145	73.3	197	114	368
Chromium (Cr)-Dissolved	0.00019	<0.00010	<0.00010	<0.00010	<0.0020	0.00012	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020
Cobalt (Co)-Dissolved	0.0158	<0.00010	0.0213	0.0628	0.553	0.0202	0.00949	0.00098	0.00937	0.00279	<0.00020
Copper (Cu)-Dissolved	<0.00020	<0.00020	0.00108	0.00034	2.89	<0.00020	<0.00020	0.00073	<0.00020	0.00027	0.00043
Iron (Fe)-Dissolved	3.94	0.772	7.63	4.23	533	36.4	37.2	<0.010	3.40	4.24	0.080
Lead (Pb)-Dissolved	<0.000050	<0.000050	0.000224	0.000224	0.781	0.000101	0.000105	0.000157	0.000300	0.000353	<0.00010
Lithium (Li)-Dissolved	0.0700	0.0222	0.0244	0.0307	0.090	0.0630	0.114	0.0188	0.103	0.0856	0.0399
Magnesium (Mg)-Dissolved	143	24.1	23.8	26.5	191	34.5	45.5	19.0	55.1	27.6	121
Manganese (Mn)-Dissolved	8.23	0.103	1.73	2.57	12.1	1.05	0.841	0.0235	0.887	0.498	0.00166
Molybdenum (Mo)-Dissolved	0.000310	0.0113	<0.000050	0.000075	<0.0010	0.000062	<0.000050	<0.000050	0.000190	<0.000050	<0.00010
Nickel (Ni)-Dissolved	0.0491	<0.00050	0.0378	0.0626	0.488	0.0260	0.0219	0.0130	0.0154	0.00518	0.0175
Phosphorus (P)-Dissolved	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Potassium (K)-Dissolved	6.05	1.87	2.94	2.56	6.9	4.39	6.36	1.64	3.32	3.22	4.68
Selenium (Se)-Dissolved	<0.00010	<0.00010	<0.00010	<0.00010	<0.0020	<0.00010	<0.00010	0.00039	<0.00010	<0.00010	0.00400
Silicon (Si)-Dissolved	13.6	6.51	10.5	7.83	5.44	14.1	16.8	6.21	11.5	9.35	9.21
Silver (Ag)-Dissolved	<0.000010	<0.000010	<0.000010	<0.000010	<0.00020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020
Sodium (Na)-Dissolved	27.1	50.5	7.39	5.82	29.6	12.1	18.7	4.66	23.5	14.1	6.16
Strontium (Sr)-Dissolved	0.933	1.15	0.317	0.446	1.21	0.493	0.786	0.348	1.09	0.703	0.970
Thallium (Tl)-Dissolved	<0.000010	<0.000010	0.000122	0.000067	0.00645	<0.000010	<0.000010	0.000012	0.000098	0.000051	<0.000020
Tin (Sn)-Dissolved	<0.00010	<0.00010	<0.00010	<0.00010	<0.0020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020
Titanium (Ti)-Dissolved	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.018	<0.010	0.010
Uranium (U)-Dissolved	0.00361	0.000792	0.000116	0.00100	0.0298	0.000064	0.000020	0.000827	0.00809	0.000947	0.0682
Vanadium (V)-Dissolved	<0.0010	<0.0010	<0.0010	<0.0010	<0.020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020
Zinc (Zn)-Dissolved	1.80	<0.0010	4.04	6.97	196	4.91	3.20	2.18	1.06	0.185	0.508
Zirconium (Zr)-Dissolved											

TABLE 5, APPENDIX B

DISSOLVED METALS FOR FARO GROUNDWATER, SEPTEMBER 2012

WELL NUMBER	P96-7	BH13B	BH14A	BH14B	SRK08-P9	TH86-2	TH86-5	P2001-2A	P2001-2B	P2001-3	P96-9A
Date Sampled	12-SEP-12	12-SEP-12	12-SEP-12	12-SEP-12	13-SEP-12	13-SEP-12	13-SEP-12	12-SEP-12	12-SEP-12	11-SEP-12	13-SEP-12
Time Sampled	12:30	15:00	13:50	14:05	11:00	10:00	09:35	10:30	11:30	16:15	11:23
Aluminum (Al)-Dissolved	<0.0050	0.120	<0.0050	0.0058	<0.0050	<0.050	<0.050	0.326	0.0021	0.0173	0.0037
Antimony (Sb)-Dissolved	<0.00050	<0.050	<0.00050	<0.00050	<0.00050	<0.050	<0.050	0.00083	<0.00020	<0.00010	<0.00020
Arsenic (As)-Dissolved	<0.00050	<0.050	<0.00050	<0.00050	<0.00050	<0.050	<0.050	0.00561	0.00052	0.00205	0.00042
Barium (Ba)-Dissolved	0.0119	0.0266	0.0146	0.0153	0.0346	0.0862	0.135	0.0255	0.0170	0.0337	0.0569
Beryllium (Be)-Dissolved	<0.00050	<0.0010	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010	<0.00020	<0.00020	<0.00010	<0.00020
Bismuth (Bi)-Dissolved	<0.0025	<0.050	<0.0025	<0.0025	<0.0025	<0.050	<0.050	<0.0010	<0.0010	<0.00050	<0.0010
Boron (B)-Dissolved	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.020	<0.020	0.026	<0.020
Cadmium (Cd)-Dissolved	<0.000050	<0.0010	0.00114	0.000143	0.000062	<0.0010	<0.0010	0.000396	0.000076	0.000517	0.000441
Calcium (Ca)-Dissolved	600	182	585	610	406	51.4	136	332	265	96.9	397
Chromium (Cr)-Dissolved	<0.00050	<0.0050	<0.00050	<0.00050	<0.00050	<0.0050	<0.0050	0.00081	<0.00020	0.00014	0.00037
Cobalt (Co)-Dissolved	<0.00050	<0.0050	<0.00050	<0.00050	0.00620	<0.0050	<0.0050	0.00340	0.00024	0.00057	<0.00020
Copper (Cu)-Dissolved	<0.0010	<0.010	0.0011	<0.0010	<0.0010	<0.010	<0.010	0.00145	0.00053	0.00198	0.00249
Iron (Fe)-Dissolved	<0.050	0.129	<0.050	<0.050	<0.050	0.018	9.81	0.302	<0.020	0.013	<0.020
Lead (Pb)-Dissolved	<0.00025	<0.030	0.00245	0.0117	<0.00025	<0.030	<0.030	0.00603	0.00012	<0.000050	<0.00010
Lithium (Li)-Dissolved	0.0319	0.018	0.0817	0.0601	0.0140	<0.010	0.059	0.0330	0.0243	0.0106	0.0139
Magnesium (Mg)-Dissolved	257	68.1	389	314	106	9.77	25.8	170	126	66.3	395
Manganese (Mn)-Dissolved	<0.00025	0.0101	0.00140	0.00214	0.583	0.0175	0.515	0.105	0.114	0.472	0.00451
Molybdenum (Mo)-Dissolved	0.00136	<0.010	0.00033	<0.00025	0.00315	<0.010	0.033	0.00168	0.00126	0.0127	0.00081
Nickel (Ni)-Dissolved	<0.0025	0.0105	0.0862	0.0056	0.0385	<0.0050	0.0449	0.0150	0.0068	0.00302	0.0094
Phosphorus (P)-Dissolved	<0.30	<0.050	<0.30	<0.30	<0.30	<0.050	<0.050	<0.30	<0.30	<0.30	<0.30
Potassium (K)-Dissolved	5.67	3.81	4.24	4.09	3.99	1.48	2.70	4.86	4.20	3.10	6.69
Selenium (Se)-Dissolved	0.00056	<0.020	0.00058	<0.00050	<0.00050	<0.020	<0.020	0.00027	0.00036	0.00013	0.00047
Silicon (Si)-Dissolved	5.80	4.28	9.89	9.25	7.49	4.71	9.17	7.52	5.46	6.55	6.52
Silver (Ag)-Dissolved	0.000061	<0.010	<0.000050	<0.000050	<0.000050	<0.010	<0.010	<0.000020	<0.000020	<0.000010	<0.000020
Sodium (Na)-Dissolved	18.5	7.47	18.2	14.5	13.3	3.05	23.1	7.82	8.27	30.6	14.3
Strontium (Sr)-Dissolved	0.720	0.957	3.14	3.05	7.71	0.250	0.952	1.62	1.22	0.647	1.38
Thallium (Tl)-Dissolved	<0.000050	<0.030	<0.000050	<0.000050	<0.000050	<0.030	<0.030	0.000116	<0.000020	0.000019	<0.000020
Tin (Sn)-Dissolved	<0.00050	<0.020	<0.00050	<0.00050	<0.00050	<0.020	<0.020	<0.00020	<0.00020	<0.00010	<0.00020
Titanium (Ti)-Dissolved	0.019	0.012	0.010	<0.010	0.011	<0.010	<0.010	0.031	0.010	<0.010	0.010
Uranium (U)-Dissolved	0.0305	<0.50	0.145	0.160	0.00573	<0.50	<0.50	0.0512	0.0334	0.0128	0.0541
Vanadium (V)-Dissolved	<0.0050	<0.030	<0.0050	<0.0050	<0.0050	<0.030	<0.030	<0.0020	<0.0020	<0.0010	<0.0020
Zinc (Zn)-Dissolved	<0.0050	0.0058	8.17	0.527	0.0097	<0.0040	<0.0040	0.0258	0.0063	0.0041	0.0228
Zirconium (Zr)-Dissolved											

TABLE 5, APPENDIX B

DISSOLVED METALS FOR FARO GROUNDWATER, SEPTEMBER 2012

WELL NUMBER	SRK05-05C	SRK05-07	SRK05-08	SRK05-9	V34	V35	V36	V37	SRK08-P14	SRK08-P15	P09-G51A
Date Sampled	12-SEP-12	12-SEP-12	12-SEP-12	12-SEP-12	12-SEP-12	12-SEP-12	11-SEP-12	12-SEP-12	13-SEP-12	13-SEP-12	13-SEP-12
Time Sampled	14:20	15:30	14:30	14:30	08:30	09:00	16:15	11:00	13:39	16:40	09:00
Aluminum (Al)-Dissolved	0.482	0.0692	<0.0020	0.0028	0.0011	<0.0020	<0.0020	<0.0010	0.0049	<0.0020	0.0037
Antimony (Sb)-Dissolved	0.00044	0.00111	<0.00020	0.00036	0.00011	0.00024	<0.00020	0.00010	<0.00020	0.00025	0.0245
Arsenic (As)-Dissolved	0.00397	0.00464	0.00024	0.00106	0.00073	0.00048	0.00148	0.00113	0.00035	0.00025	0.157
Barium (Ba)-Dissolved	0.0774	0.0481	0.0132	0.0591	0.0553	0.0122	0.00781	0.0765	0.0576	0.0387	0.0115
Beryllium (Be)-Dissolved	<0.00010	<0.00050	<0.00020	<0.00020	<0.00010	<0.00020	<0.00020	<0.00010	<0.00020	<0.00020	<0.00020
Bismuth (Bi)-Dissolved	<0.00050	<0.0025	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	<0.0010
Boron (B)-Dissolved	0.020	<0.050	<0.020	<0.020	0.019	<0.020	<0.020	0.039	<0.020	<0.020	<0.020
Cadmium (Cd)-Dissolved	0.000061	0.000102	0.000023	0.000250	<0.000010	0.000088	0.000377	0.000014	0.000042	0.000091	0.00399
Calcium (Ca)-Dissolved	56.7	476	363	292	190	322	399	89.1	243	348	231
Chromium (Cr)-Dissolved	0.00128	0.00122	0.00050	0.00031	<0.00010	0.00089	<0.00020	<0.00010	<0.00020	0.00085	<0.00020
Cobalt (Co)-Dissolved	0.00028	0.00215	0.00048	<0.00020	0.00210	<0.00020	0.00200	0.00043	<0.00020	0.00032	0.0857
Copper (Cu)-Dissolved	0.00166	0.0012	0.00242	0.00302	<0.00020	0.00049	0.00156	<0.00020	0.00334	0.00085	<0.00040
Iron (Fe)-Dissolved	0.503	0.108	<0.020	<0.020	0.659	<0.020	<0.020	0.083	<0.020	<0.020	1.51
Lead (Pb)-Dissolved	0.00351	0.00078	0.00013	0.00047	<0.000050	<0.00010	0.00274	<0.000050	0.00038	<0.00010	0.0612
Lithium (Li)-Dissolved	0.00776	0.0072	0.0166	0.0085	0.0224	0.0185	0.0379	0.0269	0.0071	0.0118	0.0127
Magnesium (Mg)-Dissolved	14.7	297	208	220	210	173	242	106	55.9	131	97.1
Manganese (Mn)-Dissolved	0.0828	0.0552	0.00066	0.00092	0.0683	0.00197	0.0766	0.0858	0.00113	0.00188	2.27
Molybdenum (Mo)-Dissolved	0.0230	0.00577	0.00054	0.00175	0.00176	0.00115	0.00072	0.0222	0.00117	0.00077	0.00200
Nickel (Ni)-Dissolved	0.00256	0.121	0.0014	0.0017	0.00418	0.0032	0.0112	0.00217	<0.0010	0.0178	0.270
Phosphorus (P)-Dissolved	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Potassium (K)-Dissolved	1.82	2.18	1.92	4.48	4.58	3.59	5.03	5.71	0.98	2.00	4.51
Selenium (Se)-Dissolved	0.00010	<0.00050	0.00046	0.00041	<0.00010	0.00210	0.00067	<0.00010	0.00180	0.00159	<0.00020
Silicon (Si)-Dissolved	6.27	7.10	6.03	5.14	6.46	5.73	6.62	3.11	5.31	5.72	2.31
Silver (Ag)-Dissolved	0.000012	<0.000050	<0.000020	<0.000020	<0.000010	<0.000020	<0.000020	<0.000010	<0.000020	<0.000020	<0.000020
Sodium (Na)-Dissolved	17.4	13.6	9.66	9.34	7.54	6.76	8.05	23.6	4.11	5.42	12.1
Strontium (Sr)-Dissolved	0.615	1.41	1.41	0.963	1.55	0.787	1.91	0.630	1.06	1.12	0.860
Thallium (Tl)-Dissolved	0.000049	<0.000050	<0.000020	<0.000020	<0.000010	0.000020	0.000070	0.000015	<0.000020	<0.000020	0.00702
Tin (Sn)-Dissolved	<0.00010	<0.00050	<0.00020	<0.00020	<0.00010	<0.00020	<0.00020	<0.00010	<0.00020	<0.00020	<0.00020
Titanium (Ti)-Dissolved	0.034	0.013	0.011	0.010	<0.010	0.010	<0.010	<0.010	<0.010	0.010	<0.010
Uranium (U)-Dissolved	0.00208	0.0305	0.0258	0.0348	0.0200	0.0580	0.0496	0.00256	0.00478	0.0244	0.0214
Vanadium (V)-Dissolved	0.0018	<0.0050	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020
Zinc (Zn)-Dissolved	0.0056	0.0089	<0.0020	0.0056	0.0031	0.0080	0.0562	0.0114	0.0062	0.0046	9.06
Zirconium (Zr)-Dissolved											

TABLE 5, APPENDIX B

DISSOLVED METALS FOR FARO GROUNDWATER, SEPTEMBER 2012

WELL NUMBER	P09-GS1B	P09-LCD 1	P09-LCD 4	P09-LCD 6	P09-VC1	P09-VC2	BD1	BD-2	BD-3	BD-4	BD-5
Date Sampled	13-SEP-12	13-SEP-12	13-SEP-12	13-SEP-12	11-SEP-12	11-SEP-12	14-SEP-12	14-SEP-12	14-SEP-12	14-SEP-12	
Time Sampled	10:00	12:15	12:10	12:04	14:30	12:00	12:37	12:00	12:00	12:00	
Aluminum (Al)-Dissolved	<0.0020	0.0045	1.42	5.88	0.0018	<0.0010	0.0016	<0.0010	0.0321	0.0388	0.0032
Antimony (Sb)-Dissolved	0.00724	0.00048	0.00096	0.00086	<0.00010	0.00060	<0.00010	0.00065	<0.00010	<0.00020	0.00033
Arsenic (As)-Dissolved	0.284	0.0189	0.00529	0.117	0.00201	0.123	0.0192	0.120	0.00360	0.00229	0.00028
Barium (Ba)-Dissolved	0.0198	0.0384	0.120	0.334	0.0159	0.0452	0.0160	0.0428	0.0141	0.0146	0.0564
Beryllium (Be)-Dissolved	<0.00020	<0.00010	<0.00010	0.00029	<0.00010	<0.00010	<0.00010	<0.00010	0.00098	0.00091	<0.00020
Bismuth (Bi)-Dissolved	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010
Boron (B)-Dissolved	<0.020	0.018	0.015	0.018	<0.010	<0.010	0.038	<0.010	<0.010	<0.020	<0.020
Cadmium (Cd)-Dissolved	0.000268	0.000265	0.000030	0.000475	<0.000010	<0.000010	<0.000010	<0.000010	0.000077	0.000083	0.000042
Calcium (Ca)-Dissolved	221	134	106	152	48.0	67.7	50.7	66.0	168	232	241
Chromium (Cr)-Dissolved	<0.00020	0.00012	0.00325	0.0201	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020
Cobalt (Co)-Dissolved	0.0187	0.00054	0.00063	0.00709	<0.00010	0.00021	0.00010	0.00023	0.0106	0.00603	<0.00020
Copper (Cu)-Dissolved	<0.00040	<0.00020	0.00606	0.0307	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	0.00323
Iron (Fe)-Dissolved	<0.020	<0.010	0.800	12.7	0.325	1.81	0.765	1.80	26.0	30.8	<0.020
Lead (Pb)-Dissolved	<0.00010	0.0112	0.0120	0.267	<0.000050	0.000585	<0.000050	0.000449	0.000148	0.00022	0.00011
Lithium (Li)-Dissolved	0.0117	0.0100	0.00825	0.0156	0.00314	0.00748	0.0226	0.00733	0.0613	0.0624	0.0071
Magnesium (Mg)-Dissolved	86.5	39.5	28.2	48.1	9.64	13.2	23.7	12.8	62.0	90.5	56.1
Manganese (Mn)-Dissolved	1.10	0.589	0.0116	0.680	0.0146	0.0862	0.103	0.0869	1.48	1.41	0.00045
Molybdenum (Mo)-Dissolved	0.00286	0.00581	0.00741	0.00209	0.000356	0.0103	0.0114	0.00978	0.000096	0.00016	0.00114
Nickel (Ni)-Dissolved	0.0959	0.00136	0.00684	0.0227	<0.00050	<0.00050	<0.00050	<0.00050	0.0249	0.0196	0.0010
Phosphorus (P)-Dissolved	<0.30	<0.30	<0.30	0.51	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Potassium (K)-Dissolved	3.42	2.93	2.36	3.44	1.04	1.19	1.85	1.16	4.87	5.07	0.96
Selenium (Se)-Dissolved	<0.00020	<0.00010	0.00037	0.00011	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	0.00177
Silicon (Si)-Dissolved	4.36	6.79	8.76	20.7	5.94	6.74	6.50	6.88	16.0	13.2	5.25
Silver (Ag)-Dissolved	<0.000020	<0.000010	0.000036	0.000369	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020
Sodium (Na)-Dissolved	17.5	15.7	87.1	6.53	19.6	6.90	50.1	6.82	10.3	10.8	3.99
Strontium (Sr)-Dissolved	1.23	0.851	0.510	0.832	0.606	0.927	1.15	0.872	0.684	0.917	1.10
Thallium (Tl)-Dissolved	0.000476	0.000031	0.000046	0.000151	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020
Tin (Sn)-Dissolved	<0.00020	<0.00010	0.00017	0.00017	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020
Titanium (Ti)-Dissolved	<0.010	<0.010	0.106	0.305	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Dissolved	0.0138	0.0108	0.00555	0.00385	0.00553	0.00444	0.000839	0.00416	0.000866	0.00262	0.00476
Vanadium (V)-Dissolved	<0.0020	<0.0010	0.0035	0.0126	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
Zinc (Zn)-Dissolved	2.87	0.0047	0.0069	0.106	<0.0010	0.0839	<0.0010	0.0803	1.25	1.36	0.0049
Zirconium (Zr)-Dissolved											

TABLE 5, APPENDIX B

DISSOLVED METALS FOR FARO GROUNDWATER, SEPTEMBER 2012

WELL NUMBER	BD-6	BD-7	BD-8	BD-9	FB	TRAVEL BLANK
Date Sampled		11-SEP-12	10-SEP-12	14-SEP-12		
Time Sampled		00:00	00:00	12:00		
Aluminum (Al)-Dissolved	<0.050	0.0021	0.0020	0.0376	<0.0010	<0.0010
Antimony (Sb)-Dissolved	<0.050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Arsenic (As)-Dissolved	<0.050	0.00097	0.00016	0.00532	<0.00010	<0.00010
Barium (Ba)-Dissolved	0.113	0.109	0.381	0.0116	<0.000050	<0.000050
Beryllium (Be)-Dissolved	<0.0010	<0.00010	0.00018	0.00073	<0.00010	<0.00010
Bismuth (Bi)-Dissolved	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Boron (B)-Dissolved	<0.050	<0.010	0.020	<0.010	<0.010	<0.010
Cadmium (Cd)-Dissolved	<0.0010	<0.000010	<0.000010	0.000011	<0.000010	<0.000010
Calcium (Ca)-Dissolved	135	69.9	126	91.5	<0.050	<0.050
Chromium (Cr)-Dissolved	<0.0050	<0.00010	0.00100	<0.00010	<0.00010	<0.00010
Cobalt (Co)-Dissolved	0.0053	0.00194	0.00014	0.0211	<0.00010	<0.00010
Copper (Cu)-Dissolved	<0.010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Iron (Fe)-Dissolved	4.62	1.14	0.629	36.5	<0.010	<0.010
Lead (Pb)-Dissolved	<0.030	0.000246	<0.000050	0.000092	<0.000050	<0.000050
Lithium (Li)-Dissolved	0.060	0.00548	0.139	0.0609	<0.00050	<0.00050
Magnesium (Mg)-Dissolved	26.0	12.4	46.2	35.7	<0.10	<0.10
Manganese (Mn)-Dissolved	0.515	0.630	0.248	1.07	<0.000050	<0.000050
Molybdenum (Mo)-Dissolved	0.035	0.00412	0.000161	0.000065	<0.000050	<0.000050
Nickel (Ni)-Dissolved	0.0660	0.00065	0.00053	0.0270	<0.00050	<0.00050
Phosphorus (P)-Dissolved	<0.050	<0.30	<0.30	<0.30	<0.30	<0.30
Potassium (K)-Dissolved	2.72	2.62	3.11	4.55	<0.050	<0.050
Selenium (Se)-Dissolved	<0.020	<0.00010	0.00027	<0.00010	<0.00010	<0.00010
Silicon (Si)-Dissolved	8.91	5.51	8.47	14.0	<0.050	<0.050
Silver (Ag)-Dissolved	<0.010	<0.000010	0.000066	<0.000010	<0.000010	<0.000010
Sodium (Na)-Dissolved	23.2	5.95	58.2	12.5	<0.050	<0.050
Strontium (Sr)-Dissolved	0.951	0.287	1.62	0.500	<0.00020	<0.00020
Thallium (Tl)-Dissolved	<0.030	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Tin (Sn)-Dissolved	<0.020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Dissolved	<0.010	0.010	0.014	0.011	<0.010	<0.010
Uranium (U)-Dissolved	<0.50	0.00236	0.000281	0.000065	<0.000010	<0.000010
Vanadium (V)-Dissolved	<0.030	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Dissolved	<0.0040	0.0469	0.0141	5.06	<0.0010	<0.0010
Zirconium (Zr)-Dissolved			0.0493			

APPENDIX C

ANALYTICAL REPORTS, SEPTEMBER 2012



LABERGE ENVIRONMENTAL
ATTN: Bonnie Burns
PO Box 21072
Whitehorse YT Y1A 6P7

Date Received: 12-SEP-12
Report Date: 27-SEP-12 12:25 (MT)
Version: FINAL

Client Phone: 867-668-6838

Certificate of Analysis

Lab Work Order #: L1207835
Project P.O. #: NOT SUBMITTED
Job Reference:
C of C Numbers: 10-173930
Legal Site Desc:

Comments:

Elle Diniz
Account Manager

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ADDRESS: 8081 Lougheed Hwy, Suite 100, Burnaby, BC V5A 1W9 Canada | Phone: +1 604 253 4188 | Fax: +1 604 253 6700
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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1207835-1 GW 10-SEP-12 09:25 P01-01A	L1207835-2 GW 10-SEP-12 10:00 P01-01B	L1207835-3 GW 10-SEP-12 10:34 P01-011	L1207835-4 GW 10-SEP-12 11:30 P09-C2	L1207835-5 GW 10-SEP-12 13:00 P09-C3
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	1930	1330	3140	2610	1380
	pH (pH)	7.37	7.75	7.03	8.35	6.97
	Total Suspended Solids (mg/L)	2.6	1.0	57.0	17.4	4.8
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	19.2	6.5	49.8	<1.0	34.3
	Alkalinity, Total (mg/L)	350	276	476	1220	803
	Chloride (Cl) (mg/L)	<10 ^{DLA}	<5.0 ^{DLA}	<10 ^{DLA}	24	7.5
	Sulfate (SO4) (mg/L)	1000	600	2030	38	70.6
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	<0.0020 ^{DLA}	<0.0020 ^{DLA}	<0.0050 ^{DLA}	0.0182	0.0036
	Antimony (Sb)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00020 ^{DLA}	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.00021	0.00221	0.0429	<0.00020 ^{DLA}	0.00126
	Barium (Ba)-Dissolved (mg/L)	0.0461	0.0528	0.0294	0.699	0.431
	Beryllium (Be)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00050 ^{DLA}	0.00276	0.00049
	Bismuth (Bi)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.0025 ^{DLA}	<0.0010 ^{DLA}	<0.00050
	Boron (B)-Dissolved (mg/L)	<0.020 ^{DLA}	<0.020 ^{DLA}	<0.050 ^{DLA}	0.100	0.029
	Cadmium (Cd)-Dissolved (mg/L)	0.000753	<0.000020 ^{DLA}	<0.000050 ^{DLA}	<0.000020 ^{DLA}	<0.000010
	Calcium (Ca)-Dissolved (mg/L)	388	248	659	212	152
	Chromium (Cr)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00050 ^{DLA}	0.00025	0.00012
	Cobalt (Co)-Dissolved (mg/L)	0.00206	<0.00020 ^{DLA}	0.00853	<0.00020 ^{DLA}	<0.00010
	Copper (Cu)-Dissolved (mg/L)	<0.00040 ^{DLA}	<0.00040 ^{DLA}	<0.0010 ^{DLA}	<0.00040 ^{DLA}	<0.00020
	Iron (Fe)-Dissolved (mg/L)	<0.020 ^{DLA}	0.770	60.1	3.38	3.09
	Lead (Pb)-Dissolved (mg/L)	<0.00010 ^{DLA}	<0.00010 ^{DLA}	<0.00025 ^{DLA}	<0.00010 ^{DLA}	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.0109	0.0115	0.0161	0.921	0.219
	Magnesium (Mg)-Dissolved (mg/L)	83.1	49.1	138	106	67.2
	Manganese (Mn)-Dissolved (mg/L)	7.96	0.173	34.8	0.133	0.189
	Molybdenum (Mo)-Dissolved (mg/L)	0.00093	0.00106 ^{DLA}	0.00100	<0.00010 ^{DLA}	0.000330
	Nickel (Ni)-Dissolved (mg/L)	0.0108	<0.0010 ^{DLA}	0.0166	<0.0010 ^{DLA}	<0.00050
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	6.50	4.18	7.93	11.4	4.60
	Selenium (Se)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00020 ^{DLA}	0.00022
	Silicon (Si)-Dissolved (mg/L)	7.52	5.50	11.9	9.82	9.09
	Silver (Ag)-Dissolved (mg/L)	<0.000020 ^{DLA}	<0.000020 ^{DLA}	<0.000050 ^{DLA}	0.000242	0.000102
	Sodium (Na)-Dissolved (mg/L)	19.8	23.0	38.3	321	98.2
	Strontium (Sr)-Dissolved (mg/L)	1.12	0.946	1.55	5.07	3.79
	Thallium (Tl)-Dissolved (mg/L)	<0.000020 ^{DLA}	<0.000020 ^{DLA}	<0.000050 ^{DLA}	<0.000020 ^{DLA}	<0.000010
	Tin (Sn)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00020 ^{DLA}	<0.00010

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1207835-6 GW 10-SEP-12 11:52 X24D-96	L1207835-7 GW 10-SEP-12 14:12 X25A-96	L1207835-8 GW 10-SEP-12 14:20 X25B-96	L1207835-9 GW 10-SEP-12 13:00 P01-03	L1207835-10 GW 10-SEP-12 14:50 P01-04A
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	3650	1490	1460	3580	994
	pH (pH)	8.11	8.35	7.73	7.16	7.20
	Total Suspended Solids (mg/L)	2.6	2.0	1.6	65.0	<1.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	41.2	<1.0	15.3	174	11.5
	Alkalinity, Total (mg/L)	454	298	280	236	569
	Chloride (Cl) (mg/L)	<10 ^{DLA}	<5.0 ^{DLA}	<5.0 ^{DLA}	<10 ^{DLA}	6.9
	Sulfate (SO4) (mg/L)	2550	681	663	2600	42.6
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	<0.010 ^{DLA}	<0.0020 ^{DLA}	<0.0020 ^{DLA}	<0.010 ^{DLA}	0.0022
	Antimony (Sb)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.0010 ^{DLA}	<0.00010
	Arsenic (As)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.00020 ^{DLA}	0.00070	<0.0010 ^{DLA}	0.00016
	Barium (Ba)-Dissolved (mg/L)	0.0186	0.0544	0.0301	0.0124	0.383
	Beryllium (Be)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.0010 ^{DLA}	0.00021
	Bismuth (Bi)-Dissolved (mg/L)	<0.0050 ^{DLA}	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.0050 ^{DLA}	<0.00050
	Boron (B)-Dissolved (mg/L)	<0.10 ^{DLA}	<0.020 ^{DLA}	<0.020 ^{DLA}	<0.10 ^{DLA}	0.020
	Cadmium (Cd)-Dissolved (mg/L)	0.00349	0.000165	0.000027	0.00205	<0.000010
	Calcium (Ca)-Dissolved (mg/L)	763	275	287	747	126
	Chromium (Cr)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.0010 ^{DLA}	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	0.287	0.00640	0.00022	0.178	0.00012
	Copper (Cu)-Dissolved (mg/L)	0.0030 ^{DLA}	0.00135 ^{DLA}	<0.00040 ^{DLA}	<0.0020 ^{DLA}	<0.00020
	Iron (Fe)-Dissolved (mg/L)	<0.10 ^{DLA}	<0.020 ^{DLA}	1.22	70.9	0.569
	Lead (Pb)-Dissolved (mg/L)	<0.00050 ^{DLA}	<0.00010 ^{DLA}	<0.00010 ^{DLA}	<0.00050 ^{DLA}	0.000146
	Lithium (Li)-Dissolved (mg/L)	0.0297	0.0026	0.0093	0.0242	0.145
	Magnesium (Mg)-Dissolved (mg/L)	183	66.6	44.5	177	40.3
	Manganese (Mn)-Dissolved (mg/L)	97.0	12.2	0.286	85.1	0.238
	Molybdenum (Mo)-Dissolved (mg/L)	0.00094	0.00155	0.00042	0.00080	<0.000050
	Nickel (Ni)-Dissolved (mg/L)	0.348	0.0073	<0.0010 ^{DLA}	0.0575	<0.00050
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	7.36	4.69	3.78	7.38	3.03
	Selenium (Se)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.0010 ^{DLA}	0.00030
	Silicon (Si)-Dissolved (mg/L)	10.8	8.44	5.66	11.6	7.82
	Silver (Ag)-Dissolved (mg/L)	<0.00010 ^{DLA}	<0.000020 ^{DLA}	<0.000020 ^{DLA}	<0.00010 ^{DLA}	0.000066
	Sodium (Na)-Dissolved (mg/L)	39.1	21.0	49.0	30.8	57.5
	Strontium (Sr)-Dissolved (mg/L)	2.18	0.753	0.610	2.15	1.63
	Thallium (Tl)-Dissolved (mg/L)	0.00023	<0.000020 ^{DLA}	<0.000020 ^{DLA}	<0.00010 ^{DLA}	<0.000010
	Tin (Sn)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.0010 ^{DLA}	<0.00010

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1207835-11 GW 10-SEP-12 15:30 P01-04B	L1207835-12 GW 10-SEP-12 15:00 P09-ETA-1	L1207835-13 GW 10-SEP-12 14:45 P09-ETA-2	L1207835-14 GW 10-SEP-12 16:30 P96-8A	L1207835-15 GW 10-SEP-12 16:00 P96-8B
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	2170	421	5570	8240	8000
	pH (pH)	7.26	8.43	6.59	5.89	3.70
	Total Suspended Solids (mg/L)	4.8	121	33.4	10.8	8.2
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	4.6	<1.0	599	1040	1720
	Alkalinity, Total (mg/L)	346	192	208	120	MB-LOR <10
	Chloride (Cl) (mg/L)	<10 ^{DLA}	<0.50	32	<25 ^{DLA}	<25 ^{DLA}
	Sulfate (SO4) (mg/L)	1230	31.9	5260	8820	8600
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	<0.0050 ^{DLA}	0.0015	0.036 ^{DLA}	0.34 ^{DLA}	9.05 ^{DLA}
	Antimony (Sb)-Dissolved (mg/L)	<0.00050 ^{DLA}	<0.00010	<0.0020 ^{DLA}	<0.010 ^{DLA}	<0.010 ^{DLA}
	Arsenic (As)-Dissolved (mg/L)	0.00156	0.00017	0.103	<0.010 ^{DLA}	<0.010 ^{DLA}
	Barium (Ba)-Dissolved (mg/L)	0.0187	0.0146	0.0092	0.0202 ^{DLA}	0.0162 ^{DLA}
	Beryllium (Be)-Dissolved (mg/L)	<0.00050 ^{DLA}	<0.00010	<0.0020 ^{DLA}	<0.010 ^{DLA}	<0.010 ^{DLA}
	Bismuth (Bi)-Dissolved (mg/L)	<0.0025 ^{DLA}	<0.00050	<0.010 ^{DLA}	<0.050 ^{DLA}	<0.050 ^{DLA}
	Boron (B)-Dissolved (mg/L)	<0.050 ^{DLA}	0.014	<0.20 ^{DLA}	<1.0 ^{DLA}	<1.0 ^{DLA}
	Cadmium (Cd)-Dissolved (mg/L)	<0.000050 ^{DLA}	<0.000010	<0.00020 ^{DLA}	0.0807	0.197
	Calcium (Ca)-Dissolved (mg/L)	458 ^{DLA}	69.9	504 ^{DLA}	464 ^{DLA}	424 ^{DLA}
	Chromium (Cr)-Dissolved (mg/L)	<0.00050 ^{DLA}	0.00028	<0.0020 ^{DLA}	<0.010 ^{DLA}	<0.010 ^{DLA}
	Cobalt (Co)-Dissolved (mg/L)	0.00088 ^{DLA}	0.00020	0.475 ^{DLA}	1.22 ^{DLA}	1.88
	Copper (Cu)-Dissolved (mg/L)	<0.0010 ^{DLA}	0.00053	<0.0040 ^{DLA}	<0.020 ^{DLA}	0.165
	Iron (Fe)-Dissolved (mg/L)	11.5	0.138	254	126	83.5
	Lead (Pb)-Dissolved (mg/L)	<0.00025 ^{DLA}	0.000212	0.0012	0.0303	0.0669
	Lithium (Li)-Dissolved (mg/L)	0.0187	0.00060	0.078	0.203	0.242
	Magnesium (Mg)-Dissolved (mg/L)	75.3	11.3	722	1500	1310
	Manganese (Mn)-Dissolved (mg/L)	6.07	0.0112	60.4 ^{DLA}	116 ^{DLA}	133 ^{DLA}
	Molybdenum (Mo)-Dissolved (mg/L)	0.00047 ^{DLA}	0.000156	<0.0010 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}
	Nickel (Ni)-Dissolved (mg/L)	<0.0025 ^{DLA}	0.00061	0.444 ^{DLA}	1.24 ^{DLA}	1.96 ^{DLA}
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.60 ^{DLA}	<0.90 ^{DLA}	<0.90 ^{DLA}
	Potassium (K)-Dissolved (mg/L)	5.04 ^{DLA}	0.262	9.5 ^{DLA}	18.3 ^{DLA}	17.7 ^{DLA}
	Selenium (Se)-Dissolved (mg/L)	<0.00050 ^{DLA}	<0.00010	<0.0020 ^{DLA}	<0.010 ^{DLA}	<0.010 ^{DLA}
	Silicon (Si)-Dissolved (mg/L)	7.37 ^{DLA}	9.15	12.4 ^{DLA}	13.7 ^{DLA}	19.5 ^{DLA}
	Silver (Ag)-Dissolved (mg/L)	<0.000050 ^{DLA}	<0.000010	<0.00020 ^{DLA}	<0.0010 ^{DLA}	<0.0010 ^{DLA}
	Sodium (Na)-Dissolved (mg/L)	39.1	16.7	46.2	55.4	59.4
	Strontium (Sr)-Dissolved (mg/L)	1.23	0.538	3.81	4.03	3.81
	Thallium (Tl)-Dissolved (mg/L)	<0.000050 ^{DLA}	<0.000010	<0.00020 ^{DLA}	<0.0010 ^{DLA}	0.0011 ^{DLA}
	Tin (Sn)-Dissolved (mg/L)	<0.00050 ^{DLA}	<0.00010	<0.0020 ^{DLA}	<0.010 ^{DLA}	<0.010 ^{DLA}

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1207835-16 GW 10-SEP-12 14:45 SRK04-3A	L1207835-17 GW 10-SEP-12 16:50 SRK05-ETA-BR1	L1207835-18 GW 10-SEP-12 15:45 SRK05-ETA-BR2	L1207835-19 GW 10-SEP-12 14:15 SRK08-ETA-10A	L1207835-20 GW 10-SEP-12 17:35 SRK08-ETA-11A
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	8210	7610	2840	3520	680
	pH (pH)	5.34	5.48	6.80	7.01	8.51
	Total Suspended Solids (mg/L)				238	59.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)				61.3	<1.0
	Alkalinity, Total (mg/L)	84.1	72.1	160	547	154
	Chloride (Cl) (mg/L)				120	<0.50
	Sulfate (SO4) (mg/L)	8730	7810	2060	1860	231
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	LAB	LAB	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	4.96	1.40	0.373	0.0059	0.0018
	Antimony (Sb)-Dissolved (mg/L)	<0.15 ^{DLA}	<0.15 ^{DLA}	<0.050	<0.00050 ^{DLA}	<0.00010
	Arsenic (As)-Dissolved (mg/L)	<0.15 ^{DLA}	<0.15 ^{DLA}	<0.050	<0.00050 ^{DLA}	0.00015
	Barium (Ba)-Dissolved (mg/L)	0.0086	0.0135 ^{DLA}	0.0460	0.0194 ^{DLA}	0.0663
	Beryllium (Be)-Dissolved (mg/L)	0.0031 ^{DLA}	<0.0030 ^{DLA}	<0.0010	<0.00050 ^{DLA}	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.15 ^{DLA}	<0.15 ^{DLA}	<0.050	<0.0025 ^{DLA}	<0.00050
	Boron (B)-Dissolved (mg/L)	<0.15 ^{DLA}	<0.15 ^{DLA}	<0.050	<0.050 ^{DLA}	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.102	0.119	<0.0010	0.000284	<0.000010
	Calcium (Ca)-Dissolved (mg/L)	419 ^{DLA}	437 ^{DLA}	557	787 ^{DLA}	152
	Chromium (Cr)-Dissolved (mg/L)	<0.015 ^{DLA}	<0.015 ^{DLA}	<0.0050	<0.00050 ^{DLA}	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	1.48 ^{DLA}	1.43 ^{DLA}	0.0828	0.0113	<0.00010
	Copper (Cu)-Dissolved (mg/L)	<0.030 ^{DLA}	<0.030 ^{DLA}	<0.010	0.0016 ^{DLA}	0.00108
	Iron (Fe)-Dissolved (mg/L)	947 ^{DLA}	1380	0.840	<0.050 ^{DLA}	<0.010
	Lead (Pb)-Dissolved (mg/L)	<0.090 ^{DLA}	0.198	<0.030	<0.00025 ^{DLA}	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.202	0.165	0.022	0.0046	0.00918
	Magnesium (Mg)-Dissolved (mg/L)	961	830	152	91.6	24.9
	Manganese (Mn)-Dissolved (mg/L)	115 ^{DLA}	117 ^{DLA}	9.31	0.0145	0.000886
	Molybdenum (Mo)-Dissolved (mg/L)	<0.030 ^{DLA}	<0.030 ^{DLA}	<0.010	0.00030	0.000267
	Nickel (Ni)-Dissolved (mg/L)	1.32 ^{DLA}	1.25 ^{DLA}	0.0765	0.0083	0.00102
	Phosphorus (P)-Dissolved (mg/L)	<0.15 ^{DLA}	<0.15 ^{DLA}	<0.050	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	16.0 ^{DLA}	13.7 ^{DLA}	4.27	13.0 ^{DLA}	2.92
	Selenium (Se)-Dissolved (mg/L)	<0.060 ^{DLA}	<0.060 ^{DLA}	<0.020	<0.00050 ^{DLA}	0.00023
	Silicon (Si)-Dissolved (mg/L)	18.3 ^{DLA}	17.0 ^{DLA}	8.41	9.40 ^{DLA}	7.17
	Silver (Ag)-Dissolved (mg/L)	<0.030 ^{DLA}	<0.030 ^{DLA}	<0.010	<0.000050 ^{DLA}	<0.000010
	Sodium (Na)-Dissolved (mg/L)	55.5	59.6	31.3	130	5.26
	Strontium (Sr)-Dissolved (mg/L)	4.08	4.54	6.56	1.49	0.469
	Thallium (Tl)-Dissolved (mg/L)	<0.090 ^{DLA}	<0.090 ^{DLA}	<0.030	<0.000050 ^{DLA}	<0.000010
	Tin (Sn)-Dissolved (mg/L)	<0.060 ^{DLA}	<0.060 ^{DLA}	<0.020	<0.00050 ^{DLA}	<0.00010

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1207835-21 GW 10-SEP-12 18:00 SRK08-ETA-11B	L1207835-22 GW 10-SEP-12 00:30 P03-09-6	L1207835-23 GW 10-SEP-12 00:45 P03-09-9	L1207835-24 GW 10-SEP-12 11:45 P05-01-03	L1207835-25 GW 10-SEP-12 11:20 P05-01-05
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	1060	1700	1840	2980	2670
	pH (pH)	8.36	7.40	7.31	6.87	7.52
	Total Suspended Solids (mg/L)	54.2	10.0	65.6	918	11.6
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	<1.0	21.1	28.7	71.8	13.6
	Alkalinity, Total (mg/L)	152	312	312	416	362
	Chloride (Cl) (mg/L)	<5.0 ^{DLA}	<5.0 ^{DLA}	<5.0 ^{DLA}	<10 ^{DLA}	<10 ^{DLA}
	Sulfate (SO4) (mg/L)	515	838	915	1940	1720
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	LAB	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0031	<0.0020 ^{DLA}	<0.0020 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}
	Arsenic (As)-Dissolved (mg/L)	0.00020	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00050 ^{DLA}	0.00434
	Barium (Ba)-Dissolved (mg/L)	0.0489	0.0349 ^{DLA}	0.0299 ^{DLA}	0.0256 ^{DLA}	0.0155 ^{DLA}
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.0025 ^{DLA}	<0.0025 ^{DLA}
	Boron (B)-Dissolved (mg/L)	<0.010	<0.020 ^{DLA}	<0.020 ^{DLA}	<0.050 ^{DLA}	<0.050 ^{DLA}
	Cadmium (Cd)-Dissolved (mg/L)	0.000453	0.000205	0.000450	0.000115	0.000268
	Calcium (Ca)-Dissolved (mg/L)	175	332 ^{DLA}	352 ^{DLA}	617 ^{DLA}	512 ^{DLA}
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	0.00175 ^{DLA}	0.00476 ^{DLA}	0.00066 ^{DLA}	0.0138 ^{DLA}
	Copper (Cu)-Dissolved (mg/L)	0.00144	<0.00040 ^{DLA}	<0.00040 ^{DLA}	<0.0010 ^{DLA}	<0.0010 ^{DLA}
	Iron (Fe)-Dissolved (mg/L)	0.080	0.020 ^{DLA}	0.042 ^{DLA}	<0.050 ^{DLA}	24.1 ^{DLA}
	Lead (Pb)-Dissolved (mg/L)	0.000361	<0.00010 ^{DLA}	<0.00010 ^{DLA}	<0.00025 ^{DLA}	<0.00025 ^{DLA}
	Lithium (Li)-Dissolved (mg/L)	0.0106	0.0129	0.0139	0.0330	0.0238
	Magnesium (Mg)-Dissolved (mg/L)	45.4	65.7	69.7	140	132
	Manganese (Mn)-Dissolved (mg/L)	0.242	12.1	16.1	37.0	35.8
	Molybdenum (Mo)-Dissolved (mg/L)	0.000181	0.00123	0.00108	0.00137	0.00079
	Nickel (Ni)-Dissolved (mg/L)	0.00690	0.0205	0.0216	0.0026	0.0148
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	3.41	4.55 ^{DLA}	4.69 ^{DLA}	7.66 ^{DLA}	6.90 ^{DLA}
	Selenium (Se)-Dissolved (mg/L)	<0.00010	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}
	Silicon (Si)-Dissolved (mg/L)	6.83	7.71 ^{DLA}	8.02 ^{DLA}	9.57 ^{DLA}	9.79 ^{DLA}
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000020 ^{DLA}	<0.000020 ^{DLA}	<0.000050 ^{DLA}	<0.000050 ^{DLA}
	Sodium (Na)-Dissolved (mg/L)	7.78	27.5	32.3	37.9	32.8
	Strontium (Sr)-Dissolved (mg/L)	0.637	0.782 ^{DLA}	0.781 ^{DLA}	1.52 ^{DLA}	1.30 ^{DLA}
	Thallium (Tl)-Dissolved (mg/L)	0.000023	<0.000020 ^{DLA}	<0.000020 ^{DLA}	<0.000050 ^{DLA}	<0.000050 ^{DLA}
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1207835-26 GW 10-SEP-12 BD-8				
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	992				
	pH (pH)	7.18				
	Total Suspended Solids (mg/L)	8.8				
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	43.1				
	Alkalinity, Total (mg/L)	563				
	Chloride (Cl) (mg/L)	<5.0 ^{DLA}				
	Sulfate (SO4) (mg/L)	40.9				
Dissolved Metals	Dissolved Metals Filtration Location	FIELD				
	Aluminum (Al)-Dissolved (mg/L)	0.0020				
	Antimony (Sb)-Dissolved (mg/L)	<0.00010				
	Arsenic (As)-Dissolved (mg/L)	0.00016				
	Barium (Ba)-Dissolved (mg/L)	0.381				
	Beryllium (Be)-Dissolved (mg/L)	0.00018				
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050				
	Boron (B)-Dissolved (mg/L)	0.020				
	Cadmium (Cd)-Dissolved (mg/L)	<0.000010				
	Calcium (Ca)-Dissolved (mg/L)	126				
	Chromium (Cr)-Dissolved (mg/L)	0.00100				
	Cobalt (Co)-Dissolved (mg/L)	0.00014				
	Copper (Cu)-Dissolved (mg/L)	<0.00020				
	Iron (Fe)-Dissolved (mg/L)	0.629				
	Lead (Pb)-Dissolved (mg/L)	<0.000050				
	Lithium (Li)-Dissolved (mg/L)	0.139				
	Magnesium (Mg)-Dissolved (mg/L)	46.2				
	Manganese (Mn)-Dissolved (mg/L)	0.248				
	Molybdenum (Mo)-Dissolved (mg/L)	0.000161				
	Nickel (Ni)-Dissolved (mg/L)	0.00053				
	Phosphorus (P)-Dissolved (mg/L)	<0.30				
	Potassium (K)-Dissolved (mg/L)	3.11				
	Selenium (Se)-Dissolved (mg/L)	0.00027				
	Silicon (Si)-Dissolved (mg/L)	8.47				
	Silver (Ag)-Dissolved (mg/L)	0.000066				
	Sodium (Na)-Dissolved (mg/L)	58.2				
	Strontium (Sr)-Dissolved (mg/L)	1.62				
	Thallium (Tl)-Dissolved (mg/L)	<0.000010				
	Tin (Sn)-Dissolved (mg/L)	<0.00010				

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1207835-1 GW 10-SEP-12 09:25 P01-01A	L1207835-2 GW 10-SEP-12 10:00 P01-01B	L1207835-3 GW 10-SEP-12 10:34 P01-011	L1207835-4 GW 10-SEP-12 11:30 P09-C2	L1207835-5 GW 10-SEP-12 13:00 P09-C3
Grouping	Analyte					
WATER						
Dissolved Metals	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.0104	0.00881	0.0118	0.000445	0.000836
	Vanadium (V)-Dissolved (mg/L)	<0.0020 ^{DLA}	<0.0020 ^{DLA}	<0.0050 ^{DLA}	<0.0020 ^{DLA}	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.0033	0.0023	0.0054	0.0045	<0.0010
	Zirconium (Zr)-Dissolved (mg/L)	<0.0016 ^{DLA}	<0.0016 ^{DLA}	<0.0040 ^{DLA}	0.171	0.0730

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	Description	Sampled Date	Sampled Time	Client ID
		L1207835-6	GW	10-SEP-12	11:52	X24D-96
		L1207835-7	GW	10-SEP-12	14:12	X25A-96
		L1207835-8	GW	10-SEP-12	14:20	X25B-96
		L1207835-9	GW	10-SEP-12	13:00	P01-03
		L1207835-10	GW	10-SEP-12	14:50	P01-04A
Grouping	Analyte					
WATER						
Dissolved Metals	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.00438	0.0113	0.00767	0.00534	0.000282
	Vanadium (V)-Dissolved (mg/L)	<0.010 ^{DLA}	<0.0020 ^{DLA}	<0.0020 ^{DLA}	<0.010 ^{DLA}	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.146	0.0044	<0.0020 ^{DLA}	0.054	0.0016
	Zirconium (Zr)-Dissolved (mg/L)	<0.0080 ^{DLA}	<0.0016	<0.0016 ^{DLA}	<0.0080 ^{DLA}	0.0510

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	Description	Sampled Date	Sampled Time	Client ID
		L1207835-11	GW	10-SEP-12	15:30	P01-04B
		L1207835-12	GW	10-SEP-12	15:00	P09-ETA-1
		L1207835-13	GW	10-SEP-12	14:45	P09-ETA-2
		L1207835-14	GW	10-SEP-12	16:30	P96-8A
		L1207835-15	GW	10-SEP-12	16:00	P96-8B
Grouping	Analyte					
WATER						
Dissolved Metals	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	0.036	0.046	0.047
	Uranium (U)-Dissolved (mg/L)	0.00586	0.000091	0.00527 ^{DLA}	0.0027 ^{DLA}	0.0093 ^{DLA}
	Vanadium (V)-Dissolved (mg/L)	<0.0050 ^{DLA}	<0.0010	<0.020 ^{DLA}	<0.10 ^{DLA}	<0.10 ^{DLA}
	Zinc (Zn)-Dissolved (mg/L)	<0.0050 ^{DLA}	0.0136	173 ^{DLA}	497 ^{DLA}	797 ^{DLA}
	Zirconium (Zr)-Dissolved (mg/L)	<0.0040 ^{DLA}	0.00219	<0.016 ^{DLA}	<0.080 ^{DLA}	<0.080 ^{DLA}

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1207835-16 GW 10-SEP-12 14:45 SRK04-3A	L1207835-17 GW 10-SEP-12 16:50 SRK05-ETA-BR1	L1207835-18 GW 10-SEP-12 15:45 SRK05-ETA-BR2	L1207835-19 GW 10-SEP-12 14:15 SRK08-ETA-10A	L1207835-20 GW 10-SEP-12 17:35 SRK08-ETA-11A
Grouping	Analyte					
WATER						
Dissolved Metals	Titanium (Ti)-Dissolved (mg/L)	0.044	0.045	0.026	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	6.3	8.6	1.27	0.0362	0.00153
	Vanadium (V)-Dissolved (mg/L)	<0.090 ^{DLA}	<0.090 ^{DLA}	<0.030	<0.0050 ^{DLA}	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	688	759	29.1	0.153	0.0042
	Zirconium (Zr)-Dissolved (mg/L)				<0.0040 ^{DLA}	<0.00080

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	Description	Sampled Date	Sampled Time	Client ID
		L1207835-21	GW	10-SEP-12	18:00	SRK08-ETA-11B
		L1207835-22	GW	10-SEP-12	00:30	P03-09-6
		L1207835-23	GW	10-SEP-12	00:45	P03-09-9
		L1207835-24	GW	10-SEP-12	11:45	P05-01-03
		L1207835-25	GW	10-SEP-12	11:20	P05-01-05
Grouping	Analyte					
WATER						
Dissolved Metals	Titanium (Ti)-Dissolved (mg/L)	<0.010	0.010	0.010	0.020	0.020
	Uranium (U)-Dissolved (mg/L)	0.00138	0.00815 ^{DLA}	0.00850 ^{DLA}	0.00211 ^{DLA}	0.00464 ^{DLA}
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0020	<0.0020	<0.0050	<0.0050
	Zinc (Zn)-Dissolved (mg/L)	0.135	0.0050 ^{DLA}	0.0079 ^{DLA}	0.0124 ^{DLA}	0.0117 ^{DLA}
	Zirconium (Zr)-Dissolved (mg/L)	<0.00080	<0.0016	<0.0016	<0.0040	<0.0040

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Duplicate	Chloride (Cl)	DLA	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -24, -25, -26, -3, -4, -5, -6, -7, -8, -9
Duplicate	Phosphorus (P)-Dissolved	DLA	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -25, -26, -3, -4, -5, -6, -7, -8, -9
Duplicate	Antimony (Sb)-Dissolved	DLA	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -25, -26, -3, -4, -5, -6, -7, -8, -9
Duplicate	Beryllium (Be)-Dissolved	DLA	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -25, -26, -3, -4, -5, -6, -7, -8, -9
Duplicate	Bismuth (Bi)-Dissolved	DLA	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -25, -26, -3, -4, -5, -6, -7, -8, -9
Duplicate	Boron (B)-Dissolved	DLA	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -25, -26, -3, -4, -5, -6, -7, -8, -9
Duplicate	Cadmium (Cd)-Dissolved	DLA	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -25, -26, -3, -4, -5, -6, -7, -8, -9
Duplicate	Chromium (Cr)-Dissolved	DLA	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -25, -26, -3, -4, -5, -6, -7, -8, -9
Duplicate	Copper (Cu)-Dissolved	DLA	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -25, -26, -3, -4, -5, -6, -7, -8, -9
Duplicate	Molybdenum (Mo)-Dissolved	DLA	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -25, -26, -3, -4, -5, -6, -7, -8, -9
Duplicate	Selenium (Se)-Dissolved	DLA	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -25, -26, -3, -4, -5, -6, -7, -8, -9
Duplicate	Silver (Ag)-Dissolved	DLA	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -25, -26, -3, -4, -5, -6, -7, -8, -9
Duplicate	Thallium (Tl)-Dissolved	DLA	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -25, -26, -3, -4, -5, -6, -7, -8, -9
Duplicate	Tin (Sn)-Dissolved	DLA	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -25, -26, -3, -4, -5, -6, -7, -8, -9
Duplicate	Vanadium (V)-Dissolved	DLA	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -25, -26, -3, -4, -5, -6, -7, -8, -9
Duplicate	Zirconium (Zr)-Dissolved	DLA	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -25, -26, -3, -4, -5, -6, -7, -8, -9
Duplicate	Cadmium (Cd)-Dissolved	DLM	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -25, -26, -3, -4, -5, -6, -7, -8, -9
Method Blank	Alkalinity, Total	MB-LOR	L1207835-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -25, -26, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -25, -26, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -25, -26, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -25, -26, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L1207835-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -25, -26, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Arsenic (As)-Dissolved	MS-B	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -25, -26, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1207835-1, -10, -11, -12, -13, -14, -15, -19, -2, -20, -21, -22, -23, -25, -26, -3, -4, -5, -6, -7, -8, -9

Qualifiers for Individual Parameters Listed:

Qualifier	Description
DLA	Detection Limit Adjusted For required dilution
DLM	Detection Limit Adjusted For Sample Matrix Effects
MB-LOR	Method Blank exceeds ALS DQO. LORs adjusted for samples with positive hits below 5 times blank level. Please contact ALS if re-analysis is required.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

Reference Information

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-MAN-WR	Water	Acidity by Manual Titration	APHA 2310
"This analysis is carried out using procedures adapted from APHA Method 2310 ""Acidity"". Acidity is determined by potentiometric titration to a 8.3 pH endpoint."			
ALK-MAN-WR	Water	Alkalinity by Manual Titration	APHA 2320
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
ANIONS-CL-IC-WR	Water	Chloride by Ion Chromatography	EPA 300.1
This analysis is carried out using procedures adapted from EPA Method 300.1, "Determination of Inorganic Anions by Ion Chromatography", Revision 1.0, April 1999 and from "Determination of Inorganic Anions in Environmental Waters Using a Hydroxide-Selective Column", Application Note 154 v.19, Dionex 2003.			
ANIONS-SO4-IC-WR	Water	Sulphate by Ion Chromatography	EPA 300.1
This analysis is carried out using procedures adapted from EPA Method 300.1, "Determination of Inorganic Anions by Ion Chromatography", Revision 1.0, April 1999 and from "Determination of Inorganic Anions in Environmental Waters Using a Hydroxide-Selective Column", Application Note 154 v.19, Dionex 2003.			
EC-MAN-VA	Water	Conductivity (Manual)	APHA 2510 "Conductivity"
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
EC-MAN-VA	Water	Conductivity (Manual)	APHA 2510 Conductivity
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
MET-D-CCMS-VA	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030 B&E / EPA SW-846 6020A
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).			
MET-DIS-LOW-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA 3005A/6010B
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).			
PH-MAN-WR	Water	pH by Meter	APHA 4500-H (B)
"This analysis is carried out using procedures adapted from APHA Method 4500-H ""pH Value"". The pH is determined in the laboratory using a pH electrode."			
TSS-MAN-WR	Water	Total Suspended Solids by Gravimetric	APHA 2540 D
This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Suspended Solids are determined by filtering a sample through a glass fibre filter and drying the filter at 104 degrees celsius.			
ZR-D-MS-VA	Water	Dissolved Zr in Water by ICPMS	EPA SW-846 3005A/6020A
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WR	ALS ENVIRONMENTAL - WHITEHORSE, YUKON, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Reference Information

Chain of Custody Numbers:

10-173930

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

mg/kg - milligrams per kilogram based on dry weight of sample.

mg/kg ww - milligrams per kilogram based on wet weight of sample.

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.

mg/L - milligrams per litre.

< - Less than.

D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



ALS Environmental

Chain of Custody / Analytical Request Form
Canada Toll Free: 1 800 668 9878
www.alsglobal.com

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Report To		Report Format / Distribution		Service Request: (Rush subject to availability - Contact ALS to confirm TAT)												
Company: Laberge Environmental Services		Standard: ☒ Other (specify):		☒ Regular (Standard Turnaround Times - Business Days)												
Contact: Bonnie Burns		Select: PDF ☒ Excel ☒ Digital ☒ Fax		Priority (2-4 Business Days)-50% surcharge - Contact ALS to confirm TAT												
Address: PO Box 21072		Email 1: bonnieburns@northwestel.net		Emergency (1-2 Business Days)-100% Surcharge - Contact ALS to confirm TAT												
Whitehorse, YT		Email 2:		Same Day or Weekend Emergency - Contact ALS to confirm TAT												
Phone: 867-668-6838 Fax:				Analysis Request												
Invoice To		Client / Project Information		(Indicate Filtered or Preserved, F/P)												
Same as Report? (circle) Yes or No (if No, provide details)		Job #:														
Copy of Invoice with Report? (circle) Yes or No		PO / AFE:														
Company:		LSD:														
Contact:		Quote #: Q 36128														
Address:		ALS Contact:														
Phone:		Sampler:														
Lab Work Order # (lab use only)		4120 7835														
Sample #	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Acidity	Alkalinity	chloride	Conductivity	PH	SO4	TSS	ICP metals scan	ICP metals scan	ICP metals reduced	ICP metals reduced	Number of Containers
PO1-01A	PO1-01A	10/09/12	09:25	GW	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	2
PO1-01B	PO1-01B	"	10:00	"	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	2
	PO1-11	"	10:34	"	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	2
	PO9-C2	"	11:30	"	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	2
	PO9-C3	"	13:00	"	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	2
	X24D-96	"	11:52	"	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	2
	X25A-96	"	14:12	"	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	2
	X25B-96	"	14:20	"	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	2
	PO1-03	"	13:00	"	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	2
	PO1-04A	"	14:50	"	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	2
	PO1-04B	"	15:30	"	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	2
	PO9-ETA-1	"	15:00	"	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	2
Special Instructions / Regulation with water or land use (CCME- Freshwater Aquatic Life/BC CSR-Commercial/AB Tier 1-Natural/ETC) / Hazardous Details																
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.																
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.																
SHIPMENT RELEASE (client use)			SHIPMENT RECEPTION (lab use only)				SHIPMENT VERIFICATION (lab use only)									
Released by:	Date:	Time:	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations:						
				12-Sept-12	8:30	16 °C				Yes / No ?						
If Yes add SIF																
REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION																
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ALS Environmental

Chain of Custody / Analytical Request Form
Canada Toll Free: 1 800 668 9878
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Page 2 of 2

Report To		Report Format / Distribution		Service Request: (Rush subject to availability - Contact ALS to confirm TAT)												
Company:		Standard: Other (specify):		Regular (Standard Turnaround Times - Business Days)												
Contact:		Select: PDF Excel Digital Fax		Priority (2-4 Business Days)-50% surcharge - Contact ALS to confirm TAT												
Address:		Email 1:		Emergency (1-2 Business Days)-100% Surcharge - Contact ALS to confirm TAT												
Phone:		Email 2:		Same Day or Weekend Emergency - Contact ALS to confirm TAT												
Fax:				Analysis Request												
Invoice To		Client / Project Information		(Indicate Filtered or Preserved, F/P)												
Same as Report? (circle) Yes or No (if No, provide details)		Job #:														
Copy of Invoice with Report? (circle) Yes or No		PO / AFE:														
Company:		LSD:														
Contact:		Quote #:														
Address:		ALS Contact:														
Phone:		Sampler:														
Fax:																
Lab Work Order # (lab use only)																
Sample #	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Acidity	Alkalinity	Chloride	Conductivity	pH	SO ₄	TSS	ICP metals scan	ICP metals scan	ICP metals reduced	ICP metals reduced	Number of Containers
	P09-ETA-2	10/09/12	14:45	GrW	✓	✓	✓	✓	✓	✓	✓	✓				2
	P96-8A	"	16:30	"	✓	✓	✓	✓	✓	✓	✓	✓				2
	P96-8B	"	16:00	"	✓	✓	✓	✓	✓	✓	✓	✓				2
	SRK04-3A	"	14:45	"		✓		✓	✓	✓				✓		2
	SRK05-ETA-BR1	"	16:50	"		✓		✓	✓	✓				✓		2
	SRK05-ETA-BR2	"	15:45	"		✓		✓	✓	✓				✓		2
	SRK08-10A	"	14:15	"	✓	✓	✓	✓	✓	✓	✓	✓				2
	SRK08-11A	"	17:35	"	✓	✓	✓	✓	✓	✓	✓	✓				2
	SRK08-11B	"	18:00	"	✓	✓	✓	✓	✓	✓	✓	✓				2
	P03-09-6	"	12:30	"	✓	✓	✓	✓	✓	✓	✓	✓				2
	P03-09-9	"	12:45	"	✓	✓	✓	✓	✓	✓	✓	✓				2
	P05-01-03	"	11:45	"	✓	✓	✓	✓	✓	✓	✓	✓				2
Special Instructions / Regulation with water or land use (CCME - Freshwater Aquatic Life/BC CSR-Commercial/AB Tie 1-Natural/ETC) / Hazardous Details																
	P05-01-05	"	11:20	"	✓	✓	✓	✓	✓	✓	✓	✓				2
	BD-8	"		"												2
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.																
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.																
SHIPMENT RELEASE (client use)				SHIPMENT RECEPTION (lab use only)				SHIPMENT VERIFICATION (lab use only)								
Released by:	Date:	Time:	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations:						
				12-Sept-12	8:30	1.6 °C	7/6									

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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YELLOW - CLIENT COPY

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LABERGE ENVIRONMENTAL
ATTN: Bonnie Burns
PO Box 21072
Whitehorse YT Y1A 6P7

Date Received: 14-SEP-12
Report Date: 27-SEP-12 15:36 (MT)
Version: FINAL

Client Phone: 867-668-6838

Certificate of Analysis

Lab Work Order #: L1209492
Project P.O. #: NOT SUBMITTED
Job Reference:
C of C Numbers: 10-173932, 10-218112, 10-218113, 10-218110
Legal Site Desc:

Elle Diniz
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209492-1 gw 11-SEP-12 16:05 P03-01-02	L1209492-2 gw 11-SEP-12 16:20 P03-01-08	L1209492-3 gw 11-SEP-12 17:05 P03-03-02	L1209492-4 gw 11-SEP-12 17:20 P03-03-04	L1209492-5 gw 11-SEP-12 17:45 P03-03-09
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	400	12300	1930	1450	23700
	pH (pH)	7.71	3.55	4.45	6.50	2.98
	Total Suspended Solids (mg/L)	26.4	110	16.4	8.8	572
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	6.7	7570	1020	418	34600
	Alkalinity, Total (mg/L)	199	<2.0	<2.0	16.8	<2.0
	Chloride (Cl) (mg/L)	<0.50	<25 ^{DLM}	<10 ^{DLM}	<5.0 ^{DLM}	<50 ^{DLM}
	Sulfate (SO4) (mg/L)	23.6	13000	1430	940	42100
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	LAB	FIELD	FIELD	LAB
	Aluminum (Al)-Dissolved (mg/L)	0.0019	0.048	1.29	0.0373	0.22
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.0020 ^{DLA}	<0.0010 ^{DLA}	<0.00050 ^{DLA}	<0.010 ^{DLA}
	Arsenic (As)-Dissolved (mg/L)	0.00099	<0.0020 ^{DLA}	<0.0010 ^{DLA}	0.00304	0.023 ^{DLA}
	Barium (Ba)-Dissolved (mg/L)	0.111	0.0042 ^{DLA}	0.00705	0.0386 ^{DLA}	<0.0050 ^{DLA}
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.0020 ^{DLA}	0.0011 ^{DLA}	<0.00050 ^{DLA}	<0.010 ^{DLA}
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.010 ^{DLA}	<0.0050 ^{DLA}	<0.0025 ^{DLA}	<0.050 ^{DLA}
	Boron (B)-Dissolved (mg/L)	<0.010	<0.20 ^{DLA}	<0.10 ^{DLA}	<0.050 ^{DLA}	<1.0 ^{DLA}
	Cadmium (Cd)-Dissolved (mg/L)	<0.000010	<0.00020 ^{DLA}	0.00538	0.00701	0.0136
	Calcium (Ca)-Dissolved (mg/L)	69.2	334 ^{DLA}	64.8 ^{DLA}	135 ^{DLA}	427 ^{DLA}
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.0020	<0.0010	<0.00050	<0.010
	Cobalt (Co)-Dissolved (mg/L)	0.00180	0.0035	0.0605	0.212 ^{DLA}	0.014
	Copper (Cu)-Dissolved (mg/L)	<0.00020	0.0060	0.0145	<0.0010 ^{DLA}	0.157
	Iron (Fe)-Dissolved (mg/L)	1.13	4320	545	194	18700
	Lead (Pb)-Dissolved (mg/L)	<0.000050	0.279	0.00157	0.00045	0.0224
	Lithium (Li)-Dissolved (mg/L)	0.00578	0.231	0.0160	0.0423	0.164
	Magnesium (Mg)-Dissolved (mg/L)	12.3	487	22.6	34.3	633
	Manganese (Mn)-Dissolved (mg/L)	0.621	37.4 ^{DLA}	7.93 ^{DLA}	38.3 ^{DLA}	138 ^{DLA}
	Molybdenum (Mo)-Dissolved (mg/L)	0.00418	<0.0010 ^{DLA}	<0.00050 ^{DLA}	<0.00025 ^{DLA}	<0.0050 ^{DLA}
	Nickel (Ni)-Dissolved (mg/L)	0.00060	<0.010 ^{DLA}	0.0933	0.218	<0.050 ^{DLA}
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<1.5 ^{DLA}	<0.30	<0.30	<9.0 ^{DLA}
	Potassium (K)-Dissolved (mg/L)	2.63	90.2 ^{DLA}	3.73 ^{DLA}	3.95 ^{DLA}	36.4 ^{DLA}
	Selenium (Se)-Dissolved (mg/L)	<0.00010	<0.0020 ^{DLA}	<0.0010 ^{DLA}	<0.00050 ^{DLA}	<0.010 ^{DLA}
	Silicon (Si)-Dissolved (mg/L)	5.45	1.83 ^{DLA}	15.9 ^{DLA}	16.1	10.1 ^{DLA}
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.00020 ^{DLA}	<0.00010 ^{DLA}	0.000229	<0.0010 ^{DLA}
	Sodium (Na)-Dissolved (mg/L)	5.90	640	6.98	14.3	326
	Strontium (Sr)-Dissolved (mg/L)	0.289	1.05	0.269	0.439	0.903
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	0.00040 ^{DLA}	0.00012 ^{DLA}	0.000050 ^{DLA}	0.0015 ^{DLA}
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.0020 ^{DLA}	<0.0010 ^{DLA}	<0.00050 ^{DLA}	<0.010 ^{DLA}
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.050 ^{DLA}	<0.010	0.015	<0.30 ^{DLA}

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209492-6 gw 11-SEP-12 12:20 P03-05-04	L1209492-7 gw 11-SEP-12 10:00 P03-06-01	L1209492-8 gw 11-SEP-12 10:30 P03-06-02	L1209492-9 gw 11-SEP-12 11:00 P03-06-06	L1209492-10 gw 11-SEP-12 BD-7
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	1300	4140	4320	6720	408
	pH (pH)	7.56	6.02	4.85	3.76	7.98
	Total Suspended Solids (mg/L)	2.0	65.0	104	2440	25.8
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	29.8	1220	1330	2170	20.2
	Alkalinity, Total (mg/L)	120	8.2	13.0	<2.0	204
	Chloride (Cl) (mg/L)	<5.0 ^{DLM}	<10 ^{DLM}	<10 ^{DLM}	<25 ^{DLM}	<0.50
	Sulfate (SO4) (mg/L)	739	3800	3870	7020	23.6
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	LAB	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0078	0.999	0.746	0.204	0.0021
	Antimony (Sb)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.00010
	Arsenic (As)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}	0.00097
	Barium (Ba)-Dissolved (mg/L)	0.0438	0.0151	0.0148	<0.0025 ^{DLA}	0.109
	Beryllium (Be)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.025 ^{DLA}	<0.025 ^{DLA}	<0.025 ^{DLA}	<0.00050
	Boron (B)-Dissolved (mg/L)	<0.020 ^{DLA}	<0.50 ^{DLA}	<0.50 ^{DLA}	<0.50 ^{DLA}	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.000140	0.0400	0.0334	0.103	<0.000010
	Calcium (Ca)-Dissolved (mg/L)	242	576	606	266	69.9
	Chromium (Cr)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	0.0148	2.45	2.19	0.317	0.00194
	Copper (Cu)-Dissolved (mg/L)	<0.00040 ^{DLA}	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.00020
	Iron (Fe)-Dissolved (mg/L)	2.82	625	694	444	1.14
	Lead (Pb)-Dissolved (mg/L)	<0.00010 ^{DLA}	0.0115	0.0111	3.83	0.000246
	Lithium (Li)-Dissolved (mg/L)	0.0129	0.088	0.077	0.052	0.00548
	Magnesium (Mg)-Dissolved (mg/L)	43.9	217	212	778	12.4
	Manganese (Mn)-Dissolved (mg/L)	25.7	251	235	87.8	0.630
	Molybdenum (Mo)-Dissolved (mg/L)	0.00040	<0.0025 ^{DLA}	<0.0025 ^{DLA}	<0.0025 ^{DLA}	0.00412
	Nickel (Ni)-Dissolved (mg/L)	0.0064	3.23	3.02	0.480	0.00065
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.60 ^{DLA}	<0.60 ^{DLA}	<0.90 ^{DLA}	<0.30
	Potassium (K)-Dissolved (mg/L)	2.75	6.8	6.6	10.7	2.62
	Selenium (Se)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.00010
	Silicon (Si)-Dissolved (mg/L)	9.25	30.3	29.1	7.46	5.51
	Silver (Ag)-Dissolved (mg/L)	<0.000020 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.000010
	Sodium (Na)-Dissolved (mg/L)	13.7	28.6	28.2	49.7	5.95
	Strontium (Sr)-Dissolved (mg/L)	0.587	2.11	2.11	0.236	0.287
	Thallium (Tl)-Dissolved (mg/L)	<0.000020 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	0.00295	<0.000010
	Tin (Sn)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	0.019	0.039	0.040	0.034	0.010

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209492-11 gw 12-SEP-12 09:50 S1A	L1209492-12 gw 11-SEP-12 16:00 S2A	L1209492-13 gw 14-SEP-12 12:00 S2B	L1209492-14 gw 12-SEP-12 10:00 SRK05-SP-1A	L1209492-15 gw 12-SEP-12 10:30 SRK05-SP-1B
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	348	1260	6570	1880	1080
	pH (pH)	7.38	6.75	6.94	6.99	7.48
	Total Suspended Solids (mg/L)	1.6	445	451		
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	8.3	183	28.6		
	Alkalinity, Total (mg/L)	62.5	334	156 ^{DLM}	265	388
	Chloride (Cl) (mg/L)	<0.50	<5.0 ^{DLM}	<25 ^{DLM}		
	Sulfate (SO4) (mg/L)	120	493	6850	1140	318
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	LAB ^{DLA}	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0041	0.0143	<0.050 ^{DLA}	0.116	<0.050
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	<0.0050 ^{DLA}	<0.050	<0.050
	Arsenic (As)-Dissolved (mg/L)	0.00011	0.00017	<0.0050 ^{DLA}	<0.050	<0.050
	Barium (Ba)-Dissolved (mg/L)	0.0277	0.0183	0.0190 ^{DLA}	0.0394	0.0551
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	0.00011	<0.0050 ^{DLA}	0.0026	<0.0010
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.025 ^{DLA}	<0.050	<0.050
	Boron (B)-Dissolved (mg/L)	<0.010	<0.010	<0.50 ^{DLA}	<0.050	<0.050
	Cadmium (Cd)-Dissolved (mg/L)	0.000750	0.000619	0.0346	<0.0010	<0.0010
	Calcium (Ca)-Dissolved (mg/L)	34.6	195	466 ^{DLA}	299	169
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.00010	<0.0050 ^{DLA}	<0.0050	<0.0050
	Cobalt (Co)-Dissolved (mg/L)	0.00307	0.0142	0.721 ^{DLA}	0.0062	<0.0050
	Copper (Cu)-Dissolved (mg/L)	0.00067	0.00036	<0.010 ^{DLA}	<0.010	<0.010
	Iron (Fe)-Dissolved (mg/L)	3.14	20.0	7.67 ^{DLA}	77.1	13.8
	Lead (Pb)-Dissolved (mg/L)	0.000100	0.000079	<0.0025 ^{DLA}	<0.030	<0.030
	Lithium (Li)-Dissolved (mg/L)	0.0334	0.0527	0.146	0.108	0.037
	Magnesium (Mg)-Dissolved (mg/L)	57.9	75.3	1280	120	62.0
	Manganese (Mn)-Dissolved (mg/L)	5.27	2.78	131 ^{DLA}	2.50	0.889
	Molybdenum (Mo)-Dissolved (mg/L)	<0.000050	<0.000050	<0.0025 ^{DLA}	<0.010	<0.010
	Nickel (Ni)-Dissolved (mg/L)	0.00847	0.0322	1.90 ^{DLA}	0.0286	0.0095
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.90 ^{DLA}	<0.050	0.143
	Potassium (K)-Dissolved (mg/L)	2.72	5.37	13.2 ^{DLA}	6.56	4.89
	Selenium (Se)-Dissolved (mg/L)	<0.00010	<0.00010	<0.0050 ^{DLA}	<0.020	<0.020
	Silicon (Si)-Dissolved (mg/L)	9.16	15.4	11.3 ^{DLA}	14.9	12.9
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.00050 ^{DLA}	<0.010	<0.010
	Sodium (Na)-Dissolved (mg/L)	4.53	11.1	42.1	19.4	8.77
	Strontium (Sr)-Dissolved (mg/L)	0.236	0.693	1.95 ^{DLA}	1.39	0.719
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010	<0.00050 ^{DLA}	<0.030	<0.030
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.0050 ^{DLA}	<0.020	<0.020
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	0.045	<0.010	<0.010

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209492-16 gw 12-SEP-12 09:15 SRK05-SP-2	L1209492-17 gw 11-SEP-12 15:15 SRK05-SP-3A	L1209492-18 gw 11-SEP-12 15:35 SRK05-SP-3B	L1209492-19 gw 11-SEP-12 14:09 SRK05-SP-4A	L1209492-20 gw 11-SEP-12 09:45 SRK05-SP-5
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	362	1410	1120	1060	5640
	pH (pH)	7.87	6.06	7.28	7.30	7.27
	Total Suspended Solids (mg/L)				2.0	64.7
Anions and Nutrients	Acidity (as CaCO3) (mg/L)				125	914
	Alkalinity, Total (mg/L)	148	314	274	300	205
	Chloride (Cl) (mg/L)				<5.0 ^{DLM}	<25 ^{DLM}
	Sulfate (SO4) (mg/L)	54.1	655	446	377	5910
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	<0.050	<0.050	0.065	0.0343	<0.050 ^{DLA}
	Antimony (Sb)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.00010	<0.0050 ^{DLA}
	Arsenic (As)-Dissolved (mg/L)	<0.050	<0.050	<0.050	0.00386	<0.0050 ^{DLA}
	Barium (Ba)-Dissolved (mg/L)	0.0585	0.0304	0.0285	0.0140	0.0226 ^{DLA}
	Beryllium (Be)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	0.00095	<0.0050 ^{DLA}
	Bismuth (Bi)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.00050	<0.025 ^{DLA}
	Boron (B)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.010	<0.50 ^{DLA}
	Cadmium (Cd)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	0.000073	0.162
	Calcium (Ca)-Dissolved (mg/L)	59.4	225	178	164	417 ^{DLA}
	Chromium (Cr)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.00010	<0.0050 ^{DLA}
	Cobalt (Co)-Dissolved (mg/L)	0.0058	0.0050	0.0077	0.0107	0.876 ^{DLA}
	Copper (Cu)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.00020	<0.010 ^{DLA}
	Iron (Fe)-Dissolved (mg/L)	0.022	30.4	24.1	26.6	<0.50 ^{DLA}
	Lead (Pb)-Dissolved (mg/L)	<0.030	<0.030	<0.030	0.000178	<0.0025 ^{DLA}
	Lithium (Li)-Dissolved (mg/L)	0.012	0.062	0.064	0.0587	0.133
	Magnesium (Mg)-Dissolved (mg/L)	14.0	85.3	62.3	59.3	1110
	Manganese (Mn)-Dissolved (mg/L)	1.44	1.40	1.63	1.47	106 ^{DLA}
	Molybdenum (Mo)-Dissolved (mg/L)	<0.010	<0.010	<0.010	0.000094	<0.0025 ^{DLA}
	Nickel (Ni)-Dissolved (mg/L)	0.0054	0.0180	0.0222	0.0252	2.33 ^{DLA}
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.30	<0.90 ^{DLA}
	Potassium (K)-Dissolved (mg/L)	1.72	5.15	5.38	4.87	12.6 ^{DLA}
	Selenium (Se)-Dissolved (mg/L)	<0.020	<0.020	<0.020	<0.00010	<0.0050 ^{DLA}
	Silicon (Si)-Dissolved (mg/L)	7.05	12.5	12.2	15.2	12.6 ^{DLA}
	Silver (Ag)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.000010	<0.00050 ^{DLA}
	Sodium (Na)-Dissolved (mg/L)	5.74	10.2	9.80	10.4	43.0
	Strontium (Sr)-Dissolved (mg/L)	0.256	0.886	0.737	0.646	1.74 ^{DLA}
	Thallium (Tl)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.000010	<0.00050 ^{DLA}
	Tin (Sn)-Dissolved (mg/L)	<0.020	<0.020	<0.020	<0.00010	<0.0050 ^{DLA}
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	0.044

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209492-21 gw 14-SEP-12 12:00 BD-3	L1209492-22 gw 14-SEP-12 12:00 BD-4	L1209492-23 gw 12-SEP-12 09:10 SRK08-SP7A	L1209492-24 gw 12-SEP-12 09:20 SRK08-SP7B	L1209492-25 gw 12-SEP-12 10:40 SRK08-SP8A
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	1040	1380	920	207	2630
	pH (pH)	7.38	7.25	7.30	7.91	7.24
	Total Suspended Solids (mg/L)	32.2	4.6	5.8	12.5	7.4
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	171	62.5	27.7	12.5	142
	Alkalinity, Total (mg/L)	286	313	116	76.9	289
	Chloride (Cl) (mg/L)	<5.0 ^{DLM}	<5.0 ^{DLM}	<2.5 ^{DLM}	<0.50	<10 ^{DLM}
	Sulfate (SO4) (mg/L)	401	630	429	29.0	1900
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0321	0.0388	0.0415	0.0122	0.0119
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00020 ^{DLA}	<0.00010	<0.00010	<0.00050 ^{DLA}
	Arsenic (As)-Dissolved (mg/L)	0.00360	0.00229	0.00477	0.00162	0.00578
	Barium (Ba)-Dissolved (mg/L)	0.0141	0.0146	0.0118	0.0445	0.0208
	Beryllium (Be)-Dissolved (mg/L)	0.00098	0.00091 ^{DLA}	0.00044	<0.00010	<0.00050 ^{DLA}
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.0010 ^{DLA}	<0.00050	<0.00050	<0.0025 ^{DLA}
	Boron (B)-Dissolved (mg/L)	<0.010	<0.020 ^{DLA}	<0.010	<0.010	<0.050 ^{DLA}
	Cadmium (Cd)-Dissolved (mg/L)	0.000077	0.000083	0.000029	0.000011	<0.000050 ^{DLA}
	Calcium (Ca)-Dissolved (mg/L)	168	232 ^{DLA}	187	12.3	489 ^{DLA}
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.00020 ^{DLA}	<0.00010	0.00012	<0.00050 ^{DLA}
	Cobalt (Co)-Dissolved (mg/L)	0.0106	0.00603 ^{DLA}	0.00804	0.00069	0.0115 ^{DLA}
	Copper (Cu)-Dissolved (mg/L)	<0.00020	<0.00040 ^{DLA}	<0.00020	0.00034	<0.0010 ^{DLA}
	Iron (Fe)-Dissolved (mg/L)	26.0	30.8	20.9	1.91	46.5
	Lead (Pb)-Dissolved (mg/L)	0.000148	0.00022	0.000287	0.000087	0.00031
	Lithium (Li)-Dissolved (mg/L)	0.0613	0.0624	0.0537	0.0150	0.110
	Magnesium (Mg)-Dissolved (mg/L)	62.0	90.5	66.2	17.9	212
	Manganese (Mn)-Dissolved (mg/L)	1.48	1.41	1.72	1.05	3.73 ^{DLA}
	Molybdenum (Mo)-Dissolved (mg/L)	0.000096	0.00016	0.000083	0.000209	<0.00025 ^{DLA}
	Nickel (Ni)-Dissolved (mg/L)	0.0249	0.0196	0.0218	0.00495	0.0297
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	4.87	5.07 ^{DLA}	5.33	1.70	5.82 ^{DLA}
	Selenium (Se)-Dissolved (mg/L)	<0.00010	<0.00020 ^{DLA}	<0.00010	<0.00010	<0.00050 ^{DLA}
	Silicon (Si)-Dissolved (mg/L)	16.0	13.2 ^{DLA}	14.2	7.25	13.9 ^{DLA}
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000020 ^{DLA}	<0.000010	<0.000010	<0.000050 ^{DLA}
	Sodium (Na)-Dissolved (mg/L)	10.3	10.8	10.5	2.79	23.2
	Strontium (Sr)-Dissolved (mg/L)	0.684	0.917 ^{DLA}	0.665	0.101	2.01 ^{DLA}
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000020 ^{DLA}	<0.000010	<0.000010	<0.000050 ^{DLA}
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00020 ^{DLA}	<0.00010	<0.00010	<0.00050 ^{DLA}
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209492-26 gw 12-SEP-12 10:30 SRK08-SP8B	L1209492-27 gw 12-SEP-12 11:50 SRK08-SBR2	L1209492-28 gw 12-SEP-12 11:20 SRK08-SBR3	L1209492-29 gw 11-SEP-12 17:25 SRK08-SBR4	L1209492-30 gw 11-SEP-12 10:50 P09-S1S1
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	2730	1790	3310	3320	5420
	pH (pH)	7.28	7.43	7.82	7.43	7.31
	Total Suspended Solids (mg/L)	202	4.6	75.8	19.6	1500
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	163	107	28.5	219	464
	Alkalinity, Total (mg/L)	270	336	28.4	165	268
	Chloride (Cl) (mg/L)	<10 ^{DLM}	<10 ^{DLM}	<10 ^{DLM}	<10 ^{DLM}	<25 ^{DLM}
	Sulfate (SO4) (mg/L)	2110	1040	2570	3070	6330
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	<0.0050 ^{DLA}	0.0282 ^{DLA}	<0.0050 ^{DLA}	<0.020 ^{DLA}	<0.050 ^{DLA}
	Antimony (Sb)-Dissolved (mg/L)	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.0020 ^{DLA}	<0.0050 ^{DLA}
	Arsenic (As)-Dissolved (mg/L)	<0.00050 ^{DLA}	0.00115 ^{DLA}	<0.00050 ^{DLA}	<0.0020 ^{DLA}	<0.0050 ^{DLA}
	Barium (Ba)-Dissolved (mg/L)	0.0198 ^{DLA}	0.0216 ^{DLA}	0.0206 ^{DLA}	0.0161 ^{DLA}	0.0279 ^{DLA}
	Beryllium (Be)-Dissolved (mg/L)	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.0020 ^{DLA}	<0.0050 ^{DLA}
	Bismuth (Bi)-Dissolved (mg/L)	<0.0025 ^{DLA}	<0.0025 ^{DLA}	<0.0025 ^{DLA}	<0.010 ^{DLA}	<0.025 ^{DLA}
	Boron (B)-Dissolved (mg/L)	<0.050 ^{DLA}	<0.050 ^{DLA}	<0.050 ^{DLA}	<0.20 ^{DLA}	<0.50 ^{DLA}
	Cadmium (Cd)-Dissolved (mg/L)	0.000124 ^{DLA}	0.0148 ^{DLA}	<0.000050 ^{DLA}	0.0148 ^{DLA}	0.0983 ^{DLA}
	Calcium (Ca)-Dissolved (mg/L)	472 ^{DLA}	241 ^{DLA}	535 ^{DLA}	338 ^{DLA}	522 ^{DLA}
	Chromium (Cr)-Dissolved (mg/L)	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.0020 ^{DLA}	<0.0050 ^{DLA}
	Cobalt (Co)-Dissolved (mg/L)	0.0124 ^{DLA}	0.0774 ^{DLA}	0.00247 ^{DLA}	0.132 ^{DLA}	0.604 ^{DLA}
	Copper (Cu)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.0040 ^{DLA}	<0.010 ^{DLA}
	Iron (Fe)-Dissolved (mg/L)	15.8 ^{DLA}	18.4 ^{DLA}	<0.050 ^{DLA}	1.92 ^{DLA}	2.17 ^{DLA}
	Lead (Pb)-Dissolved (mg/L)	<0.00025 ^{DLA}	0.00090 ^{DLA}	<0.00025 ^{DLA}	<0.0010 ^{DLA}	<0.0025 ^{DLA}
	Lithium (Li)-Dissolved (mg/L)	0.0823 ^{DLA}	0.0556 ^{DLA}	0.0860 ^{DLA}	0.108 ^{DLA}	0.150 ^{DLA}
	Magnesium (Mg)-Dissolved (mg/L)	266 ^{DLA}	184 ^{DLA}	440 ^{DLA}	545 ^{DLA}	1390 ^{DLA}
	Manganese (Mn)-Dissolved (mg/L)	4.60 ^{DLA}	11.9 ^{DLA}	0.0181 ^{DLA}	33.3 ^{DLA}	83.6 ^{DLA}
	Molybdenum (Mo)-Dissolved (mg/L)	<0.00025 ^{DLA}	0.00028 ^{DLA}	<0.00025 ^{DLA}	<0.0010 ^{DLA}	<0.0025 ^{DLA}
	Nickel (Ni)-Dissolved (mg/L)	0.0260 ^{DLA}	0.241 ^{DLA}	0.0360 ^{DLA}	0.905 ^{DLA}	1.59 ^{DLA}
	Phosphorus (P)-Dissolved (mg/L)	<0.30 ^{DLA}	<0.30 ^{DLA}	<0.30 ^{DLA}	<0.30 ^{DLA}	<0.90 ^{DLA}
	Potassium (K)-Dissolved (mg/L)	5.88 ^{DLA}	6.19 ^{DLA}	8.41 ^{DLA}	9.7 ^{DLA}	12.5 ^{DLA}
	Selenium (Se)-Dissolved (mg/L)	<0.00050 ^{DLA}	<0.00050 ^{DLA}	0.00054 ^{DLA}	<0.0020 ^{DLA}	<0.0050 ^{DLA}
	Silicon (Si)-Dissolved (mg/L)	12.0 ^{DLA}	14.8 ^{DLA}	5.69 ^{DLA}	10.3 ^{DLA}	11.1 ^{DLA}
	Silver (Ag)-Dissolved (mg/L)	<0.000050 ^{DLA}	<0.000050 ^{DLA}	<0.000050 ^{DLA}	<0.00020 ^{DLA}	<0.00050 ^{DLA}
	Sodium (Na)-Dissolved (mg/L)	24.2 ^{DLA}	13.4 ^{DLA}	67.6 ^{DLA}	27.7 ^{DLA}	47.5 ^{DLA}
	Strontium (Sr)-Dissolved (mg/L)	1.75 ^{DLA}	0.846 ^{DLA}	1.45 ^{DLA}	1.36 ^{DLA}	2.19 ^{DLA}
	Thallium (Tl)-Dissolved (mg/L)	<0.000050 ^{DLA}	<0.000050 ^{DLA}	<0.000050 ^{DLA}	<0.00020 ^{DLA}	<0.00050 ^{DLA}
	Tin (Sn)-Dissolved (mg/L)	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.0020 ^{DLA}	<0.0050 ^{DLA}
	Titanium (Ti)-Dissolved (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	0.020 ^{DLA}	<0.010 ^{DLA}	0.049 ^{DLA}

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209492-31 gw 11-SEP-12 11:05 P09-S1S2	L1209492-32 gw 11-SEP-12 11:47 P09-S1S3	L1209492-33 gw 11-SEP-12 12:33 P09-S1S4	L1209492-34 gw 11-SEP-12 16:00 P09-S1S5	L1209492-35 gw 11-SEP-12 18:00 P96-9BR
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	5920	5580	4170		575
	pH (pH)	7.14	7.14	7.49		8.41
	Total Suspended Solids (mg/L)	47.0	329	555		72.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	838	880	176		<1.0
	Alkalinity, Total (mg/L)	156	131	373		142
	Chloride (Cl) (mg/L)	<25 ^{DLM}	<25 ^{DLM}	<25 ^{DLM}		1.28
	Sulfate (SO4) (mg/L)	7650	7180	4320		168
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	LAB	LAB	LAB	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.059	0.050	0.054	0.0033	0.0012
	Antimony (Sb)-Dissolved (mg/L)	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.0010 ^{DLA}	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.0010 ^{DLA}	0.00014	0.0188
	Barium (Ba)-Dissolved (mg/L)	0.0217	0.0216	0.0175	0.0256	0.0161
	Beryllium (Be)-Dissolved (mg/L)	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.0010 ^{DLA}	0.00018	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.025 ^{DLA}	<0.025 ^{DLA}	<0.0050 ^{DLA}	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	<0.50 ^{DLA}	<0.50 ^{DLA}	<0.10 ^{DLA}	0.013	0.038
	Cadmium (Cd)-Dissolved (mg/L)	0.203	0.219	0.0208	0.000011	<0.000010
	Calcium (Ca)-Dissolved (mg/L)	459	447	436	209	51.1
	Chromium (Cr)-Dissolved (mg/L)	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.0010 ^{DLA}	0.00019	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	1.14	0.359	0.0047	0.0158	<0.00010
	Copper (Cu)-Dissolved (mg/L)	<0.010 ^{DLA}	0.015	0.0051 ^{DLA}	<0.00020	<0.00020
	Iron (Fe)-Dissolved (mg/L)	4.66	0.57	<0.10 ^{DLA}	3.94	0.772
	Lead (Pb)-Dissolved (mg/L)	<0.0025 ^{DLA}	<0.0025 ^{DLA}	<0.00050 ^{DLA}	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.164	0.172	0.113	0.0700	0.0222
	Magnesium (Mg)-Dissolved (mg/L)	1470	1390	907	143	24.1
	Manganese (Mn)-Dissolved (mg/L)	127	121	9.76	8.23	0.103
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0025 ^{DLA}	<0.0025 ^{DLA}	<0.00050 ^{DLA}	0.000310	0.0113
	Nickel (Ni)-Dissolved (mg/L)	2.85	2.98	0.700	0.0491	<0.00050
	Phosphorus (P)-Dissolved (mg/L)	<0.90 ^{DLA}	<0.90 ^{DLA}	<0.60 ^{DLA}	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	15.1	14.7	10.7	6.05	1.87
	Selenium (Se)-Dissolved (mg/L)	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.0010 ^{DLA}	<0.00010	<0.00010
	Silicon (Si)-Dissolved (mg/L)	12.3	12.5	11.9	13.6	6.51
	Silver (Ag)-Dissolved (mg/L)	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00010 ^{DLA}	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	54.5	50.9	33.2	27.1	50.5
	Strontium (Sr)-Dissolved (mg/L)	1.91	1.87	1.84	0.933	1.15
	Thallium (Tl)-Dissolved (mg/L)	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00010 ^{DLA}	<0.000010	<0.000010
	Tin (Sn)-Dissolved (mg/L)	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.0010 ^{DLA}	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	0.047	0.047	0.039	<0.010	<0.010

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209492-36 gw 14-SEP-12 12:37 BD1	L1209492-37 gw 12-SEP-12 15:00 BH-5	L1209492-38 gw 12-SEP-12 14:30 BH-6	L1209492-39 gw 13-SEP-12 12:00 BH-8	L1209492-40 gw 12-SEP-12 16:45 BH-10A
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	573	520	658	3280	734
	pH (pH)	8.52	7.12	7.17	3.96	6.98
	Total Suspended Solids (mg/L)	76.0	109	159	93.0	22.8
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	<1.0	169	59.2	1980	31.7
	Alkalinity, Total (mg/L)	146	126	86.3	<2.0	226
	Chloride (Cl) (mg/L)	1.29	<0.50	<2.5	<10	<5.0
	Sulfate (SO4) (mg/L)	169	164	303	3300	202
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	LAB	LAB	LAB	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0016	0.0320	0.0242	14.5	0.0336
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.0020	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.0192	0.00011	<0.00010	<0.0020	0.00539
	Barium (Ba)-Dissolved (mg/L)	0.0160	0.0382	0.0384	0.0146	0.0113
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	0.00017	<0.00010	0.0106	0.00071
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.010	<0.00050
	Boron (B)-Dissolved (mg/L)	0.038	<0.010	<0.010	<0.20	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	<0.000010	0.00168	0.00325	0.578	0.000011
	Calcium (Ca)-Dissolved (mg/L)	50.7	69.5	99.4	285	98.6
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.0020	0.00012
	Cobalt (Co)-Dissolved (mg/L)	0.00010	0.0213	0.0628	0.553	0.0202
	Copper (Cu)-Dissolved (mg/L)	<0.00020	0.00108	0.00034	2.89	<0.00020
	Iron (Fe)-Dissolved (mg/L)	0.765	7.63	4.23	533	36.4
	Lead (Pb)-Dissolved (mg/L)	<0.000050	0.000224	0.000224	0.781	0.000101
	Lithium (Li)-Dissolved (mg/L)	0.0226	0.0244	0.0307	0.090	0.0630
	Magnesium (Mg)-Dissolved (mg/L)	23.7	23.8	26.5	191	34.5
	Manganese (Mn)-Dissolved (mg/L)	0.103	1.73	2.57	12.1	1.05
	Molybdenum (Mo)-Dissolved (mg/L)	0.0114	<0.000050	0.000075	<0.0010	0.000062
	Nickel (Ni)-Dissolved (mg/L)	<0.00050	0.0378	0.0626	0.488	0.0260
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	1.85	2.94	2.56	6.9	4.39
	Selenium (Se)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.0020	<0.00010
	Silicon (Si)-Dissolved (mg/L)	6.50	10.5	7.83	5.44	14.1
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.00020	<0.000010
	Sodium (Na)-Dissolved (mg/L)	50.1	7.39	5.82	29.6	12.1
	Strontium (Sr)-Dissolved (mg/L)	1.15	0.317	0.446	1.21	0.493
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	0.000122	0.000067	0.00645	<0.000010
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.0020	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209492-41 gw 12-SEP-12 17:30 BH-10B	L1209492-42 gw 12-SEP-12 14:00 P05-04	L1209492-43 gw 12-SEP-12 15:35 SRK08-P12A	L1209492-44 gw 12-SEP-12 16:00 SRK08-P12B	L1209492-45 gw 12-SEP-12 16:20 P96-6
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	965	444	1050	660	1770
	pH (pH)	7.10	8.10	7.13	7.79	8.02
	Total Suspended Solids (mg/L)	22.4	33.8	551	535	21.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	61.1	13.5	215	25.0	40.4
	Alkalinity, Total (mg/L)	402	109	528	332	297
	Chloride (Cl) (mg/L)	<5.0 ^{DLM}	<0.50	<5.0 ^{DLM}	<2.5 ^{DLM}	<10 ^{DLM}
	Sulfate (SO4) (mg/L)	214	134	132	85.5	1110
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0548	0.0465	0.0036	0.0399	<0.0020 ^{DLA}
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	0.00078	<0.00010	<0.00020 ^{DLA}
	Arsenic (As)-Dissolved (mg/L)	0.0376	<0.00010	0.00249	<0.00010	<0.00020 ^{DLA}
	Barium (Ba)-Dissolved (mg/L)	0.0123	0.0417	0.0368	0.0769	0.0247 ^{DLA}
	Beryllium (Be)-Dissolved (mg/L)	0.00144	<0.00010	0.00031	0.00043	<0.00020 ^{DLA}
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010 ^{DLA}
	Boron (B)-Dissolved (mg/L)	0.011	<0.010	<0.010	<0.010	<0.020 ^{DLA}
	Cadmium (Cd)-Dissolved (mg/L)	<0.000010	0.00329	0.000026	0.000068	0.000368
	Calcium (Ca)-Dissolved (mg/L)	145	73.3	197	114	368 ^{DLA}
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020 ^{DLA}
	Cobalt (Co)-Dissolved (mg/L)	0.00949	0.00098	0.00937	0.00279	<0.00020 ^{DLA}
	Copper (Cu)-Dissolved (mg/L)	<0.00020	0.00073	<0.00020	0.00027	0.00043
	Iron (Fe)-Dissolved (mg/L)	37.2	<0.010	3.40	4.24	0.080 ^{DLA}
	Lead (Pb)-Dissolved (mg/L)	0.000105	0.000157	0.000300	0.000353	<0.00010
	Lithium (Li)-Dissolved (mg/L)	0.114	0.0188	0.103	0.0856	0.0399
	Magnesium (Mg)-Dissolved (mg/L)	45.5	19.0	55.1	27.6	121
	Manganese (Mn)-Dissolved (mg/L)	0.841	0.0235	0.887	0.498	0.00166 ^{DLA}
	Molybdenum (Mo)-Dissolved (mg/L)	<0.000050	<0.000050	0.000190	<0.000050	<0.00010
	Nickel (Ni)-Dissolved (mg/L)	0.0219	0.0130	0.0154	0.00518	0.0175
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	6.36	1.64	3.32	3.22	4.68
	Selenium (Se)-Dissolved (mg/L)	<0.00010	0.00039	<0.00010	<0.00010	0.00400
	Silicon (Si)-Dissolved (mg/L)	16.8	6.21	11.5	9.35	9.21 ^{DLA}
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020
	Sodium (Na)-Dissolved (mg/L)	18.7	4.66	23.5	14.1	6.16
	Strontium (Sr)-Dissolved (mg/L)	0.786	0.348	1.09	0.703	0.970
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	0.000012	0.000098	0.000051	<0.000020 ^{DLA}
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020 ^{DLA}
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	0.018	<0.010	0.010

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209492-46 gw 14-SEP-12 12:00 BD-2	L1209492-47 gw 12-SEP-12 12:30 P96-7	L1209492-48 gw 14-SEP-12 12:00 BD-9		
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	386	2780	725		
	pH (pH)	8.33	8.33	8.33		
	Total Suspended Solids (mg/L)	10.8	47.4	12.0		
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	<1.0	40.0	93.8		
	Alkalinity, Total (mg/L)	175	204	210		
	Chloride (Cl) (mg/L)	<0.50	<10 ^{DLM}	<5.0 ^{DLM}		
	Sulfate (SO4) (mg/L)	45.4	2390	213		
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD		
	Aluminum (Al)-Dissolved (mg/L)	<0.0010	<0.0050 ^{DLA}	0.0376		
	Antimony (Sb)-Dissolved (mg/L)	0.00065	<0.00050 ^{DLA}	<0.00010		
	Arsenic (As)-Dissolved (mg/L)	0.120	<0.00050 ^{DLA}	0.00532		
	Barium (Ba)-Dissolved (mg/L)	0.0428	0.0119	0.0116		
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00050 ^{DLA}	0.00073		
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.0025 ^{DLA}	<0.00050		
	Boron (B)-Dissolved (mg/L)	<0.010	<0.050 ^{DLA}	<0.010		
	Cadmium (Cd)-Dissolved (mg/L)	<0.000010	<0.000050 ^{DLA}	0.000011		
	Calcium (Ca)-Dissolved (mg/L)	66.0	600	91.5		
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.00050 ^{DLA}	<0.00010		
	Cobalt (Co)-Dissolved (mg/L)	0.00023	<0.00050 ^{DLA}	0.0211		
	Copper (Cu)-Dissolved (mg/L)	<0.00020	<0.0010 ^{DLA}	<0.00020		
	Iron (Fe)-Dissolved (mg/L)	1.80	<0.050 ^{DLA}	36.5		
	Lead (Pb)-Dissolved (mg/L)	0.000449	<0.00025 ^{DLA}	0.000092		
	Lithium (Li)-Dissolved (mg/L)	0.00733	0.0319	0.0609		
	Magnesium (Mg)-Dissolved (mg/L)	12.8	257	35.7		
	Manganese (Mn)-Dissolved (mg/L)	0.0869	<0.00025 ^{DLA}	1.07		
	Molybdenum (Mo)-Dissolved (mg/L)	0.00978	0.00136	0.000065		
	Nickel (Ni)-Dissolved (mg/L)	<0.00050	<0.0025 ^{DLA}	0.0270		
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30		
	Potassium (K)-Dissolved (mg/L)	1.16	5.67	4.55		
	Selenium (Se)-Dissolved (mg/L)	<0.00010	0.00056	<0.00010		
	Silicon (Si)-Dissolved (mg/L)	6.88	5.80	14.0		
	Silver (Ag)-Dissolved (mg/L)	<0.000010	0.000061	<0.000010		
	Sodium (Na)-Dissolved (mg/L)	6.82	18.5	12.5		
	Strontium (Sr)-Dissolved (mg/L)	0.872	0.720	0.500		
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000050 ^{DLA}	<0.000010		
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00050 ^{DLA}	<0.00010		
	Titanium (Ti)-Dissolved (mg/L)	<0.010	0.019	0.011		

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

		Sample ID	Description	Sampled Date	Sampled Time	Client ID
		L1209492-1	gw	11-SEP-12	16:05	P03-01-02
		L1209492-2	gw	11-SEP-12	16:20	P03-01-08
		L1209492-3	gw	11-SEP-12	17:05	P03-03-02
		L1209492-4	gw	11-SEP-12	17:20	P03-03-04
		L1209492-5	gw	11-SEP-12	17:45	P03-03-09
Grouping	Analyte					
WATER						
Dissolved Metals	Uranium (U)-Dissolved (mg/L)	0.00233	<0.00020 ^{DLA}	0.00081	0.000135	<0.0010 ^{DLA}
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.020 ^{DLA}	<0.010 ^{DLA}	<0.0050 ^{DLA}	<0.10 ^{DLA}
	Zinc (Zn)-Dissolved (mg/L)	0.0458	134	75.3	11.6	732

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1209492-6	L1209492-7	L1209492-8	L1209492-9	L1209492-10
		Description	gw	gw	gw	gw	gw
		Sampled Date	11-SEP-12	11-SEP-12	11-SEP-12	11-SEP-12	11-SEP-12
		Sampled Time	12:20	10:00	10:30	11:00	
		Client ID	P03-05-04	P03-06-01	P03-06-02	P03-06-06	BD-7
Grouping	Analyte						
WATER							
Dissolved Metals	Uranium (U)-Dissolved (mg/L)		0.00254 ^{DLA}	0.00152 ^{DLA}	0.00133 ^{DLA}	0.0146 ^{DLA}	0.00236
	Vanadium (V)-Dissolved (mg/L)		<0.0020	<0.050	<0.050	<0.050	<0.0010
	Zinc (Zn)-Dissolved (mg/L)		0.0074	17.4	18.0	538	0.0469

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1209492-11	L1209492-12	L1209492-13	L1209492-14	L1209492-15
		Description	gw	gw	gw	gw	gw
		Sampled Date	12-SEP-12	11-SEP-12	14-SEP-12	12-SEP-12	12-SEP-12
		Sampled Time	09:50	16:00	12:00	10:00	10:30
		Client ID	S1A	S2A	S2B	SRK05-SP-1A	SRK05-SP-1B
Grouping	Analyte						
WATER							
Dissolved Metals	Uranium (U)-Dissolved (mg/L)	0.000055	0.00264	<0.00050 ^{DLA}	<0.50	<0.50	
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.050 ^{DLA}	<0.030	<0.030	
	Zinc (Zn)-Dissolved (mg/L)	1.28	2.40	389	2.29	0.315	

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209492-16 gw 12-SEP-12 09:15 SRK05-SP-2	L1209492-17 gw 11-SEP-12 15:15 SRK05-SP-3A	L1209492-18 gw 11-SEP-12 15:35 SRK05-SP-3B	L1209492-19 gw 11-SEP-12 14:09 SRK05-SP-4A	L1209492-20 gw 11-SEP-12 09:45 SRK05-SP-5
Grouping	Analyte					
WATER						
Dissolved Metals	Uranium (U)-Dissolved (mg/L)	<0.50	<0.50	<0.50	0.000859	0.00315 ^{DLA}
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.0010	<0.050
	Zinc (Zn)-Dissolved (mg/L)	0.170	1.47	1.26	1.26	368

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209492-21 gw 14-SEP-12 12:00 BD-3	L1209492-22 gw 14-SEP-12 12:00 BD-4	L1209492-23 gw 12-SEP-12 09:10 SRK08-SP7A	L1209492-24 gw 12-SEP-12 09:20 SRK08-SP7B	L1209492-25 gw 12-SEP-12 10:40 SRK08-SP8A
Grouping	Analyte					
WATER						
Dissolved Metals	Uranium (U)-Dissolved (mg/L)	0.000866	0.00262 ^{DLA}	0.000532	0.000100	0.00280 ^{DLA}
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0020 ^{DLA}	<0.0010	<0.0010	<0.0050 ^{DLA}
	Zinc (Zn)-Dissolved (mg/L)	1.25	1.36	0.575	1.23	0.677

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209492-26 gw 12-SEP-12 10:30 SRK08-SP8B	L1209492-27 gw 12-SEP-12 11:50 SRK08-SBR2	L1209492-28 gw 12-SEP-12 11:20 SRK08-SBR3	L1209492-29 gw 11-SEP-12 17:25 SRK08-SBR4	L1209492-30 gw 11-SEP-12 10:50 P09-S1S1
Grouping	Analyte					
WATER						
Dissolved Metals	Uranium (U)-Dissolved (mg/L)	0.00340 ^{DLA}	0.00183 ^{DLA}	0.0377 ^{DLA}	0.00213 ^{DLA}	0.00667 ^{DLA}
	Vanadium (V)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.020	<0.050
	Zinc (Zn)-Dissolved (mg/L)	0.688	34.0	0.0549	113	250

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209492-31 gw 11-SEP-12 11:05 P09-S1S2	L1209492-32 gw 11-SEP-12 11:47 P09-S1S3	L1209492-33 gw 11-SEP-12 12:33 P09-S1S4	L1209492-34 gw 11-SEP-12 16:00 P09-S1S5	L1209492-35 gw 11-SEP-12 18:00 P96-9BR
Grouping	Analyte					
WATER						
Dissolved Metals	Uranium (U)-Dissolved (mg/L)	0.00338	0.00202	0.0128	0.00361	0.000792
	Vanadium (V)-Dissolved (mg/L)	<0.050 ^{DLA}	<0.050 ^{DLA}	<0.010 ^{DLA}	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	461	460	92.8	1.80	<0.0010

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1209492-36	L1209492-37	L1209492-38	L1209492-39	L1209492-40
		Description	gw	gw	gw	gw	gw
		Sampled Date	14-SEP-12	12-SEP-12	12-SEP-12	13-SEP-12	12-SEP-12
		Sampled Time	12:37	15:00	14:30	12:00	16:45
		Client ID	BD1	BH-5	BH-6	BH-8	BH-10A
Grouping	Analyte						
WATER							
Dissolved Metals	Uranium (U)-Dissolved (mg/L)	0.000839	0.000116	0.00100	0.0298	0.000064	
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.020 ^{DLA}	<0.0010	
	Zinc (Zn)-Dissolved (mg/L)	<0.0010	4.04	6.97	196	4.91	

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209492-41 gw 12-SEP-12 17:30 BH-10B	L1209492-42 gw 12-SEP-12 14:00 P05-04	L1209492-43 gw 12-SEP-12 15:35 SRK08-P12A	L1209492-44 gw 12-SEP-12 16:00 SRK08-P12B	L1209492-45 gw 12-SEP-12 16:20 P96-6
Grouping	Analyte					
WATER						
Dissolved Metals	Uranium (U)-Dissolved (mg/L)	0.000020	0.000827	0.00809	0.000947	0.0682
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020 ^{DLA}
	Zinc (Zn)-Dissolved (mg/L)	3.20	2.18	1.06	0.185	0.508

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID Description Sampled Date Sampled Time Client ID	L1209492-46 gw 14-SEP-12 12:00 BD-2	L1209492-47 gw 12-SEP-12 12:30 P96-7	L1209492-48 gw 14-SEP-12 12:00 BD-9		
Grouping	Analyte						
WATER							
Dissolved Metals	Uranium (U)-Dissolved (mg/L)	0.00416	0.0305 ^{DLA}	0.000065			
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0050 ^{DLA}	<0.0010			
	Zinc (Zn)-Dissolved (mg/L)	0.0803	<0.0050	5.06			

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Duplicate	Arsenic (As)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Beryllium (Be)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Bismuth (Bi)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Chromium (Cr)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Copper (Cu)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Iron (Fe)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Lead (Pb)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Silver (Ag)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Tin (Sn)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Vanadium (V)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Aluminum (Al)-Dissolved	DLA	L1209492-13, -2, -32, -33, -37, -38, -39, -5, -9
Duplicate	Antimony (Sb)-Dissolved	DLA	L1209492-13, -2, -32, -33, -37, -38, -39, -5, -9
Duplicate	Arsenic (As)-Dissolved	DLA	L1209492-13, -2, -32, -33, -37, -38, -39, -5, -9
Duplicate	Beryllium (Be)-Dissolved	DLA	L1209492-13, -2, -32, -33, -37, -38, -39, -5, -9
Duplicate	Bismuth (Bi)-Dissolved	DLA	L1209492-13, -2, -32, -33, -37, -38, -39, -5, -9
Duplicate	Boron (B)-Dissolved	DLA	L1209492-13, -2, -32, -33, -37, -38, -39, -5, -9
Duplicate	Chromium (Cr)-Dissolved	DLA	L1209492-13, -2, -32, -33, -37, -38, -39, -5, -9
Duplicate	Iron (Fe)-Dissolved	DLA	L1209492-13, -2, -32, -33, -37, -38, -39, -5, -9
Duplicate	Lead (Pb)-Dissolved	DLA	L1209492-13, -2, -32, -33, -37, -38, -39, -5, -9
Duplicate	Lithium (Li)-Dissolved	DLA	L1209492-13, -2, -32, -33, -37, -38, -39, -5, -9
Duplicate	Selenium (Se)-Dissolved	DLA	L1209492-13, -2, -32, -33, -37, -38, -39, -5, -9
Duplicate	Silver (Ag)-Dissolved	DLA	L1209492-13, -2, -32, -33, -37, -38, -39, -5, -9
Duplicate	Thallium (Tl)-Dissolved	DLA	L1209492-13, -2, -32, -33, -37, -38, -39, -5, -9
Duplicate	Tin (Sn)-Dissolved	DLA	L1209492-13, -2, -32, -33, -37, -38, -39, -5, -9
Duplicate	Vanadium (V)-Dissolved	DLA	L1209492-13, -2, -32, -33, -37, -38, -39, -5, -9
Duplicate	Aluminum (Al)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Beryllium (Be)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Bismuth (Bi)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Boron (B)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Cobalt (Co)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Copper (Cu)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
Duplicate	Iron (Fe)-Dissolved	DLA	43, -44, -45, -46, -47, -48, -6, -7, -8 L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Lead (Pb)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Silver (Ag)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Tin (Sn)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Vanadium (V)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Antimony (Sb)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Bismuth (Bi)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Boron (B)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Chromium (Cr)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Lithium (Li)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Molybdenum (Mo)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Selenium (Se)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Silver (Ag)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Sodium (Na)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Tin (Sn)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Vanadium (V)-Dissolved	DLA	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Duplicate	Cadmium (Cd)-Dissolved	DLM	L1209492-13, -2, -32, -33, -37, -38, -39, -5, -9
Duplicate	Chloride (Cl)	DLM	L1209492-1, -10, -11, -12, -13, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -5, -6, -7, -8, -9
Duplicate	Chloride (Cl)	DLM	L1209492-1, -10, -11, -12, -13, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -5, -6, -7, -8, -9
Method Blank	Aluminum (Al)-Dissolved	MB-LOR	L1209492-34
Method Blank	Manganese (Mn)-Dissolved	MB-LOR	L1209492-34
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8

[illegible]

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Matrix Spike	Antimony (Sb)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Matrix Spike	Lead (Pb)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Matrix Spike	Potassium (K)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1209492-13, -2, -32, -33, -34, -37, -38, -39, -5, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Matrix Spike	Arsenic (As)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Matrix Spike	Uranium (U)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1209492-13, -2, -32, -33, -34, -37, -38, -39, -5, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Matrix Spike	Sulfate (SO4)	MS-B	L1209492-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -5, -6, -7, -8, -9
Matrix Spike	Arsenic (As)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8
Matrix Spike	Uranium (U)-Dissolved	MS-B	L1209492-1, -10, -11, -12, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -35, -36, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -6, -7, -8

Qualifiers for Individual Parameters Listed:

Qualifier	Description
DLA	Detection Limit Adjusted For required dilution
DLM	Detection Limit Adjusted For Sample Matrix Effects
MB-LOR	Method Blank exceeds ALS DQO. LORs adjusted for samples with positive hits below 5 times blank level. Please contact ALS if re-analysis is required.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-MAN-WR	Water	Acidity by Manual Titration	APHA 2310
"This analysis is carried out using procedures adapted from APHA Method 2310 ""Acidity"". Acidity is determined by potentiometric titration to a 8.3 pH endpoint."			
ALK-MAN-WR	Water	Alkalinity by Manual Titration	APHA 2320
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
MET-D-CCMS-VA	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030 B&E / EPA SW-846 6020A
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).			
MET-DIS-LOW-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA 3005A/6010B
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).			
PH-MAN-WR	Water	pH by Meter	APHA 4500-H (B)
"This analysis is carried out using procedures adapted from APHA Method 4500-H ""pH Value"". The pH is determined in the laboratory using a pH electrode."			
TSS-MAN-WR	Water	Total Suspended Solids by Gravimetric	APHA 2540 D
This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Suspended Solids are determined by filtering a sample through a glass fibre filter and drying the filter at 104 degrees celsius.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Reference Information

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WR	ALS ENVIRONMENTAL - WHITEHORSE, YUKON, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

10-173932	10-218110	10-218112	10-218113
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GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

mg/kg - milligrams per kilogram based on dry weight of sample.

mg/kg ww - milligrams per kilogram based on wet weight of sample.

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.

mg/L - milligrams per litre.

< - Less than.

D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



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Report To		Report Format / Distribution		Service Request: (Rush subject to availability - Contact ALS to confirm TAT)										
Company: Laberge Environmental Services		Standard: ☒ Other (specify):		Regular (Standard Turnaround Times - Business Days)										
Contact: Bonnie Burns		Select: PDF ☒ Excel ☒ Digital ☒ Fax		Priority (2-4 Business Days)-50% surcharge - Contact ALS to confirm TAT										
Address: PO Box 21072		Email 1: bonnieburns@northwestel.net		Emergency (1-2 Business Days)-100% Surcharge - Contact ALS to confirm TAT										
Whitehorse Yukon		Email 2:		Same Day or Weekend Emergency - Contact ALS to confirm TAT										
Phone: 867-668-6838 Fax:				Analysis Request										
Invoice To Same as Report? (circle) Yes or No (if No, provide details)		Client / Project Information		(Indicate Filtered or Preserved, F/P)										
Copy of Invoice with Report? (circle) Yes or No		Job #:												
Company:		PO / AFE:												
Contact:		LSD:												
Address:		Quote #: Q36128												
Phone:		ALS Contact:												
Fax:		Sampler:												
Lab Work Order # (lab use only) L1209492														
Sample #	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Acidity	Alkalinity	Chloride	Conductivity	pH	SO4	TSS	ICP metals scan	ICP metal scan	Number of Containers
	P03-01-02	11-Sept-12	16:05	GW	☒	☒	☒	☒	☒	☒	☒	☒	☒	2
	P03-01-08	"	16:20	GW	☒	☒	☒	☒	☒	☒	☒	☒	☒	2
	P03-03-02	"	17:05	GW	☒	☒	☒	☒	☒	☒	☒	☒	☒	2
	P03-03-04	"	17:20	GW	☒	☒	☒	☒	☒	☒	☒	☒	☒	2
	P03-03-09	"	17:45	GW	☒	☒	☒	☒	☒	☒	☒	☒	☒	2
	P03-05-04	"	12:20	GW	☒	☒	☒	☒	☒	☒	☒	☒	☒	2
	P03-06-01	"	10:00	GW	☒	☒	☒	☒	☒	☒	☒	☒	☒	2
	P03-06-02	"	10:30	GW	☒	☒	☒	☒	☒	☒	☒	☒	☒	2
	P03-06-06	"	11:00	GW	☒	☒	☒	☒	☒	☒	☒	☒	☒	2
	BD-7			GW	☒	☒	☒	☒	☒	☒	☒	☒	☒	2
	S1A	12-Sep-12	09:50	GW	☒	☒	☒	☒	☒	☒	☒	☒	☒	2
	~~S1A~~ S2A	11-Sept-12	16:00	GW	☒	☒	☒	☒	☒	☒	☒	☒	☒	2

Special Instructions / Regulation with water or land use (CCME- Freshwater Aquatic Life/BC CSR-Commercial/AB Tier 1-Natural/ETC) / Hazardous Details

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

SHIPMENT RELEASE (client use)			SHIPMENT RECEPTION (lab use only)			SHIPMENT VERIFICATION (lab use only)			Observations: Yes / No ? If Yes add SIF
Released by:	Date:	Time:	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	
			<i>[Signature]</i>	14-Sep-12	12:37	3.2 °C			



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Report To		Report Format / Distribution			Service Request: (Rush subject to availability - Contact ALS to confirm TAT)											
Company:		Standard: Other (specify):			Regular (Standard Turnaround Times - Business Days)											
Contact:		Select: PDF Excel Digital Fax			Priority (2-4 Business Days)-50% surcharge - Contact ALS to confirm TAT											
Address:		Email 1:			Emergency (1-2 Business Days)-100% Surcharge - Contact ALS to confirm TAT											
Phone:		Email 2:			Same Day or Weekend Emergency - Contact ALS to confirm TAT											
Fax:																
Invoice To		Client / Project Information			Analysis Request											
Same as Report? (circle) Yes or No (if No, provide details)		Job #:			(Indicate Filtered or Preserved, F/P)											
Copy of Invoice with Report? (circle) Yes or No		PO / AFE:														
Company:		LSD:														
Contact:		Quote #:														
Address:		ALS Contact:														
Phone:		Sampler:														
Fax:																
Lab Work Order # (lab use only)																
Sample #	Sample Identification (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Acidity	Alkalinity	Chloride	Conductivity	pH	SO4	TSS	ICP metals scan	ICP metals scan	ICP metals reduced	ICP metals reduced	Number of Containers
	S2B				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	SRK05-SP-1A	12-Sep-12	10:00	GW		✓		✓	✓	✓				✓		
	SRK05-SP-1B	12-Sep-12	10:30	GW		✓		✓	✓	✓				✓		
	SRK05-SP-2	12-Sep-12	9:15	GW		✓		✓	✓	✓				✓		
	SRK05-SP-3A	11-Sep-12	15:15	GW		✓		✓	✓	✓				✓		
	SRK05-SP-3B	11-Sep-12	15:35	GW		✓		✓	✓	✓				✓		
	SRK05-SP-4A	11-Sep-12	14:09	GW	✓	✓	✓	✓	✓	✓	✓	✓				
	SRK05-SP-5	11-Sep-12	9:45	GW	✓	✓	✓	✓	✓	✓	✓	✓				
	BD-3			GW	✓	✓	✓	✓	✓	✓	✓	✓				
	BD-4			GW	✓	✓	✓	✓	✓	✓	✓	✓				
	SRK08-SP7A	12-Sep-12	9:10	GW	✓	✓	✓	✓	✓	✓	✓	✓				
	SRK08-SP7B	12-Sep-12	9:20	GW	✓	✓	✓	✓	✓	✓	✓	✓				
Special Instructions / Regulation with water or land use (CCME- Freshwater Aquatic Life/BC CSR-Commercial/AB Tier 1-Natural/ETC) / Hazardous Details																
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.																
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.																
SHIPMENT RELEASE (client use)				SHIPMENT RECEPTION (lab use only)				SHIPMENT VERIFICATION (lab use only)								
Released by:	Date:	Time:		Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations: Yes / No ? If Yes add SIF					
							°C									



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Report To		Report Format / Distribution		Service Request (Rush subject to availability - Contact ALS to confirm TAT)												
Company:		Standard: Other (specify):		Regular (Standard Turnaround Times - Business Days)												
Contact:		Select: PDF Excel Digital Fax		Priority (2-4 Business Days)-50% surcharge - Contact ALS to confirm TAT												
Address:		Email 1:		Emergency (1-2 Business Days)-100% Surcharge - Contact ALS to confirm TAT												
Phone:		Email 2:		Same Day or Weekend Emergency - Contact ALS to confirm TAT												
Fax:				Analysis Request												
Invoice To		Client / Project Information		(Indicate Filtered or Preserved, F/P)												
Same as Report (circle) Yes or No (if No, provide details)		Job #:														
Copy of Invoice with Report? (circle) Yes or No		PO / A/E:														
Company:		LSB:														
Contact:		Quote #:														
Address:																
Phone:																
Fax:																
Lab Work Order # (lab use only)		ALS Contact:		Sampler:												
Sample #	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Acidity	Alkalinity	Chloride	Conductivity	pH	SO ₄	TSS	ICP metals scan	ICP metals scan	ICP metals reduced P	ICP metals reduced P	Number of Containers
	SRK08-SP8A	12-Sep-12	10:40	GW	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2
	SRK08-SP8B (not filtered or P)	12-Sep-12	10:30	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2
	SRK08-SBR2	12-Sep-12	11:50	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2
	SRK08-SBR3	12-Sep-12	11:20	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2
	SRK08-SBR4	11-Sep-12	17:25	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2
	P09-S151	"	10:50	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2
	P09-S152	"	11:05	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2
	P09-S153	"	11:47	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2
	P09-S154	"	12:33	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2
	P09-S155	"	16:00	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1
	SRK08-SP8B P96-9BR	12-Sep-12	18:00	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2
	BDI				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2

Special Instructions / Regulation with water or land use (CCME- Freshwater Aquatic Life/BC CSR-Commercial/AB Tier 1-Natural/ETC) / Hazardous Details

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SHIPMENT RELEASE (client use)			SHIPMENT RECEPTION (lab use only)				SHIPMENT VERIFICATION (lab use only)			
Released by:	Date:	Time:	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations: Yes / No ? If Yes add SIF
						°C				



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Report To		Report Format / Distribution		Service Request: (Rush subject to availability - Contact ALS to confirm TAT)												
Company:		Standard: Other (specify):		Regular (Standard Turnaround Times - Business Days)												
Contact:		Select: PDF Excel Digital Fax		Priority (2-4 Business Days)-50% surcharge - Contact ALS to confirm TAT												
Address:		Email 1:		Emergency (1-2 Business Days)-100% Surcharge - Contact ALS to confirm TAT												
Phone:		Email 2:		Same Day or Weekend Emergency - Contact ALS to confirm TAT												
Fax:				Analysis Request												
Invoice to: Same as Report? (circle) Yes or No (If No, provide details)		Client / Project Information		(Indicate Filtered or Preserved, F/P)												
Copy of Invoice with Report? (circle) Yes or No		Job #:														
Company:		PO / A/E:														
Contact:		LSD:														
Address:		Quote #:														
Phone:		ALS Contact:														
Fax:		Sampler:														
Lab Work Order # (lab use only)																
Sample #	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Acidity	Alkalinity	Chloride	Conductivity	pH	SO4	TSS	ICP Metals Scan	ICP Metals Scan	ICP Metals Scan	ICP Metals Scan	Number of Containers
	BH-5	12-Sep-12	15:00	GW	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	BH-6	"	14:30	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	BH-8	13-Sep-12	12:00	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	BH-10A	12-Sep-12	16:45	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	BH-10B	"	17:30	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	POS-04	"	14:00	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	SRK08-P12A	"	15:35	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	SRK08-P12B	"	16:00	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	P96-6	"	16:20	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	BD-2			"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	~~BD-2~~ P96-7	12-Sep-12	12:30	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	BD-9			"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Special Instructions / Regulation with water or land use (CCME- Freshwater Aquatic Life/BC CSR-Commercial/AB Tier 1-Natural/ETC) / Hazardous Details

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SHIPMENT RELEASE (client use)			SHIPMENT RECEPTION (lab use only)				SHIPMENT VERIFICATION (lab use only)			
Released by:	Date:	Time:	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations: Yes / No ? If Yes add SIF
						°C				



LABERGE ENVIRONMENTAL
ATTN: Bonnie Burns
PO Box 21072
Whitehorse YT Y1A 6P7

Date Received: 14-SEP-12
Report Date: 01-OCT-12 17:03 (MT)
Version: FINAL

Client Phone: 867-668-6838

Certificate of Analysis

Lab Work Order #: L1209555
Project P.O. #: NOT SUBMITTED
Job Reference:
C of C Numbers:
Legal Site Desc:

Elle Diniz
Account Manager

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ADDRESS: 8081 Lougheed Hwy, Suite 100, Burnaby, BC V5A 1W9 Canada | Phone: +1 604 253 4188 | Fax: +1 604 253 6700
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209555-1 gw 12-SEP-12 15:00 BH13B	L1209555-2 gw 12-SEP-12 13:50 BH14A	L1209555-3 gw 12-SEP-12 14:05 BH14B	L1209555-4 gw 13-SEP-12 11:00 SRK08-P9	L1209555-5 gw 13-SEP-12 10:00 TH86-2
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	1200	3160	2840	2050	308
	pH (pH)	7.48	8.11	8.02	8.09	7.85
	Total Suspended Solids (mg/L)		13.8	227	71.4	
Anions and Nutrients	Acidity (as CaCO3) (mg/L)		13.0	20.5	8.0	
	Alkalinity, Total (as CaCO3) (mg/L)	91.3	456	436	242 ^{DLM}	135
	Chloride (Cl) (mg/L)		14	13	<10	
	Sulfate (SO4) (mg/L)	649	2510	2100	1160	32.9
Dissolved Metals	Dissolved Metals Filtration Location	LAB	FIELD	FIELD	LAB	LAB
	Aluminum (Al)-Dissolved (mg/L)	0.120	<0.0050 ^{DLA}	0.0058 ^{DLA}	<0.0050 ^{DLA}	<0.050
	Antimony (Sb)-Dissolved (mg/L)	<0.050	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.050
	Arsenic (As)-Dissolved (mg/L)	<0.050	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.050
	Barium (Ba)-Dissolved (mg/L)	0.0266	0.0146 ^{DLA}	0.0153 ^{DLA}	0.0346 ^{DLA}	0.0862
	Beryllium (Be)-Dissolved (mg/L)	<0.0010	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.0010
	Bismuth (Bi)-Dissolved (mg/L)	<0.050	<0.0025 ^{DLA}	<0.0025 ^{DLA}	<0.0025 ^{DLA}	<0.050
	Boron (B)-Dissolved (mg/L)	<0.050	<0.050 ^{DLA}	<0.050 ^{DLA}	<0.050 ^{DLA}	<0.050
	Cadmium (Cd)-Dissolved (mg/L)	<0.0010	0.00114	0.000143	0.000062	<0.0010
	Calcium (Ca)-Dissolved (mg/L)	182	585 ^{DLA}	610 ^{DLA}	406 ^{DLA}	51.4
	Chromium (Cr)-Dissolved (mg/L)	<0.0050	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.0050
	Cobalt (Co)-Dissolved (mg/L)	<0.0050	<0.00050 ^{DLA}	<0.00050 ^{DLA}	0.00620 ^{DLA}	<0.0050
	Copper (Cu)-Dissolved (mg/L)	<0.010	0.0011 ^{DLA}	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.010
	Iron (Fe)-Dissolved (mg/L)	0.129	<0.050 ^{DLA}	<0.050 ^{DLA}	<0.050 ^{DLA}	0.018
	Lead (Pb)-Dissolved (mg/L)	<0.030	0.00245	0.0117	<0.00025 ^{DLA}	<0.030
	Lithium (Li)-Dissolved (mg/L)	0.018	0.0817	0.0601	0.0140	<0.010
	Magnesium (Mg)-Dissolved (mg/L)	68.1	389	314	106	9.77
	Manganese (Mn)-Dissolved (mg/L)	0.0101	0.00140	0.00214 ^{DLA}	0.583	0.0175
	Molybdenum (Mo)-Dissolved (mg/L)	<0.010	0.00033	<0.00025 ^{DLA}	0.00315	<0.010
	Nickel (Ni)-Dissolved (mg/L)	0.0105	0.0862	0.0056	0.0385	<0.0050
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.30	<0.30	<0.30	<0.050
	Potassium (K)-Dissolved (mg/L)	3.81	4.24	4.09	3.99	1.48
	Selenium (Se)-Dissolved (mg/L)	<0.020	0.00058	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.020
	Silicon (Si)-Dissolved (mg/L)	4.28	9.89 ^{DLA}	9.25 ^{DLA}	7.49 ^{DLA}	4.71
	Silver (Ag)-Dissolved (mg/L)	<0.010	<0.000050 ^{DLA}	<0.000050 ^{DLA}	<0.000050 ^{DLA}	<0.010
	Sodium (Na)-Dissolved (mg/L)	7.47	18.2	14.5	13.3	3.05
	Strontium (Sr)-Dissolved (mg/L)	0.957	3.14	3.05	7.71	0.250
	Thallium (Tl)-Dissolved (mg/L)	<0.030	<0.000050 ^{DLA}	<0.000050 ^{DLA}	<0.000050 ^{DLA}	<0.030
	Tin (Sn)-Dissolved (mg/L)	<0.020	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.020
	Titanium (Ti)-Dissolved (mg/L)	0.012	0.010	<0.010	0.011	<0.010

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209555-6 gw 13-SEP-12 09:35 TH86-5	L1209555-7 gw 12-SEP-12 10:30 P2001-2A	L1209555-8 gw 12-SEP-12 11:30 P2001-2B	L1209555-9 gw 11-SEP-12 16:15 P2001-3	L1209555-10 gw 13-SEP-12 11:23 P96-9A
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	819	2090	1530	807	2670
	pH (pH)	7.37	8.00	8.00	8.11	7.91
	Total Suspended Solids (mg/L)		762	296	482	6.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)		16.1	14.8	5.9	32.0
	Alkalinity, Total (as CaCO3) (mg/L)	474	562	475	459	626
	Chloride (Cl) (mg/L)		<10 ^{DLM}	<5.0 ^{DLM}	<5.0 ^{DLM}	<10 ^{DLM}
	Sulfate (SO4) (mg/L)	27.3	784	723	103	1980
Dissolved Metals	Dissolved Metals Filtration Location	LAB	LAB	LAB	LAB	FIELD
	Aluminum (Al)-Dissolved (mg/L)	<0.050	0.326	0.0021 ^{DLA}	0.0173	0.0037 ^{DLA}
	Antimony (Sb)-Dissolved (mg/L)	<0.050	0.00083	<0.00020	<0.00010	<0.00020
	Arsenic (As)-Dissolved (mg/L)	<0.050	0.00561	0.00052	0.00205	0.00042
	Barium (Ba)-Dissolved (mg/L)	0.135	0.0255 ^{DLA}	0.0170 ^{DLA}	0.0337	0.0569 ^{DLA}
	Beryllium (Be)-Dissolved (mg/L)	<0.0010	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00010	<0.00020 ^{DLA}
	Bismuth (Bi)-Dissolved (mg/L)	<0.050	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.00050	<0.0010 ^{DLA}
	Boron (B)-Dissolved (mg/L)	<0.050	<0.020 ^{DLA}	<0.020 ^{DLA}	0.026	<0.020 ^{DLA}
	Cadmium (Cd)-Dissolved (mg/L)	<0.0010	0.000396	0.000076	0.000517	0.000441
	Calcium (Ca)-Dissolved (mg/L)	136	332	265 ^{DLA}	96.9	397
	Chromium (Cr)-Dissolved (mg/L)	<0.0050	0.00081	<0.00020	0.00014	0.00037 ^{DLA}
	Cobalt (Co)-Dissolved (mg/L)	<0.0050	0.00340	0.00024	0.00057	<0.00020 ^{DLA}
	Copper (Cu)-Dissolved (mg/L)	<0.010	0.00145	0.00053 ^{DLA}	0.00198	0.00249 ^{DLA}
	Iron (Fe)-Dissolved (mg/L)	9.81	0.302	<0.020	0.013	<0.020 ^{DLA}
	Lead (Pb)-Dissolved (mg/L)	<0.030	0.00603	0.00012	<0.000050	<0.00010 ^{DLA}
	Lithium (Li)-Dissolved (mg/L)	0.059	0.0330	0.0243	0.0106	0.0139
	Magnesium (Mg)-Dissolved (mg/L)	25.8	170	126	66.3	395
	Manganese (Mn)-Dissolved (mg/L)	0.515	0.105	0.114	0.472	0.00451
	Molybdenum (Mo)-Dissolved (mg/L)	0.033	0.00168	0.00126	0.0127	0.00081
	Nickel (Ni)-Dissolved (mg/L)	0.0449	0.0150	0.0068	0.00302	0.0094
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	2.70	4.86	4.20	3.10	6.69
	Selenium (Se)-Dissolved (mg/L)	<0.020	0.00027	0.00036	0.00013	0.00047
	Silicon (Si)-Dissolved (mg/L)	9.17	7.52	5.46 ^{DLA}	6.55	6.52 ^{DLA}
	Silver (Ag)-Dissolved (mg/L)	<0.010	<0.000020 ^{DLA}	<0.000020 ^{DLA}	<0.000010	<0.000020 ^{DLA}
	Sodium (Na)-Dissolved (mg/L)	23.1	7.82	8.27	30.6	14.3
	Strontium (Sr)-Dissolved (mg/L)	0.952	1.62	1.22	0.647	1.38
	Thallium (Tl)-Dissolved (mg/L)	<0.030	0.000116 ^{DLA}	<0.000020 ^{DLA}	0.000019	<0.000020 ^{DLA}
	Tin (Sn)-Dissolved (mg/L)	<0.020	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00010	<0.00020 ^{DLA}
	Titanium (Ti)-Dissolved (mg/L)	<0.010	0.031	0.010	<0.010	0.010

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209555-11 gw 12-SEP-12 14:20 SRK05-05C	L1209555-12 gw BD-6	L1209555-13 gw 12-SEP-12 15:30 SRK05-07	L1209555-14 gw 12-SEP-12 14:30 SRK05-08	L1209555-15 gw 12-SEP-12 14:30 SRK05-9
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	403	809	3220	2410	2230
	pH (pH)	8.09	7.48	7.84	7.93	8.05
	Total Suspended Solids (mg/L)	13200		3930	529	994
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	2.6		36.2	20.9	11.4
	Alkalinity, Total (as CaCO3) (mg/L)	141	467	653	548	406
	Chloride (Cl) (mg/L)	<0.50		<10 ^{DLM}	<10 ^{DLM}	<10 ^{DLM}
	Sulfate (SO4) (mg/L)	95.5	25.6	1950	1230	1210
Dissolved Metals	Dissolved Metals Filtration Location	LAB	LAB	LAB	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.482	<0.050	0.0692	<0.0020 ^{DLA}	0.0028
	Antimony (Sb)-Dissolved (mg/L)	0.00044	<0.050	0.00111	<0.00020 ^{DLA}	0.00036
	Arsenic (As)-Dissolved (mg/L)	0.00397	<0.050	0.00464	0.00024	0.00106
	Barium (Ba)-Dissolved (mg/L)	0.0774	0.113	0.0481	0.0132	0.0591
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.0010	<0.00050 ^{DLA}	<0.00020 ^{DLA}	<0.00020 ^{DLA}
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.050	<0.0025 ^{DLA}	<0.0010 ^{DLA}	<0.0010 ^{DLA}
	Boron (B)-Dissolved (mg/L)	0.020	<0.050	<0.050 ^{DLA}	<0.020 ^{DLA}	<0.020 ^{DLA}
	Cadmium (Cd)-Dissolved (mg/L)	0.000061	<0.0010	0.000102	0.000023	0.000250
	Calcium (Ca)-Dissolved (mg/L)	56.7	135	476	363	292
	Chromium (Cr)-Dissolved (mg/L)	0.00128	<0.0050	0.00122	0.00050	0.00031
	Cobalt (Co)-Dissolved (mg/L)	0.00028	0.0053	0.00215	0.00048	<0.00020 ^{DLA}
	Copper (Cu)-Dissolved (mg/L)	0.00166	<0.010	0.0012	0.00242	0.00302
	Iron (Fe)-Dissolved (mg/L)	0.503	4.62	0.108	<0.020 ^{DLA}	<0.020 ^{DLA}
	Lead (Pb)-Dissolved (mg/L)	0.00351	<0.030	0.00078	0.00013	0.00047
	Lithium (Li)-Dissolved (mg/L)	0.00776	0.060	0.0072	0.0166	0.0085
	Magnesium (Mg)-Dissolved (mg/L)	14.7	26.0	297	208	220
	Manganese (Mn)-Dissolved (mg/L)	0.0828	0.515	0.0552	0.00066	0.00092
	Molybdenum (Mo)-Dissolved (mg/L)	0.0230	0.035	0.00577	0.00054	0.00175
	Nickel (Ni)-Dissolved (mg/L)	0.00256	0.0660	0.121	0.0014	0.0017
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.050	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	1.82	2.72	2.18	1.92	4.48
	Selenium (Se)-Dissolved (mg/L)	0.00010	<0.020	<0.00050 ^{DLA}	0.00046	0.00041
	Silicon (Si)-Dissolved (mg/L)	6.27	8.91	7.10	6.03	5.14
	Silver (Ag)-Dissolved (mg/L)	0.000012	<0.010	<0.000050 ^{DLA}	<0.000020 ^{DLA}	<0.000020 ^{DLA}
	Sodium (Na)-Dissolved (mg/L)	17.4	23.2	13.6	9.66	9.34
	Strontium (Sr)-Dissolved (mg/L)	0.615	0.951	1.41	1.41	0.963
	Thallium (Tl)-Dissolved (mg/L)	0.000049	<0.030	<0.000050 ^{DLA}	<0.000020 ^{DLA}	<0.000020 ^{DLA}
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.020	<0.00050 ^{DLA}	<0.00020 ^{DLA}	<0.00020 ^{DLA}
	Titanium (Ti)-Dissolved (mg/L)	0.034	<0.010	0.013	0.011	0.010

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209555-16 gw 12-SEP-12 08:30 V34	L1209555-17 gw 12-SEP-12 09:00 V35	L1209555-18 gw 11-SEP-12 16:15 V36	L1209555-19 gw 12-SEP-12 11:00 V37	L1209555-20 gw 13-SEP-12 13:39 SRK08-P14
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	1500	2120	2610	1080	1270
	pH (pH)	8.00	8.05	7.96	8.31	7.97
	Total Suspended Solids (mg/L)	185	12.0	29.6	290	183
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	21.8	12.4	20.0	<1.0	5.3
	Alkalinity, Total (as CaCO3) (mg/L)	857	447	523	465	234
	Chloride (Cl) (mg/L)	<5.0 ^{DLM}	<10 ^{DLM}	<10 ^{DLM}	<5.0 ^{DLM}	<5.0 ^{DLM}
	Sulfate (SO4) (mg/L)	454	1040	1460	230	558
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0011	<0.0020 ^{DLA}	<0.0020 ^{DLA}	<0.0010	0.0049 ^{DLA}
	Antimony (Sb)-Dissolved (mg/L)	0.00011	0.00024	<0.00020 ^{DLA}	0.00010	<0.00020 ^{DLA}
	Arsenic (As)-Dissolved (mg/L)	0.00073	0.00048	0.00148	0.00113	0.00035
	Barium (Ba)-Dissolved (mg/L)	0.0553	0.0122 ^{DLA}	0.00781 ^{DLA}	0.0765	0.0576 ^{DLA}
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00010	<0.00020 ^{DLA}
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.00050	<0.0010 ^{DLA}
	Boron (B)-Dissolved (mg/L)	0.019	<0.020 ^{DLA}	<0.020 ^{DLA}	0.039	<0.020 ^{DLA}
	Cadmium (Cd)-Dissolved (mg/L)	<0.000010	0.000088	0.000377	0.000014	0.000042
	Calcium (Ca)-Dissolved (mg/L)	190	322	399 ^{DLA}	89.1	243 ^{DLA}
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	0.00089 ^{DLA}	<0.00020	<0.00010	<0.00020 ^{DLA}
	Cobalt (Co)-Dissolved (mg/L)	0.00210	<0.00020	0.00200	0.00043	<0.00020 ^{DLA}
	Copper (Cu)-Dissolved (mg/L)	<0.00020	0.00049 ^{DLA}	0.00156 ^{DLA}	<0.00020	0.00334 ^{DLA}
	Iron (Fe)-Dissolved (mg/L)	0.659	<0.020 ^{DLA}	<0.020	0.083	<0.020
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.00010 ^{DLA}	0.00274	<0.000050	0.00038
	Lithium (Li)-Dissolved (mg/L)	0.0224	0.0185	0.0379	0.0269	0.0071
	Magnesium (Mg)-Dissolved (mg/L)	210	173	242	106	55.9
	Manganese (Mn)-Dissolved (mg/L)	0.0683	0.00197	0.0766	0.0858	0.00113
	Molybdenum (Mo)-Dissolved (mg/L)	0.00176	0.00115	0.00072	0.0222	0.00117 ^{DLA}
	Nickel (Ni)-Dissolved (mg/L)	0.00418	0.0032	0.0112	0.00217	<0.0010
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	4.58	3.59	5.03	5.71	0.98
	Selenium (Se)-Dissolved (mg/L)	<0.00010	0.00210	0.00067	<0.00010	0.00180
	Silicon (Si)-Dissolved (mg/L)	6.46	5.73 ^{DLA}	6.62 ^{DLA}	3.11	5.31 ^{DLA}
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000020	<0.000020	<0.000010	<0.000020
	Sodium (Na)-Dissolved (mg/L)	7.54	6.76	8.05	23.6	4.11
	Strontium (Sr)-Dissolved (mg/L)	1.55	0.787	1.91	0.630	1.06
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	0.000020 ^{DLA}	0.000070 ^{DLA}	0.000015	<0.000020 ^{DLA}
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00010	<0.00020 ^{DLA}
	Titanium (Ti)-Dissolved (mg/L)	<0.010	0.010	<0.010	<0.010	<0.010

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209555-21 gw 13-SEP-12 16:40 SRK08-P15	L1209555-22 gw 13-SEP-12 09:00 P09-G51A	L1209555-23 gw 13-SEP-12 10:00 P09-GS1B	L1209555-24 gw BD-5	L1209555-25 gw 13-SEP-12 12:15 P09-LCD 1
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	1960	1470	1460	1270	860
	pH (pH)	7.91	7.88	8.03	8.07	8.10
	Total Suspended Solids (mg/L)	1030	2.8	263	29.4	3150
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	10.5	19.5	8.4	5.8	5.9
	Alkalinity, Total (as CaCO3) (mg/L)	367	283	252	233	302
	Chloride (Cl) (mg/L)	<10 ^{DLM}	<5.0 ^{DLM}	<5.0 ^{DLM}	<5.0 ^{DLM}	<5.0 ^{DLM}
	Sulfate (SO4) (mg/L)	970	696	699	565	228
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	LAB	FIELD	LAB
	Aluminum (Al)-Dissolved (mg/L)	<0.0020 ^{DLA}	0.0037	<0.0020 ^{DLA}	0.0032	0.0045
	Antimony (Sb)-Dissolved (mg/L)	0.00025	0.0245	0.00724	0.00033	0.00048
	Arsenic (As)-Dissolved (mg/L)	0.00025	0.157	0.284	0.00028	0.0189
	Barium (Ba)-Dissolved (mg/L)	0.0387	0.0115	0.0198	0.0564	0.0384
	Beryllium (Be)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.00050
	Boron (B)-Dissolved (mg/L)	<0.020 ^{DLA}	<0.020 ^{DLA}	<0.020 ^{DLA}	<0.020 ^{DLA}	0.018
	Cadmium (Cd)-Dissolved (mg/L)	0.000091	0.00399	0.000268	0.000042	0.000265
	Calcium (Ca)-Dissolved (mg/L)	348	231	221	241	134
	Chromium (Cr)-Dissolved (mg/L)	0.00085	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00020 ^{DLA}	0.00012
	Cobalt (Co)-Dissolved (mg/L)	0.00032	0.0857	0.0187	<0.00020 ^{DLA}	0.00054
	Copper (Cu)-Dissolved (mg/L)	0.00085	<0.00040 ^{DLA}	<0.00040 ^{DLA}	0.00323	<0.00020
	Iron (Fe)-Dissolved (mg/L)	<0.020 ^{DLA}	1.51	<0.020 ^{DLA}	<0.020 ^{DLA}	<0.010
	Lead (Pb)-Dissolved (mg/L)	<0.00010 ^{DLA}	0.0612	<0.00010 ^{DLA}	0.00011	0.0112
	Lithium (Li)-Dissolved (mg/L)	0.0118	0.0127	0.0117	0.0071	0.0100
	Magnesium (Mg)-Dissolved (mg/L)	131	97.1	86.5	56.1	39.5
	Manganese (Mn)-Dissolved (mg/L)	0.00188	2.27	1.10	0.00045	0.589
	Molybdenum (Mo)-Dissolved (mg/L)	0.00077	0.00200	0.00286	0.00114	0.00581
	Nickel (Ni)-Dissolved (mg/L)	0.0178	0.270	0.0959	0.0010	0.00136
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	2.00	4.51	3.42	0.96	2.93
	Selenium (Se)-Dissolved (mg/L)	0.00159	<0.00020 ^{DLA}	<0.00020 ^{DLA}	0.00177	<0.00010
	Silicon (Si)-Dissolved (mg/L)	5.72	2.31	4.36	5.25	6.79
	Silver (Ag)-Dissolved (mg/L)	<0.000020 ^{DLA}	<0.000020 ^{DLA}	<0.000020 ^{DLA}	<0.000020 ^{DLA}	<0.000010
	Sodium (Na)-Dissolved (mg/L)	5.42	12.1	17.5	3.99	15.7
	Strontium (Sr)-Dissolved (mg/L)	1.12	0.860	1.23	1.10	0.851
	Thallium (Tl)-Dissolved (mg/L)	<0.000020 ^{DLA}	0.00702	0.000476	<0.000020 ^{DLA}	0.000031
	Tin (Sn)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	0.010	<0.010	<0.010	<0.010	<0.010

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209555-26 gw 13-SEP-12 12:10 P09-LCD 4	L1209555-27 gw 13-SEP-12 12:04 P09-LCD 6	L1209555-28 gw 11-SEP-12 14:30 P09-VC1	L1209555-29 gw 11-SEP-12 12:00 P09-VC2	L1209555-30 gw FB
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	910	889	352	395	<2.0
	pH (pH)	8.24	8.16	8.21	8.05	6.12
	Total Suspended Solids (mg/L)	448	6400	5.4	15.5	<1.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	3.6	4.3	1.6	2.7	1.8
	Alkalinity, Total (as CaCO3) (mg/L)	348	274	124	178	<1.5 ^{DLB}
	Chloride (Cl) (mg/L)	<5.0 ^{DLM}	<0.50	<0.50	<0.50	<0.50
	Sulfate (SO4) (mg/L)	193	264	68.7	44.6	<0.50
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	LAB	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	1.42	5.88	0.0018	<0.0010	<0.0010
	Antimony (Sb)-Dissolved (mg/L)	0.00096	0.00086	<0.00010	0.00060	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.00529	0.117	0.00201	0.123	<0.00010
	Barium (Ba)-Dissolved (mg/L)	0.120	0.334	0.0159	0.0452	<0.000050
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	0.00029	<0.00010	<0.00010	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	0.015	0.018	<0.010	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.000030	0.000475	<0.000010	<0.000010	<0.000010
	Calcium (Ca)-Dissolved (mg/L)	106	152	48.0	67.7	<0.050
	Chromium (Cr)-Dissolved (mg/L)	0.00325	0.0201	<0.00010	<0.00010	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	0.00063	0.00709	<0.00010	0.00021	<0.00010
	Copper (Cu)-Dissolved (mg/L)	0.00606	0.0307	<0.00020	<0.00020	<0.00020
	Iron (Fe)-Dissolved (mg/L)	0.800	12.7	0.325	1.81	<0.010
	Lead (Pb)-Dissolved (mg/L)	0.0120	0.267	<0.000050	0.000585	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.00825	0.0156	0.00314	0.00748	<0.00050
	Magnesium (Mg)-Dissolved (mg/L)	28.2	48.1	9.64	13.2	<0.10
	Manganese (Mn)-Dissolved (mg/L)	0.0116	0.680	0.0146	0.0862	<0.000050
	Molybdenum (Mo)-Dissolved (mg/L)	0.00741	0.00209	0.000356	0.0103	<0.000050
	Nickel (Ni)-Dissolved (mg/L)	0.00684	0.0227	<0.00050	<0.00050	<0.00050
	Phosphorus (P)-Dissolved (mg/L)	<0.30	0.51	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	2.36	3.44	1.04	1.19	<0.050
	Selenium (Se)-Dissolved (mg/L)	0.00037	0.00011	<0.00010	<0.00010	<0.00010
	Silicon (Si)-Dissolved (mg/L)	8.76	20.7	5.94	6.74	<0.050
	Silver (Ag)-Dissolved (mg/L)	0.000036	0.000369	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	87.1	6.53	19.6	6.90	<0.050
	Strontium (Sr)-Dissolved (mg/L)	0.510	0.832	0.606	0.927	<0.00020
	Thallium (Tl)-Dissolved (mg/L)	0.000046	0.000151	<0.000010	<0.000010	<0.000010
	Tin (Sn)-Dissolved (mg/L)	0.00017	0.00017	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	0.106	0.305	<0.010	<0.010	<0.010

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209555-31 gw TRAVEL BLANK				
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	<2.0				
	pH (pH)	5.88				
	Total Suspended Solids (mg/L)	<1.0				
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	1.9				
	Alkalinity, Total (as CaCO3) (mg/L)	<1.5 ^{DLB}				
	Chloride (Cl) (mg/L)	<0.50				
	Sulfate (SO4) (mg/L)	<0.50				
Dissolved Metals	Dissolved Metals Filtration Location	FIELD				
	Aluminum (Al)-Dissolved (mg/L)	<0.0010				
	Antimony (Sb)-Dissolved (mg/L)	<0.00010				
	Arsenic (As)-Dissolved (mg/L)	<0.00010				
	Barium (Ba)-Dissolved (mg/L)	<0.000050				
	Beryllium (Be)-Dissolved (mg/L)	<0.00010				
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050				
	Boron (B)-Dissolved (mg/L)	<0.010				
	Cadmium (Cd)-Dissolved (mg/L)	<0.000010				
	Calcium (Ca)-Dissolved (mg/L)	<0.050				
	Chromium (Cr)-Dissolved (mg/L)	<0.00010				
	Cobalt (Co)-Dissolved (mg/L)	<0.00010				
	Copper (Cu)-Dissolved (mg/L)	<0.00020				
	Iron (Fe)-Dissolved (mg/L)	<0.010				
	Lead (Pb)-Dissolved (mg/L)	<0.000050				
	Lithium (Li)-Dissolved (mg/L)	<0.00050				
	Magnesium (Mg)-Dissolved (mg/L)	<0.10				
	Manganese (Mn)-Dissolved (mg/L)	<0.000050				
	Molybdenum (Mo)-Dissolved (mg/L)	<0.000050				
	Nickel (Ni)-Dissolved (mg/L)	<0.00050				
	Phosphorus (P)-Dissolved (mg/L)	<0.30				
	Potassium (K)-Dissolved (mg/L)	<0.050				
	Selenium (Se)-Dissolved (mg/L)	<0.00010				
	Silicon (Si)-Dissolved (mg/L)	<0.050				
	Silver (Ag)-Dissolved (mg/L)	<0.000010				
	Sodium (Na)-Dissolved (mg/L)	<0.050				
	Strontium (Sr)-Dissolved (mg/L)	<0.00020				
	Thallium (Tl)-Dissolved (mg/L)	<0.000010				
	Tin (Sn)-Dissolved (mg/L)	<0.00010				
	Titanium (Ti)-Dissolved (mg/L)	<0.010				

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1209555-1	L1209555-2	L1209555-3	L1209555-4	L1209555-5
		Description	gw	gw	gw	gw	gw
		Sampled Date	12-SEP-12	12-SEP-12	12-SEP-12	13-SEP-12	13-SEP-12
		Sampled Time	15:00	13:50	14:05	11:00	10:00
		Client ID	BH13B	BH14A	BH14B	SRK08-P9	TH86-2
Grouping	Analyte						
WATER							
Dissolved Metals	Uranium (U)-Dissolved (mg/L)	<0.50	0.145	0.160	0.00573	<0.50	
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.030	
	Zinc (Zn)-Dissolved (mg/L)	0.0058	8.17	0.527	0.0097	<0.0040	

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1209555-6	L1209555-7	L1209555-8	L1209555-9	L1209555-10
		Description	gw	gw	gw	gw	gw
		Sampled Date	13-SEP-12	12-SEP-12	12-SEP-12	11-SEP-12	13-SEP-12
		Sampled Time	09:35	10:30	11:30	16:15	11:23
		Client ID	TH86-5	P2001-2A	P2001-2B	P2001-3	P96-9A
Grouping	Analyte						
WATER							
Dissolved Metals	Uranium (U)-Dissolved (mg/L)	<0.50	0.0512	0.0334	0.0128	0.0541	
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.0020 ^{DLA}	<0.0020 ^{DLA}	<0.0010	<0.0020 ^{DLA}	
	Zinc (Zn)-Dissolved (mg/L)	<0.0040	0.0258	0.0063	0.0041	0.0228	

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209555-11 gw 12-SEP-12 14:20 SRK05-05C	L1209555-12 gw BD-6	L1209555-13 gw 12-SEP-12 15:30 SRK05-07	L1209555-14 gw 12-SEP-12 14:30 SRK05-08	L1209555-15 gw 12-SEP-12 14:30 SRK05-9
Grouping	Analyte					
WATER						
Dissolved Metals	Uranium (U)-Dissolved (mg/L)	0.00208	<0.50	0.0305 ^{DLA}	0.0258 ^{DLA}	0.0348 ^{DLA}
	Vanadium (V)-Dissolved (mg/L)	0.0018	<0.030	<0.0050	<0.0020 ^{DLA}	<0.0020 ^{DLA}
	Zinc (Zn)-Dissolved (mg/L)	0.0056	<0.0040	0.0089	<0.0020 ^{DLA}	0.0056

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1209555-16	L1209555-17	L1209555-18	L1209555-19	L1209555-20
		Description	gw	gw	gw	gw	gw
		Sampled Date	12-SEP-12	12-SEP-12	11-SEP-12	12-SEP-12	13-SEP-12
		Sampled Time	08:30	09:00	16:15	11:00	13:39
		Client ID	V34	V35	V36	V37	SRK08-P14
Grouping	Analyte						
WATER							
Dissolved Metals	Uranium (U)-Dissolved (mg/L)		0.0200	0.0580	0.0496	0.00256	0.00478
	Vanadium (V)-Dissolved (mg/L)		<0.0010	<0.0020 ^{DLA}	<0.0020 ^{DLA}	<0.0010	<0.0020 ^{DLA}
	Zinc (Zn)-Dissolved (mg/L)		0.0031	0.0080	0.0562	0.0114	0.0062

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1209555-21 gw 13-SEP-12 16:40 SRK08-P15	L1209555-22 gw 13-SEP-12 09:00 P09-G51A	L1209555-23 gw 13-SEP-12 10:00 P09-GS1B	L1209555-24 gw BD-5	L1209555-25 gw 13-SEP-12 12:15 P09-LCD 1
Grouping	Analyte					
WATER						
Dissolved Metals	Uranium (U)-Dissolved (mg/L)	0.0244 ^{DLA}	0.0214 ^{DLA}	0.0138 ^{DLA}	0.00476 ^{DLA}	0.0108
	Vanadium (V)-Dissolved (mg/L)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.0046	9.06	2.87	0.0049	0.0047

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1209555-26	L1209555-27	L1209555-28	L1209555-29	L1209555-30
		Description	gw	gw	gw	gw	gw
		Sampled Date	13-SEP-12	13-SEP-12	11-SEP-12	11-SEP-12	
		Sampled Time	12:10	12:04	14:30	12:00	
		Client ID	P09-LCD 4	P09-LCD 6	P09-VC1	P09-VC2	FB
Grouping	Analyte						
WATER							
Dissolved Metals	Uranium (U)-Dissolved (mg/L)		0.00555	0.00385	0.00553	0.00444	<0.000010
	Vanadium (V)-Dissolved (mg/L)		0.0035	0.0126	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)		0.0069	0.106	<0.0010	0.0839	<0.0010

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Duplicate	Arsenic (As)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Beryllium (Be)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Bismuth (Bi)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Chromium (Cr)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Copper (Cu)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Iron (Fe)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Lead (Pb)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Silver (Ag)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Tin (Sn)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Vanadium (V)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Aluminum (Al)-Dissolved	DLA	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Duplicate	Antimony (Sb)-Dissolved	DLA	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Duplicate	Arsenic (As)-Dissolved	DLA	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Duplicate	Beryllium (Be)-Dissolved	DLA	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Duplicate	Bismuth (Bi)-Dissolved	DLA	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Duplicate	Boron (B)-Dissolved	DLA	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Duplicate	Chromium (Cr)-Dissolved	DLA	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Duplicate	Iron (Fe)-Dissolved	DLA	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Duplicate	Lead (Pb)-Dissolved	DLA	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Duplicate	Lithium (Li)-Dissolved	DLA	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Duplicate	Selenium (Se)-Dissolved	DLA	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Duplicate	Silver (Ag)-Dissolved	DLA	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Duplicate	Thallium (Tl)-Dissolved	DLA	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Duplicate	Tin (Sn)-Dissolved	DLA	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Duplicate	Vanadium (V)-Dissolved	DLA	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Duplicate	Aluminum (Al)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Beryllium (Be)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Bismuth (Bi)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Boron (B)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Cobalt (Co)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Copper (Cu)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Iron (Fe)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Lead (Pb)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Silver (Ag)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Tin (Sn)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Vanadium (V)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Antimony (Sb)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Bismuth (Bi)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
Duplicate	Boron (B)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Chromium (Cr)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Lithium (Li)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Molybdenum (Mo)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Selenium (Se)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Silver (Ag)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Sodium (Na)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Tin (Sn)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Vanadium (V)-Dissolved	DLA	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Duplicate	Cadmium (Cd)-Dissolved	DLM	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Matrix Spike	Nickel (Ni)-Dissolved	MS-B	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Matrix Spike	Potassium (K)-Dissolved	MS-B	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Matrix Spike	Selenium (Se)-Dissolved	MS-B	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Matrix Spike	Uranium (U)-Dissolved	MS-B	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Uranium (U)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Sulfate (SO4)	MS-B	L1209555-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L1209555-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22,

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
			-24, -26, -28, -29, -3, -30, -31
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1209555-1, -11, -12, -13, -23, -25, -27, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1209555-1, -11, -12, -13, -23, -25, -27, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1209555-1, -11, -12, -13, -23, -25, -27, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Antimony (Sb)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Lead (Pb)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Potassium (K)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1209555-11, -13, -23, -25, -27, -4, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Arsenic (As)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Uranium (U)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1209555-1, -11, -12, -13, -23, -25, -27, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1209555-1, -11, -12, -13, -23, -25, -27, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1209555-1, -11, -12, -13, -23, -25, -27, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Arsenic (As)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31
Matrix Spike	Uranium (U)-Dissolved	MS-B	L1209555-10, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -24, -26, -28, -29, -3, -30, -31

Qualifiers for Individual Parameters Listed:

Qualifier	Description
DLA	Detection Limit Adjusted For required dilution
DLB	Detection limit was raised due to detection of analyte at comparable level in Method Blank.
DLM	Detection Limit Adjusted For Sample Matrix Effects
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-PCT-VA	Water	Acidity by Automatic Titration	APHA 2310 "Acidity"
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
ACY-PCT-VA	Water	Acidity by Automatic Titration	APHA 2310 Acidity
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
ALK-PCT-VA	Water	Alkalinity by Auto. Titration	APHA 2320 "Alkalinity"
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
ALK-PCT-VA	Water	Alkalinity by Auto. Titration	APHA 2320 Alkalinity
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
EC-MAN-VA	Water	Conductivity (Manual)	APHA 2510 "Conductivity"
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
EC-MAN-VA	Water	Conductivity (Manual)	APHA 2510 Conductivity
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
MET-D-CCMS-VA	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030 B&E / EPA SW-846 6020A
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).			
MET-DIS-LOW-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA 3005A/6010B

Reference Information

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

PH-MAN-VA Water pH by Manual Meter APHA 4500-H "pH Value"

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode.

It is recommended that this analysis be conducted in the field.

PH-MAN-VA Water pH by Manual Meter APHA 4500-H pH Value

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode.

It is recommended that this analysis be conducted in the field.

PH-PCT-VA Water pH by Meter (Automated) APHA 4500-H "pH Value"

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode.

It is recommended that this analysis be conducted in the field.

PH-PCT-VA Water pH by Meter (Automated) APHA 4500-H pH Value

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode.

It is recommended that this analysis be conducted in the field.

TSS-MAN-WR Water Total Suspended Solids by Gravimetric APHA 2540 D

This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Suspended Solids are determined by filtering a sample through a glass fibre filter and drying the filter at 104 degrees celsius.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WR	ALS ENVIRONMENTAL - WHITEHORSE, YUKON, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

mg/kg - milligrams per kilogram based on dry weight of sample.

mg/kg ww - milligrams per kilogram based on wet weight of sample.

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.

mg/L - milligrams per litre.

< - Less than.

D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

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Client: LABERGE ENVIRONMENTAL
PO Box 21072
Whitehorse YT Y1A 6P7

Contact: Bonnie Burns

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-PCT-VA		Water						
Batch	R2444903							
WG1554901-10 CRM		VA-ACY-CONTROL						
Acidity (as CaCO3)			105.9		%		85-115	27-SEP-12
WG1554901-11 CRM		VA-ACY-CONTROL						
Acidity (as CaCO3)			106.8		%		85-115	27-SEP-12
WG1554901-12 CRM		VA-ACY-CONTROL						
Acidity (as CaCO3)			107.3		%		85-115	27-SEP-12
WG1554901-13 CRM		VA-ACY-CONTROL						
Acidity (as CaCO3)			107.7		%		85-115	27-SEP-12
WG1554901-14 CRM		VA-ACY-CONTROL						
Acidity (as CaCO3)			107.5		%		85-115	27-SEP-12
WG1554901-15 CRM		VA-ACY-CONTROL						
Acidity (as CaCO3)			108.9		%		85-115	27-SEP-12
WG1554901-16 CRM		VA-ACY-CONTROL						
Acidity (as CaCO3)			109.1		%		85-115	27-SEP-12
WG1554901-9 CRM		VA-ACY-CONTROL						
Acidity (as CaCO3)			103.6		%		85-115	27-SEP-12
WG1554901-31 DUP		L1209555-19						
Acidity (as CaCO3)		<1.0	<1.0	RPD-NA	mg/L	N/A	20	27-SEP-12
ALK-PCT-VA		Water						
Batch	R2444345							
WG1553908-10 CRM		VA-ALK-PCT-CONTROL						
Alkalinity, Total (as CaCO3)			105.1		%		85-115	26-SEP-12
WG1553908-11 CRM		VA-ALK-PCT-CONTROL						
Alkalinity, Total (as CaCO3)			105.8		%		85-115	26-SEP-12
WG1553908-12 CRM		VA-ALK-PCT-CONTROL						
Alkalinity, Total (as CaCO3)			104.9		%		85-115	26-SEP-12
WG1553908-13 CRM		VA-ALK-PCT-CONTROL						
Alkalinity, Total (as CaCO3)			104.8		%		85-115	26-SEP-12
WG1553908-14 CRM		VA-ALK-PCT-CONTROL						
Alkalinity, Total (as CaCO3)			104.1		%		85-115	26-SEP-12
WG1553908-15 CRM		VA-ALK-PCT-CONTROL						
Alkalinity, Total (as CaCO3)			104.0		%		85-115	26-SEP-12
WG1553908-16 CRM		VA-ALK-PCT-CONTROL						
Alkalinity, Total (as CaCO3)			106.7		%		85-115	26-SEP-12
WG1553908-9 CRM		VA-ALK-PCT-CONTROL						
Alkalinity, Total (as CaCO3)			103.9		%		85-115	26-SEP-12
WG1553908-31 DUP		L1209555-19						
Alkalinity, Total (as CaCO3)		465	467		mg/L	0.5	20	26-SEP-12
WG1553908-32 DUP		L1209555-26						

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ALK-PCT-VA		Water						
Batch	R2444345							
WG1553908-32	DUP	L1209555-26						
Alkalinity, Total (as CaCO ₃)		348	345		mg/L	1.0	20	26-SEP-12
WG1553908-4	MB							
Alkalinity, Total (as CaCO ₃)			<1.0		mg/L		1	26-SEP-12
ANIONS-CL-IC-VA		Water						
Batch	R2441957							
WG1552085-9	DUP	L1209555-31						
Chloride (Cl)		<0.50	<0.50	RPD-NA	mg/L	N/A	20	23-SEP-12
WG1552085-15	LCS							
Chloride (Cl)			97.5		%		85-115	23-SEP-12
WG1552085-2	LCS							
Chloride (Cl)			97.3		%		85-115	23-SEP-12
WG1552085-1	MB							
Chloride (Cl)			<0.50		mg/L		0.5	23-SEP-12
WG1552085-10	MB							
Chloride (Cl)			<0.50		mg/L		0.5	23-SEP-12
WG1552085-13	MB							
Chloride (Cl)			<0.50		mg/L		0.5	23-SEP-12
WG1552085-4	MB							
Chloride (Cl)			<0.50		mg/L		0.5	23-SEP-12
WG1552085-7	MB							
Chloride (Cl)			<0.50		mg/L		0.5	23-SEP-12
WG1552085-11	MS	L1209555-27						
Chloride (Cl)			114.5		%		75-125	23-SEP-12
WG1552085-14	MS	L1209566-1						
Chloride (Cl)			100.8		%		75-125	23-SEP-12
WG1552085-5	MS	L1209537-4						
Chloride (Cl)			100.1		%		75-125	23-SEP-12
WG1552085-8	MS	L1209555-11						
Chloride (Cl)			116.9		%		75-125	23-SEP-12
ANIONS-SO4-IC-VA		Water						
Batch	R2441957							
WG1552085-6	DUP	L1209555-12						
Sulfate (SO ₄)		25.6	25.2		mg/L	1.4	20	23-SEP-12
WG1552085-9	DUP	L1209555-31						
Sulfate (SO ₄)		<0.50	<0.50	RPD-NA	mg/L	N/A	20	23-SEP-12
WG1552085-15	LCS							
Sulfate (SO ₄)			100.5		%		85-115	23-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ANIONS-SO4-IC-VA		Water						
Batch	R2441957							
WG1552085-2	LCS							
Sulfate (SO4)			100.3		%		85-115	23-SEP-12
WG1552085-1	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	23-SEP-12
WG1552085-10	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	23-SEP-12
WG1552085-13	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	23-SEP-12
WG1552085-4	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	23-SEP-12
WG1552085-7	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	23-SEP-12
WG1552085-11	MS	L1209555-27	N/A	MS-B	%		-	23-SEP-12
Sulfate (SO4)								
WG1552085-14	MS	L1209566-1	103.9		%		75-125	23-SEP-12
Sulfate (SO4)								
WG1552085-5	MS	L1209537-4	N/A	MS-B	%		-	23-SEP-12
Sulfate (SO4)								
WG1552085-8	MS	L1209555-11	106.0		%		75-125	23-SEP-12
Sulfate (SO4)								
EC-MAN-VA		Water						
Batch	R2440969							
WG1551552-2	CRM	VA-EC-MAN-CONTROL	101.6		%		90-110	21-SEP-12
Conductivity								
WG1551552-3	DUP	L1209555-16	1510		uS/cm	0.3	10	21-SEP-12
Conductivity		1500						
WG1551552-1	MB		<2.0		uS/cm		2	21-SEP-12
Conductivity								
EC-PCT-VA		Water						
Batch	R2440040							
WG1550200-17	CRM	VA-EC-PCT-CONTROL	99.8		%		90-110	20-SEP-12
Conductivity								
WG1550200-18	CRM	VA-EC-PCT-CONTROL	97.3		%		90-110	20-SEP-12
Conductivity								
WG1550200-19	CRM	VA-EC-PCT-CONTROL	98.2		%		90-110	20-SEP-12
Conductivity								
WG1550200-20	CRM	VA-EC-PCT-CONTROL	97.8		%		90-110	20-SEP-12
Conductivity								

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-PCT-VA		Water						
Batch	R2440040							
WG1550200-21	CRM	VA-EC-PCT-CONTROL						
Conductivity			97.6		%		90-110	20-SEP-12
WG1550200-22	CRM	VA-EC-PCT-CONTROL						
Conductivity			98.0		%		90-110	20-SEP-12
WG1550200-23	CRM	VA-EC-PCT-CONTROL						
Conductivity			97.9		%		90-110	20-SEP-12
WG1550200-1	MB							
Conductivity			<2.0		uS/cm		2	20-SEP-12
WG1550200-2	MB							
Conductivity			<2.0		uS/cm		2	20-SEP-12
WG1550200-3	MB							
Conductivity			<2.0		uS/cm		2	20-SEP-12
WG1550200-4	MB							
Conductivity			<2.0		uS/cm		2	20-SEP-12
WG1550200-5	MB							
Conductivity			<2.0		uS/cm		2	20-SEP-12
WG1550200-6	MB							
Conductivity			<2.0		uS/cm		2	20-SEP-12
WG1550200-7	MB							
Conductivity			<2.0		uS/cm		2	20-SEP-12
WG1550200-8	MB							
Conductivity			<2.0		uS/cm		2	20-SEP-12
Batch	R2440917							
WG1551094-17	CRM	VA-EC-PCT-CONTROL						
Conductivity			97.4		%		90-110	21-SEP-12
WG1551094-18	CRM	VA-EC-PCT-CONTROL						
Conductivity			96.0		%		90-110	21-SEP-12
WG1551094-19	CRM	VA-EC-PCT-CONTROL						
Conductivity			96.5		%		90-110	21-SEP-12
WG1551094-20	CRM	VA-EC-PCT-CONTROL						
Conductivity			97.1		%		90-110	21-SEP-12
WG1551094-21	CRM	VA-EC-PCT-CONTROL						
Conductivity			96.6		%		90-110	21-SEP-12
WG1551094-22	CRM	VA-EC-PCT-CONTROL						
Conductivity			96.7		%		90-110	21-SEP-12
WG1551094-23	CRM	VA-EC-PCT-CONTROL						
Conductivity			97.1		%		90-110	21-SEP-12
WG1551094-33	DUP	L1209555-28						
Conductivity		352	353		uS/cm	0.3	10	21-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-PCT-VA		Water						
Batch	R2440917							
WG1551094-1	MB							
Conductivity			<2.0		uS/cm		2	21-SEP-12
WG1551094-2	MB							
Conductivity			<2.0		uS/cm		2	21-SEP-12
WG1551094-3	MB							
Conductivity			<2.0		uS/cm		2	21-SEP-12
WG1551094-4	MB							
Conductivity			<2.0		uS/cm		2	21-SEP-12
WG1551094-5	MB							
Conductivity			<2.0		uS/cm		2	21-SEP-12
WG1551094-6	MB							
Conductivity			<2.0		uS/cm		2	21-SEP-12
WG1551094-7	MB							
Conductivity			<2.0		uS/cm		2	21-SEP-12
WG1551094-8	MB							
Conductivity			<2.0		uS/cm		2	21-SEP-12
Batch	R2441064							
WG1551047-17	CRM	VA-EC-PCT-CONTROL						
Conductivity			99.5		%		90-110	21-SEP-12
WG1551047-18	CRM	VA-EC-PCT-CONTROL						
Conductivity			97.3		%		90-110	21-SEP-12
WG1551047-19	CRM	VA-EC-PCT-CONTROL						
Conductivity			97.6		%		90-110	21-SEP-12
WG1551047-20	CRM	VA-EC-PCT-CONTROL						
Conductivity			97.5		%		90-110	21-SEP-12
WG1551047-21	CRM	VA-EC-PCT-CONTROL						
Conductivity			96.7		%		90-110	21-SEP-12
WG1551047-22	CRM	VA-EC-PCT-CONTROL						
Conductivity			96.1		%		90-110	21-SEP-12
WG1551047-23	CRM	VA-EC-PCT-CONTROL						
Conductivity			95.9		%		90-110	21-SEP-12
WG1551047-1	MB							
Conductivity			<2.0		uS/cm		2	21-SEP-12
WG1551047-2	MB							
Conductivity			<2.0		uS/cm		2	21-SEP-12
WG1551047-3	MB							
Conductivity			<2.0		uS/cm		2	21-SEP-12
WG1551047-4	MB							
Conductivity			<2.0		uS/cm		2	21-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-PCT-VA		Water						
Batch	R2441064							
WG1551047-5	MB							
Conductivity			<2.0		uS/cm		2	21-SEP-12
WG1551047-6	MB							
Conductivity			<2.0		uS/cm		2	21-SEP-12
WG1551047-7	MB							
Conductivity			<2.0		uS/cm		2	21-SEP-12
WG1551047-8	MB							
Conductivity			<2.0		uS/cm		2	21-SEP-12
MET-D-CCMS-VA		Water						
Batch	R2438088							
WG1547942-1	MB							
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Barium (Ba)-Dissolved			<0.000050		mg/L		0.00005	18-SEP-12
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Bismuth (Bi)-Dissolved			<0.00050		mg/L		0.0005	18-SEP-12
Boron (B)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.00001	18-SEP-12
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	18-SEP-12
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	18-SEP-12
Lithium (Li)-Dissolved			<0.00050		mg/L		0.0005	18-SEP-12
Manganese (Mn)-Dissolved			<0.000050		mg/L		0.00005	18-SEP-12
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	18-SEP-12
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	18-SEP-12
Potassium (K)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Selenium (Se)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	18-SEP-12
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	18-SEP-12
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	18-SEP-12
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	18-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-VA		Water						
Batch	R2438088							
WG1547942-1 MB								
Vanadium (V)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
WG1548035-1 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Barium (Ba)-Dissolved			<0.000050		mg/L		0.00005	18-SEP-12
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Bismuth (Bi)-Dissolved			<0.00050		mg/L		0.0005	18-SEP-12
Boron (B)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.00001	18-SEP-12
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	18-SEP-12
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	18-SEP-12
Lithium (Li)-Dissolved			<0.00050		mg/L		0.0005	18-SEP-12
Manganese (Mn)-Dissolved			<0.000050		mg/L		0.00005	18-SEP-12
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	18-SEP-12
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	18-SEP-12
Potassium (K)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Selenium (Se)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	18-SEP-12
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	18-SEP-12
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	18-SEP-12
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	18-SEP-12
Vanadium (V)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Batch	R2438609							
WG1547942-16 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-VA		Water						
Batch	R2438609							
WG1547942-16 MB								
Barium (Ba)-Dissolved			<0.000050		mg/L		0.00005	18-SEP-12
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Bismuth (Bi)-Dissolved			<0.00050		mg/L		0.0005	18-SEP-12
Boron (B)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.00001	18-SEP-12
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	18-SEP-12
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Lithium (Li)-Dissolved			<0.00050		mg/L		0.0005	18-SEP-12
Manganese (Mn)-Dissolved			<0.000050		mg/L		0.00005	18-SEP-12
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	18-SEP-12
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	18-SEP-12
Potassium (K)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Selenium (Se)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	18-SEP-12
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	18-SEP-12
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	18-SEP-12
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	18-SEP-12
Vanadium (V)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Batch	R2438996							
WG1547942-18 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Barium (Ba)-Dissolved			<0.000050		mg/L		0.00005	18-SEP-12
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Bismuth (Bi)-Dissolved			<0.00050		mg/L		0.0005	18-SEP-12
Boron (B)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.00001	18-SEP-12
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-VA		Water						
Batch	R2438996							
WG1547942-18 MB								
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	18-SEP-12
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	18-SEP-12
Lithium (Li)-Dissolved			<0.00050		mg/L		0.0005	18-SEP-12
Manganese (Mn)-Dissolved			<0.000050		mg/L		0.00005	18-SEP-12
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	18-SEP-12
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	18-SEP-12
Potassium (K)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Selenium (Se)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	18-SEP-12
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	18-SEP-12
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	18-SEP-12
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	18-SEP-12
Vanadium (V)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
WG1547942-20 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Barium (Ba)-Dissolved			<0.000050		mg/L		0.00005	18-SEP-12
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Bismuth (Bi)-Dissolved			<0.00050		mg/L		0.0005	18-SEP-12
Boron (B)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.00001	18-SEP-12
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	18-SEP-12
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	18-SEP-12
Lithium (Li)-Dissolved			<0.00050		mg/L		0.0005	18-SEP-12
Manganese (Mn)-Dissolved			<0.000050		mg/L		0.00005	18-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-VA								
Water								
Batch	R2438996							
WG1547942-20 MB								
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	18-SEP-12
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	18-SEP-12
Potassium (K)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Selenium (Se)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	18-SEP-12
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	18-SEP-12
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	18-SEP-12
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	18-SEP-12
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	18-SEP-12
Vanadium (V)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Batch	R2439638							
WG1548035-11 MS		L1209483-3						
Aluminum (Al)-Dissolved			117.0		%		70-130	19-SEP-12
Antimony (Sb)-Dissolved			119.5		%		70-130	19-SEP-12
Barium (Ba)-Dissolved			N/A	MS-B	%		-	19-SEP-12
Beryllium (Be)-Dissolved			119.9		%		70-130	19-SEP-12
Bismuth (Bi)-Dissolved			109.2		%		70-130	19-SEP-12
Boron (B)-Dissolved			119.0		%		70-130	19-SEP-12
Cadmium (Cd)-Dissolved			125.5		%		70-130	19-SEP-12
Chromium (Cr)-Dissolved			114.5		%		70-130	19-SEP-12
Cobalt (Co)-Dissolved			120.2		%		70-130	19-SEP-12
Copper (Cu)-Dissolved			118.7		%		70-130	19-SEP-12
Iron (Fe)-Dissolved			119.6		%		70-130	19-SEP-12
Lead (Pb)-Dissolved			113.6		%		70-130	19-SEP-12
Lithium (Li)-Dissolved			113.8		%		70-130	19-SEP-12
Manganese (Mn)-Dissolved			116.9		%		70-130	19-SEP-12
Molybdenum (Mo)-Dissolved			118.4		%		70-130	19-SEP-12
Nickel (Ni)-Dissolved			117.9		%		70-130	19-SEP-12
Potassium (K)-Dissolved			115.4		%		70-130	19-SEP-12
Silver (Ag)-Dissolved			113.7		%		70-130	19-SEP-12
Sodium (Na)-Dissolved			115.2		%		70-130	19-SEP-12
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	19-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-VA								
Water								
Batch	R2439638							
WG1548035-11 MS		L1209483-3						
Thallium (Tl)-Dissolved			114.9		%		70-130	19-SEP-12
Tin (Sn)-Dissolved			115.0		%		70-130	19-SEP-12
Uranium (U)-Dissolved			117.0		%		70-130	19-SEP-12
Vanadium (V)-Dissolved			120.2		%		70-130	19-SEP-12
Zinc (Zn)-Dissolved			113.4		%		70-130	19-SEP-12
Batch	R2439752							
WG1547942-15 CRM		VA-HIGH-WATRM						
Aluminum (Al)-Dissolved			100.9		%		80-120	19-SEP-12
Antimony (Sb)-Dissolved			100.7		%		80-120	19-SEP-12
Arsenic (As)-Dissolved			101.8		%		80-120	19-SEP-12
Barium (Ba)-Dissolved			100.6		%		80-120	19-SEP-12
Beryllium (Be)-Dissolved			102.2		%		80-120	19-SEP-12
Bismuth (Bi)-Dissolved			98.3		%		80-120	19-SEP-12
Boron (B)-Dissolved			115.4		%		80-120	19-SEP-12
Cadmium (Cd)-Dissolved			105.0		%		80-120	19-SEP-12
Chromium (Cr)-Dissolved			101.5		%		80-120	19-SEP-12
Cobalt (Co)-Dissolved			98.6		%		80-120	19-SEP-12
Copper (Cu)-Dissolved			96.1		%		80-120	19-SEP-12
Iron (Fe)-Dissolved			96.5		%		80-120	19-SEP-12
Lead (Pb)-Dissolved			99.0		%		80-120	19-SEP-12
Lithium (Li)-Dissolved			96.5		%		80-120	19-SEP-12
Manganese (Mn)-Dissolved			101.8		%		80-120	19-SEP-12
Molybdenum (Mo)-Dissolved			103.3		%		80-120	19-SEP-12
Nickel (Ni)-Dissolved			98.0		%		80-120	19-SEP-12
Potassium (K)-Dissolved			98.5		%		80-120	19-SEP-12
Selenium (Se)-Dissolved			101.9		%		80-120	19-SEP-12
Silver (Ag)-Dissolved			99.7		%		80-120	19-SEP-12
Sodium (Na)-Dissolved			101.9		%		80-120	19-SEP-12
Strontium (Sr)-Dissolved			104.8		%		80-120	19-SEP-12
Thallium (Tl)-Dissolved			97.7		%		80-120	19-SEP-12
Tin (Sn)-Dissolved			99.7		%		80-120	19-SEP-12
Uranium (U)-Dissolved			98.3		%		80-120	19-SEP-12
Vanadium (V)-Dissolved			99.0		%		80-120	19-SEP-12
Zinc (Zn)-Dissolved			92.8		%		80-120	19-SEP-12
WG1547942-17		VA-HIGH-WATRM						

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-VA		Water						
Batch	R2439752							
WG1547942-17 CRM		VA-HIGH-WATRM						
Aluminum (Al)-Dissolved			104.9		%		80-120	19-SEP-12
Antimony (Sb)-Dissolved			110.6		%		80-120	19-SEP-12
Arsenic (As)-Dissolved			106.6		%		80-120	19-SEP-12
Barium (Ba)-Dissolved			106.9		%		80-120	19-SEP-12
Beryllium (Be)-Dissolved			104.1		%		80-120	19-SEP-12
Bismuth (Bi)-Dissolved			98.9		%		80-120	19-SEP-12
Boron (B)-Dissolved			115.5		%		80-120	19-SEP-12
Cadmium (Cd)-Dissolved			107.4		%		80-120	19-SEP-12
Chromium (Cr)-Dissolved			102.3		%		80-120	19-SEP-12
Cobalt (Co)-Dissolved			104.0		%		80-120	19-SEP-12
Copper (Cu)-Dissolved			101.2		%		80-120	19-SEP-12
Iron (Fe)-Dissolved			103.9		%		80-120	19-SEP-12
Lead (Pb)-Dissolved			103.9		%		80-120	19-SEP-12
Lithium (Li)-Dissolved			97.8		%		80-120	19-SEP-12
Manganese (Mn)-Dissolved			108.4		%		80-120	19-SEP-12
Molybdenum (Mo)-Dissolved			104.1		%		80-120	19-SEP-12
Nickel (Ni)-Dissolved			103.1		%		80-120	19-SEP-12
Potassium (K)-Dissolved			102.5		%		80-120	19-SEP-12
Selenium (Se)-Dissolved			105.2		%		80-120	19-SEP-12
Silver (Ag)-Dissolved			106.2		%		80-120	19-SEP-12
Sodium (Na)-Dissolved			108.5		%		80-120	19-SEP-12
Strontium (Sr)-Dissolved			106.1		%		80-120	19-SEP-12
Thallium (Tl)-Dissolved			105.7		%		80-120	19-SEP-12
Tin (Sn)-Dissolved			106.6		%		80-120	19-SEP-12
Uranium (U)-Dissolved			104.5		%		80-120	19-SEP-12
Vanadium (V)-Dissolved			103.7		%		80-120	19-SEP-12
Zinc (Zn)-Dissolved			99.3		%		80-120	19-SEP-12
WG1547942-19 CRM		VA-HIGH-WATRM						
Aluminum (Al)-Dissolved			118.9		%		80-120	19-SEP-12
Antimony (Sb)-Dissolved			100.4		%		80-120	19-SEP-12
Arsenic (As)-Dissolved			113.8		%		80-120	19-SEP-12
Barium (Ba)-Dissolved			114.3		%		80-120	19-SEP-12
Beryllium (Be)-Dissolved			99.2		%		80-120	19-SEP-12
Bismuth (Bi)-Dissolved			97.4		%		80-120	19-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-VA		Water						
Batch	R2439752							
WG1547942-19 CRM		VA-HIGH-WATRM						
Boron (B)-Dissolved			114.2		%		80-120	19-SEP-12
Cadmium (Cd)-Dissolved			113.7		%		80-120	19-SEP-12
Chromium (Cr)-Dissolved			111.3		%		80-120	19-SEP-12
Cobalt (Co)-Dissolved			110.6		%		80-120	19-SEP-12
Copper (Cu)-Dissolved			107.3		%		80-120	19-SEP-12
Iron (Fe)-Dissolved			94.1		%		80-120	19-SEP-12
Lead (Pb)-Dissolved			99.6		%		80-120	19-SEP-12
Lithium (Li)-Dissolved			93.1		%		80-120	19-SEP-12
Manganese (Mn)-Dissolved			114.1		%		80-120	19-SEP-12
Molybdenum (Mo)-Dissolved			100.1		%		80-120	19-SEP-12
Nickel (Ni)-Dissolved			111.7		%		80-120	19-SEP-12
Potassium (K)-Dissolved			111.7		%		80-120	19-SEP-12
Selenium (Se)-Dissolved			98.3		%		80-120	19-SEP-12
Silver (Ag)-Dissolved			97.7		%		80-120	19-SEP-12
Sodium (Na)-Dissolved			119.7		%		80-120	19-SEP-12
Strontium (Sr)-Dissolved			101.4		%		80-120	19-SEP-12
Thallium (Tl)-Dissolved			97.3		%		80-120	19-SEP-12
Tin (Sn)-Dissolved			98.5		%		80-120	19-SEP-12
Uranium (U)-Dissolved			100.2		%		80-120	19-SEP-12
Vanadium (V)-Dissolved			113.1		%		80-120	19-SEP-12
Zinc (Zn)-Dissolved			104.6		%		80-120	19-SEP-12
WG1547942-2 CRM		VA-HIGH-WATRM						
Aluminum (Al)-Dissolved			103.3		%		80-120	19-SEP-12
Antimony (Sb)-Dissolved			107.2		%		80-120	19-SEP-12
Arsenic (As)-Dissolved			102.6		%		80-120	19-SEP-12
Barium (Ba)-Dissolved			99.8		%		80-120	19-SEP-12
Beryllium (Be)-Dissolved			102.1		%		80-120	19-SEP-12
Bismuth (Bi)-Dissolved			102.1		%		80-120	19-SEP-12
Boron (B)-Dissolved			113.6		%		80-120	19-SEP-12
Cadmium (Cd)-Dissolved			104.2		%		80-120	19-SEP-12
Chromium (Cr)-Dissolved			99.1		%		80-120	19-SEP-12
Cobalt (Co)-Dissolved			101.4		%		80-120	19-SEP-12
Copper (Cu)-Dissolved			98.0		%		80-120	19-SEP-12
Iron (Fe)-Dissolved			97.2		%		80-120	19-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-VA		Water						
Batch	R2439752							
WG1547942-2 CRM		VA-HIGH-WATRM						
Lead (Pb)-Dissolved			102.1		%		80-120	19-SEP-12
Lithium (Li)-Dissolved			96.2		%		80-120	19-SEP-12
Manganese (Mn)-Dissolved			103.6		%		80-120	19-SEP-12
Molybdenum (Mo)-Dissolved			103.3		%		80-120	19-SEP-12
Nickel (Ni)-Dissolved			100.5		%		80-120	19-SEP-12
Potassium (K)-Dissolved			100.0		%		80-120	19-SEP-12
Selenium (Se)-Dissolved			101.0		%		80-120	19-SEP-12
Silver (Ag)-Dissolved			103.4		%		80-120	19-SEP-12
Sodium (Na)-Dissolved			107.7		%		80-120	19-SEP-12
Strontium (Sr)-Dissolved			103.6		%		80-120	19-SEP-12
Thallium (Tl)-Dissolved			98.1		%		80-120	19-SEP-12
Tin (Sn)-Dissolved			102.6		%		80-120	19-SEP-12
Uranium (U)-Dissolved			102.8		%		80-120	19-SEP-12
Vanadium (V)-Dissolved			101.8		%		80-120	19-SEP-12
Zinc (Zn)-Dissolved			92.6		%		80-120	19-SEP-12
WG1547942-21 CRM		VA-HIGH-WATRM						
Aluminum (Al)-Dissolved			104.1		%		80-120	19-SEP-12
Antimony (Sb)-Dissolved			100.0		%		80-120	19-SEP-12
Arsenic (As)-Dissolved			101.9		%		80-120	19-SEP-12
Barium (Ba)-Dissolved			102.7		%		80-120	19-SEP-12
Beryllium (Be)-Dissolved			100.1		%		80-120	19-SEP-12
Bismuth (Bi)-Dissolved			101.3		%		80-120	19-SEP-12
Boron (B)-Dissolved			110.1		%		80-120	19-SEP-12
Cadmium (Cd)-Dissolved			105.4		%		80-120	19-SEP-12
Chromium (Cr)-Dissolved			102.5		%		80-120	19-SEP-12
Cobalt (Co)-Dissolved			99.7		%		80-120	19-SEP-12
Copper (Cu)-Dissolved			96.7		%		80-120	19-SEP-12
Iron (Fe)-Dissolved			95.5		%		80-120	19-SEP-12
Lead (Pb)-Dissolved			101.7		%		80-120	19-SEP-12
Lithium (Li)-Dissolved			94.5		%		80-120	19-SEP-12
Manganese (Mn)-Dissolved			100.1		%		80-120	19-SEP-12
Molybdenum (Mo)-Dissolved			100.8		%		80-120	19-SEP-12
Nickel (Ni)-Dissolved			98.1		%		80-120	19-SEP-12
Potassium (K)-Dissolved			99.7		%		80-120	19-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-VA		Water						
Batch	R2439752							
WG1547942-21 CRM		VA-HIGH-WATRM						
Selenium (Se)-Dissolved			100.9		%		80-120	19-SEP-12
Silver (Ag)-Dissolved			99.0		%		80-120	19-SEP-12
Sodium (Na)-Dissolved			103.5		%		80-120	19-SEP-12
Strontium (Sr)-Dissolved			101.2		%		80-120	19-SEP-12
Thallium (Tl)-Dissolved			100.0		%		80-120	19-SEP-12
Tin (Sn)-Dissolved			99.6		%		80-120	19-SEP-12
Uranium (U)-Dissolved			104.2		%		80-120	19-SEP-12
Vanadium (V)-Dissolved			101.7		%		80-120	19-SEP-12
Zinc (Zn)-Dissolved			94.0		%		80-120	19-SEP-12
WG1548035-2 CRM		VA-HIGH-WATRM						
Aluminum (Al)-Dissolved			103.1		%		80-120	19-SEP-12
Antimony (Sb)-Dissolved			100.6		%		80-120	19-SEP-12
Arsenic (As)-Dissolved			103.3		%		80-120	19-SEP-12
Barium (Ba)-Dissolved			105.0		%		80-120	19-SEP-12
Beryllium (Be)-Dissolved			99.4		%		80-120	19-SEP-12
Bismuth (Bi)-Dissolved			99.0		%		80-120	19-SEP-12
Boron (B)-Dissolved			108.1		%		80-120	19-SEP-12
Cadmium (Cd)-Dissolved			103.0		%		80-120	19-SEP-12
Chromium (Cr)-Dissolved			102.6		%		80-120	19-SEP-12
Cobalt (Co)-Dissolved			101.4		%		80-120	19-SEP-12
Copper (Cu)-Dissolved			97.1		%		80-120	19-SEP-12
Iron (Fe)-Dissolved			92.2		%		80-120	19-SEP-12
Lead (Pb)-Dissolved			101.3		%		80-120	19-SEP-12
Lithium (Li)-Dissolved			92.2		%		80-120	19-SEP-12
Manganese (Mn)-Dissolved			101.8		%		80-120	19-SEP-12
Molybdenum (Mo)-Dissolved			98.3		%		80-120	19-SEP-12
Nickel (Ni)-Dissolved			101.1		%		80-120	19-SEP-12
Potassium (K)-Dissolved			99.6		%		80-120	19-SEP-12
Selenium (Se)-Dissolved			100.4		%		80-120	19-SEP-12
Silver (Ag)-Dissolved			99.4		%		80-120	19-SEP-12
Sodium (Na)-Dissolved			103.3		%		80-120	19-SEP-12
Strontium (Sr)-Dissolved			98.8		%		80-120	19-SEP-12
Thallium (Tl)-Dissolved			97.6		%		80-120	19-SEP-12
Tin (Sn)-Dissolved			99.6		%		80-120	19-SEP-12

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MET-D-CCMS-VA		Water						
Batch	R2439752							
WG1548035-2 CRM		VA-HIGH-WATRM						
Uranium (U)-Dissolved			101.5		%		80-120	19-SEP-12
Vanadium (V)-Dissolved			101.6		%		80-120	19-SEP-12
Zinc (Zn)-Dissolved			94.6		%		80-120	19-SEP-12
Batch	R2440133							
WG1547942-7 MS		L1208797-5						
Aluminum (Al)-Dissolved			97.0		%		70-130	20-SEP-12
Antimony (Sb)-Dissolved			97.5		%		70-130	20-SEP-12
Arsenic (As)-Dissolved			106.7		%		70-130	20-SEP-12
Barium (Ba)-Dissolved			N/A	MS-B	%		-	20-SEP-12
Beryllium (Be)-Dissolved			94.7		%		70-130	20-SEP-12
Bismuth (Bi)-Dissolved			85.1		%		70-130	20-SEP-12
Boron (B)-Dissolved			85.6		%		70-130	20-SEP-12
Cadmium (Cd)-Dissolved			110.4		%		70-130	20-SEP-12
Chromium (Cr)-Dissolved			99.7		%		70-130	20-SEP-12
Cobalt (Co)-Dissolved			96.8		%		70-130	20-SEP-12
Copper (Cu)-Dissolved			95.9		%		70-130	20-SEP-12
Iron (Fe)-Dissolved			100.4		%		70-130	20-SEP-12
Lead (Pb)-Dissolved			89.3		%		70-130	20-SEP-12
Lithium (Li)-Dissolved			82.8		%		70-130	20-SEP-12
Manganese (Mn)-Dissolved			95.8		%		70-130	20-SEP-12
Molybdenum (Mo)-Dissolved			95.1		%		70-130	20-SEP-12
Nickel (Ni)-Dissolved			N/A	MS-B	%		-	20-SEP-12
Potassium (K)-Dissolved			N/A	MS-B	%		-	20-SEP-12
Selenium (Se)-Dissolved			N/A	MS-B	%		-	20-SEP-12
Silver (Ag)-Dissolved			93.4		%		70-130	20-SEP-12
Sodium (Na)-Dissolved			N/A	MS-B	%		-	20-SEP-12
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	20-SEP-12
Thallium (Tl)-Dissolved			92.1		%		70-130	20-SEP-12
Tin (Sn)-Dissolved			95.4		%		70-130	20-SEP-12
Uranium (U)-Dissolved			N/A	MS-B	%		-	20-SEP-12
Vanadium (V)-Dissolved			104.4		%		70-130	20-SEP-12
Zinc (Zn)-Dissolved			92.9		%		70-130	20-SEP-12

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MET-D-CCMS-VA		Water						
Batch	R2440600							
WG1547942-16 MB								
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	20-SEP-12
Batch	R2440816							
WG1548035-17 MS		L1208829-3						
Aluminum (Al)-Dissolved			117.2		%		70-130	21-SEP-12
Antimony (Sb)-Dissolved			118.2		%		70-130	21-SEP-12
Arsenic (As)-Dissolved			123.7		%		70-130	21-SEP-12
Barium (Ba)-Dissolved			N/A	MS-B	%		-	21-SEP-12
Beryllium (Be)-Dissolved			112.1		%		70-130	21-SEP-12
Bismuth (Bi)-Dissolved			105.3		%		70-130	21-SEP-12
Boron (B)-Dissolved			113.1		%		70-130	21-SEP-12
Cadmium (Cd)-Dissolved			120.9		%		70-130	21-SEP-12
Chromium (Cr)-Dissolved			110.8		%		70-130	21-SEP-12
Cobalt (Co)-Dissolved			113.9		%		70-130	21-SEP-12
Copper (Cu)-Dissolved			105.8		%		70-130	21-SEP-12
Iron (Fe)-Dissolved			113.1		%		70-130	21-SEP-12
Lead (Pb)-Dissolved			110.0		%		70-130	21-SEP-12
Lithium (Li)-Dissolved			111.0		%		70-130	21-SEP-12
Manganese (Mn)-Dissolved			111.4		%		70-130	21-SEP-12
Molybdenum (Mo)-Dissolved			115.1		%		70-130	21-SEP-12
Nickel (Ni)-Dissolved			113.8		%		70-130	21-SEP-12
Potassium (K)-Dissolved			114.6		%		70-130	21-SEP-12
Selenium (Se)-Dissolved			118.1		%		70-130	21-SEP-12
Silver (Ag)-Dissolved			115.4		%		70-130	21-SEP-12
Sodium (Na)-Dissolved			N/A	MS-B	%		-	21-SEP-12
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	21-SEP-12
Thallium (Tl)-Dissolved			115.3		%		70-130	21-SEP-12
Tin (Sn)-Dissolved			117.7		%		70-130	21-SEP-12
Uranium (U)-Dissolved			116.3		%		70-130	21-SEP-12
Vanadium (V)-Dissolved			115.8		%		70-130	21-SEP-12
Zinc (Zn)-Dissolved			111.3		%		70-130	21-SEP-12
Batch	R2440881							
WG1547942-5 MS		L1208796-3						
Aluminum (Al)-Dissolved			124.7		%		70-130	21-SEP-12
Antimony (Sb)-Dissolved			125.1		%		70-130	21-SEP-12

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MET-D-CCMS-VA								
Water								
Batch	R2440881							
WG1547942-5 MS		L1208796-3						
Barium (Ba)-Dissolved			N/A	MS-B	%		-	21-SEP-12
Beryllium (Be)-Dissolved			119.6		%		70-130	21-SEP-12
Bismuth (Bi)-Dissolved			106.4		%		70-130	21-SEP-12
Boron (B)-Dissolved			121.6		%		70-130	21-SEP-12
Cadmium (Cd)-Dissolved			127.5		%		70-130	21-SEP-12
Chromium (Cr)-Dissolved			119.7		%		70-130	21-SEP-12
Cobalt (Co)-Dissolved			116.4		%		70-130	21-SEP-12
Copper (Cu)-Dissolved			114.7		%		70-130	21-SEP-12
Iron (Fe)-Dissolved			118.7		%		70-130	21-SEP-12
Lead (Pb)-Dissolved			109.6		%		70-130	21-SEP-12
Lithium (Li)-Dissolved			120.5		%		70-130	21-SEP-12
Manganese (Mn)-Dissolved			119.2		%		70-130	21-SEP-12
Molybdenum (Mo)-Dissolved			122.1		%		70-130	21-SEP-12
Nickel (Ni)-Dissolved			118.9		%		70-130	21-SEP-12
Potassium (K)-Dissolved			119.3		%		70-130	21-SEP-12
Selenium (Se)-Dissolved			118.1		%		70-130	21-SEP-12
Silver (Ag)-Dissolved			115.1		%		70-130	21-SEP-12
Sodium (Na)-Dissolved			N/A	MS-B	%		-	21-SEP-12
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	21-SEP-12
Thallium (Tl)-Dissolved			110.2		%		70-130	21-SEP-12
Tin (Sn)-Dissolved			123.4		%		70-130	21-SEP-12
Uranium (U)-Dissolved			115.0		%		70-130	21-SEP-12
Vanadium (V)-Dissolved			121.9		%		70-130	21-SEP-12
Zinc (Zn)-Dissolved			114.3		%		70-130	21-SEP-12
Batch	R2441912							
WG1548035-29 MS		L1210039-13						
Aluminum (Al)-Dissolved			90.5		%		70-130	21-SEP-12
Antimony (Sb)-Dissolved			104.8		%		70-130	21-SEP-12
Arsenic (As)-Dissolved			109.5		%		70-130	21-SEP-12
Barium (Ba)-Dissolved			N/A	MS-B	%		-	21-SEP-12
Beryllium (Be)-Dissolved			96.5		%		70-130	21-SEP-12
Bismuth (Bi)-Dissolved			81.5		%		70-130	21-SEP-12
Boron (B)-Dissolved			92.4		%		70-130	21-SEP-12
Cadmium (Cd)-Dissolved			97.7		%		70-130	21-SEP-12

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MET-D-CCMS-VA		Water						
Batch	R2441912							
WG1548035-29 MS		L1210039-13						
Chromium (Cr)-Dissolved			94.7		%		70-130	21-SEP-12
Cobalt (Co)-Dissolved			93.5		%		70-130	21-SEP-12
Copper (Cu)-Dissolved			88.8		%		70-130	21-SEP-12
Iron (Fe)-Dissolved			97.1		%		70-130	21-SEP-12
Lead (Pb)-Dissolved			88.4		%		70-130	21-SEP-12
Lithium (Li)-Dissolved			102.4		%		70-130	21-SEP-12
Manganese (Mn)-Dissolved			92.0		%		70-130	21-SEP-12
Molybdenum (Mo)-Dissolved			112.3		%		70-130	21-SEP-12
Nickel (Ni)-Dissolved			87.2		%		70-130	21-SEP-12
Potassium (K)-Dissolved			88.7		%		70-130	21-SEP-12
Selenium (Se)-Dissolved			115.6		%		70-130	21-SEP-12
Silver (Ag)-Dissolved			89.3		%		70-130	21-SEP-12
Sodium (Na)-Dissolved			N/A	MS-B	%		-	21-SEP-12
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	21-SEP-12
Thallium (Tl)-Dissolved			90.1		%		70-130	21-SEP-12
Tin (Sn)-Dissolved			101.5		%		70-130	21-SEP-12
Uranium (U)-Dissolved			N/A	MS-B	%		-	21-SEP-12
Vanadium (V)-Dissolved			99.2		%		70-130	21-SEP-12
Zinc (Zn)-Dissolved			86.8		%		70-130	21-SEP-12
WG1548035-31 MS		L1210039-31						
Aluminum (Al)-Dissolved			93.2		%		70-130	21-SEP-12
Antimony (Sb)-Dissolved			106.5		%		70-130	21-SEP-12
Arsenic (As)-Dissolved			108.7		%		70-130	21-SEP-12
Barium (Ba)-Dissolved			N/A	MS-B	%		-	21-SEP-12
Beryllium (Be)-Dissolved			95.3		%		70-130	21-SEP-12
Bismuth (Bi)-Dissolved			82.2		%		70-130	21-SEP-12
Boron (B)-Dissolved			104.8		%		70-130	21-SEP-12
Cadmium (Cd)-Dissolved			98.1		%		70-130	21-SEP-12
Chromium (Cr)-Dissolved			95.5		%		70-130	21-SEP-12
Cobalt (Co)-Dissolved			94.7		%		70-130	21-SEP-12
Copper (Cu)-Dissolved			94.3		%		70-130	21-SEP-12
Iron (Fe)-Dissolved			98.0		%		70-130	21-SEP-12
Lead (Pb)-Dissolved			88.9		%		70-130	21-SEP-12
Lithium (Li)-Dissolved			96.4		%		70-130	21-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-VA		Water						
Batch	R2441912							
WG1548035-31 MS		L1210039-31						
Manganese (Mn)-Dissolved			93.7		%		70-130	21-SEP-12
Molybdenum (Mo)-Dissolved			106.3		%		70-130	21-SEP-12
Nickel (Ni)-Dissolved			92.2		%		70-130	21-SEP-12
Potassium (K)-Dissolved			102.3		%		70-130	21-SEP-12
Selenium (Se)-Dissolved			100.8		%		70-130	21-SEP-12
Silver (Ag)-Dissolved			91.1		%		70-130	21-SEP-12
Sodium (Na)-Dissolved			N/A	MS-B	%		-	21-SEP-12
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	21-SEP-12
Thallium (Tl)-Dissolved			89.9		%		70-130	21-SEP-12
Tin (Sn)-Dissolved			100.5		%		70-130	21-SEP-12
Uranium (U)-Dissolved			93.1		%		70-130	21-SEP-12
Vanadium (V)-Dissolved			96.3		%		70-130	21-SEP-12
Zinc (Zn)-Dissolved			89.6		%		70-130	21-SEP-12
Batch	R2442207							
WG1548035-25 MS		L1209711-3						
Aluminum (Al)-Dissolved			124.6		%		70-130	21-SEP-12
Antimony (Sb)-Dissolved			118.9		%		70-130	21-SEP-12
Barium (Ba)-Dissolved			N/A	MS-B	%		-	21-SEP-12
Beryllium (Be)-Dissolved			109.6		%		70-130	21-SEP-12
Bismuth (Bi)-Dissolved			97.4		%		70-130	21-SEP-12
Boron (B)-Dissolved			118.3		%		70-130	21-SEP-12
Cadmium (Cd)-Dissolved			124.7		%		70-130	21-SEP-12
Chromium (Cr)-Dissolved			122.3		%		70-130	21-SEP-12
Cobalt (Co)-Dissolved			121.9		%		70-130	21-SEP-12
Copper (Cu)-Dissolved			118.8		%		70-130	21-SEP-12
Iron (Fe)-Dissolved			114.0		%		70-130	21-SEP-12
Lead (Pb)-Dissolved			107.6		%		70-130	21-SEP-12
Lithium (Li)-Dissolved			105.2		%		70-130	21-SEP-12
Manganese (Mn)-Dissolved			N/A	MS-B	%		-	21-SEP-12
Molybdenum (Mo)-Dissolved			118.1		%		70-130	21-SEP-12
Nickel (Ni)-Dissolved			118.6		%		70-130	21-SEP-12
Potassium (K)-Dissolved			124.1		%		70-130	21-SEP-12
Selenium (Se)-Dissolved			129.9		%		70-130	21-SEP-12
Sodium (Na)-Dissolved			N/A	MS-B	%		-	21-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-VA								
Water								
Batch	R2442207							
WG1548035-25 MS		L1209711-3						
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	21-SEP-12
Thallium (Tl)-Dissolved			108.5		%		70-130	21-SEP-12
Tin (Sn)-Dissolved			118.8		%		70-130	21-SEP-12
Uranium (U)-Dissolved			109.3		%		70-130	21-SEP-12
Vanadium (V)-Dissolved			128.6		%		70-130	21-SEP-12
Zinc (Zn)-Dissolved			113.7		%		70-130	21-SEP-12
Batch	R2442828							
WG1548035-27 MS		L1209469-4						
Aluminum (Al)-Dissolved			119.9		%		70-130	22-SEP-12
Antimony (Sb)-Dissolved			N/A	MS-B	%		-	22-SEP-12
Arsenic (As)-Dissolved			126.4		%		70-130	22-SEP-12
Barium (Ba)-Dissolved			118.6		%		70-130	22-SEP-12
Beryllium (Be)-Dissolved			124.6		%		70-130	22-SEP-12
Bismuth (Bi)-Dissolved			111.4		%		70-130	22-SEP-12
Boron (B)-Dissolved			94.2		%		70-130	22-SEP-12
Cadmium (Cd)-Dissolved			124.7		%		70-130	22-SEP-12
Chromium (Cr)-Dissolved			116.5		%		70-130	22-SEP-12
Cobalt (Co)-Dissolved			117.9		%		70-130	22-SEP-12
Copper (Cu)-Dissolved			112.7		%		70-130	22-SEP-12
Iron (Fe)-Dissolved			118.3		%		70-130	22-SEP-12
Lead (Pb)-Dissolved			N/A	MS-B	%		-	22-SEP-12
Manganese (Mn)-Dissolved			N/A	MS-B	%		-	22-SEP-12
Molybdenum (Mo)-Dissolved			126.6		%		70-130	22-SEP-12
Nickel (Ni)-Dissolved			116.1		%		70-130	22-SEP-12
Potassium (K)-Dissolved			N/A	MS-B	%		-	22-SEP-12
Selenium (Se)-Dissolved			124.1		%		70-130	22-SEP-12
Silver (Ag)-Dissolved			119.6		%		70-130	22-SEP-12
Sodium (Na)-Dissolved			N/A	MS-B	%		-	22-SEP-12
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	22-SEP-12
Thallium (Tl)-Dissolved			114.7		%		70-130	22-SEP-12
Tin (Sn)-Dissolved			125.8		%		70-130	22-SEP-12
Uranium (U)-Dissolved			122.7		%		70-130	22-SEP-12
Vanadium (V)-Dissolved			121.1		%		70-130	22-SEP-12
Zinc (Zn)-Dissolved			114.2		%		70-130	22-SEP-12

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MET-D-CCMS-VA								
Water								
Batch	R2442949							
WG1548035-25 MS		L1209711-3						
Silver (Ag)-Dissolved			81.4		%		70-130	25-SEP-12
Batch	R2443719							
WG1548035-9 MS		L1209492-46						
Aluminum (Al)-Dissolved			118.4		%		70-130	25-SEP-12
Antimony (Sb)-Dissolved			119.2		%		70-130	25-SEP-12
Arsenic (As)-Dissolved			N/A	MS-B	%		-	25-SEP-12
Barium (Ba)-Dissolved			N/A	MS-B	%		-	25-SEP-12
Beryllium (Be)-Dissolved			115.9		%		70-130	25-SEP-12
Bismuth (Bi)-Dissolved			100.5		%		70-130	25-SEP-12
Boron (B)-Dissolved			119.1		%		70-130	25-SEP-12
Cadmium (Cd)-Dissolved			121.1		%		70-130	25-SEP-12
Chromium (Cr)-Dissolved			117.4		%		70-130	25-SEP-12
Cobalt (Co)-Dissolved			116.2		%		70-130	25-SEP-12
Copper (Cu)-Dissolved			114.6		%		70-130	25-SEP-12
Iron (Fe)-Dissolved			115.6		%		70-130	25-SEP-12
Lead (Pb)-Dissolved			111.9		%		70-130	25-SEP-12
Lithium (Li)-Dissolved			112.6		%		70-130	25-SEP-12
Manganese (Mn)-Dissolved			N/A	MS-B	%		-	25-SEP-12
Molybdenum (Mo)-Dissolved			120.7		%		70-130	25-SEP-12
Nickel (Ni)-Dissolved			114.8		%		70-130	25-SEP-12
Potassium (K)-Dissolved			117.8		%		70-130	25-SEP-12
Silver (Ag)-Dissolved			88.9		%		70-130	25-SEP-12
Sodium (Na)-Dissolved			N/A	MS-B	%		-	25-SEP-12
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	25-SEP-12
Thallium (Tl)-Dissolved			113.4		%		70-130	25-SEP-12
Tin (Sn)-Dissolved			115.7		%		70-130	25-SEP-12
Uranium (U)-Dissolved			N/A	MS-B	%		-	25-SEP-12
Vanadium (V)-Dissolved			120.5		%		70-130	25-SEP-12
Zinc (Zn)-Dissolved			108.0		%		70-130	25-SEP-12
Batch	R2443999							
WG1548035-6 DUP		L1209555-28						
Antimony (Sb)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	26-SEP-12
Arsenic (As)-Dissolved		0.00201	0.00204		mg/L	1.7	20	26-SEP-12
Barium (Ba)-Dissolved		0.0159	0.0156		mg/L	2.0	20	26-SEP-12

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MET-D-CCMS-VA		Water						
Batch	R2443999							
WG1548035-6	DUP	L1209555-28						
Beryllium (Be)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	26-SEP-12
Bismuth (Bi)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	26-SEP-12
Boron (B)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	26-SEP-12
Cadmium (Cd)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	26-SEP-12
Chromium (Cr)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	26-SEP-12
Cobalt (Co)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	26-SEP-12
Copper (Cu)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	26-SEP-12
Iron (Fe)-Dissolved		0.325	0.328		mg/L	0.8	20	26-SEP-12
Lithium (Li)-Dissolved		0.00314	0.00327		mg/L	4.2	20	26-SEP-12
Manganese (Mn)-Dissolved		0.0146	0.0147		mg/L	0.4	20	26-SEP-12
Molybdenum (Mo)-Dissolved		0.000356	0.000349		mg/L	2.0	20	26-SEP-12
Nickel (Ni)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	26-SEP-12
Potassium (K)-Dissolved		1.04	1.03		mg/L	0.9	20	26-SEP-12
Selenium (Se)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	26-SEP-12
Silver (Ag)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	26-SEP-12
Sodium (Na)-Dissolved		19.6	19.7		mg/L	0.6	20	26-SEP-12
Strontium (Sr)-Dissolved		0.606	0.608		mg/L	0.3	20	26-SEP-12
Thallium (Tl)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	26-SEP-12
Tin (Sn)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	26-SEP-12
Uranium (U)-Dissolved		0.00553	0.00568		mg/L	2.7	20	26-SEP-12
Vanadium (V)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	26-SEP-12
Zinc (Zn)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	26-SEP-12
WG1548035-9	MS	L1209492-46						
Selenium (Se)-Dissolved			128.5		%		70-130	25-SEP-12
Batch	R2444474							
WG1548035-4	DUP	L1209555-17						
Aluminum (Al)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	26-SEP-12
Antimony (Sb)-Dissolved		0.00024	0.00026		mg/L	0.4	20	26-SEP-12
Arsenic (As)-Dissolved		0.00048	0.00047		mg/L	0.0	20	26-SEP-12
Barium (Ba)-Dissolved		0.0122	0.0128		mg/L	8.3	20	26-SEP-12
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	26-SEP-12
Bismuth (Bi)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	26-SEP-12
Boron (B)-Dissolved		<0.020	<0.020	RPD-NA	mg/L	N/A	20	26-SEP-12
Cadmium (Cd)-Dissolved		0.000088	0.000096		mg/L	11	20	26-SEP-12
Chromium (Cr)-Dissolved		0.00089	0.00071		mg/L	4.8	20	26-SEP-12

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MET-D-CCMS-VA		Water						
Batch	R2444474							
WG1548035-4 DUP		L1209555-17						
Cobalt (Co)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	26-SEP-12
Copper (Cu)-Dissolved		0.00049	<0.00040	RPD-NA	mg/L	N/A	20	26-SEP-12
Iron (Fe)-Dissolved		<0.020	<0.020	RPD-NA	mg/L	N/A	20	26-SEP-12
Lead (Pb)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	26-SEP-12
Lithium (Li)-Dissolved		0.0185	0.0195		mg/L	4.8	20	26-SEP-12
Manganese (Mn)-Dissolved		0.00197	0.00178		mg/L	13	20	26-SEP-12
Molybdenum (Mo)-Dissolved		0.00115	0.00118		mg/L	2.6	20	26-SEP-12
Nickel (Ni)-Dissolved		0.0032	0.0033		mg/L	9.6	20	26-SEP-12
Potassium (K)-Dissolved		3.59	3.57		mg/L	3.9	20	26-SEP-12
Selenium (Se)-Dissolved		0.00210	0.00201		mg/L	0.2	20	26-SEP-12
Silver (Ag)-Dissolved		<0.000020	<0.000020	RPD-NA	mg/L	N/A	20	26-SEP-12
Sodium (Na)-Dissolved		6.76	7.19		mg/L	1.2	20	26-SEP-12
Strontium (Sr)-Dissolved		0.787	0.848		mg/L	3.9	20	26-SEP-12
Thallium (Tl)-Dissolved		0.000020	0.000022	RPD-NA	mg/L	N/A	20	26-SEP-12
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	26-SEP-12
Uranium (U)-Dissolved		0.0580	0.0658		mg/L	0.5	20	26-SEP-12
Vanadium (V)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	26-SEP-12
Zinc (Zn)-Dissolved		0.0080	0.0083		mg/L	11	20	26-SEP-12
WG1548035-6 DUP		L1209555-28						
Aluminum (Al)-Dissolved		0.0018	0.0017		mg/L	5.4	20	26-SEP-12
Lead (Pb)-Dissolved		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	26-SEP-12
WG1548035-7 MS		L1209555-29						
Aluminum (Al)-Dissolved			118.2		%		70-130	26-SEP-12
Antimony (Sb)-Dissolved			124.3		%		70-130	26-SEP-12
Arsenic (As)-Dissolved			N/A	MS-B	%		-	26-SEP-12
Barium (Ba)-Dissolved			N/A	MS-B	%		-	26-SEP-12
Beryllium (Be)-Dissolved			116.3		%		70-130	26-SEP-12
Bismuth (Bi)-Dissolved			107.2		%		70-130	26-SEP-12
Boron (B)-Dissolved			118.7		%		70-130	26-SEP-12
Cadmium (Cd)-Dissolved			117.6		%		70-130	26-SEP-12
Chromium (Cr)-Dissolved			116.5		%		70-130	26-SEP-12
Cobalt (Co)-Dissolved			113.7		%		70-130	26-SEP-12
Copper (Cu)-Dissolved			110.3		%		70-130	26-SEP-12
Iron (Fe)-Dissolved			111.8		%		70-130	26-SEP-12

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MET-D-CCMS-VA								
Water								
Batch	R2444474							
WG1548035-7 MS		L1209555-29						
Lead (Pb)-Dissolved			115.6		%		70-130	26-SEP-12
Lithium (Li)-Dissolved			119.0		%		70-130	26-SEP-12
Manganese (Mn)-Dissolved			N/A	MS-B	%		-	26-SEP-12
Molybdenum (Mo)-Dissolved			119.9		%		70-130	26-SEP-12
Nickel (Ni)-Dissolved			114.2		%		70-130	26-SEP-12
Potassium (K)-Dissolved			116.4		%		70-130	26-SEP-12
Selenium (Se)-Dissolved			124.5		%		70-130	26-SEP-12
Silver (Ag)-Dissolved			90.5		%		70-130	26-SEP-12
Sodium (Na)-Dissolved			N/A	MS-B	%		-	26-SEP-12
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	26-SEP-12
Thallium (Tl)-Dissolved			116.2		%		70-130	26-SEP-12
Tin (Sn)-Dissolved			118.6		%		70-130	26-SEP-12
Uranium (U)-Dissolved			N/A	MS-B	%		-	26-SEP-12
Vanadium (V)-Dissolved			120.3		%		70-130	26-SEP-12
Zinc (Zn)-Dissolved			111.0		%		70-130	26-SEP-12
MET-DIS-ICP-VA								
Water								
Batch	R2437951							
WG1547942-2 CRM		VA-HIGH-WATRM						
Calcium (Ca)-Dissolved			98.2		%		80-120	17-SEP-12
Magnesium (Mg)-Dissolved			98.8		%		80-120	17-SEP-12
Phosphorus (P)-Dissolved			101.6		%		80-120	17-SEP-12
Silicon (Si)-Dissolved			104.0		%		80-120	17-SEP-12
Titanium (Ti)-Dissolved			96.9		%		80-120	17-SEP-12
WG1548035-2 CRM		VA-HIGH-WATRM						
Calcium (Ca)-Dissolved			98.3		%		80-120	17-SEP-12
Magnesium (Mg)-Dissolved			99.0		%		80-120	17-SEP-12
Phosphorus (P)-Dissolved			101.7		%		80-120	17-SEP-12
Silicon (Si)-Dissolved			103.7		%		80-120	17-SEP-12
Titanium (Ti)-Dissolved			96.9		%		80-120	17-SEP-12
WG1547942-1 MB								
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	17-SEP-12
Magnesium (Mg)-Dissolved			<0.10		mg/L		0.1	17-SEP-12
Phosphorus (P)-Dissolved			<0.30		mg/L		0.3	17-SEP-12
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	17-SEP-12
Titanium (Ti)-Dissolved			<0.010		mg/L		0.01	17-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-ICP-VA	Water							
Batch R2437951								
WG1548035-1 MB								
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	17-SEP-12
Magnesium (Mg)-Dissolved			<0.10		mg/L		0.1	17-SEP-12
Phosphorus (P)-Dissolved			<0.30		mg/L		0.3	17-SEP-12
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	17-SEP-12
Titanium (Ti)-Dissolved			<0.010		mg/L		0.01	17-SEP-12
Batch R2438079								
WG1547942-15 CRM		VA-HIGH-WATRM						
Calcium (Ca)-Dissolved			98.0		%		80-120	18-SEP-12
Magnesium (Mg)-Dissolved			96.3		%		80-120	18-SEP-12
Phosphorus (P)-Dissolved			100.5		%		80-120	18-SEP-12
Silicon (Si)-Dissolved			101.9		%		80-120	18-SEP-12
Titanium (Ti)-Dissolved			101.6		%		80-120	18-SEP-12
WG1547942-17 CRM		VA-HIGH-WATRM						
Calcium (Ca)-Dissolved			98.8		%		80-120	18-SEP-12
Magnesium (Mg)-Dissolved			97.6		%		80-120	18-SEP-12
Phosphorus (P)-Dissolved			101.1		%		80-120	18-SEP-12
Silicon (Si)-Dissolved			101.6		%		80-120	18-SEP-12
Titanium (Ti)-Dissolved			102.6		%		80-120	18-SEP-12
WG1547942-19 CRM		VA-HIGH-WATRM						
Calcium (Ca)-Dissolved			98.7		%		80-120	18-SEP-12
Magnesium (Mg)-Dissolved			97.6		%		80-120	18-SEP-12
Phosphorus (P)-Dissolved			101.7		%		80-120	18-SEP-12
Silicon (Si)-Dissolved			100.7		%		80-120	18-SEP-12
Titanium (Ti)-Dissolved			102.4		%		80-120	18-SEP-12
WG1547942-21 CRM		VA-HIGH-WATRM						
Calcium (Ca)-Dissolved			99.7		%		80-120	18-SEP-12
Magnesium (Mg)-Dissolved			97.7		%		80-120	18-SEP-12
Phosphorus (P)-Dissolved			101.8		%		80-120	18-SEP-12
Silicon (Si)-Dissolved			102.2		%		80-120	18-SEP-12
Titanium (Ti)-Dissolved			103.7		%		80-120	18-SEP-12
WG1547942-14 MB								
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Magnesium (Mg)-Dissolved			<0.10		mg/L		0.1	18-SEP-12
Phosphorus (P)-Dissolved			<0.30		mg/L		0.3	18-SEP-12
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	18-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-ICP-VA								
Water								
Batch	R2438079							
WG1547942-14 MB								
Titanium (Ti)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
WG1547942-16 MB								
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Magnesium (Mg)-Dissolved			<0.10		mg/L		0.1	18-SEP-12
Phosphorus (P)-Dissolved			<0.30		mg/L		0.3	18-SEP-12
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Titanium (Ti)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
WG1547942-18 MB								
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Magnesium (Mg)-Dissolved			<0.10		mg/L		0.1	18-SEP-12
Phosphorus (P)-Dissolved			<0.30		mg/L		0.3	18-SEP-12
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Titanium (Ti)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
WG1547942-20 MB								
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Magnesium (Mg)-Dissolved			<0.10		mg/L		0.1	18-SEP-12
Phosphorus (P)-Dissolved			<0.30		mg/L		0.3	18-SEP-12
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Titanium (Ti)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Batch	R2439886							
WG1548035-17 MS		L1208829-3						
Calcium (Ca)-Dissolved			92.4		%		70-130	20-SEP-12
Magnesium (Mg)-Dissolved			97.4		%		70-130	20-SEP-12
Titanium (Ti)-Dissolved			106.0		%		70-130	20-SEP-12
Batch	R2440090							
WG1547942-5 MS		L1208796-3						
Calcium (Ca)-Dissolved			96.9		%		70-130	20-SEP-12
Magnesium (Mg)-Dissolved			99.2		%		70-130	20-SEP-12
Titanium (Ti)-Dissolved			105.5		%		70-130	20-SEP-12
Batch	R2440104							
WG1548035-11 MS		L1209483-3						
Calcium (Ca)-Dissolved			98.1		%		70-130	19-SEP-12
Magnesium (Mg)-Dissolved			101.2		%		70-130	19-SEP-12
Titanium (Ti)-Dissolved			105.4		%		70-130	19-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-ICP-VA								
Water								
Batch	R2440961							
WG1547942-7 MS		L1208797-5						
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	20-SEP-12
Magnesium (Mg)-Dissolved			98.0		%		70-130	20-SEP-12
Titanium (Ti)-Dissolved			107.5		%		70-130	20-SEP-12
Batch	R2442237							
WG1547942-11 MS		L1208095-3						
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	21-SEP-12
Magnesium (Mg)-Dissolved			92.7		%		70-130	21-SEP-12
Titanium (Ti)-Dissolved			99.6		%		70-130	21-SEP-12
WG1548035-27 MS		L1209469-4						
Calcium (Ca)-Dissolved			96.8		%		70-130	21-SEP-12
Magnesium (Mg)-Dissolved			97.4		%		70-130	21-SEP-12
Titanium (Ti)-Dissolved			105.2		%		70-130	21-SEP-12
Batch	R2442242							
WG1548035-19 MS		L1209363-3						
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	21-SEP-12
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	21-SEP-12
Titanium (Ti)-Dissolved			113.9		%		70-130	21-SEP-12
Batch	R2442243							
WG1548035-25 MS		L1209711-3						
Calcium (Ca)-Dissolved			92.1		%		70-130	22-SEP-12
Magnesium (Mg)-Dissolved			99.7		%		70-130	22-SEP-12
Titanium (Ti)-Dissolved			99.3		%		70-130	22-SEP-12
Batch	R2442493							
WG1548035-29 MS		L1210039-13						
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	22-SEP-12
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	22-SEP-12
Titanium (Ti)-Dissolved			107.9		%		70-130	22-SEP-12
WG1548035-31 MS		L1210039-31						
Calcium (Ca)-Dissolved			86.5		%		70-130	22-SEP-12
Magnesium (Mg)-Dissolved			95.6		%		70-130	22-SEP-12
Titanium (Ti)-Dissolved			104.9		%		70-130	22-SEP-12
Batch	R2443020							
WG1547942-9 MS		L1209377-6						
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	24-SEP-12
Magnesium (Mg)-Dissolved			91.3		%		70-130	24-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-ICP-VA								
Water								
Batch	R2443020							
WG1547942-9 MS		L1209377-6						
Titanium (Ti)-Dissolved			95.5		%		70-130	24-SEP-12
Batch	R2443052							
WG1548035-9 MS		L1209492-46						
Calcium (Ca)-Dissolved			99.4		%		70-130	25-SEP-12
Magnesium (Mg)-Dissolved			107.5		%		70-130	25-SEP-12
Titanium (Ti)-Dissolved			109.3		%		70-130	25-SEP-12
Batch	R2443115							
WG1548035-4 DUP		L1209555-17						
Calcium (Ca)-Dissolved		322	323		mg/L	0.4	20	25-SEP-12
Magnesium (Mg)-Dissolved		173	178		mg/L	2.4	20	25-SEP-12
Phosphorus (P)-Dissolved		<0.30	<0.30	RPD-NA	mg/L	N/A	20	25-SEP-12
Silicon (Si)-Dissolved		5.73	5.63		mg/L	1.8	20	25-SEP-12
Titanium (Ti)-Dissolved		0.010	<0.010	RPD-NA	mg/L	N/A	20	25-SEP-12
WG1548035-6 DUP		L1209555-28						
Calcium (Ca)-Dissolved		48.0	47.9		mg/L	0.2	20	25-SEP-12
Magnesium (Mg)-Dissolved		9.64	9.74		mg/L	1.0	20	25-SEP-12
Phosphorus (P)-Dissolved		<0.30	<0.30	RPD-NA	mg/L	N/A	20	25-SEP-12
Silicon (Si)-Dissolved		5.94	5.99		mg/L	0.8	20	25-SEP-12
Titanium (Ti)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	25-SEP-12
WG1548035-5 MS		L1209555-18						
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	25-SEP-12
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	25-SEP-12
Titanium (Ti)-Dissolved			112.7		%		70-130	25-SEP-12
WG1548035-7 MS		L1209555-29						
Calcium (Ca)-Dissolved			100.2		%		70-130	25-SEP-12
Magnesium (Mg)-Dissolved			103.9		%		70-130	25-SEP-12
Titanium (Ti)-Dissolved			112.0		%		70-130	25-SEP-12
Batch	R2443141							
WG1548035-15 MS		L1209537-4						
Calcium (Ca)-Dissolved			96.7		%		70-130	23-SEP-12
Magnesium (Mg)-Dissolved			97.8		%		70-130	23-SEP-12
Titanium (Ti)-Dissolved			106.4		%		70-130	23-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-ICP-VA								
Water								
Batch	R2443782							
WG1547942-13 MS		L1209268-2						
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	25-SEP-12
Magnesium (Mg)-Dissolved			93.7		%		70-130	25-SEP-12
Titanium (Ti)-Dissolved			95.3		%		70-130	25-SEP-12
WG1548035-13 MS		L1209540-7						
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	25-SEP-12
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	25-SEP-12
Titanium (Ti)-Dissolved			94.9		%		70-130	25-SEP-12
Batch	R2444051							
WG1548035-33 MS		L1209581-2						
Calcium (Ca)-Dissolved			112.8		%		70-130	24-SEP-12
Magnesium (Mg)-Dissolved			102.6		%		70-130	24-SEP-12
Titanium (Ti)-Dissolved			111.1		%		70-130	24-SEP-12
MET-DIS-LOW-ICP-VA								
Water								
Batch	R2437951							
WG1547942-2 CRM		VA-HIGH-WATRM						
Aluminum (Al)-Dissolved			99.1		%		80-120	17-SEP-12
Antimony (Sb)-Dissolved			101.2		%		80-120	17-SEP-12
Arsenic (As)-Dissolved			99.6		%		80-120	17-SEP-12
Barium (Ba)-Dissolved			94.6		%		80-120	17-SEP-12
Beryllium (Be)-Dissolved			95.6		%		80-120	17-SEP-12
Bismuth (Bi)-Dissolved			99.7		%		80-120	17-SEP-12
Boron (B)-Dissolved			99.4		%		80-120	17-SEP-12
Cadmium (Cd)-Dissolved			98.7		%		80-120	17-SEP-12
Calcium (Ca)-Dissolved			98.2		%		80-120	17-SEP-12
Chromium (Cr)-Dissolved			98.3		%		80-120	17-SEP-12
Cobalt (Co)-Dissolved			95.5		%		80-120	17-SEP-12
Copper (Cu)-Dissolved			94.8		%		80-120	17-SEP-12
Iron (Fe)-Dissolved			97.6		%		80-120	17-SEP-12
Lead (Pb)-Dissolved			98.6		%		80-120	17-SEP-12
Lithium (Li)-Dissolved			99.1		%		80-120	17-SEP-12
Magnesium (Mg)-Dissolved			98.8		%		80-120	17-SEP-12
Manganese (Mn)-Dissolved			97.6		%		80-120	17-SEP-12
Molybdenum (Mo)-Dissolved			96.8		%		80-120	17-SEP-12
Nickel (Ni)-Dissolved			96.3		%		80-120	17-SEP-12
Phosphorus (P)-Dissolved			101.6		%		80-120	17-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-LOW-ICP-VA		Water						
Batch	R2437951							
WG1547942-2 CRM		VA-HIGH-WATRM						
Potassium (K)-Dissolved			101.1		%		80-120	17-SEP-12
Selenium (Se)-Dissolved			98.0		%		80-120	17-SEP-12
Silicon (Si)-Dissolved			104.0		%		80-120	17-SEP-12
Silver (Ag)-Dissolved			96.5		%		80-120	17-SEP-12
Sodium (Na)-Dissolved			96.7		%		80-120	17-SEP-12
Strontium (Sr)-Dissolved			98.9		%		80-120	17-SEP-12
Thallium (Tl)-Dissolved			97.4		%		80-120	17-SEP-12
Tin (Sn)-Dissolved			99.5		%		80-120	17-SEP-12
Titanium (Ti)-Dissolved			96.9		%		80-120	17-SEP-12
Vanadium (V)-Dissolved			96.0		%		80-120	17-SEP-12
Zinc (Zn)-Dissolved			97.6		%		80-120	17-SEP-12
WG1547942-1 MB								
Aluminum (Al)-Dissolved			<0.050		mg/L		0.05	17-SEP-12
Antimony (Sb)-Dissolved			<0.050		mg/L		0.05	17-SEP-12
Arsenic (As)-Dissolved			<0.050		mg/L		0.05	17-SEP-12
Barium (Ba)-Dissolved			<0.0010		mg/L		0.001	17-SEP-12
Beryllium (Be)-Dissolved			<0.0010		mg/L		0.001	17-SEP-12
Bismuth (Bi)-Dissolved			<0.050		mg/L		0.05	17-SEP-12
Boron (B)-Dissolved			<0.050		mg/L		0.05	17-SEP-12
Cadmium (Cd)-Dissolved			<0.0010		mg/L		0.001	17-SEP-12
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	17-SEP-12
Chromium (Cr)-Dissolved			<0.0050		mg/L		0.005	17-SEP-12
Cobalt (Co)-Dissolved			<0.0050		mg/L		0.005	17-SEP-12
Copper (Cu)-Dissolved			<0.010		mg/L		0.01	17-SEP-12
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	17-SEP-12
Lead (Pb)-Dissolved			<0.030		mg/L		0.03	17-SEP-12
Lithium (Li)-Dissolved			<0.010		mg/L		0.01	17-SEP-12
Magnesium (Mg)-Dissolved			<0.050		mg/L		0.05	17-SEP-12
Manganese (Mn)-Dissolved			<0.0010		mg/L		0.001	17-SEP-12
Molybdenum (Mo)-Dissolved			<0.010		mg/L		0.01	17-SEP-12
Nickel (Ni)-Dissolved			<0.0050		mg/L		0.005	17-SEP-12
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	17-SEP-12
Potassium (K)-Dissolved			<0.10		mg/L		0.1	17-SEP-12
Selenium (Se)-Dissolved			<0.020		mg/L		0.02	17-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-LOW-ICP-VA		Water						
Batch	R2437951							
WG1547942-1 MB								
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	17-SEP-12
Silver (Ag)-Dissolved			<0.010		mg/L		0.01	17-SEP-12
Sodium (Na)-Dissolved			<0.20		mg/L		0.2	17-SEP-12
Strontium (Sr)-Dissolved			<0.0010		mg/L		0.001	17-SEP-12
Thallium (Tl)-Dissolved			<0.030		mg/L		0.03	17-SEP-12
Tin (Sn)-Dissolved			<0.020		mg/L		0.02	17-SEP-12
Titanium (Ti)-Dissolved			<0.010		mg/L		0.01	17-SEP-12
Uranium (U)-Dissolved			<0.50		mg/L		0.5	17-SEP-12
Vanadium (V)-Dissolved			<0.030		mg/L		0.03	17-SEP-12
Zinc (Zn)-Dissolved			<0.0040		mg/L		0.004	17-SEP-12
Batch	R2438079							
WG1547942-15 CRM		VA-HIGH-WATRM						
Aluminum (Al)-Dissolved			99.6		%		80-120	18-SEP-12
Antimony (Sb)-Dissolved			101.6		%		80-120	18-SEP-12
Arsenic (As)-Dissolved			98.7		%		80-120	18-SEP-12
Barium (Ba)-Dissolved			97.5		%		80-120	18-SEP-12
Beryllium (Be)-Dissolved			94.7		%		80-120	18-SEP-12
Bismuth (Bi)-Dissolved			100.6		%		80-120	18-SEP-12
Boron (B)-Dissolved			99.3		%		80-120	18-SEP-12
Cadmium (Cd)-Dissolved			98.2		%		80-120	18-SEP-12
Calcium (Ca)-Dissolved			98.0		%		80-120	18-SEP-12
Chromium (Cr)-Dissolved			99.4		%		80-120	18-SEP-12
Cobalt (Co)-Dissolved			96.3		%		80-120	18-SEP-12
Copper (Cu)-Dissolved			99.4		%		80-120	18-SEP-12
Iron (Fe)-Dissolved			98.2		%		80-120	18-SEP-12
Lead (Pb)-Dissolved			99.5		%		80-120	18-SEP-12
Lithium (Li)-Dissolved			97.4		%		80-120	18-SEP-12
Magnesium (Mg)-Dissolved			96.3		%		80-120	18-SEP-12
Manganese (Mn)-Dissolved			98.0		%		80-120	18-SEP-12
Molybdenum (Mo)-Dissolved			97.4		%		80-120	18-SEP-12
Nickel (Ni)-Dissolved			99.2		%		80-120	18-SEP-12
Phosphorus (P)-Dissolved			100.5		%		80-120	18-SEP-12
Potassium (K)-Dissolved			99.4		%		80-120	18-SEP-12
Selenium (Se)-Dissolved			99.6		%		80-120	18-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-LOW-ICP-VA	Water							
Batch	R2438079							
WG1547942-15 CRM		VA-HIGH-WATRM						
Silicon (Si)-Dissolved			101.9		%		80-120	18-SEP-12
Silver (Ag)-Dissolved			96.7		%		80-120	18-SEP-12
Sodium (Na)-Dissolved			100.0		%		80-120	18-SEP-12
Strontium (Sr)-Dissolved			103.7		%		80-120	18-SEP-12
Thallium (Tl)-Dissolved			97.8		%		80-120	18-SEP-12
Tin (Sn)-Dissolved			97.0		%		80-120	18-SEP-12
Titanium (Ti)-Dissolved			101.6		%		80-120	18-SEP-12
Vanadium (V)-Dissolved			98.4		%		80-120	18-SEP-12
Zinc (Zn)-Dissolved			96.1		%		80-120	18-SEP-12
WG1547942-17 CRM		VA-HIGH-WATRM						
Aluminum (Al)-Dissolved			100.4		%		80-120	18-SEP-12
Antimony (Sb)-Dissolved			102.2		%		80-120	18-SEP-12
Arsenic (As)-Dissolved			99.6		%		80-120	18-SEP-12
Barium (Ba)-Dissolved			97.8		%		80-120	18-SEP-12
Beryllium (Be)-Dissolved			95.6		%		80-120	18-SEP-12
Bismuth (Bi)-Dissolved			101.2		%		80-120	18-SEP-12
Boron (B)-Dissolved			99.9		%		80-120	18-SEP-12
Cadmium (Cd)-Dissolved			98.5		%		80-120	18-SEP-12
Calcium (Ca)-Dissolved			98.8		%		80-120	18-SEP-12
Chromium (Cr)-Dissolved			98.5		%		80-120	18-SEP-12
Cobalt (Co)-Dissolved			96.1		%		80-120	18-SEP-12
Copper (Cu)-Dissolved			99.7		%		80-120	18-SEP-12
Iron (Fe)-Dissolved			99.5		%		80-120	18-SEP-12
Lead (Pb)-Dissolved			99.3		%		80-120	18-SEP-12
Lithium (Li)-Dissolved			98.7		%		80-120	18-SEP-12
Magnesium (Mg)-Dissolved			97.6		%		80-120	18-SEP-12
Manganese (Mn)-Dissolved			98.9		%		80-120	18-SEP-12
Molybdenum (Mo)-Dissolved			98.1		%		80-120	18-SEP-12
Nickel (Ni)-Dissolved			98.6		%		80-120	18-SEP-12
Phosphorus (P)-Dissolved			101.1		%		80-120	18-SEP-12
Potassium (K)-Dissolved			100.7		%		80-120	18-SEP-12
Selenium (Se)-Dissolved			99.8		%		80-120	18-SEP-12
Silicon (Si)-Dissolved			101.6		%		80-120	18-SEP-12
Silver (Ag)-Dissolved			97.2		%		80-120	18-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-LOW-ICP-VA	Water							
Batch	R2438079							
WG1547942-17 CRM		VA-HIGH-WATRM						
Sodium (Na)-Dissolved			100.1		%		80-120	18-SEP-12
Strontium (Sr)-Dissolved			102.8		%		80-120	18-SEP-12
Thallium (Tl)-Dissolved			98.8		%		80-120	18-SEP-12
Tin (Sn)-Dissolved			97.7		%		80-120	18-SEP-12
Titanium (Ti)-Dissolved			102.6		%		80-120	18-SEP-12
Vanadium (V)-Dissolved			99.7		%		80-120	18-SEP-12
Zinc (Zn)-Dissolved			96.5		%		80-120	18-SEP-12
WG1547942-19 CRM		VA-HIGH-WATRM						
Aluminum (Al)-Dissolved			101.7		%		80-120	18-SEP-12
Antimony (Sb)-Dissolved			102.2		%		80-120	18-SEP-12
Arsenic (As)-Dissolved			99.7		%		80-120	18-SEP-12
Barium (Ba)-Dissolved			99.3		%		80-120	18-SEP-12
Beryllium (Be)-Dissolved			96.2		%		80-120	18-SEP-12
Bismuth (Bi)-Dissolved			100.9		%		80-120	18-SEP-12
Boron (B)-Dissolved			100.6		%		80-120	18-SEP-12
Cadmium (Cd)-Dissolved			99.1		%		80-120	18-SEP-12
Calcium (Ca)-Dissolved			98.7		%		80-120	18-SEP-12
Chromium (Cr)-Dissolved			99.8		%		80-120	18-SEP-12
Cobalt (Co)-Dissolved			96.6		%		80-120	18-SEP-12
Copper (Cu)-Dissolved			100.7		%		80-120	18-SEP-12
Iron (Fe)-Dissolved			99.6		%		80-120	18-SEP-12
Lead (Pb)-Dissolved			99.3		%		80-120	18-SEP-12
Lithium (Li)-Dissolved			99.2		%		80-120	18-SEP-12
Magnesium (Mg)-Dissolved			97.6		%		80-120	18-SEP-12
Manganese (Mn)-Dissolved			98.7		%		80-120	18-SEP-12
Molybdenum (Mo)-Dissolved			97.9		%		80-120	18-SEP-12
Nickel (Ni)-Dissolved			99.6		%		80-120	18-SEP-12
Phosphorus (P)-Dissolved			101.7		%		80-120	18-SEP-12
Potassium (K)-Dissolved			100.7		%		80-120	18-SEP-12
Selenium (Se)-Dissolved			99.5		%		80-120	18-SEP-12
Silicon (Si)-Dissolved			100.7		%		80-120	18-SEP-12
Silver (Ag)-Dissolved			98.1		%		80-120	18-SEP-12
Sodium (Na)-Dissolved			100.6		%		80-120	18-SEP-12
Strontium (Sr)-Dissolved			104.8		%		80-120	18-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-LOW-ICP-VA	Water							
Batch	R2438079							
WG1547942-19 CRM		VA-HIGH-WATRM						
Thallium (Tl)-Dissolved			99.1		%		80-120	18-SEP-12
Tin (Sn)-Dissolved			97.5		%		80-120	18-SEP-12
Titanium (Ti)-Dissolved			102.4		%		80-120	18-SEP-12
Vanadium (V)-Dissolved			100.2		%		80-120	18-SEP-12
Zinc (Zn)-Dissolved			96.5		%		80-120	18-SEP-12
WG1547942-21 CRM		VA-HIGH-WATRM						
Aluminum (Al)-Dissolved			101.6		%		80-120	18-SEP-12
Antimony (Sb)-Dissolved			102.9		%		80-120	18-SEP-12
Arsenic (As)-Dissolved			99.9		%		80-120	18-SEP-12
Barium (Ba)-Dissolved			99.3		%		80-120	18-SEP-12
Beryllium (Be)-Dissolved			96.4		%		80-120	18-SEP-12
Bismuth (Bi)-Dissolved			102.4		%		80-120	18-SEP-12
Boron (B)-Dissolved			100.3		%		80-120	18-SEP-12
Cadmium (Cd)-Dissolved			99.3		%		80-120	18-SEP-12
Calcium (Ca)-Dissolved			99.7		%		80-120	18-SEP-12
Chromium (Cr)-Dissolved			100.6		%		80-120	18-SEP-12
Cobalt (Co)-Dissolved			97.4		%		80-120	18-SEP-12
Copper (Cu)-Dissolved			100.7		%		80-120	18-SEP-12
Iron (Fe)-Dissolved			100.5		%		80-120	18-SEP-12
Lead (Pb)-Dissolved			100.3		%		80-120	18-SEP-12
Lithium (Li)-Dissolved			99.1		%		80-120	18-SEP-12
Magnesium (Mg)-Dissolved			97.7		%		80-120	18-SEP-12
Manganese (Mn)-Dissolved			99.8		%		80-120	18-SEP-12
Molybdenum (Mo)-Dissolved			99.4		%		80-120	18-SEP-12
Nickel (Ni)-Dissolved			99.8		%		80-120	18-SEP-12
Phosphorus (P)-Dissolved			101.8		%		80-120	18-SEP-12
Potassium (K)-Dissolved			101.6		%		80-120	18-SEP-12
Selenium (Se)-Dissolved			99.8		%		80-120	18-SEP-12
Silicon (Si)-Dissolved			102.2		%		80-120	18-SEP-12
Silver (Ag)-Dissolved			98.2		%		80-120	18-SEP-12
Sodium (Na)-Dissolved			101.6		%		80-120	18-SEP-12
Strontium (Sr)-Dissolved			105.2		%		80-120	18-SEP-12
Thallium (Tl)-Dissolved			99.2		%		80-120	18-SEP-12
Tin (Sn)-Dissolved			97.8		%		80-120	18-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-LOW-ICP-VA	Water							
Batch	R2438079							
WG1547942-21 CRM		VA-HIGH-WATRM						
Titanium (Ti)-Dissolved			103.7		%		80-120	18-SEP-12
Vanadium (V)-Dissolved			101.2		%		80-120	18-SEP-12
Zinc (Zn)-Dissolved			97.2		%		80-120	18-SEP-12
WG1547942-14 MB								
Aluminum (Al)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Antimony (Sb)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Arsenic (As)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Barium (Ba)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Beryllium (Be)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Bismuth (Bi)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Boron (B)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Cadmium (Cd)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Chromium (Cr)-Dissolved			<0.0050		mg/L		0.005	18-SEP-12
Cobalt (Co)-Dissolved			<0.0050		mg/L		0.005	18-SEP-12
Copper (Cu)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Lead (Pb)-Dissolved			<0.030		mg/L		0.03	18-SEP-12
Lithium (Li)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Magnesium (Mg)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Manganese (Mn)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Molybdenum (Mo)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Nickel (Ni)-Dissolved			<0.0050		mg/L		0.005	18-SEP-12
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Potassium (K)-Dissolved			<0.10		mg/L		0.1	18-SEP-12
Selenium (Se)-Dissolved			<0.020		mg/L		0.02	18-SEP-12
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Silver (Ag)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Sodium (Na)-Dissolved			<0.20		mg/L		0.2	18-SEP-12
Strontium (Sr)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Thallium (Tl)-Dissolved			<0.030		mg/L		0.03	18-SEP-12
Tin (Sn)-Dissolved			<0.020		mg/L		0.02	18-SEP-12
Titanium (Ti)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Uranium (U)-Dissolved			<0.50		mg/L		0.5	18-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-LOW-ICP-VA		Water						
Batch	R2438079							
WG1547942-14 MB								
Vanadium (V)-Dissolved			<0.030		mg/L		0.03	18-SEP-12
Zinc (Zn)-Dissolved			<0.0040		mg/L		0.004	18-SEP-12
WG1547942-16 MB								
Aluminum (Al)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Antimony (Sb)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Arsenic (As)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Barium (Ba)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Beryllium (Be)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Bismuth (Bi)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Boron (B)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Cadmium (Cd)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Chromium (Cr)-Dissolved			<0.0050		mg/L		0.005	18-SEP-12
Cobalt (Co)-Dissolved			<0.0050		mg/L		0.005	18-SEP-12
Copper (Cu)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Lead (Pb)-Dissolved			<0.030		mg/L		0.03	18-SEP-12
Lithium (Li)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Magnesium (Mg)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Manganese (Mn)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Molybdenum (Mo)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Nickel (Ni)-Dissolved			<0.0050		mg/L		0.005	18-SEP-12
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Potassium (K)-Dissolved			<0.10		mg/L		0.1	18-SEP-12
Selenium (Se)-Dissolved			<0.020		mg/L		0.02	18-SEP-12
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Silver (Ag)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Sodium (Na)-Dissolved			<0.20		mg/L		0.2	18-SEP-12
Strontium (Sr)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Thallium (Tl)-Dissolved			<0.030		mg/L		0.03	18-SEP-12
Tin (Sn)-Dissolved			<0.020		mg/L		0.02	18-SEP-12
Titanium (Ti)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Uranium (U)-Dissolved			<0.50		mg/L		0.5	18-SEP-12
Vanadium (V)-Dissolved			<0.030		mg/L		0.03	18-SEP-12



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-LOW-ICP-VA		Water						
Batch	R2438079							
WG1547942-16 MB								
Zinc (Zn)-Dissolved			<0.0040		mg/L		0.004	18-SEP-12
WG1547942-18 MB								
Aluminum (Al)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Antimony (Sb)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Arsenic (As)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Barium (Ba)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Beryllium (Be)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Bismuth (Bi)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Boron (B)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Cadmium (Cd)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Chromium (Cr)-Dissolved			<0.0050		mg/L		0.005	18-SEP-12
Cobalt (Co)-Dissolved			<0.0050		mg/L		0.005	18-SEP-12
Copper (Cu)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Lead (Pb)-Dissolved			<0.030		mg/L		0.03	18-SEP-12
Lithium (Li)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Magnesium (Mg)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Manganese (Mn)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Molybdenum (Mo)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Nickel (Ni)-Dissolved			<0.0050		mg/L		0.005	18-SEP-12
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Potassium (K)-Dissolved			<0.10		mg/L		0.1	18-SEP-12
Selenium (Se)-Dissolved			<0.020		mg/L		0.02	18-SEP-12
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Silver (Ag)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Sodium (Na)-Dissolved			<0.20		mg/L		0.2	18-SEP-12
Strontium (Sr)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Thallium (Tl)-Dissolved			<0.030		mg/L		0.03	18-SEP-12
Tin (Sn)-Dissolved			<0.020		mg/L		0.02	18-SEP-12
Titanium (Ti)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Uranium (U)-Dissolved			<0.50		mg/L		0.5	18-SEP-12
Vanadium (V)-Dissolved			<0.030		mg/L		0.03	18-SEP-12
Zinc (Zn)-Dissolved			<0.0040		mg/L		0.004	18-SEP-12
WG1547942-20 MB								

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-LOW-ICP-VA		Water						
Batch	R2438079							
WG1547942-20 MB								
Aluminum (Al)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Antimony (Sb)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Arsenic (As)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Barium (Ba)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Beryllium (Be)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Bismuth (Bi)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Boron (B)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Cadmium (Cd)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Chromium (Cr)-Dissolved			<0.0050		mg/L		0.005	18-SEP-12
Cobalt (Co)-Dissolved			<0.0050		mg/L		0.005	18-SEP-12
Copper (Cu)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Lead (Pb)-Dissolved			<0.030		mg/L		0.03	18-SEP-12
Lithium (Li)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Magnesium (Mg)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Manganese (Mn)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Molybdenum (Mo)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Nickel (Ni)-Dissolved			<0.0050		mg/L		0.005	18-SEP-12
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Potassium (K)-Dissolved			<0.10		mg/L		0.1	18-SEP-12
Selenium (Se)-Dissolved			<0.020		mg/L		0.02	18-SEP-12
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	18-SEP-12
Silver (Ag)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Sodium (Na)-Dissolved			<0.20		mg/L		0.2	18-SEP-12
Strontium (Sr)-Dissolved			<0.0010		mg/L		0.001	18-SEP-12
Thallium (Tl)-Dissolved			<0.030		mg/L		0.03	18-SEP-12
Tin (Sn)-Dissolved			<0.020		mg/L		0.02	18-SEP-12
Titanium (Ti)-Dissolved			<0.010		mg/L		0.01	18-SEP-12
Uranium (U)-Dissolved			<0.50		mg/L		0.5	18-SEP-12
Vanadium (V)-Dissolved			<0.030		mg/L		0.03	18-SEP-12
Zinc (Zn)-Dissolved			<0.0040		mg/L		0.004	18-SEP-12

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-LOW-ICP-VA		Water						
Batch	R2442237							
WG1547942-11 MS		L1208095-3						
Aluminum (Al)-Dissolved			101.9		%		70-130	21-SEP-12
Boron (B)-Dissolved			95.4		%		70-130	21-SEP-12
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	21-SEP-12
Iron (Fe)-Dissolved			92.4		%		70-130	21-SEP-12
Magnesium (Mg)-Dissolved			92.7		%		70-130	21-SEP-12
Manganese (Mn)-Dissolved			92.7		%		70-130	21-SEP-12
Potassium (K)-Dissolved			104.3		%		70-130	21-SEP-12
Sodium (Na)-Dissolved			N/A	MS-B	%		-	21-SEP-12
Titanium (Ti)-Dissolved			99.6		%		70-130	21-SEP-12
Zinc (Zn)-Dissolved			83.1		%		70-130	21-SEP-12
Batch	R2443782							
WG1547942-13 MS		L1209268-2						
Aluminum (Al)-Dissolved			97.9		%		70-130	25-SEP-12
Boron (B)-Dissolved			91.1		%		70-130	25-SEP-12
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	25-SEP-12
Iron (Fe)-Dissolved			87.6		%		70-130	25-SEP-12
Magnesium (Mg)-Dissolved			93.7		%		70-130	25-SEP-12
Manganese (Mn)-Dissolved			91.1		%		70-130	25-SEP-12
Potassium (K)-Dissolved			101.7		%		70-130	25-SEP-12
Sodium (Na)-Dissolved			N/A	MS-B	%		-	25-SEP-12
Titanium (Ti)-Dissolved			95.3		%		70-130	25-SEP-12
Zinc (Zn)-Dissolved			82.0		%		70-130	25-SEP-12
PH-MAN-VA		Water						
Batch	R2445158							
WG1555738-2 CRM		VA-PH7-BUF						
pH			7.01		pH		6.9-7.1	27-SEP-12
PH-PCT-VA		Water						
Batch	R2444345							
WG1553908-24 CRM		VA-PH7-BUF						
pH			7.01		pH		6.9-7.1	26-SEP-12
WG1553908-25 CRM		VA-PH7-BUF						
pH			7.00		pH		6.9-7.1	26-SEP-12
WG1553908-26 CRM		VA-PH7-BUF						
pH			7.02		pH		6.9-7.1	26-SEP-12

Quality Control Report

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-PCT-VA		Water						
Batch	R2444345							
WG1553908-27 CRM		VA-PH7-BUF						
pH			7.00		pH		6.9-7.1	26-SEP-12
WG1553908-28 CRM		VA-PH7-BUF						
pH			7.02		pH		6.9-7.1	26-SEP-12
WG1553908-29 CRM		VA-PH7-BUF						
pH			7.00		pH		6.9-7.1	26-SEP-12
WG1553908-30 CRM		VA-PH7-BUF						
pH			7.02		pH		6.9-7.1	26-SEP-12
WG1553908-31 DUP		L1209555-19						
pH		8.31	8.32	J	pH	0.01	0.2	26-SEP-12
WG1553908-32 DUP		L1209555-26						
pH		8.24	8.23	J	pH	0.01	0.2	26-SEP-12
TSS-MAN-WR		Water						
Batch	R2442840							
WG1551341-3 DUP		L1209555-23						
Total Suspended Solids		263	257		mg/L	2.1	20	16-SEP-12
WG1551341-6 DUP		L1209555-29						
Total Suspended Solids		15.5	14.0		mg/L	10	20	16-SEP-12
WG1551341-2 LCS								
Total Suspended Solids			104.9		%		85-115	16-SEP-12
WG1551341-5 LCS								
Total Suspended Solids			87.1		%		85-115	16-SEP-12
WG1551341-1 MB								
Total Suspended Solids			<1.0		mg/L		1	16-SEP-12
WG1551341-4 MB								
Total Suspended Solids			<1.0		mg/L		1	16-SEP-12

Quality Control Report

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH by Manual Meter							
	30	Not provided	27-SEP-12 16:00	0.25	314	hours	EHTR-FM
	31	Not provided	27-SEP-12 16:00	0.25	314	hours	EHTR-FM
pH by Meter (Automated)							
	1	12-SEP-12 15:00	26-SEP-12 08:36	0.25	330	hours	EHTR-FM
	2	12-SEP-12 13:50	26-SEP-12 08:36	0.25	331	hours	EHTR-FM
	3	12-SEP-12 14:05	26-SEP-12 08:36	0.25	330	hours	EHTR-FM
	4	13-SEP-12 11:00	26-SEP-12 08:36	0.25	310	hours	EHTR-FM
	5	13-SEP-12 10:00	26-SEP-12 08:36	0.25	311	hours	EHTR-FM
	6	13-SEP-12 09:35	26-SEP-12 08:36	0.25	311	hours	EHTR-FM
	7	12-SEP-12 10:30	26-SEP-12 08:36	0.25	334	hours	EHTR-FM
	8	12-SEP-12 11:30	26-SEP-12 08:36	0.25	333	hours	EHTR-FM
	9	11-SEP-12 16:15	26-SEP-12 08:36	0.25	352	hours	EHTR-FM
	10	13-SEP-12 11:23	26-SEP-12 08:36	0.25	309	hours	EHTR-FM
	11	12-SEP-12 14:20	26-SEP-12 08:36	0.25	330	hours	EHTR-FM
	12	Not provided	26-SEP-12 08:36	0.25	283	hours	EHTR-FM
	13	12-SEP-12 15:30	26-SEP-12 08:36	0.25	329	hours	EHTR-FM
	14	12-SEP-12 14:30	26-SEP-12 08:36	0.25	330	hours	EHTR-FM
	15	12-SEP-12 14:30	26-SEP-12 08:36	0.25	330	hours	EHTR-FM
	16	12-SEP-12 08:30	26-SEP-12 08:36	0.25	336	hours	EHTR-FM
	17	12-SEP-12 09:00	26-SEP-12 08:36	0.25	336	hours	EHTR-FM
	18	11-SEP-12 16:15	26-SEP-12 08:36	0.25	352	hours	EHTR-FM
	19	12-SEP-12 11:00	26-SEP-12 08:36	0.25	334	hours	EHTR-FM
	20	13-SEP-12 13:39	26-SEP-12 08:36	0.25	307	hours	EHTR-FM
	21	13-SEP-12 16:40	26-SEP-12 08:36	0.25	304	hours	EHTR-FM
	22	13-SEP-12 09:00	26-SEP-12 08:36	0.25	312	hours	EHTR-FM
	23	13-SEP-12 10:00	26-SEP-12 08:36	0.25	311	hours	EHTR-FM
	24	Not provided	26-SEP-12 08:36	0.25	283	hours	EHTR-FM
	25	13-SEP-12 12:15	26-SEP-12 08:36	0.25	308	hours	EHTR-FM
	26	13-SEP-12 12:10	26-SEP-12 08:36	0.25	308	hours	EHTR-FM
	27	13-SEP-12 12:04	26-SEP-12 08:36	0.25	309	hours	EHTR-FM
	28	11-SEP-12 14:30	26-SEP-12 08:36	0.25	354	hours	EHTR-FM
	29	11-SEP-12 12:00	26-SEP-12 08:36	0.25	357	hours	EHTR-FM
Anions and Nutrients							
Acidity by Automatic Titration							
	2	12-SEP-12 13:50	27-SEP-12 09:55	14	15	days	EHT
	3	12-SEP-12 14:05	27-SEP-12 09:55	14	15	days	EHT
	7	12-SEP-12 10:30	27-SEP-12 09:55	14	15	days	EHT
	8	12-SEP-12 11:30	27-SEP-12 09:55	14	15	days	EHT
	9	11-SEP-12 16:15	27-SEP-12 09:55	14	16	days	EHT
	11	12-SEP-12 14:20	27-SEP-12 09:55	14	15	days	EHT
	13	12-SEP-12 15:30	27-SEP-12 09:55	14	15	days	EHT
	14	12-SEP-12 14:30	27-SEP-12 09:55	14	15	days	EHT
	15	12-SEP-12 14:30	27-SEP-12 09:55	14	15	days	EHT
	16	12-SEP-12 08:30	27-SEP-12 09:55	14	15	days	EHT
	17	12-SEP-12 09:00	27-SEP-12 09:55	14	15	days	EHT
	18	11-SEP-12 16:15	27-SEP-12 09:55	14	16	days	EHT
	19	12-SEP-12 11:00	27-SEP-12 09:55	14	15	days	EHT
	28	11-SEP-12 14:30	27-SEP-12 09:55	14	16	days	EHT
	29	11-SEP-12 12:00	27-SEP-12 09:55	14	16	days	EHT
Alkalinity by Auto. Titration							
	9	11-SEP-12 16:15	26-SEP-12 08:36	14	15	days	EHT
	18	11-SEP-12 16:15	26-SEP-12 08:36	14	15	days	EHT
	28	11-SEP-12 14:30	26-SEP-12 08:36	14	15	days	EHT
	29	11-SEP-12 12:00	26-SEP-12 08:36	14	15	days	EHT

Legend & Qualifier Definitions:

Quality Control Report

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Report Date: 01-OCT-12

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EHTR-FM:	Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR:	Exceeded ALS recommended hold time prior to sample receipt.
EHTL:	Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT:	Exceeded ALS recommended hold time prior to analysis.
Rec. HT:	ALS recommended hold time (see units).

Notes*:

Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.

Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1209555 were received on 14-SEP-12 13:30.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



ALS Environmental

Chain of Custody / Analytical Request Form
Canada Toll Free: 1 800 668 9878
www.alsglobal.com

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Report To					Report Format / Distribution					Service Request: (Rush subject to availability - Contact ALS to confirm TAT)						
Company: Laberge Environmental Services					Standard: ☒ Other (specify):					Regular (Standard Turnaround Times - Business Days)						
Contact: Bonnie Burns					Select: PDF ☒ Excel ☒ Digital ☒ Fax					Priority (2-4 Business Days)-50% surcharge - Contact ALS to confirm TAT						
Address: PO Box 21072					Email 1: bonnie.burns@northwestel.net					Emergency (1-2 Business Days)-100% Surcharge - Contact ALS to confirm TAT						
Whitehorse, YT					Email 2:					Same Day or Weekend Emergency - Contact ALS to confirm TAT						
Phone: 867-668-6838 Fax:										Analysis Request						
Invoice To Same as Report? (circle) Yes or No (if No, provide details)					Client / Project Information					(Indicate Filtered or Preserved, F/P)						
Copy of Invoice with Report? (circle) Yes or No					Job #:											
Company:					PO / AFE:											
Contact:					LSD:											
Address:					Quote #: Q 36128											
Phone:					ALS Contact:											
Fax:					Sampler:											
Lab Work Order # (lab use only) L1209555																
Sample #	Sample Identification (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Acidity	Alkalinity	Chloride	Conductivity	pH	SO ₄	TSS	ICP metals scan	ICP metals scan	ICP metals scan	ICP metals scan	Number of Containers
	BH13B	12-Sep-12	15:00	GW		☒		☒	☒	☒					☒	
	BH14A	12-Sep-12	13:50	"	☒	☒	☒	☒	☒	☒	☒	☒				
	BH14B	12-Sep-12	14:05	"	☒	☒	☒	☒	☒	☒	☒	☒				
	SRK08-P9	13-Sep-12	11:00	"	☒	☒	☒	☒	☒	☒	☒	☒	☒			
	TH86-2	13-Sep-12	10:00	"		☒		☒	☒	☒		☒	☒			
	TH86-5	"	09:35	"		☒		☒	☒	☒		☒	☒			
	P2001-2A	12-Sep-12	10:30	"	☒	☒	☒	☒	☒	☒	☒	☒	☒			
	P2001-2B	"	11:30	"	☒	☒	☒	☒	☒	☒	☒	☒	☒			
	P2001-3	11-Sep-12	16:15	"	☒	☒	☒	☒	☒	☒	☒	☒	☒			
	P96-9A	13-Sep-12	11:23	"	☒	☒	☒	☒	☒	☒	☒	☒	☒			
	SRK05-05C	12-Sep-12	14:20	"	☒	☒	☒	☒	☒	☒	☒	☒	☒			
	BD-6			"		☒		☒	☒	☒					☒	
Special Instructions / Regulation with water or land use (CCME- Freshwater Aquatic Life/BC CSR-Commercial/AB Tier 1-Natural/ETC) / Hazardous Details																
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.																
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.																
SHIPMENT RELEASE (client use)					SHIPMENT RECEPTION (lab use only)					SHIPMENT VERIFICATION (lab use only)						
Released by:	Date:	Time:	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations:	Yes / No ? If Yes add SIF					
			Sen	17-Sep-12	15:30	4.5 °C										

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY

YELLOW - CLIENT COPY

GENF 18.01 Front

Report To			Report Format / Distribution			Service Request:(Rush subject to availability - Contact ALS to confirm TAT)											
Company:			Standard: Other (specify):			Regular (Standard Turnaround Times - Business Days)											
Contact:			Select: PDF Exce Digital Fax			Priority(2-4 Business Days)-50% surcharge - Contact ALS to confirm TAT											
Address:			Email 1:			Emergency (1-2 Business Days)-100% Surcharge - Contact ALS to confirm TAT											
Phone:			Email 2:			Same Day or Weekend Emergency - Contact ALS to confirm TAT											
						Analysis Request											
Invoice To Same as Report ? (circle) Yes or No (If No, provide details) Copy of Invoice with Report? (circle) Yes or No						(Indicate Filtered or Preserved, F/P)											
Company:						Job #:											
Contact:						PO / AFE:											
Address:						LSD:											
Phone:						Quote #:											
Fax:						ALS Contact:											
Lab Work Order # (lab use only)						Sampler:											
Sample #	Sample Identification (This description will appear on the report)		Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Acidity	Alkalinity	Chloride	Conductivity	pH	S04	TSS	ICP metals scan	ICP metals scan	ICP metals reduced	ICP metals reduced	Number of Containers
	SRK05-07		12-Sep-12	15:30	GW	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	SRK05-08		"	14:30	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	SRK05-9		"	14:30	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	V34		"	08:30	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	V35		"	09:00	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	V36		11-Sep-12	16:15	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	V37		12-Sep-12	11:00	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	SRK08-P14		13-Sep-12	13:39		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	SRK08-P15		"	16:40		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	~~SRK08-P16~~																
	P09-GSIA		13-Sep-12	09:00	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	P09-GSIB		13-Sep-12	10:00	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Special Instructions / Regulation with water or land use (CCME- Freshwater Aquatic Life/BC CSR-Commercial/AB Tier 1-Natural/etc) / Hazardous Details																	
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SHIPMENT RELEASE (client use)			SHIPMENT RECEPTION (lab use only)				SHIPMENT VERIFICATION (lab use only)										
Released by:	Date:	Time:	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations: Yes / No ? If Yes add SIF							
						°C											

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