

draft for discussion

**Anvil Range Mine
2007 Groundwater Monitoring
Report**



Prepared for
Deloitte & Touche Inc.
(acting as court-appointed Interim Receiver for
Anvil Range Mining Corporation)

Submitted by
Gartner Lee Limited

January 2008



Gartner Lee

draft for discussion

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January 2008

Reference: **GLL 70549**

Distribution:

**1e Deloitte & Touche
1e Faro Mine Closure Planning Office
1e Gartner Lee Limited**



Gartner Lee



Gartner Lee Limited

January 22, 2008

Valerie Chort
Deloitte and Touche Inc.
Via email: vchort@deloitte.ca

Dear Ms. Chort:

**Re: 70-549– Anvil Range Mine, Rose Creek Tailings Facility, 2007 Groundwater
Monitoring Report, Draft Report**

We are pleased to present you with a copy of our draft report. Please review at your earliest convenience and contact me to discuss your comments and revisions. The data included in this report will also undergo further QA/QC prior to finalizing the report.

Please do not hesitate to contact me at ext. 5724 should you have any questions. We thank you for the opportunity to work on this project and look forward to the upcoming 2008 season.

Yours very truly,
GARTNER LEE LIMITED

Martin Guilbeault, M.Sc., P.Eng
Hydrogeologist

c.c.: Faro Mine Closure Planning Office c/o Roger Payne

MG:kh

Executive Summary

draft for discussion

The Anvil Range Mine produced lead and zinc concentrates from 1969 to 1998, when it closed permanently. The mine facilities include 3 large open pits, rock piles, tailing impoundments, processing plant and the entire associated infrastructure. A comprehensive network of groundwater monitoring wells are installed within and downgradient of rock piles and tailings impoundments. The monitoring wells are a requirement of the Water License and also provide valuable information for reclamation planning.

All of the monitoring wells that are named in the Water License are routinely monitored at least twice per year (spring and fall) as required. Additional monitoring is also completed to meet the needs of reclamation planning projects and, also, of the Adaptive Management Plan that forms part of the Water License.

A total of four groundwater monitoring programs were completed by Gartner Lee:

1. Routine bi-annual groundwater sampling (May/June and October) of all Water License wells; and
2. Adaptive Management Plan (AMP) sampling of select wells (August and November).

In addition to the above, other wells related to reclamation planning were sampled at the request of various project managers. The field and laboratory data for all of the above are included in this report. A comprehensive review of recent groundwater monitoring data collected between 2005 and mid-2007 was recently completed by Robertson GeoConsultants Inc. (RGC, 2007).

The summary results of the 2007 monitoring programs are as follows:

- Wells were monitored as required or requested;
- QA/QC results of the laboratory analyses are acceptable, with some specific follow up with ALS for 2008 recommended (Appendix C); note that QA/QC of data is on-going as the data undergoes further review by GLL and other users.
- Various observations were recorded regarding the physical condition of the wells; and
- Several items are recommended for 2008, which include general maintenance of the physical condition of the wells, surveying, and follow up to QA/QC results (Section 6.0).

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- A. Original Laboratory Reports
- B. Quality Assurance (QA/QC) of Samples 2007
- C. Well Maintenance and Issue Memos

1. Introduction

The Anvil Range mine, located in the central Yukon approximately 200 km NNE of the City of Whitehorse, was an open pit lead and zinc mine that produced lead and zinc mineral concentrates. Mining and milling activities were suspended in January 1998 and the owner, Anvil Range Mining Corporation, entered into receivership in April 1998. Since that time, the site has been under the management of Deloitte & Touche Inc., acting as court-appointed Interim Receiver for Anvil Range Mining Corporation (the "Interim Receiver").

The mine facilities include 3 large open pits, rock piles, tailing impoundments, processing plant and the entire associated infrastructure. A comprehensive network of groundwater monitoring wells are installed within and downgradient of rock piles and tailings impoundments. The monitoring wells are a requirement of the Water License and also provide valuable information for reclamation planning.

All of the monitoring wells that are named in the Water License and are deemed in good operational condition are routinely monitored at least twice per year (spring and fall) as required. Additional monitoring is also completed to meet the needs of reclamation planning projects and, also, of the Adaptive Management Plan that forms part of the Water License.

The locations of all monitoring wells at the site are shown on Figure 1, Figure 2, Figure 3 and Figure 4.

The oldest monitoring wells on the site that remain operable were installed in 1981. Replacement wells were installed in 1996 for some damaged or lost wells. In 2001, a comprehensive hydrogeological and geochemical investigation of the Rose Creek Tailings facility was conducted that resulted in the installation of twenty-two groundwater monitoring wells at eleven locations in and downgradient of the tailings impoundments. In 2003, a drilling and coring investigation was undertaken using sonic drilling technology to obtain detailed stratigraphic information from ground surface down to bedrock. As part of this program, 76 additional groundwater sampling points were installed at nine locations within and downgradient of the tailings impoundments. In 2005, seventeen of the wells installed in 2001 were decommissioned due to operational issues.

In 2004 and 2005, new groundwater monitoring wells were installed by others as part of a series of reclamation planning studies. Some of these wells were added to the list of routinely monitored groundwater wells while others were targeted for a single round of sampling. Gartner Lee Limited collected groundwater samples from these wells on request of the various project managers and the analytical results have been included in this summary report. All the wells monitored by Gartner Lee in 2007 are specifically listed in Table 1 and their locations are shown on Figure 2, Figure 3, Figure 4, Figure 5 and Figure 6.

In 2007, routine Water License groundwater sampling occurred during two field visits: one between May 28th and June 2nd and the other between October 1st to 11th. Wells X24-96 and X25-96, and

P03-04, P03-08, and P03-09 also included in the spring and fall sampling, are required for additional sampling as part of an Adaptive Management Plan (AMP). These wells were sampled four times in 2007: May (X24-96 frozen at this time), August, October and early November. Another well SRK05-09 (Moosew2) was also sampled by mine staff as part of the AMP component for the Vangorda mine assessment. This data is provided to GLL and imported to the water database. Differences in dissolved metal concentrations are noted between those samples collected by GLL and mine staff at this location, as the mine does not filter or preserve their samples on-site. The summer AMP sampling occurred from August 1st to 3rd and the “fall/winter” sampling was done between November 4th and 6th. Data from the AMP sampling are presented in this report and described more thoroughly through reporting on the AMP Program. A summary of field activities and a list of wells that were sampled are included in Table 1. Available well construction details are summarized in Table 2. All of the available groundwater quality data collected by Gartner Lee is maintained electronically and is available upon request and upon approval of the Interim Receiver.

This report is a factual report, which provides a summary of the 2007 field activities and data. This report is not intended to provide an assessment of trends or variances in the data. Consequently, users of the data are cautioned to assess the data for anomalies that may emerge as trend and variance analyses are undertaken. Any potential anomalies in the data that were observed during the preparation of this report have been identified herein, as an aid to users of the data. A comprehensive review of recent groundwater monitoring data collected between 2005 and mid-2007 was recently completed by Robertson GeoConsultants Inc. (RGC, 2007). Observations and recommendations listed in this report and in the data review report will be incorporated into future monitoring programs.

2. Quality Assurance and Quality Control

The definition of quality assurance (QA) is “a system of activities whose purpose is to provide the producer or user of a product or service the assurance that it meets defined standards of quality with a stated level of confidence”. Separate QA programs exist for both the field sampling procedures (collection, preservation, filtration, and shipping components) and analytical procedures (laboratory component). Therefore, QA is essentially the management system that operates to ensure credible results. The QC component of this system is a set of activities intended to control the quality of the data from collection through to analysis. It consists of the adherence to written protocols; up-to-date and suitable training of personnel; the use of reliable, well maintained and properly calibrated equipment; the regular use of QC samples (blanks, reference samples, spikes and replicates); and diligent record keeping.

The field QA program is a series of basic precautions that are necessary to maximize the accuracy by reducing introduced variability to ensure the program's success. These precautions are

generally a matter of ensuring the field staff maintain consistency and they are diligent while in the process of collecting, preserving, filtering and shipping samples. The QC component is incorporated to minimize potential imprecision and bias in the data.

QC samples collected during the 2007 field program consist of the following:

- Field Split – assessment of laboratory repeatability
- Laboratory Replicates – assessment of analytical precision

QA/QC results are discussed in the following sections. Additionally, the reader is referred to the original Laboratory reports in Appendix A.

2.1 General QA/QC Measures

The following quality assurance and quality control (QA/QC) procedures were incorporated into the 2007 sampling events:

1. Wells were purged to remove standing water from the well prior to sampling and to ensure sampling of fresh formation water. This consisted of either pumping the well dry or removing approximately three well volumes from conventional wells and at least one well volume from small diameter multi-level bundle wells. In most cases, field parameters were monitored as the well was purged. A comparison of samples collected from multi-level wells (either by Environment Canada or GLL) after one to three well volumes revealed that one well volume was sufficient purge volume for the multi-levels, as described in the 2005 groundwater sampling report.
2. To reduce the risk of cross-contamination, samples were collected in order of least potentially contaminated to most potentially contaminated, as practical. In areas of nested monitors, deeper monitors screened in the aquifer were purged and sampled prior to monitors in tailings.
3. All samples collected for dissolved metals analyses were filtered and preserved in the field, immediately after sampling. New, sterile disposable 0.45-micron filters were used to filter each sample immediately after collection.
4. Field measurements of pH, conductivity and temperature were recorded. The pH and conductivity probes were calibrated daily. Calibration was verified periodically in the field.
5. Extreme caution was exercised when handling sampling equipment and working at sites with exposed tailings at surface to minimize the risk of possible contamination from tailings during sample collection and handling.
6. Field split samples were collected. Split samples are collected using the same filtering equipment and by splitting the sampling stream between individual bottles to obtain two or more identical samples. This was done to verify laboratory repeatability.
7. Following sample collection, all samples were stored in a cooler with ice packs and transported by courier to the laboratory within the allotted transport periods. ALS Environmental of Vancouver, BC (ALS), a member of the Canadian Association for Environmental Analytical Laboratories (CAEAL), conducted all water analyses.

8. Internal laboratory QA/QC procedures were also maintained by ALS (as reported in the laboratory reports provided in Appendix A).

2.1.1 Chain of Custody Reports

Chain of Custody Reports are completed for the samples submitted for analysis for the purpose of tracking the samples collected and to ensure that the parties involved were properly informed as to the nature of the samples. These reports were made up prior to delivering the samples to the laboratory and normally include the following information: project number; sample ID's, type of analysis required, sampling date and time, matrix sampled, sampler's name, and Project Manager's name. The QA/QC samples are placed in coolers with ice and submitted to the analytical laboratory along with the Chain of Custody forms. Copies of the Chain of Custody forms are retained in GLL's project files and are used by the lab as a guide to complete the analytical laboratory reports.

2.2 Water Quality

2.2.1 Field Split Samples

Field split samples were collected and analyzed for approximately 10% of groundwater samples collected in the field (see item no.6 in section 2.1 for a description of the collection method and function of the sample type). Analysis of field QA/QC samples are summarized in Appendix B and include the determination of the Relative Percent Difference (discussed later in section 2.3) between samples. The field QA/QC sample collection for the 2007 season is summarized below:

- During the May/June 2007 (spring) groundwater sampling event, 136 samples including 11 split samples were collected from 125 monitors. The entire sample set, in this case, included samples from the Rose Creek Tailings Facility, including the multilevel wells and all conventional wells in the Rose Creek Tailings Impoundment, and groundwater monitoring wells across the remainder of the property (Table 1, Table 3).
- During the August 2007 (summer AMP) groundwater sampling event, 18 samples including 2 split samples were collected from 16 monitors.
- During the October 2007 (fall) groundwater sampling event, a total of 149 samples including 12 split samples were collected from 137 monitors. The sample set during the fall 2007 sampling event included most conventional wells constructed prior to 2001, the multilevel wells constructed in 2003 and some of the new wells installed in 2004 and 2005.
- During the November 2007 (fall/winter AMP) groundwater sampling, 18 samples including 2 split samples were collected from 16 monitors.

2.2.2 Laboratory Replicates

Between two and seven groundwater samples from each analytical laboratory report were analyzed in replicate for select parameters, by the laboratory. Laboratory replicates are samples analyzed randomly by the laboratory for their own internal QA/QC. The purpose of these samples is to determine the precision and reproducibility of the laboratory sample analyses. Analysis of laboratory replicated data for groundwater samples are summarized in Appendix A and includes the determination of Relative Percent Difference (RPD) between samples (a discussion RPD is outlined in Section 2.3).

2.3 Relative Percent Difference Analysis

To assess analytical variability, split samples were used to calculate the relative percent difference (RPD). RPD is defined as the following:

$$\%RPD = \frac{2(X_1 - X_2)}{(X_1 + X_2)} * 100$$

Where: X_1 = The concentration of the first sample;
 X_2 = The concentration of the second sample (i.e. the split sample).

The Relative Percent Difference (RPD) is the difference between the sample result and replicate (or split) result, divided by the average of the sample result and replicate result. An RPD of <50% can be used as a benchmark whereby an RPD of greater than 50% warrants further consideration, so long as both results being compared are greater than the Practical Quantitation Limit (PQL), where PQL is 5 times the Method Detection Limit (MDL). If one or both of the results are less than PQL, then RPD is not useful.

2.3.1 Relative Percent Difference – Field QA/QC Samples

Appendix A contains quality assurance data collected during each field episode. As shown in Appendix B, of the twenty-seven field QA/QC samples 5 reported parameters with RPD results greater than 50% in May/June, and only 5 samples contained RPD results greater than 50% in October. Of these, the concentrations under consideration that were less than PQL, and therefore require no further investigation are the following:

- P2001-03, May '07, Aluminum
- P03-04-03, May '07, Aluminum
- SRK05-SP-4A, May '07, Vanadium
- P96-6, Oct '07, Manganese
- P03-02-03, Oct '07, Zinc
- P03-01-05, Oct '07, Aluminum

RPD values greater than 50% and which met PQL restrictions are as follows:

- SRK05-SP-1B, May '07, Alkalinity
- SRK05-SP-4A, May '07, Cobalt, Iron, Lithium, Manganese, and Nickel
- P03-05-03, Oct '07, Zinc
- P03-04-01, Oct '07, Iron

The above 4 sampling locations should be targeted for future QA/QC monitoring, in order to confirm or refute the results obtained above.

2.3.2 Relative Percent Difference – Lab QA/QC Samples

Laboratory QA/QC replicate results can be found in Appendix A, at the back of each report. Between two and seven samples were analyzed for select parameters within each laboratory report. The internal laboratory RPD limit was set at 20, where all samples analyzed were below this QC limit, suggesting adequate analytical precision.

2.4 General QA/QC Discussion

In 2007, Gartner Lee encountered QA/QC concerns with the analytical results provided by ALS Laboratories. One issue was concerning elevated zinc detection limits, and the second related to concerns of charge balance inaccuracies resulting in sulphate concentration reporting errors. These observations stemmed from GLL QA/QC and third party data review observations (RGC, 2007). These issues are summarized in more detail below.

In early 2007 (as part of an independent data review), it was observed that many of the samples which typically had low detection limits for zinc specifically, were reported with higher than usual detection limits during 2006 and also early 2007. ALS analytical laboratory was contacted and the issue was discussed. In general, the higher detection limits were attributed the following:

- Implementation of a new laboratory information management system (LIMS), which had been used since November 2006. In order to streamline analyses, data was reported from different instruments/methods resulting in many cases in higher detection limits being reported than those that could be achieved.
- cross-contamination of laboratory equipment during analysis resulting in contaminated laboratory equipment blanks and consequently higher detection limits.
- The analytical data included in this report was provided to GLL, in different re-analyzed/corrected “batches” as data was re-analyzed, in some cases resulting in improved detection limits.
- The data provided in this report is the result of continued quality assessment as outlined in the memo found in Appendix C. The detection limits should represent the lowest ones achievable after revision and re-analysis of the data by ALS laboratories.

Erroneous charge balance results for select 2007 samples resulted in errors in reported sulphate concentrations due to laboratory error introduced by sampling dilution. ALS was contacted and provided with 3 examples of erroneous charge balances within the 2007 data set. The laboratory re-analyzed all 2007 data and provided corrected sulphate values in a new analytical report for each sample affected. ALS provided GLL with the sulphate updates by late December and the database was updated accordingly (Appendix A).

All corrected zinc and sulphate values have been updated within the Faro water database and the laboratory reports presented in Appendix A represent the most recent updated and corrected data. A memo from ALS can be found in Appendix C, which details the above issues further and outlines improved QA/QC procedures which will be implemented in the future for the Faro project.

3. 2007 Water Levels

All water level data for 2007 available to Gartner Lee at the time of writing of this report are included in Table 4 and Table 5. Gartner Lee collected these data during routine and AMP sampling. All water levels were measured prior to sampling of the wells.

4. 2007 Groundwater Quality Data

Analytical results, including field parameters for 2007 groundwater sampling are presented in Table 6. This data includes all samples collected by Gartner Lee as part of the monitoring programs listed herein.

5. Field Logistics and Sampling Issues

The following provides a summary of major observations and maintenance activities from 2007. In addition, more detailed information is provided in memos found in Appendix C. Maps showing the location of the current network of wells monitored by Gartner Lee (and other additional wells) is presented in Figure 2, Figure 3, Figure 4, Figure 5 and Figure 6.

5.1 Original Tailings Impoundment

Wells monitored within the original tailings impoundment (Figure 3) include P03-07 and TH86-17 (located directly to the east of the original tailings impoundment). Conditions in 2007 were as follows:

- **P03-07** – As summarized in the 2006 groundwater monitoring report, most monitors at this location are usually frozen. The only point which could be sampled in 2007 is point P03-07-05 (Table 1).

5.2 Second Impoundment Southeast Corner

The wells monitored in the southeast corner of the second impoundment are multi-level wells P03-01, P03-02 and P03-03 (Figure 3). Groundwater quality at P03-03 is currently under review for possible effects from well P01-09, which was decommissioned in the fall of 2005 (RGC, 2006) and this should be considered when using this data. Wells P03-01, P03-02 and P03-03 were sampled in May/June and October of 2007.

- **P03-03-07** – degassing of the formation or production of gas occurred for over eight hours immediately following sampling in May of 2005. Bubbling of gas up the sample tube caused airlifting of groundwater to the top of the tube and out of the protective steel casing. The cause for this has not been determined. For health and safety reasons, the well was therefore not sampled in 2006 or 2007 and it is recommended that this monitor not be sampled in the future. The well was capped and flagged to no longer sample in June 2007.
- **P03-02-06** - degassing of the formation or production of gas also occurred at this location during sampling in June of 2006. Bubbling of gas up the sample tube caused airlifting of groundwater to the top of the tube and out of the protective steel casing. This sample point was not sampled in 2007. As recommended for P03-03-07, this well should not be sampled in the future (well was capped and flagged as such in June 2007) or at least until the cause of gas production has been determined.

5.3 Second Impoundment – Northern Section

The monitoring wells in the northern section of the Second Impoundment include multi-level well P03-04 (on the secondary dam) and multi-levels P03-05 and P03-06 (Figure 3).

- **P03-04-09** – this point is screened in the tailings and has slow recharge and therefore yielded enough volume for dissolved metals analysis only (no general chemistry) in May/June.
- **P03-04-05** – this point was reportedly blocked and could not be sampled in October.
- **P03-06-06** – There was only enough water for a dissolved metals analysis (no general chemistry parameters) in May/June 2007. A sample could not be collected during the October

sampling event due to problems lowering the sample tubing into the well. This was possibly due to frozen conditions in the well.

- **P03-06-07** – This point was dry during both the May/June and October sampling event.

5.4 Intermediate Impoundment

The monitoring wells that are sampled in the Intermediate Impoundment are X21-96 A/B/C (Figure 3), and multi-level well P03-08 (Figure 2).

- **X21C-96** – It has been noticed since 2004 that this well produces tailings. In 2006, this issue was discussed in more detail (GLL, 2007). We note that this well is listed in the Water License. It is recommended by Gartner Lee and others (RGC, 2007) that this well be decommissioned and no longer monitored. It was also noted that a replacement well is not considered warranted at this time (RGC, 2007).
- **P03-08-02** – monitoring point reportedly blocked and not sampled in October (Appendix C).
- **P03-08-06** – monitoring point was not sampled in October due to slow recharge.

5.5 Toe of Intermediate Dam

The monitoring wells at the toe of the Intermediate Dam (up-gradient of the Cross-Valley Pond) are X24-96 A/B/C/D, X25-96 A/B, P01-03 and P01-04 A/B (Figure 2). All wells were targeted for sampling in May/June and October 2007. Wells X24-96 and X25-96 were also sampled in August and November for the AMP program.

- **X24-96 B/C** – Wells were not sampled in 2007 due to operational issues and recommendations outlined by Gartner Lee (2007). Based on field observations made by Gartner Lee in 2007, it is recommended that these wells be decommissioned (RGC, 2007).
- **X24A-96** – Well is suspected to have been compromised upon installation (RGC, 1996) and decommissioning should be considered based on the present condition. This conclusion is also supported by others (RGC, 2007).
- **X24A/D-96** – Wells were sampled in August, October and November 2007. The wells were frozen in May/June 2007. X24D-96 is the only well from the nested X24-96 series that is recommended to remain operational for continued groundwater monitoring (RGC, 2007).
- **X25A-96** – The stickup at this location was shortened by 11.5 cm to facilitate sampling using the Hydrolift system. The new measured stick-up of the well is 0.44 m. above ground. (update has been accounted for in the water database).
- **X25B-96** – The stickup at this location was shortened by 5.5 cm to facilitate sampling by allowing use of the Hydrolift system. The new measured stick-up of the well is 0.42 mbtoc. (update has been accounted for in the water database).
- **P01-03** – Well was frozen in May/June. The well was sampled in October.

5.6 Down Gradient of the Cross Valley Dam

The following wells are located downgradient of the Cross-Valley dam (down-gradient of the tailings impoundment): P01-01 A/B, P01-02 A/B, P03-09, P01-11, X16 A/B, X17 A/B, X18 A/B, P05-01, P05-02, P05-03 (Figure 2). These wells were all sampled in 2007. In addition, there were several wells which were not sampled, these are MW1, MW2, PW1 and PW2 originally installed in 2005 for hydraulic testing and monitoring of the aquifer.

- **P01-02 A** – well was frozen in May/June.
- **P01-02 B** – Riser pipe noted to be missing in May/June (fix 2008); well was frozen in October.
- **P01-11** – Approximately 7.3cm of PVC riser pipe was cut to bring well flush to casing and allow proper closure of the protective casing lid. The new measured stick-up of the well is 0.48 m. above ground surface. (update has been accounted for in the water database).
- **P03-09** – Area around well was cleared in June and the protective steel casing spray-painted in October 2007.
- **P05-02** – well was frozen in May/June.
- **X16B** – PVC stick-up was shortened in June 2006 to a height of 0.95 m. above ground surface (update has been accounted for in the water database).
- **X17 A/B** – Trail leading to wells was cleared and well flagged in June. X17B is a 3" well and was found to be open to the atmosphere in October. It was therefore covered with a plastic pail to block the entrance of precipitation into the well.
- **X18A/B** – Trail leading to wells was cleared and well flagged in June. Wells were found uncapped and were temporarily covered with nitrile sampling gloves, and later replaced with well caps in October. Sampling tubing remains lodged in X18A but does not interfere with sampling methods; however, may yield an erroneous total depth to bottom of well from TOC (approximately a 2 m difference).
- **P05-01** – Points 1 through 5 (of a total of six points) were frozen in May/June. All monitoring points were sampled in October.

5.7 Faro Rock Dump Area (South of Haul Road)

The wells located at the base of the Faro Rock Dumps and South of the Haul Road (Figure 4) are P96-7, P96-8 A/B (Figure 3), S1 A/B, S2 A/B, S3, SRK04-2 A/B. Piezometers DP1, DP2, DP3 and DP4 are also located near these wells in the North Fork of Rose Creek. A transect of wells (SRK-SP-1 through SRK-SP-6) are also monitored (Figure 4).

- **S2A** – As follow-up to previous recommendations (GLL, 2007), the coupling at ground surface for this well should be glued and sealed. The stick-up at S2A is quite high; therefore to facilitate sampling the stickup should be shortened by a reasonable length and the coupling should be glued. The new stick-up should then be surveyed as part of the overall site survey, and the well modifications recorded in the water database.

- **S3** – A new stick-up of 1.12m was recorded for this well during the May/June 2007 field event. This stick-up was recorded to be relevant since September 2006 (update has been accounted for in the water database).
- **SRK05-SP-6** – Well was dry during the May/June 2007 sampling event.
- **P96-8 A/B** – Both wells were frozen in May/June. Due to the noted occurrence of hydrocarbon odours from well P96-8A, it was sampled for hydrocarbons in October by GLL field staff; however, laboratory analysis was never completed by the lab, this was likely due to the fact that this was an unusual analysis request for Faro groundwater samples thus far. This well should be re-sampled for hydrocarbons in 2008 with a note of attention placed on the COC to ensure ALS staff note the additional analysis requested.

5.8 Faro Rock Dump Area (North of Haul Road – Zone II and North Area)

Wells to the north of the haul road and downgradient of the Faro rock dumps are P96-6, BH1, BH2, BH4, BH5, BH6, BH7 S/D, BH10 A/B, BH05-01, BH12 A/B, BH13 A/B, BH14 A/B, P05-04, DP5 and DP6 (Figure 5).

- **BH05-01** – This well is not part of the routine groundwater sampling network of wells; it was installed in 2005 to monitor shallow aquifer response during a pumping test. The well has been dry since installation.
- **BH1** – An extension piece of 1" diameter was added to BH1 in May 2007, creating a stick-up of 0.88 m. above ground surface. It is not known whether this well was sheared at ground surface by mine equipment. The well was damaged again by the October sampling event, once again resulting in a very short stick-up of 0.085 m. above ground surface (update has been accounted for in the water database). This well should be targeted for repair in 2008, concerning the stick-up and addition of a protective steel casing.
- **BH4** – Well was frozen in May/June.
- **BH6** – Evidence of new frost jacking (1.8 cm) as indicated by markings made in September 2007. Integrity of well should be investigated with downhole camera in 2008.
- **DP6** - Drive-point is located in the streambed of the North Fork of Rose Creek. It does not have sampling tubing; however, water levels were collected at this location during the spring event. Water levels were not collected during the fall event due to access constraints.
- **BH7 S/D** – Neither of these wells have protective steel casings. Water/ground staining lines are evident at the base of both wells within approximately 0.50 m of ground surface. It is suspected that frost jacking has compromised these wells. New evidence of frost jacking was noted at this location in Spring 2007 (Appendix C). Both wells at BH7 should be decommissioned as outlined in the 2006 annual report. This conclusion is also supported by RGC, 2007.
- **BH10 A/B** – Protective steel casing and wells are inclined at ground surface at an angle of approximately 34 degrees (from vertical). It has been determined that these wells were installed on an angle by design. However, investigation with a downhole camera should be

performed prior to sampling in 2008 to address previous sampling difficulties such as water level and sampling equipment getting stuck in the well.

- **BH12 A/B** – Both wells were frozen in May/June with a seep glacier covering localized area at surface.
- **BH13 A/B** – BH13A was frozen during the spring event and BH13B was dry. Both samples were collected in October.
- **P96-6** – stick-up piece attempted to be re-glued; however, field staff reported site to be glued was too deep within steel casing to be accessible. Well should be investigated for an alternate means of repair in 2008.

5.9 Emergency Tailings Area (ETA)

SRK04-3 A/B, SRK04-4, SRK05-ETA-BR 1/2, and ETA-05 1 through 5 were installed by SRK in 2004 and 2005 to supplement the monitoring network associated with the Faro Rock Dump area (Figure 3).

- **ETA05-4** – Well was frozen in May/June. Well was previously noted to have a hydrocarbon odour and sampled as such in October (Appendix C).

5.10 Vangorda Rock Dump Area

The wells located near the Vangorda Rock Dump (Figure 4) are P2001-03 and P2001-02A/B (previously referred to as P01-51 and P01-52 A/B respectively), V34, V35, V36 and V37.

- **P2001-03** – A groundwater sample could not be obtained from this well during the October sampling event. The well is very deep with an approximate depth to water of 38 mbtoc. The hydrolift and Honda pump are therefore typically used to purge the well; however, field staff were unable to achieve any flow from the well.

5.11 Grum Rock Dump Area

The wells located near the Grum Rock Dump (Figure 4) are P96-9A, SRK04-5 A/B, SRK05-05C, SRK05-06, SRK05-07, SRK05-08, SRK05-09 and BH05-9B-R. Well BH05-9B-R is a replacement well for well P96-9B which is now inoperable. The following issues were identified during the 2007 season:

- **SRK05-05C** – Well frozen in May/June.
- **BH05-9B-R** – Well frozen during October sampling event.
- **SRK05-09** – Stick-up piece found to be cut-off and lying near well (update has been accounted for in the water database). Mine staff may have altered the stick-up for the well as they also sample at this location (MOOSEw2) on a routine basis

- **SRK04-5 A/B** – These wells are artesian and mechanical packers have been installed to prevent overflow of water. These packers are removed and reinstalled each time the wells are sampled. In May and October 2007, both packers were found with residual water (assumed precipitation, could be leakage of well water up through packer) above the packers, which had frozen in the wells. As a result, no samples were collected from these wells in 2007.
- **P96-9A** – Stick-up measured in the field to be 0.84 m above ground surface (update has been accounted for in the water database).

6. Recommendations

Various recommendations for implementation in 2008 are provided throughout the report and are summarized in this section.

6.1 General Care and Maintenance

In general, the physical condition of each monitoring well should be inspected during each sampling event; minor maintenance requirements should either be dealt with immediately if possible or planned for the next field program; serious maintenance or repairs should be communicated to the Interim Receiver with a recommended plan for resolution. Some maintenance and general due diligence activities include:

- **BH7 D/S** – Continue to document any changes in position and elevation of wells relative to ground surface until wells are properly decommission wells. Both wells at BH7 should be examined and conditions documented with a down-hole camera if possible prior to decommissioning.
- **BH10 A/B** – A determination should be made regarding the condition of the well and usefulness for site monitoring. It is currently not recommended that these wells be sampled or measured for water levels as field equipment has become stuck in the well during sampling attempts in 2006.
- **BH1** – Stick-up on 1" well should be fixed, complete with the addition of a protective steel casing at this location.
- **BH6** – Observe if frost-jacking occurred over winter and investigate integrity of well with downhole camera.
- **P01-02B** – Fix riser-pipe and update database with new stick-up measurements.
- **P96-6** – Attempt to glue stick-up coupling located at depth within outer steel casing.
- **P96-8A** – Well should be sampled for hydrocarbons in 2008.
- **P96-9A** – Well should be examined with down-hole camera in 2007 to investigate presence of silica sand in well.
- **S2A** - requires coupling at ground surface to be glued/sealed

- **TH86-17** has an obstruction / joint at 10.17 mbtoc which sometimes prevents sampling tubing from extending to bottom of well. No completion data has been found for this well. This issue could be further investigated with a down-hole camera.
- **P03-08-02** – Efforts should be made to remove tubing located at approximately 5 m depth, this may prove very difficult or even impossible given the small diameter of the sampling port.
- **X18A** – Well has sampling tubing lodged at bottom of well. Significant effort may be required to remove the tubing. It is not suspected that this affects water quality, however it may introduce error in depth of well measurements.
- **X21A-96** – This well should be targeted for replicate sampling in spring 2008 to verify sulphate concentrations at this location.

6.2 Surveying

It has been noted in the annual groundwater monitoring reports (GLL, 2007) and other reports (RGC, 2007) that many wells have either never been surveyed accurately relative the site or that many well stickups have been modified over the years. This has introduced uncertainty in the exact existing construction details of many of the wells. A complete site survey of wells should be completed in 2008 and the database should be updated accordingly. We note that recent GPS technology would allow such a survey to occur concurrently to the groundwater sampling program. It is therefore recommended that this survey work be considered as part of future monitoring efforts.

- It is recommended that a complete well survey including detailed top of casing and ground elevation measurements be completed as part of future monitoring activities.
- This will create a consistent GPS framework for all wells across the local study area, and account for changes pertaining to a dynamic site location. This can include frost heaving of wells, alterations pertaining to well maintenance (namely changes in stick-up), and wells originally void of this information.
- Once finalized, the database containing well location and construction details should be updated with the latest well construction details, modifications and new survey data.

6.3 Decommissioning of Wells

The following wells are recommended for decommissioning in 2008 due to observations noted herein: These recommendations should be compared to those made by other parties based on a review of data (RGC, 2007).

- BH7 D/S (wells are suspected to be impacted by frost jacking)
- P96-9B (pinched shut near top, condition of entire well not known)
- SRK04-02 A/B (if it has not been completed to date)
- X24-96 A/B/C ((A) – compromised since installation; (B)(C) – sand heaving).

- X21C-96 – (well produces tailings in deep well)

6.4 Discontinue Sampling

Recommendations and issues identified in this report should be considered in conjunction with those listed in the current groundwater monitoring review draft document (RGC, 2007), to guide future monitoring activities.

6.5 General Data Assessment

This report is not intended to provide an assessment of trends or variances in the data. Consequently, users of the data are cautioned to assess the data for anomalies that may emerge as trend and variance analyses are undertaken. The following potential anomalies in the data were observed during the preparation of this report and are summarized as follows, as an aid to users of the data:

- The following stations yielded RPD values >50%:

- P2001-03 / Aluminum
- P03-04-03 / Aluminum
- SRK05-SP-4A / Vanadium
- P96-6 / Manganese
- P03-02-03 / Zinc
- P03-01-05 / Aluminum

The above concentrations did not meet the constraints of PQL and as such do not require any further investigation.

- The following stations yielded RPD values >50%, meeting the constraints of PQL:

- SRK05-SP-1B / Alkalinity
- SRK05-SP-4A / Cobalt / Iron / Lithium / Manganese / Nickel
- P03-05-03 / Zinc
- P03-04-01 / Iron

These stations should be targeted for replicate sampling in spring 2008.

- Odours were noted at the following wells:

- Sulphur odour: P03-04-04, P03-08-02, P03-09-02, P03-09-04, P03-09-07, P01-04A, P03-01-07, P03-02-05 (strong)
- Hydrocarbon odour: ETA-05-4 (sampled for HC), P96-8A (sampled for HC, but not analyzed).
- Undefined odour: SRK04-3A, SRK05-ETA-BR2, X17A

- X21C-96 has tailings in monitoring well.

7. Closure

The report is meant to provide a summary of 2007 groundwater monitoring activities and data collected by Gartner Lee, per the approved work-plan, as well as data provided by others. Some groundwater data collected as part of other studies at the site may not be presented herein.

8. References

Gartner Lee Limited, 2007. 2006 Faro Mine Groundwater Monitoring Summary Report. P60601

Robertson GeoConsultants, 2007. 2007 Groundwater Review Anvil Range Mining Complex, Yukon Territory. Draft Report. December 2007.

Robertson GeoConsultants Inc. 2006. Decommissioning of "Leaky Wells" Rose Creek Tailings Storage Facility, Faro Mine, Yukon Territory. Report prepared for Deloitte&Touche, April 2006.

Robertson GeoConsultants Inc. 1996. Anvil Range Mining Complex – 1996 Drilling And Piezometer Installation Program. Report Prepared for Anvil Range Mining Corporation, December 1996.

9. Acknowledgements

Gartner Lee would like to thank the following individuals for facilitating access to the site, assisting during the field episodes and providing useful information: Deloitte & Touche Inc. (acting as court-appointed Interim Receiver for Anvil Range Mining Corporation), Anvil Range Mining Corporation (Interim Receivership), Care and Maintenance Personnel and the Faro Mine Closure Office.

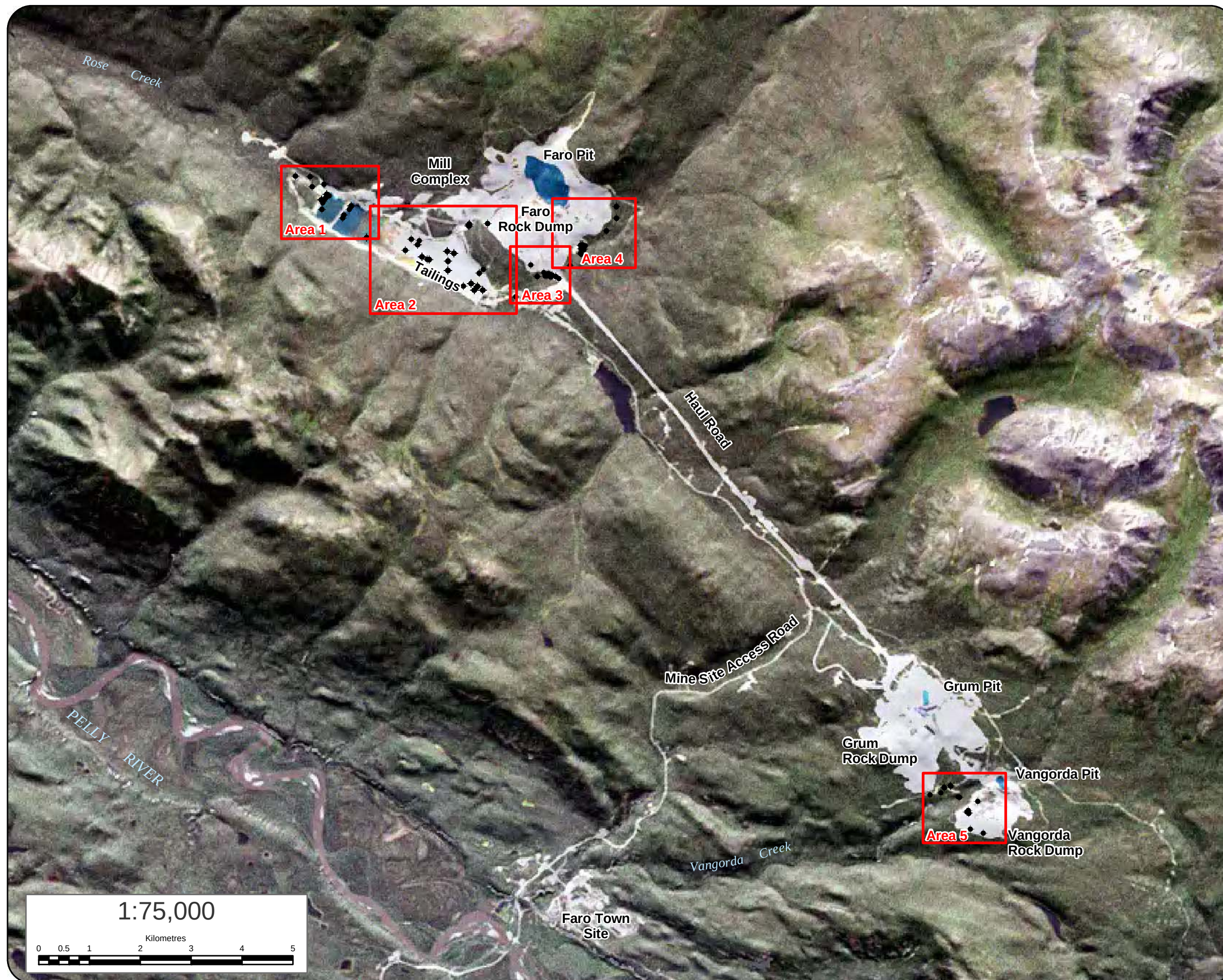
Report Prepared By:

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Figures



DATA SOURCES AND DISCLAIMERS:

Basemap: Orthoshop, Calgary, AB, November 2003. Prepared for SRK Consulting. Based on August 2003 aerial photography.

Shaded relief colour orthorectified image at 15m resolution compiled by Yukon Territorial Government, Dept. of Infrastructure, Yukon Geomatics, from Landsat 7 image 59-16, bands 3, 2, & 1.

Projection: UTM Zone 8 NAD27

Created By: GS

Reviewed By: MG

Date Issued: December 2007

Project Number: 70549

File Name: Fig1_70549_rpt_Dec_2007.mxd

Revision: 0

Deloitte & Touche Inc.
2007 Groundwater Sampling

Faro Mine Site
Faro, Yukon



Legend

- Drive Points
- Conventional Wells
- Multilevel Wells
- Decommissioned Wells

- - - Impoundment (original)

Well Access Routes

- Foot
- ATV
- Truck

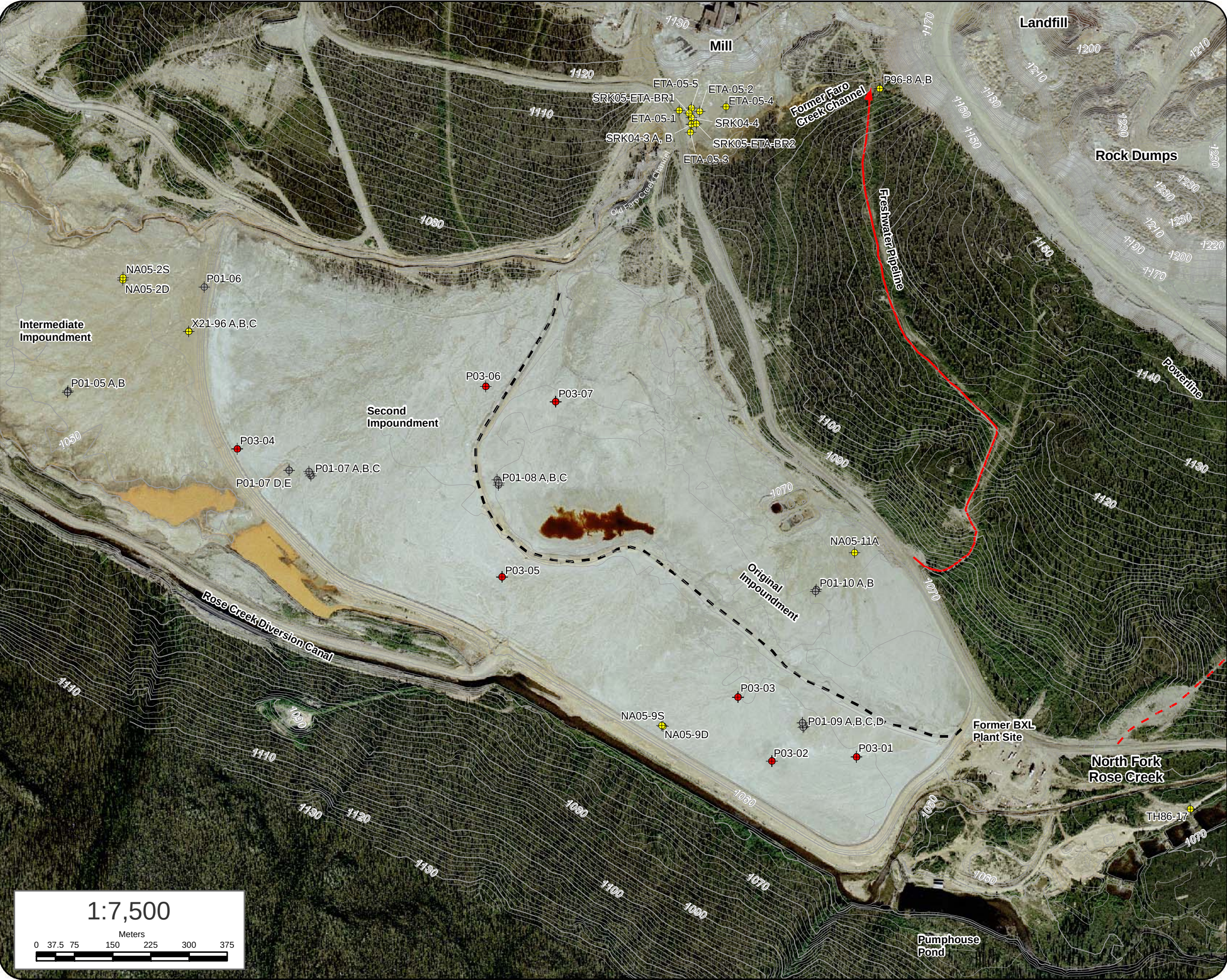
Contours

- Index Contours (10m)
- Intermediate

DATA SOURCES AND DISCLAIMERS:
Basemap: Orthoshop, Calgary, AB, November 2003. Prepared for SRK Consulting. Based on August 2003 aerial photography.
Projection: UTM Zone 8 NAD27
Created By: GS
Reviewed By: MG
Date Issued: December 2007
Project Number: 70549
File Name: Fig2_70549_rpt_Dec_2007.mxd
Revision: 0

Deloitte & Touche Inc.
2007 Groundwater Sampling

Area 1 Tailings Down Valley Area
Faro Mine, Yukon



Legend

- Drive Points
- Conventional Wells
- Multilevel Wells
- Decommissioned Wells

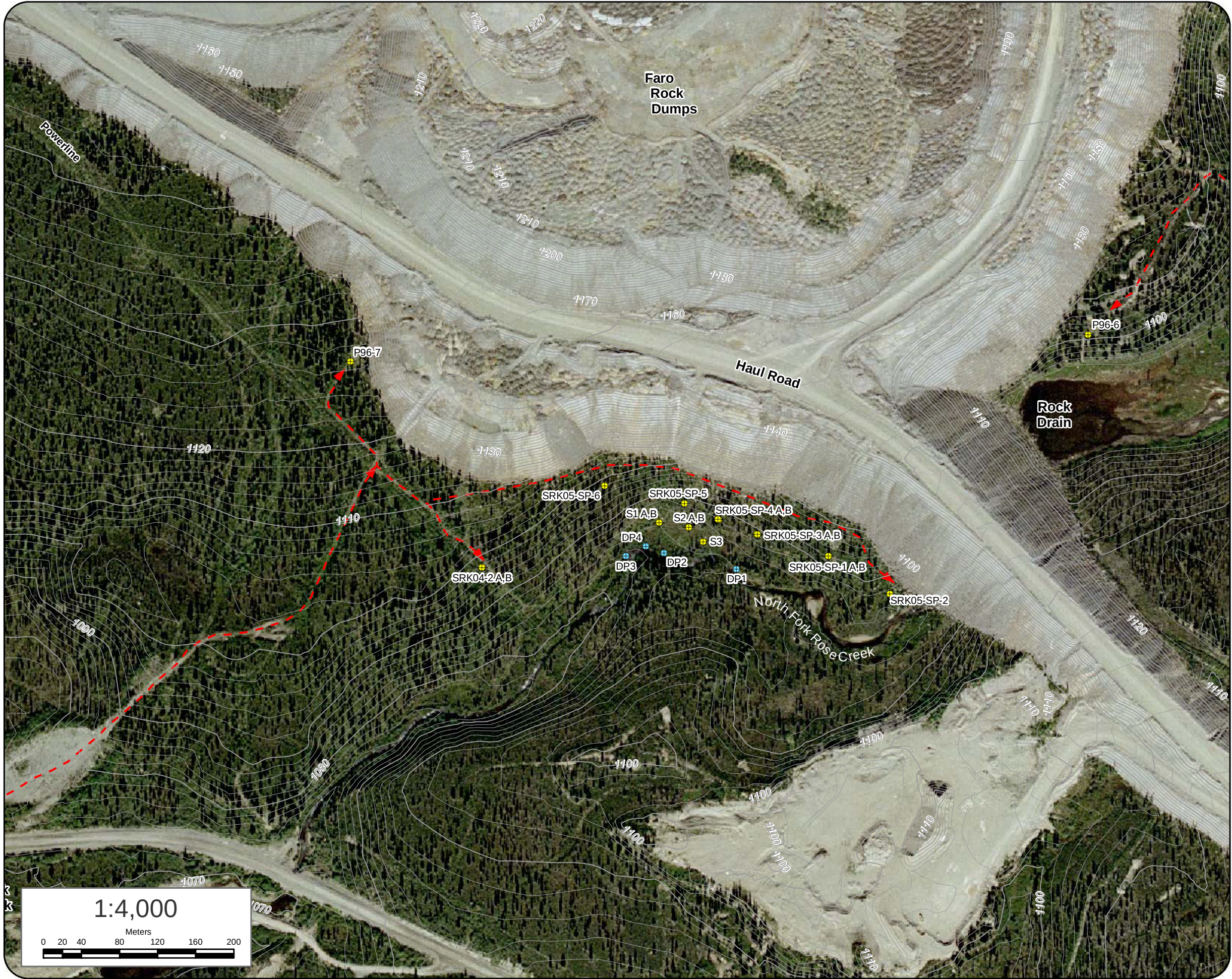
Contours

- Index Contours (10m)
- Intermediate
- Impoundment (original)

Well Access Routes

- Foot
- ATV
- Truck

DATA SOURCES AND DISCLAIMERS:	
Basemap: Orthoshop, Calgary, AB, November 2003. Prepared for SRK Consulting. Based on August 2003 aerial photography.	
Projection: UTM Zone 8 NAD27	
Created By: GS	
Reviewed By: MG	
Date Issued: December 2007	
Project Number: 70549	
File Name: Fig3_70549_rpt_Dec_2007.mxd	
Revision: 0	
Deloitte & Touche Inc. 2007 Groundwater Sampling	
Area 2 – Rose Creek Tailings Impoundment and ETA Area Faro Mine, Yukon	
Gartner Lee	Figure No. 3



Legend

- Drive Points
- Conventional Wells
- Multilevel Wells
- Decommissioned Wells

Contours

- Index Contours (10m)
- Intermediate
- Impoundment (original)

Well Access Routes

- Foot
- ATV
- Truck

DATA SOURCES AND DISCLAIMERS:
Basemap: Orthoshop, Calgary, AB, November 2003. Prepared for SRK Consulting. Based on August 2003 aerial photography.
Projection: UTM Zone 8 NAD27
Created By: GS
Reviewed By: MG
Date Issued: December 2007
Project Number: 70549
File Name: Fig4_70549_rpt_Dec_2007.mxd
Revision: 0

Deloitte & Touche Inc.
2007 Groundwater Sampling

Area 3 Faro Rock Dumps
Faro Mine, Yukon



Legend

Contours

- Index Contours (10m)
- Intermediate
- Impoundment (original)

Well Access Routes

- Foot
- ATV
- Truck

DATA SOURCES AND DISCLAIMERS:	
Basemap: Orthoshop, Calgary, AB, November 2003. Prepared for SRK Consulting. Based on August 2003 aerial photography.	
Projection: UTM Zone 8 NAD27	
Created By: GS	
Reviewed By: MG	
Date Issued: December 2007	
Project Number: 70549	
File Name: Fig5_70549_rpt_Dec_2007.mxd	
Revision: 0	
Deloitte & Touche Inc. 2007 Groundwater Sampling	
Area 4 Faro Rock Dumps, Zone II Pit Area Faro Mine, Yukon	
Gartner Lee	Figure No. 5



Legend

- Drive Points
- Conventional Wells
- Multilevel Wells
- Decommissioned Wells

Contours

- Index Contours (10m)
- Intermediate
- Impoundment (original)

Well Access Routes

- Foot
- ATV
- Truck

DATA SOURCES AND DISCLAIMERS:
Basemap: Orthoshop, Calgary, AB, November 2003. Prepared for SRK Consulting. Based on August 2003 aerial photography.
Projection: UTM Zone 8 NAD27
Created By: GS
Reviewed By: MG
Date Issued: December 2007
Project Number: 70549
File Name: Fig6_70549_rpt_Dec_2007.mxd
Revision: 0

Deloitte & Touche Inc.
2007 Groundwater Sampling

Area 5 Grum and Vangorda Area
Faro Mine, Yukon

Tables

Table 1. Summary of 2007 Sampling Activities

Sampling Date	May/June	August *	October	November *
Well ID	May 28 - June 2	August 1 - 3	Oct 1 - 11	Nov 4 - 6
Downgradient of Cross-Valley Dam				
P01-01A	X		X	
P01-01B	X		X	
P01-02A	frozen		X, S	
P01-02B	X		frozen	
P01-11	X		X	
X16A	X		X	
X16B	X		X	
X17A	X		X	
X17B	X		X	
X18A	X		X	
X18B	X		X	
P05-02	frozen		X	
P05-03	X		X	
P03-09-01	X		X	
P03-09-02	X	X *	X	X *
P03-09-03	X		X	
P03-09-04	X	X *	X	X *
P03-09-05	X		X	
P03-09-06	X	X *	X	X *
P03-09-07	X	X *	X	X *
P03-09-08	X		X	
P03-09-09	X	X *	X	X *
P05-01-01	frozen		X	
P05-01-02	frozen		X, S	
P05-01-03	frozen		X	
P05-01-04	frozen		X	
P05-01-05	frozen		X	
P05-01-06	X		X	
Toe of Intermediate Dam				
P01-03	frozen		X	
P01-04A	X		X	
P01-04B	X		X	
X24A-96	frozen	X *	X	X *
X24B-96				
X24C-96				
X24D-96	frozen	X *	X	X, S *
X25A-96	X	X *	X	X *
X25B-96	X	X *	X	X *
Intermediate Tailings Impoundment				
X21A-96	X		X	
X21B-96	X		X, S	
X21C-96	X, S		X	
NA05-2S				
NA05-2D				
P03-08-01	X, S		X	
P03-08-02	X	X *	blocked	X *
P03-08-03	X	X, S *	X	X *
P03-08-04	X	X *	X	X *
P03-08-05	X	X *	X	X *
P03-08-06	X		no recharge	
P03-08-07	X		X	
P03-08-08	X		X	

Table 1. Summary of 2007 Sampling Activities

Sampling Date	May/June	August *	October	November *
Well ID	May 28 - June 2	August 1 - 3	Oct 1 - 11	Nov 4 - 6
Second Tailings Impoundment, Northern Section				
P03-04-01	X		X, S	
P03-04-02	X	X, S *	X	X
P03-04-03	X, S		X	
P03-04-04	X	X *	X	X, S *
P03-04-05	X		blocked	
P03-04-06	X	X *	X	X
P03-04-07	X		X	
P03-04-08	X		X	
P03-04-09	X (no GC)		X	
P03-05-01	X		X	
P03-05-02	X		X	
P03-05-03	X		X, S	
P03-05-04	X		X	
P03-05-05	X		X	
P03-05-06	X, S		X	
P03-05-07	X		X	
P03-05-08	X		X	
P03-06-01	X		X	
P03-06-02	X		X	
P03-06-03	X		X	
P03-06-04	X, S		X	
P03-06-05	X		X, S	
P03-06-06	X (no GC)		blocked	
P03-06-07	dry		dry	
Second Tailings Impoundment, South-East Corner				
P03-01-01	X		X	
P03-01-02	X		X	
P03-01-03	X, S		X	
P03-01-04	X		X	
P03-01-05	X		X, S	
P03-01-06	X		X	
P03-01-07	X		X	
P03-01-08	X		X	
P03-01-09	X		X	
P03-02-01	X		X	
P03-02-02	X		X	
P03-02-03	X		X, S	
P03-02-04	X		X	
P03-02-05	X, S		X	
P03-02-06				
P03-02-07	X		X	
P03-02-08	X		X	
P03-02-09	X		X	
P03-03-01	X		X	
P03-03-02	X		X	
P03-03-03	X		X, S	
P03-03-04	X, S		X	
P03-03-05	X		X	
P03-03-06	X		X	
P03-03-07				
P03-03-08	X		X	
P03-03-09	X		X	
NA05-9S				
NA05-9D				

Table 1. Summary of 2007 Sampling Activities

Sampling Date	May/June	August *	October	November *
Well ID	May 28 - June 2	August 1 - 3	Oct 1 - 11	Nov 4 - 6
Original Tailings Impoundment				
NA05-11A				
P03-07-01				
P03-07-02				
P03-07-03				
P03-07-04				
P03-07-05	X			
P03-07-06				
P03-07-07				
P03-07-08				
Faro Rock Dump Area - Zone II Pit Area				
P05-04	X		X	
DP1				
DP2				
DP3				
DP4	X		NS	
BH1	X		X	
BH2	X		X	
BH4	frozen		X	
BH6	X		X	
BH7S				
BH7D				
BH10A				
BH10B				
Faro Rock Dump Area - North				
BH12A	frozen		X	
BH12B	frozen		X	
BH13A	frozen		X	
BH13B	dry		X	
BH14A	X		X	
BH14B	X		X	
Emergency Tailings Area (ETA)				
ETA-05-4	frozen		X	
SRK05-ETA-BR1	X		X	
SRK05-ETA-BR2	X		X	
SRK04-3A	X		X	
SRK04-3B	X		X	
Vangorda Rock Dump Area				
V34	X		X	
V35	X		X	
V36	X		X	
V37	X		X	
P2001-03	X, S		NS	
P2001-02A	X		X	
P2001-02B	X		X	
Grum Rock Dump Area				
SRK04-05A	frozen - artesian		frozen - artesian	
SRK04-05B	frozen - artesian		frozen - artesian	
SRK05-05C	frozen		X	
SRK05-06	X		X	
SRK05-07	X		X	
SRK05-08	X		X	
SRK05-09	X		X, S	
P96-9A	X		X	
P96-9B	replaced by BH05-9B-R in 2005			
BH05-9B-R	X		frozen	

Table 1. Summary of 2007 Sampling Activities

Sampling Date	May/June	August *	October	November *
Well ID	May 28 - June 2	August 1 - 3	Oct 1 - 11	Nov 4 - 6
Faro Rock Dump Area - South of Haul Road				
S1A	X		X	
S1B	X		X	
S2A	X		X	
S2B	X		X	
S3	X		X	
SRK05-SP-1A	X		X, S	
SRK05-SP-1B	X, S		X	
SRK05-SP-2	X		X	
SRK05-SP-3A	X		X	
SRK05-SP-3B	X		X	
SRK05-SP-4A	X, S		X	
SRK05-SP-4B	X		X	
SRK05-SP-5	X		X	
SRK05-SP-6	dry		X	
BH05-01	dry		dry	
P96-6	X		X, S	
P96-7	X		X	
P96-8A	frozen		X	
P96-8B	frozen		X	
DP5	NS		NS	
DP6				
Rose Creek Valley Upstream of Tailings Impoundment				
TH86-17	X		X	

* = sampling for adaptive management plan (AMP)

X = well was sampled

NS = well not sampled

Bold = well screened in tailings

GC = general chemistry

S = split sample

(Table 2 is included in the Final Report)

Table 3. Summary of 2007 Quality Assurance (QA/QC) Samples

Sample ID	Sampling Date	Sampling Time	pH	Specific Conductance (uS/cm)	Temp C	Sample Type
P03-01-03	06/01/2007	14:41	6.84	271	5.9	split
P03-02-05	06/01/2007	11:26	6.38	7960	5.7	split
P03-03-04	05/31/2007	16:56	5.76	684	4.0	split
P03-04-03	05/30/2007	11:40	6.27	1463	5.3	split
P03-05-06	05/31/2007	12:26	7.05	3990	6.5	split
P03-06-04	05/30/2007	16:23	6.70	1656	5.7	split
P03-08-01	05/29/2007	15:05	7.45	569	6.0	split
P2001-03	05/29/2007	11:08	7.53	922	3.0	split
SRK05-SP-1B	05/29/2007	9:40	6.10	1055	1.2	split
SRK05-SP-4A	05/28/2007	16:56	6.06	965	4.8	split
X21C-96	06/01/2007	14:55	7.17	351	3.1	split
P03-04-02	08/02/2007	14:40	6.51	1738	11.5	split
P03-08-03	08/02/2007	11:00	7.38	726	10.7	split
P01-02A	10/04/2007	12:30	-	-	-	split
P03-01-05	10/10/2007	10:45	6.50	327	3.6	split
P03-02-03	10/05/2007	12:27	7.20	325	4.0	split
P03-03-03	10/05/2007	9:50	5.68	509	3.2	split
P03-04-01	10/04/2007	10:38	7.40	1814	3.5	split
P03-05-03	10/02/2007	15:44	6.78	913	5.0	split
P03-06-05	10/04/2007	15:43	6.91	1449	5.8	split
P05-01-02	10/02/2007	12:15	7.00	1246	5.9	split
P96-6	10/02/2007	13:20	6.68	922	2.0	split
SRK05-09	10/12/2007	11:14	7.66	1766	3.7	split
SRK05-SP-1A	10/03/2007	16:25	-	-	-	split
X21B-96	10/10/2007	14:27	6.97	1676	3.1	split
X24D-96	11/06/2007	10:37	6.87	3203	1.4	split
P03-04-04	11/05/2007	14:40	7.77	1079	6.9	split

Notes:

* a split sample is collected by splitting the sampling stream between 2 bottles and using the same filtering equipment

Table 4. Summary of 2007 Water Level Elevations for Multi-Level Wells, Faro Mine, Yukon

Well ID	Stickup (m)	Ground Elevation (m asl)	Date	Time	Water Level Below top of Casing (m)	Water Level Elevation (m asl)
P03-01-01	0.53	1060.581	06/01/2007	13:50	5.75	1055.361
P03-01-01	0.53	1060.581	10/10/2007	16:15	5.83	1055.281
P03-01-02	0.53	1060.581	06/01/2007	13:51	5.80	1055.311
P03-01-02	0.53	1060.581	10/10/2007	16:16	5.91	1055.201
P03-01-03	0.53	1060.581	06/01/2007	13:52	5.85	1055.261
P03-01-03	0.53	1060.581	10/10/2007	16:17	5.94	1055.171
P03-01-04	0.53	1060.581	06/01/2007	13:53	5.89	1055.221
P03-01-04	0.53	1060.581	10/10/2007	16:18	5.99	1055.121
P03-01-05	0.53	1060.581	06/01/2007	13:55	5.92	1055.191
P03-01-05	0.53	1060.581	10/10/2007	16:19	6.02	1055.091
P03-01-06	0.53	1060.581	06/01/2007	13:56	5.93	1055.181
P03-01-06	0.53	1060.581	10/10/2007	16:20	6.04	1055.071
P03-01-07	0.53	1060.581	06/01/2007	13:57	5.97	1055.141
P03-01-07	0.53	1060.581	10/10/2007	16:21	6.02	1055.091
P03-01-08	0.53	1060.581	06/01/2007	13:57	5.99	1055.121
P03-01-08	0.53	1060.581	10/10/2007	16:24	6.04	1055.071
P03-01-09	0.53	1060.581	06/01/2007	13:58	6.13	1054.981
P03-01-09	0.53	1060.581	10/10/2007	16:25	6.18	1054.931
P03-02-01	0.69	1059.905	06/01/2007	10:08	5.87	1054.725
P03-02-01	0.69	1059.905	10/05/2007	17:04	5.98	1054.615
P03-02-02	0.69	1059.905	06/01/2007	10:09	5.87	1054.725
P03-02-02	0.69	1059.905	10/05/2007	17:05	6.01	1054.585
P03-02-03	0.69	1059.905	06/01/2007	10:10	5.92	1054.675
P03-02-03	0.69	1059.905	10/05/2007	17:06	6.02	1054.575
P03-02-04	0.69	1059.905	10/05/2007	17:07	6.06	1054.535
P03-02-04	0.69	1059.905	06/01/2007	10:11	5.94	1054.655
P03-02-05	0.69	1059.905	06/01/2007	10:12	6.05	1054.550
P03-02-05	0.69	1059.905	10/05/2007	17:08	6.13	1054.465
P03-02-06	0.69	1059.905	06/01/2007	-	not monitored	n/a
P03-02-07	0.69	1059.905	06/01/2007	10:14	5.88	1054.715
P03-02-07	0.69	1059.905	10/05/2007	17:11	5.82	1054.775
P03-02-08	0.69	1059.905	06/01/2007	10:15	5.87	1054.725
P03-02-08	0.69	1059.905	10/05/2007	17:12	5.79	1054.805
P03-02-09	0.69	1059.905	06/01/2007	10:16	5.89	1054.705
P03-02-09	0.69	1059.905	10/05/2007	17:13	5.77	1054.825
P03-03-01	0.82	1060.672	05/31/2007	15:51	7.055	1054.437
P03-03-01	0.82	1060.672	10/05/2007	16:31	7.44	1054.052
P03-03-02	0.82	1060.672	05/31/2007	15:52	7.114	1054.378
P03-03-02	0.82	1060.672	10/05/2007	16:33	7.49	1054.002
P03-03-03	0.82	1060.672	05/31/2007	15:53	7.146	1054.346
P03-03-03	0.82	1060.672	10/05/2007	16:35	7.52	1053.972
P03-03-04	0.82	1060.672	05/31/2007	15:55	7.180	1054.312
P03-03-04	0.82	1060.672	10/05/2007	16:36	7.56	1053.932
P03-03-05	0.82	1060.672	05/31/2007	15:56	7.197	1054.295
P03-03-05	0.82	1060.672	10/05/2007	16:38	7.59	1053.902
P03-03-06	0.82	1060.672	05/31/2007	15:57	7.216	1054.276
P03-03-06	0.82	1060.672	10/05/2007	16:39	7.58	1053.912
P03-03-07	0.82	1060.672	05/31/2007	-	not monitored	n/a
P03-03-08	0.82	1060.672	05/31/2007	15:58	7.320	1054.172

Table 4. Summary of 2007 Water Level Elevations for Multi-Level Wells, Faro Mine, Yukon

Well ID	Stickup (m)	Ground Elevation (m asl)	Date	Time	Water Level Below top of Casing (m)	Water Level Elevation (m asl)
P03-03-08	0.82	1060.672	10/05/2007	16:43	7.67	1053.822
P03-03-09	0.82	1060.672	05/31/2007	16:00	7.258	1054.234
P03-03-09	0.82	1060.672	10/05/2007	16:45	7.53	1053.962
P03-04-01	0.78	1060.429	05/30/2007	9:21	12.402	1048.807
P03-04-01	0.78	1060.429	08/02/2007	13:25	12.22	1048.989
P03-04-01	0.78	1060.429	10/04/2007	14:42	12.21	1048.999
P03-04-01	0.78	1060.429	11/05/2007	14:30	12.38	1048.829
P03-04-02	0.78	1060.429	05/30/2007	9:22	12.470	1048.739
P03-04-02	0.78	1060.429	08/02/2007	13:27	12.28	1048.929
P03-04-02	0.78	1060.429	10/04/2007	14:46	12.28	1048.929
P03-04-02	0.78	1060.429	11/05/2007	14:31	12.42	1048.789
P03-04-03	0.78	1060.429	08/02/2007	13:28	12.19	1049.019
P03-04-03	0.78	1060.429	10/04/2007	14:51	12.18	1049.029
P03-04-03	0.78	1060.429	11/05/2007	14:32	12.31	1048.899
P03-04-03	0.78	1060.429	05/30/2007	9:23	12.350	1048.859
P03-04-04	0.78	1060.429	05/30/2007	9:24	12.820	1048.389
P03-04-04	0.78	1060.429	08/02/2007	13:30	12.53	1048.679
P03-04-04	0.78	1060.429	10/04/2007	14:54	12.18	1049.029
P03-04-04	0.78	1060.429	11/05/2007	14:33	12.67	1048.539
P03-04-05	0.78	1060.429	05/30/2007	9:25	12.850	1048.359
P03-04-05	0.78	1060.429	08/02/2007	13:32	12.59	1048.619
P03-04-05	0.78	1060.429	10/04/2007	14:55	12.62	1048.589
P03-04-05	0.78	1060.429	11/05/2007	14:34	12.68	1048.529
P03-04-06	0.78	1060.429	05/30/2007	9:26	12.844	1048.365
P03-04-06	0.78	1060.429	08/02/2007	13:33	12.67	1048.539
P03-04-06	0.78	1060.429	10/04/2007	15:02	12.63	1048.579
P03-04-06	0.78	1060.429	11/05/2007	14:35	12.66	1048.549
P03-04-07	0.78	1060.429	05/30/2007	9:27	12.868	1048.341
P03-04-07	0.78	1060.429	08/02/2007	13:38	12.69	1048.519
P03-04-07	0.78	1060.429	10/04/2007	15:04	12.64	1048.569
P03-04-07	0.78	1060.429	11/05/2007	14:36	12.65	1048.559
P03-04-08	0.78	1060.429	05/30/2007	9:28	12.925	1048.284
P03-04-08	0.78	1060.429	08/02/2007	13:39	12.73	1048.479
P03-04-08	0.78	1060.429	10/04/2007	15:07	12.57	1048.639
P03-04-08	0.78	1060.429	11/05/2007	14:37	12.66	1048.549
P03-04-09	0.78	1060.429	05/30/2007	9:29	12.953	1048.256
P03-04-09	0.78	1060.429	08/02/2007	13:41	12.73	1048.479
P03-04-09	0.78	1060.429	10/04/2007	15:09	12.71	1048.499
P03-04-09	0.78	1060.429	11/05/2007	14:38	12.67	1048.539
P03-05-01	0.84	1059.588	05/31/2007	10:33	8.620	1051.808
P03-05-01	0.84	1059.588	10/02/2007	14:12	8.56	1051.868
P03-05-02	0.84	1059.588	05/31/2007	10:34	8.610	1051.818
P03-05-02	0.84	1059.588	10/02/2007	14:13	8.57	1051.858
P03-05-03	0.84	1059.588	05/31/2007	10:35	8.672	1051.756
P03-05-03	0.84	1059.588	10/02/2007	14:15	8.63	1051.798
P03-05-04	0.84	1059.588	05/31/2007	10:36	8.820	1051.608
P03-05-04	0.84	1059.588	10/02/2007	14:17	3.77	1056.658
P03-05-05	0.84	1059.588	05/31/2007	10:37	8.855	1051.573
P03-05-05	0.84	1059.588	10/02/2007	14:19	8.81	1051.618

Table 4. Summary of 2007 Water Level Elevations for Multi-Level Wells, Faro Mine, Yukon

Well ID	Stickup (m)	Ground Elevation (m asl)	Date	Time	Water Level Below top of Casing (m)	Water Level Elevation (m asl)
P03-05-06	0.84	1059.588	05/31/2007	10:39	8.753	1051.675
P03-05-06	0.84	1059.588	10/02/2007	14:26	8.69	1051.738
P03-05-07	0.84	1059.588	05/31/2007	10:40	8.805	1051.623
P03-05-07	0.84	1059.588	10/02/2007	14:29	8.74	1051.688
P03-05-08	0.84	1059.588	05/31/2007	10:41	8.690	1051.738
P03-05-08	0.84	1059.588	10/02/2007	14:32	8.69	1051.738
P03-06-01	0.87	1061.925	05/30/2007	14:29	12.457	1050.338
P03-06-01	0.87	1061.925	10/04/2007	16:38	12.38	1050.415
P03-06-02	0.87	1061.925	05/30/2007	14:28	12.493	1050.302
P03-06-02	0.87	1061.925	10/04/2007	16:40	12.40	1050.395
P03-06-03	0.87	1061.925	05/30/2007	14:30	12.510	1050.285
P03-06-03	0.87	1061.925	10/04/2007	16:41	12.43	1050.365
P03-06-04	0.87	1061.925	05/30/2007	14:32	12.550	1050.245
P03-06-04	0.87	1061.925	10/04/2007	16:44	12.45	1050.345
P03-06-05	0.87	1061.925	05/30/2007	14:34	12.573	1050.222
P03-06-05	0.87	1061.925	10/04/2007	16:45	12.44	1050.355
P03-06-06	0.87	1061.925	05/30/2007	14:35	12.560	1050.235
P03-06-06	0.87	1061.925	10/04/2007	16:48	blocked	n/a
P03-06-07	0.87	1061.925	05/30/2007	14:36	dry	n/a
P03-06-07	0.87	1061.925	10/04/2007	16:49	dry	n/a
P03-07-01	0.78	1064.207	06/01/2007	16:04	13.152	1051.835
P03-07-01	0.78	1064.207	10/03/2007	15:36	13.030	1051.957
P03-07-02	0.78	1064.207	06/01/2007	16:06	13.235	1051.752
P03-07-02	0.78	1064.207	10/03/2007	15:38	11.913	1053.074
P03-07-03	0.78	1064.207	06/01/2007	16:07	13.265	1051.722
P03-07-03	0.78	1064.207	10/03/2007	15:44	11.214	1053.773
P03-07-04	0.78	1064.207	06/01/2007	16:08	13.278	1051.709
P03-07-04	0.78	1064.207	10/03/2007	15:47	13.157	1051.830
P03-07-05	0.78	1064.207	06/01/2007	16:09	13.280	1051.707
P03-07-05	0.78	1064.207	10/03/2007	15:50	13.157	1051.830
P03-07-06	0.78	1064.207	06/01/2007	16:10	13.225	1051.762
P03-07-06	0.78	1064.207	10/03/2007	15:53	13.183	1051.804
P03-07-07	0.78	1064.207	06/01/2007	16:11	13.320	1051.667
P03-07-07	0.78	1064.207	10/03/2007	15:55	13.170	1051.817
P03-07-08	0.78	1064.207	06/01/2007	16:12	13.076	1051.911
P03-07-08	0.78	1064.207	10/03/2007	15:56	13.170	1051.817
P03-08-01	0.88	1047.474	05/29/2007	14:02	8.508	1039.846
P03-08-01	0.88	1047.474	08/02/2007	10:15	7.62	1040.734
P03-08-01	0.88	1047.474	10/03/2007	9:30	7.76	1040.594
P03-08-01	0.88	1047.474	11/05/2007	14:38	7.86	1040.494
P03-08-02	0.88	1047.474	05/29/2007	14:03	8.525	1039.829
P03-08-02	0.88	1047.474	08/02/2007	10:15	7.66	1040.694
P03-08-02	0.88	1047.474	10/03/2007	9:32	blocked	n/a
P03-08-02	0.88	1047.474	11/05/2007	14:39	blocked	n/a
P03-08-03	0.88	1047.474	05/29/2007	14:05	8.367	1039.987
P03-08-03	0.88	1047.474	08/02/2007	10:18	7.56	1040.794
P03-08-03	0.88	1047.474	10/03/2007	9:34	7.63	1040.724
P03-08-03	0.88	1047.474	11/05/2007	14:40	7.705	1040.649
P03-08-04	0.88	1047.474	05/29/2007	14:06	8.380	1039.974

Table 4. Summary of 2007 Water Level Elevations for Multi-Level Wells, Faro Mine, Yukon

Well ID	Stickup (m)	Ground Elevation (m asl)	Date	Time	Water Level Below top of Casing (m)	Water Level Elevation (m asl)
P03-08-04	0.88	1047.474	08/02/2007	10:19	7.47	1040.884
P03-08-04	0.88	1047.474	10/03/2007	9:36	7.64	1040.714
P03-08-04	0.88	1047.474	11/05/2007	14:41	7.715	1040.639
P03-08-05	0.88	1047.474	05/29/2007	14:08	8.218	1040.136
P03-08-05	0.88	1047.474	08/02/2007	10:21	7.29	1041.064
P03-08-05	0.88	1047.474	10/03/2007	9:37	7.42	1040.934
P03-08-05	0.88	1047.474	11/05/2007	14:42	7.435	1040.919
P03-08-06	0.88	1047.474	05/29/2007	14:09	7.925	1040.429
P03-08-06	0.88	1047.474	08/02/2007	10:23	6.95	1041.404
P03-08-06	0.88	1047.474	10/03/2007	9:38	7.07	1041.284
P03-08-06	0.88	1047.474	11/05/2007	14:43	7.095	1041.259
P03-08-07	0.88	1047.474	05/29/2007	14:11	6.270	1042.084
P03-08-07	0.88	1047.474	08/02/2007	10:24	5.28	1043.074
P03-08-07	0.88	1047.474	10/03/2007	9:40	5.19	1043.164
P03-08-07	0.88	1047.474	11/05/2007	14:44	5.20	1043.154
P03-08-08	0.88	1047.474	05/29/2007	14:12	6.175	1042.179
P03-08-08	0.88	1047.474	08/02/2007	10:25	5.22	1043.134
P03-08-08	0.88	1047.474	10/03/2007	9:41	5.10	1043.254
P03-08-08	0.88	1047.474	11/05/2007	14:45	5.095	1043.259
P03-09-01	0.69	1017.822	05/29/2007	10:01	2.540	1015.972
P03-09-01	0.69	1017.822	08/02/2007	8:47	2.096	1016.416
P03-09-01	0.69	1017.822	10/02/2007	9:25	2.49	1016.022
P03-09-01	0.69	1017.822	11/05/2007	10:30	2.62	1015.892
P03-09-02	0.69	1017.822	05/29/2007	10:02	2.915	1015.597
P03-09-02	0.69	1017.822	08/02/2007	8:48	2.59	1015.922
P03-09-02	0.69	1017.822	10/02/2007	9:26	2.90	1015.612
P03-09-02	0.69	1017.822	11/05/2007	10:32	3.01	1015.502
P03-09-03	0.69	1017.822	05/29/2007	10:03	3.040	1015.472
P03-09-03	0.69	1017.822	08/02/2007	8:49	2.67	1015.842
P03-09-03	0.69	1017.822	10/02/2007	9:28	2.965	1015.547
P03-09-03	0.69	1017.822	11/05/2007	10:34	3.06	1015.452
P03-09-04	0.69	1017.822	05/29/2007	10:04	3.330	1015.182
P03-09-04	0.69	1017.822	08/02/2007	8:50	3.05	1015.462
P03-09-04	0.69	1017.822	10/02/2007	9:27	2.97	1015.542
P03-09-04	0.69	1017.822	11/05/2007	10:35	3.35	1015.162
P03-09-05	0.69	1017.822	05/29/2007	10:06	3.388	1015.124
P03-09-05	0.69	1017.822	08/02/2007	8:51	3.10	1015.413
P03-09-05	0.69	1017.822	10/02/2007	9:29	3.32	1015.192
P03-09-05	0.69	1017.822	11/05/2007	10:34	3.37	1015.142
P03-09-06	0.69	1017.822	05/29/2007	10:07	3.415	1015.097
P03-09-06	0.69	1017.822	08/02/2007	8:52	3.11	1015.402
P03-09-06	0.69	1017.822	10/02/2007	9:30	3.34	1015.172
P03-09-06	0.69	1017.822	11/05/2007	10:35	3.38	1015.132
P03-09-07	0.69	1017.822	05/29/2007	10:07	3.570	1014.942
P03-09-07	0.69	1017.822	08/02/2007	8:53	3.31	1015.202
P03-09-07	0.69	1017.822	10/02/2007	9:30	3.50	1015.012
P03-09-07	0.69	1017.822	11/05/2007	10:36	3.52	1014.992
P03-09-08	0.69	1017.822	05/29/2007	10:08	3.641	1014.871
P03-09-08	0.69	1017.822	08/02/2007	8:54	3.38	1015.132

Table 4. Summary of 2007 Water Level Elevations for Multi-Level Wells, Faro Mine, Yukon

Well ID	Stickup (m)	Ground Elevation (m asl)	Date	Time	Water Level Below top of Casing (m)	Water Level Elevation (m asl)
P03-09-08	0.69	1017.822	10/02/2007	9:31	3.59	1014.922
P03-09-08	0.69	1017.822	11/05/2007	10:37	3.58	1014.932
P03-09-09	0.69	1017.822	05/29/2007	10:09	3.945	1014.567
P03-09-09	0.69	1017.822	08/02/2007	8:55	3.72	1014.792
P03-09-09	0.69	1017.822	10/02/2007	9:32	3.88	1014.632
P03-09-09	0.69	1017.822	11/05/2007	10:37	3.88	1014.632
P05-01-01	0.68	1017.32	05/29/2007	9:04	frozen	n/a
P05-01-01	0.68	1017.32	10/02/2007	11:41	2.15	1015.850
P05-01-02	0.68	1017.32	05/29/2007	9:06	frozen	n/a
P05-01-02	0.68	1017.32	10/02/2007	11:43	2.17	1015.830
P05-01-03	0.68	1017.32	05/29/2007	9:07	frozen	n/a
P05-01-03	0.68	1017.32	10/02/2007	11:44	3.24	1014.760
P05-01-04	0.68	1017.32	05/29/2007	9:08	frozen	n/a
P05-01-04	0.68	1017.32	10/02/2007	11:44	1.91	1016.090
P05-01-05	0.68	1017.32	05/29/2007	9:09	frozen	n/a
P05-01-05	0.68	1017.32	10/02/2007	11:46	2.40	1015.600
P05-01-06	0.68	1017.32	05/29/2007	9:10	2.353	1015.647
P05-01-06	0.68	1017.32	10/02/2007	11:48	2.31	1015.690

Table 5. Summary of 2007 Water Levels for Conventional Wells, Faro Mine, Yukon

Well ID	Date	Time	Water Level Below Top of Casing (m)
BH05-01	05/28/2007	12:37	dry
BH05-01	10/02/2007	10:00	dry
BH05-9B-R	05/29/2007	16:50	artesian
BH05-9B-R	10/12/2007	8:25	frozen
BH1	05/28/2007	12:45	3.350
BH1	10/02/2007	9:20	3.420
BH12A	05/28/2007	-	frozen
BH12A	10/02/2007	14:24	2.333
BH12B	05/28/2007	-	frozen
BH12B	10/02/2007	14:25	2.811
BH13A	05/28/2007	14:45	frozen
BH13A	10/02/2007	14:00	2.634
BH13B	05/28/2007	14:45	dry
BH13B	10/02/2007	14:01	3.220
BH14A	05/28/2007	13:50	3.948
BH14A	10/02/2007	13:45	3.515
BH14B	05/28/2007	13:50	4.545
BH14B	10/02/2007	13:43	4.15
BH2	05/28/2007	13:29	4.720
BH2	10/02/2007	11:52	4.835
BH4	05/28/2007	11:47	blocked
BH4	10/02/2007	10:15	2.495
BH5	10/02/2007	11:00	2.135
BH6	05/28/2007	10:41	3.235
BH6	10/02/2007	10:55	3.444
DP4	05/29/2007	10:15	1.930
DP6	05/29/2007	-	0.108
ETA-05-4	05/31/2007	17:00	frozen
ETA-05-4	10/10/2007	17:38	2.514
P01-01A	05/30/2007	12:30	3.720
P01-01A	10/03/2007	10:00	3.775
P01-01B	05/30/2007	12:32	3.786
P01-01B	10/03/2007	10:01	3.810
P01-02A	05/30/2007	16:29	frozen
P01-02A	10/04/2007	11:56	2.133
P01-02B	05/30/2007	16:30	0.634
P01-02B	10/04/2007	11:58	0.444
P01-03	05/31/2007	10:45	frozen
P01-03	10/04/2007	15:10	3.590
P01-04A	05/31/2007	11:31	1.685
P01-04A	10/04/2007	16:50	2.249
P01-04B	05/31/2007	11:30	2.143
P01-04B	10/04/2007	16:51	2.811
P01-11	05/30/2007	16:03	0.890
P01-11	10/04/2007	11:00	0.988
P05-02	05/31/2007	10:20	frozen
P05-02	10/04/2007	11:25	0.995
P05-03	05/30/2007	17:11	4.620
P05-03	10/04/2007	11:39	4.570

Table 5. Summary of 2007 Water Levels for Conventional Wells, Faro Mine, Yukon

Well ID	Date	Time	Water Level Below Top of Casing (m)
P05-04	05/28/2007	11:15	2.970
P05-04	10/02/2007	10:30	3.179
P2001-02A	05/29/2007	15:15	5.110
P2001-02A	10/11/2007	14:10	4.940
P2001-02B	05/29/2007	15:16	5.140
P2001-02B	10/11/2007	14:11	4.985
P2001-03	05/29/2007	14:32	38.360
P2001-03	10/11/2007	9:30	>30 m
P96-6	05/28/2007	12:15	9.594
P96-6	10/02/2007	13:03	12.549
P96-7	05/29/2007	11:22	8.922
P96-7	10/03/2007	11:39	4.500
P96-8A	06/01/2007	10:57	frozen
P96-8A	10/05/2007	12:55	2.810
P96-8B	06/01/2007	10:55	frozen
P96-8B	10/05/2007	12:54	2.899
P96-9A	05/29/2007	16:55	5.411
P96-9A	10/12/2007	9:15	5.870
S1A	05/28/2007	17:10	3.938
S1A	10/03/2007	10:56	4.277
S1B	05/28/2007	17:12	4.174
S1B	10/03/2007	10:55	3.544
S2A	05/28/2007	14:36	4.543
S2A	10/03/2007	10:02	4.666
S2B	05/28/2007	14:38	4.710
S2B	10/03/2007	10:01	4.901
S3	05/29/2007	10:15	2.024
S3	10/03/2007	10:28	2.000
SRK04-3A	05/31/2007	17:10	7.095
SRK04-3A	10/10/2007	16:43	6.355
SRK04-3B	05/31/2007	17:07	7.118
SRK04-3B	10/10/2007	16:42	6.310
SRK04-5A	05/29/2007	16:45	frozen
SRK05-05C	05/29/2007	16:41	frozen
SRK05-05C	10/12/2007	8:39	1.785
SRK05-06	05/30/2007	11:40	1.270
SRK05-06	10/12/2007	10:45	1.912
SRK05-07	05/30/2007	10:17	6.158
SRK05-07	10/12/2007	9:59	6.216
SRK05-08	05/30/2007	10:30	5.669
SRK05-08	10/12/2007	9:36	5.945
SRK05-09	05/30/2007	11:35	1.179
SRK05-09	10/12/2007	11:02	2.225
SRK05-ETA-BR1	05/31/2007	16:17	7.956
SRK05-ETA-BR1	10/10/2007	15:50	7.188
SRK05-ETA-BR2	06/01/2007	9:58	5.936
SRK05-ETA-BR2	10/10/2007	15:53	5.182
SRK05-SP-1A	05/29/2007	8:45	6.685
SRK05-SP-1A	10/03/2007	15:36	7.348

Table 5. Summary of 2007 Water Levels for Conventional Wells, Faro Mine, Yukon

Well ID	Date	Time	Water Level Below Top of Casing (m)
SRK05-SP-1B	05/29/2007	8:45	6.915
SRK05-SP-1B	10/03/2007	15:37	7.465
SRK05-SP-2	05/29/2007	9:45	1.710
SRK05-SP-2	10/03/2007	16:38	2.190
SRK05-SP-3A	05/28/2007	16:49	4.450
SRK05-SP-3A	10/03/2007	14:38	4.822
SRK05-SP-3B	05/28/2007	16:50	3.520
SRK05-SP-3B	10/03/2007	14:39	4.055
SRK05-SP-4A	05/28/2007	16:11	3.890
SRK05-SP-4A	10/03/2007	13:43	4.170
SRK05-SP-4B	05/28/2007	16:11	1.780
SRK05-SP-4B	10/03/2007	13:45	1.905
SRK05-SP-5	05/28/2007	16:15	6.090
SRK05-SP-5	10/03/2007	9:32	6.155
SRK05-SP-6	05/28/2007	16:33	dry
SRK05-SP-6	10/03/2007	8:55	11.055
TH86-17	06/01/2007	11:22	8.170
TH86-17	10/02/2007	17:20	8.211
V34	05/29/2007	13:50	6.520
V34	10/11/2007	9:57	6.210
V35	05/29/2007	14:13	9.160
V35	10/11/2007	13:04	6.200
V36	05/29/2007	14:10	9.989
V36	10/11/2007	15:02	9.060
V37	06/03/2007	13:03	9.275
V37	10/11/2007	15:27	8.820
X16A	05/31/2007	13:56	3.422
X16A	10/04/2007	13:12	3.680
X16B	05/31/2007	14:01	3.543
X16B	10/04/2007	13:13	3.720
X17A	05/30/2007	14:24	2.280
X17A	10/10/2007	12:51	2.214
X17B	05/30/2007	14:22	2.823
X17B	10/10/2007	12:50	2.775
X18A	05/30/2007	13:21	4.501
X18A	10/05/2007	11:16	4.657
X18B	05/30/2007	13:23	-
X18B	10/05/2007	11:15	4.421
X21A-96	06/01/2007	13:40	5.293
X21A-96	10/10/2007	14:07	4.604
X21B-96	06/01/2007	13:33	5.265
X21B-96	10/10/2007	14:06	4.742
X21C-96	06/01/2007	13:32	5.300
X21C-96	10/10/2007	14:05	4.786
X24A-96	05/31/2007	10:30	frozen
X24A-96	08/01/2007	16:38	4.16
X24A-96	10/04/2007	14:50	4.714
X24A-96	11/06/2007	9:35	4.55
X24B-96	08/01/2007	16:39	dry

Table 5. Summary of 2007 Water Levels for Conventional Wells, Faro Mine, Yukon

Well ID	Date	Time	Water Level Below Top of Casing (m)
X24C-96	08/01/2007	16:39	4.07
X24C-96	11/06/2007	9:36	4.47
X24D-96	05/31/2007	10:35	frozen
X24D-96	08/01/2007	16:40	3.93
X24D-96	10/04/2007	14:45	4.505
X24D-96	11/06/2007	9:37	4.33
X25A-96	05/31/2007	10:48	3.470
X25A-96	08/01/2007	18:23	3.28
X25A-96	10/04/2007	18:08	3.845
X25A-96	11/06/2007	11:20	3.67
X25B-96	05/31/2007	10:50	2.957
X25B-96	08/01/2007	18:24	3.18
X25B-96	10/04/2007	18:09	3.744
X25B-96	11/06/2007	11:20	3.565

Well ID	Sample Date	Sample Time	Sample Class ^(a)	General Chemistry							Anions		Metals														
						Sp. Cond.	Sp. Cond.	Temp.	Hardness	Alkalinity	Bromide	Sulphate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Bismuth	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Lithium
				pH (Field)	pH (Lab)	(Field)	(Lab)	(Field)	(CaCo3)	(Total) as CaCO3																	
				pH unit	pH unit	µS/cm	µS/cm	°C	mg/L	mg/L																	
BH05-9B-R	05/29/2007	16:30	M	8.02	8.04	603	577	3.2	214	159	-	179	<0.010	<0.0010	0.0189	<0.020	<0.0020	-	<0.10	0.000050	48.3	<0.0020	<0.00060	<0.0020	0.592	0.0031	0.022
BH1	05/28/2007	12:56	M	6.13	7.13	359	338	3.6	192	165	-	41.4	0.0560	<0.00050	<0.00050	0.046	<0.0010	-	<0.10	0.00302	55.7	<0.0010	0.00148	0.0045	<0.030	0.00179	0.0128
BH1	10/02/2007	9:45	M	6.15	6.47	-	427	4.7	211	126	-	94.1	0.102	<0.00050	<0.00050	0.046	<0.0010	-	<0.10	0.00624	62.0	<0.0010	0.00354	0.0086	<0.030	0.00401	0.0148
BH12A	10/02/2007	14:43	M	7.64	7.57	893	1020	2.6	583	186	-	304	<0.010	<0.0010	<0.0010	0.039	<0.0020	-	<0.10	0.000289	117	<0.0020	<0.00060	0.0021	<0.030	<0.0010	0.018
BH12B	10/02/2007	14:40	M	7.61	7.8	1160	1190	2.6	659	195	-	379	0.018	<0.0010	<0.0010	0.028	<0.0020	-	<0.10	0.000422	138	<0.0020	<0.00060	<0.0020	<0.030	<0.0010	0.02
BH13A	10/02/2007	14:15	M	7.74	7.86	436	528	1.6	176	129	-	142	0.0274	<0.00050	0.00055	0.032	<0.0010	-	<0.10	0.000067	45.3	<0.0010	0.00071	0.0019	0.511	0.0013	0.008
BH13B	10/02/2007	14:20	M	7.4	7.32	1407	1460	1.6	826	92	-	623	<0.025	<0.0025	<0.0025	0.037	<0.0050	-	<0.10	0.000123	215	<0.0050	<0.0015	0.0059	<0.030	<0.0025	<0.025
BH14A	05/28/2007	14:50	M	7.04	7.78	3490	2920	1.0	2280	356	-	1840	<0.025	<0.0025	<0.0025	<0.020	<0.0050	-	<0.10	0.000105	565	<0.0050	<0.0015	<0.0050	<0.030	<0.0025	0.051
BH14A	10/02/2007	14:15	M	7.09	7.4	2450	3790	4.4	2460	424	-	2030	0.27	<0.0050	<0.0050	<0.020	<0.010	-	<0.10	0.00029	591	<0.010	<0.0030	<0.010	<0.030	<0.0050	0.06
BH14B	05/28/2007	14:50	M	7.22	7.89	3430	2870	4.6	2320	352	-	1660	<0.025	<0.0025	<0.0025	<0.020	<0.0050	-	<0.10	0.000136	568	<0.0050	<0.0015	<0.0050	<0.030	<0.0025	0.050
BH14B	10/02/2007	14:05	M	7.06	7.43	2228	3400	4.1	2190	407	-	1710	<0.050	<0.0050	<0.0050	<0.020	<0.010	-	<0.10	<0.00017	525	<0.010	<0.0030	<0.010	<0.030	<0.0050	0.051
BH2	05/28/2007	13:45	M	6.47	7.43	373	365	4.0	195	116	-	95.5	0.112	<0.0010	<0.0010	0.045	<0.0020	-	<0.10	0.0140	54.7	<0.0020	<0.00076	<0.0020	0.082	0.0025	0.011
BH2	10/02/2007	12:10	M	6.38	6.54	428	417	3.4	208	116	-	97.0	0.102	<0.0025	<0.0025	0.051	<0.0050	-	<0.10	0.0210	58.3	<0.0050	<0.0015	<0.0050	0.043	<0.0025	<0.025
BH4	10/02/2007	10:20	M	6.12	6.33	454	432	2.8	227	99.2	-	129	1.38	<0.00050	<0.00050	<0.020	<0.0010	-	<0.10	0.00567	67.5	<0.0010	0.0167	0.0190	0.073	0.00100	0.0292
BH5	10/02/2007	11:40	M	5.86	6.09	599	543	2.5	273	185	-	124	0.0676	<0.00050	<0.00050	0.037	<0.0010	-	<0.10	0.000674	70.9	<0.0010	0.0135	<0.0010	16.4	0.00070	0.0345
BH6	05/28/2007	11:07	M	6.13	7.26	582	329	5.5	177	136	-	56.7	0.0421	<0.00050	<0.00050	0.024	<0.0010	-	<0.10	0.00128	48.0	<0.0010	0.0310	<0.0010	4.51	0.00063	0.0210
BH6	10/02/2007	11:05	M	6.16	6.47	418	397	2.4	197	117	-	88.1	0.0341	<0.00050	<0.00050	0.038	<0.0010	-	<0.10	0.00144	54.2	<0.0010	0.0313	<0.0010	4.71	0.00078	0.0233
DP4	05/29/2007	10:40	M	7.82	7.62	72	65.6	3.0	34.7	30.9	-	<1.0	0.0496	<0.00050	<0.00050	<0.020	<0.0010	-	<0.10	0.000105	8.94	<0.0010	<0.00030	0.0063	0.128	0.00124	<0.0050
ETA-05-4	10/10/2007	17:55	M	5.83	6.05	5760	5150	3.6	3130	138	-	3700	0.147	<0.0050	<0.0050	<0.040	<0.010	-	<0.20	0.00461	452	<0.010	0.0611	<0.010	378	0.0053	<0.050
P01-01A	05/30/2007	14:02	M	7.15	8.17	1485	1400	2.5	908	285	-	692	<0.025	<0.0025	<0.0025	0.059	<0.0050	-	<0.10	0.000660	267	<0.0050	<0.0015	<0.0050	<0.030	<0.0025	<0.025
P01-01A	10/03/2007	10:35	M	7.68	7.49	1443	1560	1.5	957	267	-	673	<0.025	<0.0025	<0.0025	0.063	<0.0050	-	<0.10	0.000598	289	<0.0050	<0.0015	<0.0050	<0.030	<0.0025	<0.025
P01-01B	05/30/2007	14:06	M	7.36	8.05	1106	1060	2.6	669	264	-	417	<0.010	<0.0010	0.0031	0.061	<0.0020	-	<0.10	<0.000034	203	<0.0020	<0.00060	<0.0020	0.760	<0.0010	0.011
P01-01B	10/03/2007	10:45	M	7.86	7.64	1053	1140	1.6	660	259	-	364	<0.025	<0.0025	0.0029	0.070	<0.0050	-	<0.10	<0.000085	203	<0.0050	<0.0015	<0.0050	0.595	<0.0025	<0.025
P01-02A	10/04/2007	12:30	M	-	7.92	-	645	-	365	254	-	123	<0.010	<0.0010	<0.0010	0.060	<0.0020	-	<0.10	0.000081	105	<0.0020	<0.00060	<0.0020	<0.030	<0.0010	<0.010
P01-02A	10/04/2007	12:30	SS	-	7.94	-	638	-	363	263	-	116	<0.010	<0.0010	<0.0010	0.060	<0.0020	-	<0.10	0.000075	104	<0.0020	<0.00060	<0.0020	0.037	<0.0010	<0.010
P01-02B	05/30/2007	17:00	M	7.75	8.27	520	495	3.8	285	205	-	107	0.0196	<0.00050	0.00419	0.025	<0.0010	-	<0.10	<0.000017	71.5	<0.0010	<0.00030	<0.0010	0.659	<0.00050	0.0058
P01-03	10/04/2007	16:00	M	6.82	6.90	2666	2900	1.9	1880	385	-	1620	<0.050	<0.0050	<0.0050	<0.020	<0.010	-	<0.10	0.00146	558	<0.010	0.0793	<0.010	0.202	<0.0050	<0.050
P01-04A	05/31/2007	12:56	M	6.61	7.73	1020	1000	3.3	513	606	-	34.3	<0.025	<0.0025	<0.0025	0.407	<0.0050	-	<0.10	0.000090	130	<0.0050	<0.0015	<0.0050	0.583	<0.0025	0.142
P01-04A	10/04/2007	9:40	M	7.09	7.20	971	1050	2.4	477	582	-	31.2	<0.010	<0.0010	<0.0010	0.383	<0.0020	-	<0.10	0.000066	126	<0.0020	<0.00060	<0.0020	0.505	<0.0010	0.144
P01-04B	05/31/2007	12:42	M	7.17	7.98	1448	1380	3.1	835	270	-	613	<0.025	<0.0025	<0.0025	0.021	<0.0050	-	<0.10	<0.000085	265	<0.0050	<0.0015	<0.0050	5.30	<0.0025	<0.025
P01-04B	10/04/2007	9:45	M	7.41	7.53	1374	1510	2.3	849	317	-	546	<0.025	<0.0025	<0.0025	0.025	<0.0050	-	<0.10	<0.000085	276	<0.0050	<0.0015	<0.0050	4.64	<0.0025	<0.025
P01-11	05/30/2007	16:12	M	7.08	7.83	2170	1980	3.8	1350	303	-	1090	<0.025	<0.0025	0.0308	0.034	<0.0050	-	<0.10	<0.000085	409	<0.0050	0.0030	<0.0050	27.3	<0.0025	<0.025
P01-11	10/04/2007	11:16	M	7.37	7.24	2120	2250	4.8	1390	337	-	1110	<0.025	<0.0025	0.0306	0.037	<0.0050	-	<0.10	<0.000085	434	<0.0050	0.0029	<0.0050	24.7	<0.0025	<0.025
P03-01-01	06/01/2007	14:20	M	6.82	8.19	426	382	5.3	239	208	-	24.9	0.0058	<0.00050	0.00547	0.104	<0.0010	-	<0.10	0.000019	76.1	<0.0010	<0.00030	<0.0010	4.03	<0.00050	0.0143
P03-01-01	10/10/2007	10:00	M	7.32	8.09	396	428	3.5	217	206	-	21.8	<0.0050	<0.00050	0.00905	0.099	<0.0010	-	<0.10	<0.000017	64.8	<0.0010	0.0005	<0.0010	4.13	<0.00050	0.0137
P03-01-02	06/01/2007	14:17	M	6.43	8.16	356	327	5.4	212	148	-	37.8	<0.0050	<0.00050	0.00143	0.111	<0.0010	-	<0.10	<0.000017	68.4	<0.0010	0.00322	<0.0010	0.201	<0.00050	<0.0050
P03-01-02	10/10/2007	10:10	M	7.59	8.15	360	410	3.6	213	195	-	26.4	<0.0050	<0.00050	0.00098	0.114	<0.0010	-	<0.10	<0.000017	66.2	<0.0010	0.00088	<0.0010	0.434	<0.00050	<0.0050
P03-01-03	06/01/2007	14:41	M	6.84	7.85	271	255	5.9	148	98.9	-	40.5	<0.0050	<0.00050	<0.00050	0.088	<0.0010	-	<0.10	0.000038	47.0	<0.0010	<0.00030	<0.0010	<0.030	<0.00050	<0.0050
P03-01-03	06/01/2007	14:41	SS	6.84	7.91	271	255	5.9	147	94.9	-	40.9	<0.0050	<0.00050	<0.00050	0.088	<0.0010	-	<0.10	0.000042	46.6	<0.0010	<0.00030	<0.0010	<0.030	<0.00050	<0.0050

Table 6. 2007 Ground Water Quality Data, Faro Mine, Yukon

Well ID	Sample Date	Sample Time	Sample Class ^(a)																		
				Magnesium	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
BH05-9B-R	05/29/2007	16:30	M	22.6	0.104	<0.000020	0.0113	<0.0020	-	<2.0	<0.0020	-	<0.000040	52.7	-	<0.00040	<0.0010	<0.010	0.00087	<0.030	<0.0050
BH1	05/28/2007	12:56	M	12.9	0.225	<0.000020	<0.0010	0.0059	-	<2.0	<0.0010	-	<0.000020	4.2	-	<0.00020	<0.00050	<0.010	0.00111	<0.030	0.971
BH1	10/02/2007	9:45	M	13.7	0.307	<0.000020	<0.0010	0.0132	-	<2.0	<0.0010	-	<0.000020	4.8	-	<0.00020	<0.00050	<0.010	0.00059	<0.0010	2.43
BH12A	10/02/2007	14:43	M	70.8	0.00565	<0.000020	<0.0020	0.0097	-	3	<0.0020	-	<0.000040	5.9	-	<0.00040	<0.0010	<0.010	0.00509	<0.0020	0.224
BH12B	10/02/2007	14:40	M	76.4	0.00281	<0.000020	<0.0020	0.0095	-	3	<0.0020	-	<0.000040	6.4	-	<0.00040	<0.0010	<0.010	0.00549	<0.0020	0.305
BH13A	10/02/2007	14:15	M	15.3	0.107	<0.000020	0.0032	0.0011	-	2.7	<0.0010	-	<0.000020	9.9	-	<0.00020	<0.00050	<0.010	0.00051	<0.0010	0.0265
BH13B	10/02/2007	14:20	M	70.3	0.0018	<0.000020	<0.0050	0.0113	-	3.3	0.013	-	<0.00010	7.2	-	<0.0010	<0.0025	<0.010	0.0018	<0.0050	0.0091
BH14A	05/28/2007	14:50	M	211	<0.0015	<0.000020	<0.0050	<0.0050	-	3.1	<0.0050	-	<0.00010	19.7	-	<0.0010	<0.0025	<0.010	0.123	<0.030	0.121
BH14A	10/02/2007	14:15	M	240	<0.0030	<0.000020	<0.010	<0.010	-	3.6	<0.010	-	0.00029	15.1	-	<0.0020	<0.0050	<0.010	0.135	<0.010	0.59
BH14B	05/28/2007	14:50	M	218	<0.0015	<0.000020	<0.0050	<0.0050	-	3.2	<0.0050	-	<0.00010	15.3	-	<0.0010	<0.0025	<0.010	0.140	<0.030	0.224
BH14B	10/02/2007	14:05	M	214	<0.0030	<0.000020	<0.010	<0.010	-	4	<0.010	-	<0.00020	14.7	-	<0.0020	<0.0050	<0.010	0.141	<0.010	0.239
BH2	05/28/2007	13:45	M	14.1	0.0200	<0.000020	<0.0020	0.0302	-	<2.0	<0.0020	-	<0.000040	3.7	-	<0.00040	<0.0010	<0.010	<0.00040	<0.030	7.02
BH2	10/02/2007	12:10	M	15.3	0.0121	<0.000020	<0.0050	0.0412	-	<2.0	<0.0050	-	<0.00010	4.2	-	<0.0010	<0.0025	<0.010	<0.0010	<0.0050	10.8
BH4	10/02/2007	10:20	M	14.1	0.182	<0.000020	<0.0010	0.0254	-	<2.0	<0.0010	-	<0.000020	4.6	-	<0.00020	<0.00050	<0.010	<0.00020	<0.0010	1.94
BH5	10/02/2007	11:40	M	23.4	1.10	<0.000020	<0.0010	0.0210	-	3.2	<0.0010	-	<0.000020	10.9	-	<0.00020	<0.00050	<0.010	0.00020	<0.0010	2.64
BH6	05/28/2007	11:07	M	13.7	1.33	<0.000020	<0.0010	0.0289	-	<2.0	<0.0010	-	<0.000020	4.3	-	<0.00020	<0.00050	<0.010	0.00062	<0.030	3.92
BH6	10/02/2007	11:05	M	15.1	1.25	<0.000020	<0.0010	0.0295	-	2.2	<0.0010	-	<0.000020	5.0	-	<0.00020	<0.00050	<0.010	0.00082	<0.0010	3.79
DP4	05/29/2007	10:40	M	3.01	0.00130	<0.000020	<0.0010	0.0062	-	<2.0	<0.0010	-	<0.000020	<2.0	-	<0.00020	<0.00050	<0.010	0.00021	<0.030	0.571
ETA-05-4	10/10/2007	17:55	M	487	6.14	0.000024	<0.010	0.083	-	11.9	<0.010	-	0.00020	53.8	-	<0.0020	<0.0050	<0.020	<0.0020	<0.010	40.1
P01-01A	05/30/2007	14:02	M	58.7	4.56	<0.000020	<0.0050	0.0056	-	5.6	<0.0050	-	<0.00010	26.9	-	<0.0010	<0.0025	<0.010	0.0084	<0.030	0.0070
P01-01A	10/03/2007	10:35	M	56.9	4.17	<0.000020	<0.0050	0.0059	-	6.4	<0.0050	-	<0.00010	25.3	-	<0.0010	<0.0025	<0.010	0.0077	<0.0050	0.0090
P01-01B	05/30/2007	14:06	M	39.4	0.113	<0.000020	<0.0020	<0.0020	-	3.6	<0.0020	-	<0.000040	26.1	-	<0.00040	<0.0010	<0.010	0.00701	<0.030	0.0055
P01-01B	10/03/2007	10:45	M	37.1	0.112	<0.000020	<0.0050	<0.0050	-	4.2	<0.0050	-	<0.00010	24.6	-	<0.0010	<0.0025	<0.010	0.0063	<0.0050	0.0060
P01-02A	10/04/2007	12:30	M	24.9	0.943	<0.000020	<0.0020	<0.0020	-	2.8	<0.0020	-	<0.000040	9.7	-	<0.00040	<0.0010	<0.010	0.00250	<0.0020	0.0053
P01-02A	10/04/2007	12:30	SS	24.8	0.943	<0.000020	<0.0020	0.0021	-	2.8	<0.0020	-	<0.000040	9.5	-	<0.00040	<0.0010	<0.010	0.00248	<0.0020	0.0056
P01-02B	05/30/2007	17:00	M	26.0	0.141	<0.000020	<0.0010	<0.0010	-	<2.0	<0.0010	-	<0.000020	9.8	-	<0.00020	<0.00050	<0.010	0.00247	<0.030	0.0058
P01-03	10/04/2007	16:00	M	117	53.6	<0.000020	<0.010	0.143	-	6.8	<0.010	-	<0.00020	41.2	-	<0.0020	<0.0050	<0.010	0.0075	<0.010	0.0308
P01-04A	05/31/2007	12:56	M	45.8	0.229	<0.000020	<0.0050	<0.0050	-	2.8	<0.0050	-	0.00036	72.3	-	<0.0010	<0.0025	<0.010	<0.0010	<0.030	<0.0050
P01-04A	10/04/2007	9:40	M	39.5	0.208	<0.000020	<0.0020	<0.0020	-	3.2	<0.0020	-	0.000358	67.4	-	<0.00040	<0.0010	<0.010	<0.00040	<0.0020	0.0065
P01-04B	05/31/2007	12:42	M	41.9	1.84	<0.000020	<0.0050	<0.0050	-	4.0	<0.0050	-	<0.00010	46.3	-	<0.0010	<0.0025	<0.010	0.0041	<0.030	0.0053
P01-04B	10/04/2007	9:45	M	38.8	1.83	<0.000020	<0.0050	<0.0050	-	4.4	<0.0050	-	<0.00010	43.9	-	<0.0010	<0.0025	<0.010	0.0038	<0.0050	0.0063
P01-11	05/30/2007	16:12	M	78.9	17.4	<0.000020	<0.0050	0.0060	-	6.3	<0.0050	-	<0.00010	45.7	-	<0.0010	<0.0025	<0.010	0.0053	<0.030	<0.0050
P01-11	10/04/2007	11:16	M	74.9	15.8	<0.000020	<0.0050	0.0053	-	6.7	<0.0050	-	<0.00010	42.8	-	<0.0010	<0.0025	<0.010	0.0052	<0.0050	0.0092
P03-01-01	06/01/2007	14:20	M	13.9	0.162	<0.000020	0.0051	<0.0010	-	2.5	<0.0010	-	<0.000020	8.0	-	<0.00020	<0.00050	<0.010	0.00032	<0.030	<0.0050
P03-01-01	10/10/2007	10:00	M	13.4	0.134	<0.000020	0.0037	<0.0010	-	2.4	<0.0010	-	<0.000020	7.7	-	<0.00020	<0.00050	<0.010	0.00036	<0.0010	0.006
P03-01-02	06/01/2007	14:17	M	10.1	0.688	<0.000020	0.0031	0.0016	-	2.6	<0.0010	-	<0.000020	3.3	-	<0.00020	<0.00050	<0.010	0.00289	<0.030	<0.0050
P03-01-02	10/10/2007	10:10	M	11.5	0.907	<0.000020	0.0071	<0.0010	-	2.8	<0.0010	-	<0.000020	5.1	-	<0.00020	<0.00050	<0.010	0.003	<0.0010	0.0114
P03-01-03	06/01/2007	14:41	M	7.43	0.00490	<0.000020	<0.0010	0.0010	-	<2.0	<0.0010	-	<0.000020	2.8	-	<0.00020	<0.00050	<0.010	0.00100	<0.030	<0.0050
P03-01-03	06/01/2007	14:41	SS	7.47	0.00403	<0.000020	<0.0010	0.0012	-	<2.0	<0.0010	-	<0.000020	2.8	-	<0.00020	<0.00050	<0.010	0.00104	<0.030	<0.0050
P03-01-03	10/10/2007	10:28	M	8.34	0.0011	<0.000020	<0.0010	<0.0010	-	<2.0	<0.0010	-	<0.000020	2.6	-	<0.00020	<0.00050	<0.010	0.00191	<0.0010	0.0064
P03-01-04	06/01/2007	14:36	M	14.8	10.4	<0.000020	<0.0020	0.309	-	2.2	<0.0020	-	<0.000040	4.3	-	<0.00040	<0.0010	<0.010	<0.00040	<0.030	2.98
P03-01-04	10/10/2007	10:23	M	3.88	2.66	<0.000020	<0.0010	0.0815	-	<2.0	<0.0010	-	<0.000020	2.2	-	<0.00020	<0.00050	<0.010	<0.00020	<0.0010	0.929
P03-01-05	06/01/2007	15:00	M	16.1	0.689	<0.000020	<0.0020	0.0345	-	2.3	<0.0020	-	<0.000040	7.4	-	<0.00040	<0.0010	<0.010	<0.00040	<0.030	0.0419
P03-01-05	10/10/2007	10:45	M	8.72	0.664	<0.000020	<0.0010	0.0211	-	<2.0	<0.0010	-	<0.000020	5.1	-	<0.00020	<0.00050	<0.010	<0.00020	<0.0010	0.0264
P03-01-05	10/10/2007	10:45	SS	8.62	0.722	<0.000020	<0.0010	0.0243	-	<2.0	<0.0010	-	<0.000020	5	-	<0.00020	<0.00050	<0.010	<0.00020	<0.0010	0.0315
P03-01-06	06/01/2007	14:54	M	28.2	4.45	0.000026	<0.0050	0.0392	-	4.3	<0.0050	-	<0.00010	39.8	-	<0.0010	<0.0025	<0.010	<0.0010	<0.030	5.34
P03-01-06	10/10/2007	10:37	M	20.8	5.04	<0.000020	<0.0020	0.0424	-	3.6	<0.0020	-	<0.000040	24.3	-	<0.00040	<0.0010	<0.010	<0.00040	<0.0020	6.34
P03-01-07	06/01/2007	15:18	M	180	23.6	<0.000020	0.097	<0.050	-	40.0	<0.050	-	<0.0010	426	-	<0.010	<0.025	<0.050	<0.010	0.23	287
P03-01-07	10/10/2007	11:00	M	130	17.7	0.000038	0.13	<0.10	-	29	<0.10	-	<0.0020	350	-	<0.020	<0.050	<0.050	<0.020	<0.10	263
P03-01-08	06/01/2007	15:12	M	569	102	0.000043	<0.50	<0.50	-	100	<0.50	-	<0.010	596	-	<0.10	<0.25	<0.20	<0.10	1.37	1500
P03-01-08	10/10/2007	10:58	M	752	137	<0.000020	<0.														

Well ID	Sample Date	Sample Time	Sample Class ^(a)	General Chemistry							Anions		Metals														
				pH (Field)	pH (Lab)	Sp. Cond. (Field)	Sp. Cond. (Lab)	Temp. (Field)	Hardness (CaCo3)	Alkalinity (Total) as CaCO3	Bromide	Sulphate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Bismuth	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Lithium
P03-02-07	10/05/2007	12:54	M	6.38	3.47	12950	12900	4.4	2790	<2.0	-	12500	<0.50	<0.050	<0.050	<0.20	<0.10	-	<1.0	<0.0017	405	<0.10	<0.030	<0.10	5730	<0.050	<0.50
P03-02-08	06/01/2007	11:55	M	4.20	3.14	19020	13100	8.3	2640	<2.0	-	24300	<0.50	<0.050	<0.050	<0.40	<0.10	-	<2.0	<0.0017	387	<0.10	<0.030	<0.10	12900	0.441	<0.50
P03-02-08	10/05/2007	13:15	M	4.39	3.2	19650	20000	5.0	2710	<2.0	-	27100	<1.0	<0.10	<0.10	<0.40	<0.20	-	<2.0	<0.0034	388	<0.20	<0.060	<0.20	12900	0.19	<1.0
P03-02-09	06/01/2007	12:05	M	3.71	3.11	22000	14100	8.6	2190	<2.0	-	31194	<1.0	<0.10	<0.10	<0.80	<0.20	-	<4.0	<0.0034	383	<0.20	<0.060	<0.20	15700	0.12	<1.0
P03-02-09	10/05/2007	13:30	M	4.32	3.12	22800	23500	4.7	2330	<2.0	-	30500	<1.0	<0.10	<0.10	<0.40	<0.20	-	<2.0	<0.0034	394	<0.20	<0.060	<0.20	16800	<0.10	<1.0
P03-03-01	05/31/2007	16:20	M	6.44	8.15	485	465	4.3	280	274	<0.050	4.0	0.019	<0.0010	0.0107	0.238	<0.0020	-	<0.10	<0.000034	84.9	<0.0020	0.00151	<0.0020	3.11	<0.0010	0.018
P03-03-01	10/05/2007	9:35	M	6.98	7.84	446	502	3.5	262	284	<0.050	3.2	<0.0050	<0.00050	0.00949	0.24	<0.0010	-	<0.10	<0.000017	78	<0.0010	0.00127	<0.0010	2.98	<0.00050	0.0173
P03-03-02	05/31/2007	16:36	M	4.79	4.78	1013	957	4.8	166	4.1	<0.050	582	0.644	<0.0050	<0.0050	<0.020	<0.010	-	<0.10	0.00539	41.9	<0.010	0.0566	0.019	208	<0.0050	<0.050
P03-03-02	10/05/2007	9:25	M	5.10	4.43	1722	1970	3.7	343	7.3	<5.0	1190	1.68	<0.010	<0.010	<0.020	<0.020	-	<0.10	0.00902	83.9	<0.020	0.117	0.031	463	<0.010	<0.10
P03-03-03	05/31/2007	16:45	M	5.82	5.74	466	444	4.6	204	4.9	<0.050	222	0.090	<0.0010	<0.0010	<0.020	<0.0020	-	<0.10	0.00473	63.4	<0.0020	0.0992	<0.0020	10.4	0.0020	0.023
P03-03-03	10/05/2007	9:50	M	5.68	5.78	509	585	3.2	232	9.7	<0.050	264	0.117	<0.0010	<0.0010	<0.020	<0.0020	-	<0.10	0.00571	71	<0.0020	0.105	<0.0020	17.8	<0.0010	0.025
P03-03-03	10/05/2007	9:50	SS	5.68	5.85	509	584	3.2	231	9.7	<0.050	263	0.116	<0.0010	<0.0010	<0.020	<0.0020	-	<0.10	0.00556	70.9	<0.0020	0.105	<0.0020	17.4	<0.0010	0.027
P03-03-04	05/31/2007	16:56	M	5.76	6.64	684	639	4.0	302	23.3	<0.050	-	<0.025	<0.0025	<0.0025	0.040	<0.0050	-	<0.10	0.00324	93.2	<0.0050	0.113	<0.0050	18.4	<0.0025	0.030
P03-03-04	05/31/2007	16:56	SS	5.76	6.75	684	641	4.0	295	24.5	<0.050	316	<0.025	<0.0025	<0.0025	0.040	<0.0050	-	<0.10	0.00306	90.2	<0.0050	0.113	<0.0050	18.2	<0.0025	0.029
P03-03-04	10/05/2007	9:52	M	6.18	6.5	679	778	3.2	311	33.9	<0.50	314	<0.025	<0.0025	<0.0025	0.042	<0.0050	-	<0.10	0.00281	93.7	<0.0050	0.0974	<0.0050	23	<0.0025	0.03
P03-03-05	05/31/2007	17:05	M	6.28	7.28	920	820	4.5	396	73.2	<0.050	403	<0.050	<0.0050	0.0107	0.108	<0.010	-	<0.10	<0.00017	120	<0.010	0.0409	<0.010	23.2	<0.0050	<0.050
P03-03-05	10/05/2007	10:05	M	6.74	6.8	954	1070	3.3	460	91.1	<1.0	446	<0.050	<0.0050	0.0096	0.129	<0.010	-	<0.10	<0.00017	137	<0.010	0.0489	<0.010	29.4	<0.0050	<0.050
P03-03-06	05/31/2007	17:15	M	6.45	6.67	1884	1540	4.8	784	7.7	<0.050	1100	<0.025	<0.0025	<0.0025	<0.020	<0.0050	-	<0.10	0.000103	221	<0.0050	<0.0015	<0.0050	153	<0.0025	<0.025
P03-03-06	10/05/2007	10:09	M	6.91	5.97	1809	1930	3.7	822	21.3	<5.0	1100	<0.025	<0.0025	<0.0025	<0.020	<0.0050	-	<0.10	<0.000085	225	<0.0050	<0.0015	<0.0050	192	<0.0025	0.026
P03-03-08	05/31/2007	17:28	M	5.59	3.19	2200	13600	6.5	4120	<2.0	<250	31800	<2.5	<0.25	<0.25	<0.40	<0.50	-	<2.0	<0.0085	383	<0.50	<0.15	<0.50	15000	0.34	<2.5
P03-03-08	10/05/2007	10:22	M	5.12	3.25	22400	22000	4.0	4080	<2.0	<250	26300	<1.0	<0.10	<0.10	<0.40	<0.20	-	<2.0	<0.0034	390	<0.20	<0.060	<0.20	13100	0.82	<1.0
P03-03-09	05/31/2007	17:42	M	5.37	3.24	2290	14500	9.2	4050	3.0	<250	36800	<2.5	<0.25	<0.25	<0.40	<0.50	-	<2.0	<0.0085	389	<0.50	<0.15	<0.50	17300	1.16	<2.5
P03-03-09	10/05/2007	10:29	M	4.27	3.33	25300	24900	4.3	3700	4.1	<1300	32000	<1.0	<0.10	<0.10	<0.40	<0.20	-	<2.0	<0.0034	395	<0.20	<0.060	<0.20	16500	2.56	<1.0
P03-04-01	05/30/2007	10:45	M	7.12	7.90	1987	1740	6.3	1180	275	-	1010	<0.025	<0.0025	<0.0025	<0.020	<0.0050	-	<0.10	0.000098	385	<0.0050	<0.0015	<0.0050	7.66	<0.0025	<0.025
P03-04-01	10/04/2007	10:38	M	7.40	7.57	1814	2010	3.5	1050	285	-	900	<0.025	<0.0025	<0.0025	<0.020	<0.0050	-	<0.10	<0.000085	330	<0.0050	<0.0015	<0.0050	15.1	<0.0025	<0.025
P03-04-01	10/04/2007	10:38	SS	7.40	7.61	1814	2010	3.5	1050	289	-	904	<0.025	<0.0025	<0.0025	<0.020	<0.0050	-	<0.10	<0.000085	334	<0.0050	<0.0015	<0.0050	6.4	<0.0025	<0.

Table 6. 2007 Ground Water Quality Data, Faro Mine, Yukon

Well ID	Sample Date	Sample Time	Sample Class ^(a)																		
				Magnesium	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
P03-02-07	10/05/2007	12:54	M	433	40.8	<0.000020	<0.10	<0.10	-	79	<0.10	-	<0.0020	265	-	<0.020	<0.050	<0.10	<0.020	<0.10	0.0129
P03-02-08	06/01/2007	11:55	M	407	81.8	<0.000020	<0.10	<0.10	-	59	<0.10	-	<0.0020	133	-	<0.020	<0.050	<0.20	<0.020	1.47	105
P03-02-08	10/05/2007	13:15	M	424	77.2	<0.000020	<0.20	<0.20	-	59	<0.20	-	<0.0040	140	-	<0.040	<0.10	<0.20	<0.040	<0.20	126
P03-02-09	06/01/2007	12:05	M	300	103	<0.000020	<0.20	<0.20	-	<80	<0.20	-	<0.0040	<80	-	<0.040	<0.10	<0.40	<0.040	1.7	848
P03-02-09	10/05/2007	13:30	M	326	93.5	<0.000020	<0.20	<0.20	-	<40	<0.20	-	<0.0040	<40	-	<0.040	<0.10	<0.20	<0.040	<0.20	912
P03-03-01	05/31/2007	16:20	M	16.4	0.145	<0.000020	0.0028	<0.0020	-	2.7	<0.0020	-	<0.000040	10.1	-	<0.00040	<0.0010	<0.010	0.00050	<0.030	0.0059
P03-03-01	10/05/2007	9:35	M	16.3	0.114	<0.000020	0.0021	<0.0010	-	2.7	<0.0010	-	<0.000020	9.8	-	<0.00020	<0.00050	<0.010	0.00048	<0.0010	<0.0050
P03-03-02	05/31/2007	16:36	M	15.0	5.44	<0.000020	<0.010	0.080	-	3.3	<0.010	-	<0.00020	8.3	-	<0.0020	<0.0050	<0.010	<0.0020	<0.030	46.8
P03-03-02	10/05/2007	9:25	M	32.3	10.8	<0.000020	<0.020	0.166	-	4.4	<0.020	-	<0.00040	10.2	-	<0.0040	<0.010	0.011	<0.0040	<0.020	99
P03-03-03	05/31/2007	16:45	M	11.0	6.64	<0.000020	<0.0020	0.107	-	2.3	<0.0020	-	<0.000040	5.9	-	<0.00040	<0.0010	<0.010	<0.00040	<0.030	5.36
P03-03-03	10/05/2007	9:50	M	13.3	8.31	<0.000020	<0.0020	0.121	-	2.5	<0.0020	-	<0.000040	6.1	-	<0.00040	<0.0010	<0.010	<0.00040	<0.0020	6.37
P03-03-03	10/05/2007	9:50	SS	13.1	8.24	<0.000020	<0.0020	0.12	-	2.4	<0.0020	-	<0.000040	5.9	-	<0.00040	<0.0010	<0.010	<0.00040	<0.0020	6.43
P03-03-04	05/31/2007	16:56	M	16.7	15.0	<0.000020	<0.0050	0.122	-	2.7	<0.0050	-	<0.00010	11.9	-	<0.0010	<0.0025	<0.010	<0.0010	<0.030	4.18
P03-03-04	05/31/2007	16:56	SS	16.9	14.5	<0.000020	<0.0050	0.122	-	2.7	<0.0050	-	<0.00010	12.2	-	<0.0010	<0.0025	<0.010	<0.0010	<0.030	4.07
P03-03-04	10/05/2007	9:52	M	18.8	17	<0.000020	<0.0050	0.102	-	2.9	<0.0050	-	<0.00010	13.9	-	<0.0010	<0.0025	<0.010	<0.0010	<0.0050	3.91
P03-03-05	05/31/2007	17:05	M	23.5	32.8	<0.000020	<0.010	0.032	-	3.3	<0.010	-	<0.00020	28.2	-	<0.0020	<0.0050	<0.010	<0.0020	<0.030	0.338
P03-03-05	10/05/2007	10:05	M	28.7	37.9	<0.000020	<0.010	0.038	-	3.6	<0.010	-	<0.00020	25.3	-	<0.0020	<0.0050	<0.010	<0.0020	<0.010	0.462
P03-03-06	05/31/2007	17:15	M	56.5	13.6	<0.000020	<0.0050	<0.0050	-	5.1	<0.0050	-	<0.00010	67.9	-	<0.0010	<0.0025	<0.010	<0.0010	<0.030	0.0062
P03-03-06	10/05/2007	10:09	M	63.5	13.6	0.000021	<0.0050	<0.0050	-	5.1	<0.0050	-	<0.00010	70.4	-	<0.0010	<0.0025	<0.010	<0.0010	<0.0050	0.0075
P03-03-08	05/31/2007	17:28	M	769	213	0.000038	<0.50	<0.50	-	75	<0.50	-	<0.010	383	-	<0.10	<0.25	<0.20	<0.10	1.56	734
P03-03-08	10/05/2007	10:22	M	754	133	<0.000020	<0.20	<0.20	-	80	<0.20	-	<0.0040	421	-	<0.040	<0.10	<0.20	<0.040	<0.20	488
P03-03-09	05/31/2007	17:42	M	748	194	0.000030	<0.50	<0.50	-	72	<0.50	-	<0.010	382	-	<0.10	<0.25	<0.20	<0.10	1.92	473
P03-03-09	10/05/2007	10:29	M	658	146	<0.000020	<0.20	<0.20	-	63	<0.20	-	<0.0040	375	-	<0.040	<0.10	<0.20	<0.040	<0.20	470
P03-04-01	05/30/2007	10:45	M	54.2	1.81	<0.000020	<0.0050	<0.0050	-	5.5	<0.0050	-	<0.00010	101	-	<0.0010	<0.0025	<0.010	0.0069	<0.030	<0.020
P03-04-01	10/04/2007	10:38	M	54.1	1.61	<0.000020	<0.0050	<0.0050	-	5.4	<0.0050	-	<0.00010	97.8	-	<0.0010	<0.0025	<0.010	0.0074	<0.0050	0.0181
P03-04-01	10/04/2007	10:38	SS	53.5	1.65	<0.000020	<0.0050	<0.0050	-	5.4	<0.0050	-	<0.00010	96.9	-	<0.0010	<0.0025	<0.010	0.0074	<0.0050	0.0195
P03-04-02	05/30/2007	11:16	M	64.3	38.0	<0.000020	<0.010	0.192	-	4.0	<0.010	-	<0.00020	27.7	-	<0.0020	<0.0050	<0.010	<0.0020	<0.030	0.0575
P03-04-02	08/02/2007	14:40	M	74.5	38.1	<0.000020	<0.010	0.203	-	4.0	<0.010	-	<0.00020	28.7	-	<0.0020	<0.0050	<0.010	<0.0020	<0.030	0.0643
P03-04-02	08/02/2007	14:40	SS	71.5	38.7	<0.000020	<0.010	0.205	-	3.8	<0.010	-	<0.00020	27.8	-	<0.0020	<0.0050	<0.010	<0.0020	<0.030	0.0648
P03-04-02	10/04/2007	10:20	M	72.7	39.7	<0.000020	<0.010	0.204	-	4.2	<0.010	-	<0.00020	28.5	-	<0.0020	<0.0050	<0.010	<0.0020	<0.010	0.0641
P03-04-02	11/05/2007	14:50	M	74.9	41.5	<0.000050	<0.010	0.203	-	4.2	<0.010	-	<0.00020	28.7	-	<0.0020	<0.0050	<0.010	<0.0020	<0.010	0.074
P03-04-03	05/30/2007	11:40	SS	56.9	30.1	<0.000020	<0.010	0.104	-	3.6	<0.010	-	<0.00020	24.3	-	<0.0020	<0.0050	<0.010	<0.0020	<0.030	0.0581
P03-04-03	10/04/2007	10:59	M	68.9	35.8	<0.000020	<0.010	0.107	-	4	<0.010	-	<0.00020	25.9	-	<0.0020	<0.0050	<0.010	<0.0020	<0.010	0.0622
P03-04-03	05/30/2007	11:40	M	57.3	26.8	<0.000020	<0.0050	0.0905	-	3.6	<0.0050	-	<0.00010	24.7	-	<0.0010	<0.0025	<0.010	<0.0010	<0.030	0.0571
P03-04-04	05/30/2007	11:47	M	24.5	6.12	<0.000020	<0.010	<0.010	-	3.2	<0.010	-	<0.00020	91.0	-	<0.0020	<0.0050	<0.010	0.0024	<0.030	0.0054
P03-04-04	08/02/2007	14:30	M	24.2	4.47	<0.000020	<0.0020	<0.0020	-	2.9	<0.0020	-	<0.000040	91.5	-	<0.00040	<0.0010	<0.010	0.00238	<0.030	0.0081
P03-04-04	10/04/2007	11:12	M	23	4.56	<0.000020	<0.0050	<0.0050	-	3.2	<0.0050	-	<0.00010	93	-	<0.0010	<0.0025	<0.010	0.0025	<0.0050	0.0064
P03-04-04	11/05/2007	14:40	M	25	6.06	<0.000050	<0.0020	0.0033	-	3.2	<0.0020	-	<0.000040	92.7	-	<0.00040	<0.0010	<0.010	0.00242	<0.0020	0.0062
P03-04-04	11/05/2007	14:40	SS	26.2	6.02	<0.000050	<0.0020	0.0034	-	3.3	<0.0020	-	<0.000040	96.2	-	<0.00040	<0.0010	<0.010	0.00234	<0.0020	0.01
P03-04-05	05/30/2007	12:08	M	57.6	36.0	<0.000020	<0.010	0.026	-	3.7	<0.010	-	<0.00020	26.6	-	<0.0020	<0.0050	<0.010	<0.0020	<0.030	0.0343
P03-04-06	05/30/2007	12:15	M	122	15.9	<0.000020	<0.020	0.104	-	11.9	<0.020	-	<0.00040	117	-	<0.0040	<0.010	<0.020	<0.0040	0.100	3.57
P03-04-06	08/02/2007	15:05	M	138	17.4	0.000029	<0.020	0.106	-	11.5	<0.020	-	<0.00040	135	-	<0.0040	<0.010	<0.020	<0.0040	<0.060	5.42
P03-04-06	10/04/2007	11:35	M	112	14.8	<0.000020	<0.020	0.108	-	11.9	<0.020	-	<0.00040	123	-	<0.0040	<0.010	<0.020	<0.0040	<0.020	5.01
P03-04-06	11/05/2007	15:00	M	124	14.7	<0.000050	<0.020	0.093	-	12.3	<0.020	-	<0.00040	130	-	<0.0040	<0.010	<0.030	<0.0040	<0.020	4.53
P03-04-07	05/30/2007	12:31	M	123	14.4	<0.000020	<0.020	0.103	-	11.6	<0.020	-	<0.00040	101	-	<0.0040	<0.010	<0.020	<0.0040	0.087	2.12
P03-04-07	10/04/2007	11:45	M	117	13.7	<0.000020	<0.020	0.103	-	11.8	<0.020	-	<0.00040	117	-	<0.0040	<0.010	<0.020	<0.0040	<0.020	3.19
P03-04-08	05/30/2007	12:50	M	80.4	28.9	<0.000020	<0.050	<0.050	-	10	<0.050	-	<0.0010	75.0	-	<0.010	<0.025	<0.050	<0.010	0.21	3.22
P03-04-08	10/04/2007	12:06	M	89.3	17.9	<0.000020	<0.050	<0.050	-	<10	<0.050	-	<0.0010	114	-	<0.010	<0.025	<0.050	<0.010	<0.050	2.91
P03-04-09	05/30/2007	13:03	M	60.3	24.2	0.000070	<0.050	<0.050	-	<10	<0.050	-	<0.0010	40.0	-	<0.010	<0.025	<0.050	<0.010	0.26	0.85
P03-04-09	10/04/2007	12:10	M	74.3	26.6	<0.000020	<0.050	<0.050	-	<10	<0.050	-	<0.0010	50	-	<0.010	<0.025	<0.050	<0.010	<0.050	0.4
P03-05-01	05/31/2007	11:30	M	58.1	1.16	<0.000020	<0.0050	<0.0050	-	2.7	<0.0050	-	<0.00010	31.1	-	<0.0010	<0.0025	<0.010	0.0013	<0.030	0.0070
P03-05-01	10/02/2007	15:19	M	59.3	0																

Table 6. 2007 Ground Water Quality Data, Faro Mine, Yukon																												
Well ID	Sample Date	Sample Time	Sample Class ^(a)	General Chemistry							Anions		Metals															
				pH (Field)	pH (Lab)	Sp. Cond. (Field)	Sp. Cond. (Lab)	Temp. (Field)	Hardness (CaCo3)	Alkalinity (Total) as CaCO3	Bromide	Sulphate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Bismuth	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Lithium	
pH unit	pH unit	µS/cm	µS/cm	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
P03-05-08	05/31/2007	12:48	M	6.05	3.78	6580	4220	8.8	2750	<2.0	<50	6100	<0.25	<0.025	<0.025	<0.040	<0.050	-	<0.20	<0.00085	323	<0.050	<0.015	<0.050	1330	0.037	<0.25	
P03-05-08	10/02/2007	17:26	M	6.31	4.03	7170	6950	4.2	2710	13.2	<50	5710	<0.25	<0.025	<0.025	<0.060	<0.050	-	<0.30	<0.00085	303	<0.050	<0.015	<0.050	1580	<0.025	<0.25	
P03-06-01	05/30/2007	16:05	M	6.09	7.36	2740	1780	5.6	1230	177	-	1460	<0.050	<0.0050	<0.0050	0.031	<0.010	-	<0.10	0.00115	340	<0.010	0.0666	<0.010	1.38	<0.0050	<0.050	
P03-06-01	10/04/2007	14:31	M	6.60	6.82	2061	2320	5.7	1390	169	-	1390	<0.050	<0.0050	<0.0050	0.035	<0.010	-	<0.10	0.00152	381	<0.010	0.0848	<0.010	1.92	<0.0050	<0.050	
P03-06-02	05/30/2007	15:55	M	6.38	6.74	2140	2130	7.5	1360	75.9	-	2120	<0.10	<0.010	<0.010	0.020	<0.020	-	<0.10	0.00828	368	<0.020	0.342	<0.020	98.2	<0.010	<0.10	
P03-06-02	10/04/2007	14:27	M	6.27	6.31	2300	2570	5.9	1430	88.3	-	1730	<0.050	<0.0050	<0.0050	0.024	<0.010	-	<0.10	0.00869	386	<0.010	0.282	<0.010	108	<0.0050	<0.050	
P03-06-03	05/30/2007	16:30	M	6.33	6.75	2780	2160	6.5	1410	84.7	-	1900	<0.10	<0.010	<0.010	<0.020	<0.020	-	<0.10	0.0215	381	<0.020	0.475	<0.020	133	<0.010	<0.10	
P03-06-03	10/04/2007	15:05	M	6.47	6.22	2760	3040	6.0	1720	98.6	-	2150	<0.10	<0.010	<0.010	<0.020	<0.020	-	<0.10	0.0289	464	<0.020	0.619	<0.020	181	<0.010	<0.10	
P03-06-04	05/30/2007	16:23	M	6.70	7.45	1656	1390	5.7	867	176	-	904	0.064	<0.0025	<0.0025	0.041	<0.0050	-	<0.10	0.000407	244	<0.0050	0.0596	<0.0050	21.0	<0.0025	<0.025	
P03-06-04	05/30/2007	16:23	SS	6.70	7.38	1656	1550	5.7	883	172	-	890	<0.025	<0.0025	<0.0025	0.046	<0.0050	-	<0.10	0.000402	248	<0.0050	0.0587	<0.0050	21.3	<0.0025	<0.025	
P03-06-04	10/04/2007	15:00	M	7.01	6.89	1397	1520	6.6	864	168	-	731	<0.025	<0.0025	<0.0025	0.051	<0.0050	-	<0.10	0.000348	242	<0.0050	0.0554	<0.0050	19.1	<0.0025	<0.025	
P03-06-05	05/30/2007	16:30	M	6.56	6.19	4160	2720	5.5	1450	14.6	-	2740	0.17	<0.010	<0.010	<0.020	<0.020	-	<0.10	<0.00034	168	<0.020	0.0572	<0.020	303	<0.010	<0.10	
P03-06-05	10/04/2007	15:43	M	6.91	5.78	1449	1510	5.8	611	14.5	-	878	<0.025	<0.0025	0.0059	<0.020	<0.0050	-	<0.10	<0.000085	113	<0.0050	0.012	<0.0050	180	<0.0025	<0.025	
P03-06-05	10/04/2007	15:43	SS	6.91	5.74	1449	1520	5.8	609	14.3	-	886	<0.025	<0.0025	0.006	<0.020	<0.0050	-	<0.10	<0.000085	112	<0.0050	0.0122	<0.0050	180	<0.0025	<0.025	
P03-06-06	05/30/2007	16:45	M	6.09	-	7720	-	11.8	7460	-	-	-	<1.0	<0.10	<0.10	<0.040	<0.20	-	<0.20	<0.0034	399	<0.20	0.792	<0.20	329	0.13	<1.0	
P03-07-05	06/01/2007	17:15	M	6.79	7.75	1366	1160	6.0	755	192	-	606	<0.025	<0.0025	<0.0025	<0.020	<0.0050	-	<0.10	<0.000085	207	<0.0050	<0.0015	<0.0050	21.1	<0.0025	<0.025	
P03-08-01	05/29/2007	15:05	M	7.45	8.16	569	548	6.0	303	275	-	53.6	0.0051	<0.00050	<0.00050	0.070	<0.0010	-	<0.10	0.000024	75.9	<0.0010	<0.00030	<0.0010	<0.030	<0.00050	0.0090	
P03-08-01	05/29/2007	15:05	SS	7.45	8.18	569	547	6.0	302	272	-	52.7	0.0056	<0.00050	<0.00050	0.069	<0.0010	-	<0.10	<0.000017	76.6	<0.0010	<0.00030	<0.0010	<0.030	<0.00050	0.0091	
P03-08-01	10/03/2007	10:30	M	8.09	8.04	522	527	3.5	308	262	-	32.9	<0.0050	<0.00050	<0.00050	0.082	<0.0010	-	<0.10	0.000021	76.1	<0.0010	<0.00030	<0.0010	0.048	<0.00050	0.0084	
P03-08-02	05/29/2007	14:55	M	7.17	8.06	720	676	6.3	369	289	-	118	0.0898	<0.00050	<0.00050	0.207	<0.0010	-	<0.10	0.000248	103	<0.0010	0.00085	0.0069	0.220	0.00180	<0.0050	
P03-08-02	08/02/2007	10:50	M	7.13	7.91	516	561	11.6	292	246	-	68.9	0.0051	<0.00050	<0.00050	0.176	<0.0010	-	<0.10	0.000187	81.2	<0.0010	0.00050	0.0031	<0.030	<0.00050	<0.0050	
P03-08-02	11/05/2007	15:15	M	7.74	8.04	540	563	2.7	305	263	-	60.8	0.0064	<0.00050	<0.00050	0.173	<0.0010	-	<0.10	0.000145	83	<0.0010	0.00055	0.0023	<0.030	<0.00050	<0.0050	
P03-08-03	05/29/2007	15:20	M	7.28	8.07	732	686	5.3	382	282	-	123	<0.010	<0.0010	<0.0010	0.106	<0.0020	-	<0.10	0.000299	109	<0.0020	<0.00060	0.0042	0.073	<0.0010	<0.010	
P03-08-03	08/02/2007	11:00	M	7.38	8.00	726	747	10.7	351	284	-	144	0.0056	<0.00050	<0.00050	0.100	<0.0010	-	<0.10	0.000288	101	<0.0010	<0.00030	0.0039	0.104	<0.00050	<0.0050	
P03-08-03	08/02/2007	11:00	SS	7.38	8.03	726	747	10.7	354	285	-	143	<0.010	<0.0010	<0.0010	0.098	<0.0020	-	<0.10	0.000316	102	<0.0020	<0.00060	0.0043	0.076	<0.0010	<0.010	
P03-08-03	10/03/2007	11:00	M	7.76	7.91	753	763	3.8	419	285	-																	

Table 6. 2007 Ground Water Quality Data, Faro Mine, Yukon

Well ID	Sample Date	Sample Time	Sample Class ^(a)																		
				Magnesium	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
P03-05-08	05/31/2007	12:48	M	471	31.0	<0.000020	<0.050	<0.050	-	58.5	<0.050	-	<0.0010	240	-	<0.010	<0.025	<0.020	<0.010	<0.060	<0.050
P03-05-08	10/02/2007	17:26	M	475	30.2	<0.000020	<0.050	<0.050	-	64.3	<0.050	-	<0.0010	227	-	<0.010	<0.025	<0.030	<0.010	<0.050	0.073
P03-06-01	05/30/2007	16:05	M	92.7	38.5	<0.000020	<0.010	0.093	-	2.8	<0.010	-	<0.00020	36.8	-	<0.0020	<0.0050	<0.010	0.0118	<0.030	0.837
P03-06-01	10/04/2007	14:31	M	107	41.4	<0.000020	<0.010	0.118	-	3.7	<0.010	-	<0.00020	37.1	-	<0.0020	<0.0050	<0.010	0.0106	<0.010	1.33
P03-06-02	05/30/2007	15:55	M	106	58.0	<0.000020	<0.020	0.395	-	3.5	<0.020	-	<0.00040	31.8	-	<0.0040	<0.010	<0.010	0.0040	<0.030	1.99
P03-06-02	10/04/2007	14:27	M	113	56.2	<0.000020	<0.010	0.314	-	4	<0.010	-	<0.00020	31.5	-	<0.0020	<0.0050	<0.010	0.0038	<0.010	2.23
P03-06-03	05/30/2007	16:30	M	112	56.8	<0.000020	<0.020	0.659	-	3.9	<0.020	-	<0.00040	25.7	-	<0.0040	<0.010	<0.010	0.0054	<0.030	2.24
P03-06-03	10/04/2007	15:05	M	137	80.1	<0.000020	<0.020	0.903	-	5.2	<0.020	-	<0.00040	22.5	-	<0.0040	<0.010	<0.010	<0.0040	<0.020	3.77
P03-06-04	05/30/2007	16:23	M	62.7	19.9	<0.000020	<0.0050	0.0659	-	2.3	<0.0050	-	<0.00010	16.7	-	<0.0010	<0.0025	<0.010	0.0361	<0.030	3.22
P03-06-04	05/30/2007	16:23	SS	64.0	19.6	<0.000020	<0.0050	0.0645	-	2.5	<0.0050	-	<0.00010	18.4	-	<0.0010	<0.0025	<0.010	0.0364	<0.030	3.26
P03-06-04	10/04/2007	15:00	M	63	17.7	<0.000020	<0.0050	0.0552	-	3.1	<0.0050	-	<0.00010	17.9	-	<0.0010	<0.0025	<0.010	0.0302	<0.0050	3.4
P03-06-05	05/30/2007	16:30	M	249	54.4	<0.000020	<0.020	0.124	-	4.0	<0.020	-	<0.00040	34.8	-	<0.0040	<0.010	<0.010	0.0072	<0.030	57.5
P03-06-05	10/04/2007	15:43	M	79.8	16	<0.000020	<0.0050	0.0276	-	2.9	<0.0050	-	<0.00010	23.7	-	<0.0010	<0.0025	<0.010	0.0046	<0.0050	16.2
P03-06-05	10/04/2007	15:43	SS	79.7	16.1	<0.000020	<0.0050	0.0285	-	3	<0.0050	-	<0.00010	24.3	-	<0.0010	<0.0025	<0.010	0.0046	<0.0050	16.3
P03-06-06	05/30/2007	16:45	M	1570	331	<0.000020	<0.20	1.71	-	21.4	<0.20	-	<0.0040	118	-	<0.040	<0.10	<0.020	<0.040	0.071	551
P03-07-05	06/01/2007	17:15	M	57.7	5.96	<0.000020	0.0058	<0.0050	-	3.4	<0.0050	-	<0.00010	26.5	-	<0.0010	<0.0025	<0.010	0.0099	<0.030	0.114
P03-08-01	05/29/2007	15:05	M	27.4	0.0466	<0.000020	<0.0010	0.0023	-	<2.0	<0.0010	-	<0.000020	2.3	-	<0.00020	<0.00050	<0.010	0.00405	<0.030	0.0055
P03-08-01	05/29/2007	15:05	SS	27.0	0.0469	<0.000020	<0.0010	0.0022	-	<2.0	<0.0010	-	<0.000020	2.3	-	<0.00020	<0.00050	<0.010	0.00413	<0.030	0.0070
P03-08-01	10/03/2007	10:30	M	28.6	0.0358	<0.000020	<0.0010	0.0019	-	2.0	<0.0010	-	<0.000020	2.7	-	<0.00020	<0.00050	<0.010	0.00345	<0.0010	0.0050
P03-08-02	05/29/2007	14:55	M	27.1	4.28	<0.000020	<0.0010	0.0225	-	<2.0	<0.0010	-	<0.000020	10.5	-	<0.00020	<0.00050	<0.010	0.00351	<0.030	0.148
P03-08-02	08/02/2007	10:50	M	21.6	2.82	<0.000020	<0.0010	0.0166	-	<2.0	<0.0010	-	<0.000020	8.8	-	<0.00020	<0.00050	<0.010	0.00259	<0.030	0.0084
P03-08-02	11/05/2007	15:15	M	23.8	3.3	<0.000050	0.0011	0.0155	-	<2.0	<0.0010	-	<0.000020	7	-	<0.00020	<0.00050	<0.010	0.00293	<0.0010	0.0062
P03-08-03	05/29/2007	15:20	M	26.5	6.00	<0.000020	0.0047	0.0245	-	<2.0	<0.0020	-	<0.000040	9.5	-	<0.00040	<0.0010	<0.010	0.00432	<0.030	<0.010
P03-08-03	08/02/2007	11:00	M	24.3	5.87	<0.000020	0.0041	0.0226	-	<2.0	<0.0010	-	<0.000020	10.9	-	<0.00020	<0.00050	<0.010	0.00391	<0.030	0.0060
P03-08-03	08/02/2007	11:00	SS	24.0	6.20	<0.000020	0.0044	0.0244	-	<2.0	<0.0020	-	<0.000040	10.8	-	<0.00040	<0.0010	<0.010	0.00410	<0.030	0.010
P03-08-03	10/03/2007	11:00	M	29.6	5.75	<0.000020	0.0037	0.0213	-	2.3	<0.0020	-	<0.000040	11.7	-	<0.00040	<0.0010	<0.010	0.00400	<0.0020	0.0084
P03-08-03	11/05/2007	15:20	M	31.9	6.96	<0.000050	0.0042	0.0259	-	2.2	<0.0020	-	<0.000040	13.9	-	<0.00040	<0.0010	<0.010	0.00416	<0.0020	0.0073
P03-08-04	05/29/2007	15:30	M	41.6	2.54	<0.000020	0.0108	<0.0020	-	2.6	<0.0020	-	<0.000040	32.5	-	<0.00040	<0.0010	<0.010	0.00691	<0.030	<0.010
P03-08-04	08/02/2007	11:30	M	38.4	2.23	<0.000020	0.0089	<0.0020	-	2.5	<0.0020	-	<0.000040	32.3	-	<0.00040	<0.0010	<0.010	0.00604	<0.030	<0.0050
P03-08-04	10/03/2007	11:29	M	47.9	2.89	<0.000020	0.0086	<0.0050	-	3.5	<0.0050	-	<0.00010	42.7	-	<0.0010	<0.0025	<0.010	0.0081	<0.0050	0.0159
P03-08-04	11/05/2007	15:35	M	51.4	2.94	<0.000050	0.0088	<0.0020	-	3.3	<0.0020	-	<0.000040	42.4	-	<0.00040	<0.0010	<0.010	0.00752	<0.0020	0.01
P03-08-05	05/29/2007	16:15	M	76.0	6.78	<0.000020	<0.0050	<0.0050	-	13.1	<0.0050	-	<0.00010	109	-	<0.0010	<0.0025	<0.010	0.0010	<0.030	<0.025
P03-08-05	08/02/2007	12:20	M	66.8	5.95	<0.000020	<0.0050	<0.0050	-	12.9	<0.0050	-	<0.00010	117	-	<0.0010	<0.0025	<0.010	<0.0010	<0.030	<0.0050
P03-08-05	10/03/2007	12:00	M	71.8	6.02	<0.000020	<0.010	<0.010	-	14.5	<0.010	-	<0.00020	118	-	<0.0020	<0.0050	<0.010	<0.0020	<0.010	0.0182
P03-08-05	11/05/2007	15:35	M	80.8	6.33	<0.000050	<0.0050	<0.0050	-	15.7	<0.0050	-	<0.00010	143	-	<0.0010	<0.0025	<0.010	<0.0010	<0.0050	0.0094
P03-08-06	05/29/2007	16:00	M	8.71	0.445	<0.000020	0.0060	<0.0050	-	8.7	<0.0050	-	<0.00010	133	-	<0.0010	<0.0025	<0.010	<0.0010	<0.030	<0.025
P03-08-07	05/29/2007	16:30	M	3.13	0.297	<0.000020	0.0295	<0.0020	-	3.3	<0.0020	-	<0.000040	127	-	<0.00040	<0.0010	<0.010	<0.00040	<0.030	<0.010
P03-08-07	10/03/2007	13:00	M	3.07	0.296	<0.000020	0.0278	<0.0050	-	4.3	<0.0050	-	<0.00010	137	-	<0.0010	<0.0025	<0.010	<0.0010	<0.0050	0.0099
P03-08-08	05/29/2007	16:55	M	7.99	0.0362	<0.000020	0.0339	<0.0010	-	9.5	<0.0010	-	<0.000020	58.0	-	<0.00020	<0.00050	<0.010	<0.00020	<0.030	0.0082
P03-08-08	10/03/2007	12:40	M	8.07	0.0353	<0.000020	0.0326	<0.0010	-	12.5	<0.0010	-	<0.000020	63.6	-	<0.00020	<0.00050	<0.010	<0.00020	<0.0010	0.0072
P03-09-01	05/29/2007	11:18	M	54.1	0.388	<0.000020	<0.0020	<0.0020	-	3.0	<0.0020	-	<0.000040	42.4	-	<0.00040	<0.0010	<0.010	0.00183	<0.030	<0.0050
P03-09-01	10/02/2007	9:50	M	53.9	0.358	<0.000020	<0.0050	<0.0050	-	3.9	<0.0050	-	<0.00010	43.6	-	<0.0010	<0.0025	<0.010	0.0016	<0.0050	0.0056
P03-09-02	05/29/2007	11:27	M	51.0	0.387	<0.000020	<0.0020	<0.0020	-	2.9	<0.0020	-	<0.000040	41.0	-	<0.00040	<0.0010	<0.010	0.00186	<0.030	<0.0050
P03-09-02	08/02/2007	9:22	M	51.1	0.333	<0.000020	<0.0020	<0.0020	-	3.2	<0.0020	-	<0.000040	46.0	-	<0.00040	<0.0010	<0.010	0.00159	<0.030	<0.0050
P03-09-02	10/02/2007	9:53	M	53.8	0.363	<0.000020	<0.0050	<0.0050	-	3.9	<0.0050	-	<0.00010	43.0	-	<0.0010	<0.0025	<0.010	0.0016	<0.0050	0.0066
P03-09-02	11/05/2007	11:07	M	58.5	0.359	<0.000050	<0.0020	<0.0020	-	3.8	<0.0020	-	<0.000040	48.7	-	<0.00040	<0.0010	<0.010	0.00158	<0.0020	0.0055
P03-09-03	05/29/2007	11:34	M	32.0	6.25	<0.000020	<0.0020	0.0104	-	3.1	<0.0020	-	<0.000040	23.0	-	<0.00040	<0.0010	<0.010	0.00732	<0.030	<0.0050
P03-09-03	10/02/2007	10:11	M	47.2	7.30	<0.000020	<0.0050	0.0123	-	4.9	<0.0050	-	<0.00010	33.3	-	<0.0010	<0.0025	<0.010	0.0080	<0.0050	0.0071
P03-09-04	05/29/2007	11:54	M	32.3	5.66	<0.000020	<0.0020	0.0096	-	3.2	<0.0020	-	<0.000040	24.5	-	<0.00040	<0.0010	<0.010	0.00657	<0.030	<0.0050
P03-09-04	08/02/2007	9:18	M	41.7	5.49	<0.000020	<0.0020	0.0080	-	4.2	<0.0020	-	<0.000040	32.8	-	<0.00040	<0.0010	<0.010	0.00622	<0.030	0.0055
P03-09-04																					

Table 6. 2007 Ground Water Quality Data, Faro Mine, Yukon

Well ID	Sample Date	Sample Time	Sample Class ^(a)	General Chemistry							Anions		Metals															
						Sp. Cond.	Sp. Cond.	Temp.	Hardness	Alkalinity (Total) as																		
				pH (Field)	pH (Lab)	(Field)	(Lab)	(Field)	(CaCo3)	CaCO3	Bromide	Sulphate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Bismuth	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Lithium	
				pH unit	pH unit	µS/cm	µS/cm	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
P03-09-09	10/02/2007	11:00	M	8.25	7.67	1439	1430	3.8	800	282	-	497	<0.025	<0.0025	<0.0025	0.061	<0.0050	-	<0.10	0.000177	243	<0.0050	0.0028	<0.0050	0.077	<0.0025	<0.025	
P03-09-09	11/05/2007	11:27	M	7.54	7.92	1348	1520	3.6	845	294	-	588	<0.025	<0.0025	<0.0025	0.059	<0.0050	-	<0.10	0.000208	248	<0.0050	0.003	<0.0050	0.103	<0.0025	<0.025	
P05-01-01	10/02/2007	12:17	M	6.91	7.34	1679	1780	4.9	836	497	-	489	<0.025	<0.0025	<0.0025	0.053	<0.0050	-	<0.10	<0.000085	215	<0.0050	<0.0015	<0.0050	5.02	<0.0025	0.271	
P05-01-02	10/02/2007	12:15	M	7.00	7.44	1246	2280	5.9	1400	334	-	1120	<0.025	<0.0025	<0.0025	0.033	<0.0050	-	<0.10	<0.000085	432	<0.0050	<0.0015	<0.0050	13.8	<0.0025	0.026	
P05-01-02	10/02/2007	12:15	SS	7.00	7.49	1246	2290	5.9	1380	332	-	1110	<0.025	<0.0025	<0.0025	0.033	<0.0050	-	<0.10	<0.000085	427	<0.0050	<0.0015	<0.0050	13.8	<0.0025	<0.025	
P05-01-03	10/02/2007	12:28	M	7.09	7.52	2220	2240	4.2	1370	331	-	1100	<0.025	<0.0025	<0.0025	0.031	<0.0050	-	<0.10	<0.000085	423	<0.0050	<0.0015	<0.0050	15.1	<0.0025	<0.025	
P05-01-04	10/02/2007	12:30	M	7.00	7.54	2282	2300	4.1	1380	332	-	1130	<0.025	<0.0025	<0.0025	0.022	<0.0050	-	<0.10	<0.000085	426	<0.0050	<0.0015	<0.0050	18.8	<0.0025	<0.025	
P05-01-05	10/02/2007	12:42	M	6.92	7.59	2000	2040	4.1	1220	278	-	959	<0.025	<0.0025	<0.0025	0.023	<0.0050	-	<0.10	0.000126	373	<0.0050	0.0072	<0.0050	4.6	<0.0025	<0.025	
P05-01-06	05/29/2007	9:46	M	6.88	7.79	2150	1960	4.9	1100	273	-	1000	<0.025	<0.0025	0.0027	0.020	<0.0050	-	<0.10	<0.000085	329	<0.0050	0.0104	<0.0050	3.80	<0.0025	<0.025	
P05-01-06	10/02/2007	12:45	M	6.89	7.59	1989	2030	4.4	1210	282	-	961	<0.025	<0.0025	<0.0025	0.023	<0.0050	-	<0.10	<0.000085	366	<0.0050	0.0078	<0.0050	4.07	<0.0025	<0.025	
P05-02	10/04/2007	11:35	M	7.40	7.25	2002	2120	3.3	1360	343	-	1000	<0.025	<0.0025	0.0080	0.048	<0.0050	-	<0.10	0.000094	423	<0.0050	0.0085	<0.0050	4.65	<0.0025	<0.025	
P05-03	05/30/2007	17:30	M	7.23	8.00	1363	1310	3.2	830	262	-	564	0.016	<0.0010	0.0022	0.211	<0.0020	-	<0.10	0.000165	249	<0.0020	0.00202	<0.0020	2.68	<0.0010	<0.010	
P05-03	10/04/2007	11:48	M	7.64	7.61	1120	1210	2.1	683	281	-	381	<0.025	<0.0025	<0.0025	0.174	<0.0050	-	<0.10	0.000134	209	<0.0050	0.0016	<0.0050	1.90	<0.0025	<0.025	
P05-04	05/28/2007	11:35	M	6.11	6.95	376	360	5.2	213	165	-	48.1	0.0424	<0.00050	<0.00050	0.036	<0.0010	-	<0.10	0.00242	60.4	<0.0010	<0.00030	<0.0010	<0.030	<0.00050	0.0155	
P05-04	10/02/2007	10:45	M	6.2	6.61	416	409	2.2	216	153	-	63.4	0.0424	<0.00050	<0.00050	0.043	<0.0010	-	<0.10	0.00248	63.3	<0.0010	0.00077	<0.0010	<0.030	<0.00050	0.0159	
P2001-02A	05/29/2007	15:35	M	7.42	8.14	1211	1210	3.1	816	442	-	308	0.0026	<0.00020	0.0149	0.0161	<0.0010	<0.0010	<0.0010	<0.000034	183	<0.0010	<0.00020	<0.00020	1.36	<0.00010	0.026	
P2001-02A	10/11/2007	14:22	M	7.59	7.87	1093	1260	2.5	799	476	-	332	0.247	<0.0010	0.0111	<0.020	<0.0020	-	<0.10	<0.000034	178	<0.0020	<0.00060	<0.0020	0.909	<0.0010	0.03	
P2001-02B	05/29/2007	16:02	M	7.42	8.12	1118	1120	3.2	737	361	-	249	0.0048	<0.00020	0.0173	0.0255	<0.0010	<0.0010	<0.0010	<0.000034	155	<0.0010	0.00024	<0.00020	1.95	0.00016	0.033	
P2001-02B	10/11/2007	14:30	M	7.87	7.95	1065	1250	1.2	777	464	-	317	0.043	<0.0010	0.0154	<0.020	<0.0020	-	<0.10	<0.000034	174	<0.0020	<0.00060	<0.0020	1.63	<0.0010	0.029	
P2001-03	05/29/2007	11:08	M	7.53	8.15	922	929	3.0	514	440	-	124	0.0048	<0.00020	0.00372	0.0309	<0.0010	<0.0010	0.023	0.000888	99.8	<0.0010	0.00077	0.00233	<0.030	<0.00010	0.011	
P2001-03	05/29/2007	11:08	SS	7.53	8.14	922	923	3.0	511	446	-	126	0.0023	<0.00020	0.00369	0.0305	<0.0010	<0.0010	0.024	0.000847	98.3	<0.0010	0.00078	0.00233	<0.030	<0.00010	0.011	
P96-6	05/28/2007	12:40	M	6.22	6.90	1145	1070	4.1	706	374	-	264	<0.010	<0.0010	<0.0010	<0.020	<0.0020	-	<0.10	0.000327	185	<0.0020	<0.00060	<0.0020	<0.030	<0.0010	0.040	
P96-6	10/02/2007	13:20	M	6.68	6.85	922	924	2.0	527	271	-	268	<0.010	<0.0010	<0.0010	<0.020	<0.0020	-	<0.10	0.000096	138	<0.0020	<0.00060	<0.0020	<0.030	<0.0010	0.03	
P96-6	10/02/2007	13:20	SS	6.68	6.9	922	927	2.0	520	271	-	269	<0.010	<0.0010	<0.0010	<0.020	<0.0020	-	<0.10	0.000121	136	<0.0020	<0.00060	<0.0020	0.235	<0.0010	0.03	
P96-7	05/29/2007	11:50	M	7.21	7.87	2530	2560	2.5	1810	276	-	1620	<0.025	<0.0025	<0.0025	<0.020	<0.0050	-	<0.10	<0.000085	504	<0.0050	<0.0015	<0.0050	<0.030	<0.0025	0.035	
P96-7	10/03/2007	11:59	M	-	7.61	-	2830	-	1920	204	-	1810	<0.050	<0.0050	<0.0050	<0.020	<0.010	-	<0.10	<0.00017	533	<0.010	<0.0030	<0.010	<0.030	<0.0050	<0.050	
P96-8A	10/05/2007	13:15	M	6.44	6.52	74000	5800	5.1	4310	268	-	4290	<0.25	<0.025	<0.025	<0.040												

Table 6. 2007 Ground Water Quality Data, Faro Mine, Yukon

Well ID	Sample Date	Sample Time	Sample Class ^(a)																		
				Magnesium	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
P03-09-09	10/02/2007	11:00	M	46.8	7.42	<0.000020	<0.0050	0.0116	-	4.7	<0.0050	-	<0.00010	32.9	-	<0.0010	<0.0025	<0.010	0.0066	<0.0050	0.0077
P03-09-09	11/05/2007	11:27	M	54.8	9.04	<0.000050	<0.0050	0.0114	-	4.7	<0.0050	-	<0.00010	36.6	-	<0.0010	<0.0025	<0.010	0.0072	<0.0050	0.0068
P05-01-01	10/02/2007	12:17	M	73	1.16	<0.000020	<0.0050	<0.0050	-	6.5	<0.0050	-	<0.00010	122	-	<0.0010	<0.0025	<0.010	<0.0010	<0.0050	0.0065
P05-01-02	10/02/2007	12:15	M	77.1	18.6	<0.000020	<0.0050	<0.0050	-	6.2	<0.0050	-	<0.00010	41.8	-	<0.0010	<0.0025	<0.010	0.0016	<0.0050	0.0065
P05-01-02	10/02/2007	12:15	SS	77.5	17.7	<0.000020	<0.0050	<0.0050	-	6.3	<0.0050	-	<0.00010	43.1	-	<0.0010	<0.0025	<0.010	0.0016	<0.0050	0.0085
P05-01-03	10/02/2007	12:28	M	76	17	<0.000020	<0.0050	<0.0050	-	6.4	<0.0050	-	<0.00010	40.6	-	<0.0010	<0.0025	<0.010	0.0016	<0.0050	0.445
P05-01-04	10/02/2007	12:30	M	77.3	19.4	<0.000020	<0.0050	<0.0050	-	6.2	<0.0050	-	<0.00010	42.3	-	<0.0010	<0.0025	<0.010	0.0017	<0.0050	0.0088
P05-01-05	10/02/2007	12:42	M	70.7	17	<0.000020	<0.0050	0.0063	-	6	<0.0050	-	<0.00010	33.5	-	<0.0010	<0.0025	<0.010	0.0034	<0.0050	0.0082
P05-01-06	05/29/2007	9:46	M	68.4	17.5	<0.000020	<0.0050	0.0095	-	5.7	<0.0050	-	<0.00010	34.7	-	<0.0010	<0.0025	<0.010	0.0043	<0.030	<0.025
P05-01-06	10/02/2007	12:45	M	71.5	17.5	<0.000020	<0.0050	0.0068	-	5.8	<0.0050	-	<0.00010	33.4	-	<0.0010	<0.0025	<0.010	0.0036	<0.0050	0.0076
P05-02	10/04/2007	11:35	M	74.2	14.1	<0.000020	<0.0050	0.0093	-	7.0	<0.0050	-	<0.00010	45.9	-	<0.0010	<0.0025	<0.010	0.0044	<0.0050	0.0302
P05-03	05/30/2007	17:30	M	50.5	10.3	<0.000020	0.0034	0.0027	-	3.6	<0.0020	-	<0.000040	32.0	-	<0.00040	<0.0010	<0.010	0.0101	<0.030	0.0057
P05-03	10/04/2007	11:48	M	39.0	7.58	<0.000020	<0.0050	<0.0050	-	4.0	<0.0050	-	<0.00010	27.6	-	<0.0010	<0.0025	<0.010	0.0082	<0.0050	0.0074
P05-04	05/28/2007	11:35	M	15.0	0.00196	<0.000020	<0.0010	0.0092	-	<2.0	<0.0010	-	<0.000020	4.6	-	<0.00020	<0.00050	<0.010	0.00078	<0.030	1.64
P05-04	10/02/2007	10:45	M	14.2	0.0203	<0.000020	<0.0010	0.0092	-	<2.0	<0.0010	-	<0.000020	4.7	-	<0.00020	<0.00050	<0.010	0.00101	<0.0010	1.57
P2001-02A	05/29/2007	15:35	M	87.4	0.117	-	0.00164	<0.0010	<0.30	3.8	<0.0020	5.00	<0.000020	6.7	0.822	<0.00020	<0.00020	<0.010	0.0207	<0.0020	0.0040
P2001-02A	10/11/2007	14:22	M	86.1	0.102	<0.000020	<0.0020	<0.0020	-	3.8	<0.0020	-	<0.000040	6.5	-	<0.00040	<0.0010	<0.010	0.0209	<0.0020	0.011
P2001-02B	05/29/2007	16:02	M	85.3	0.181	-	0.00606	<0.0010	<0.30	4.8	<0.0020	5.37	<0.000020	11.1	0.771	<0.00020	<0.00020	<0.010	0.0174	<0.0020	0.0047
P2001-02B	10/11/2007	14:30	M	83.2	0.179	<0.000020	0.0021	<0.0020	-	3.8	<0.0020	-	<0.000040	7.3	-	<0.00040	<0.0010	<0.010	0.0195	<0.0020	0.022
P2001-03	05/29/2007	11:08	M	64.4	0.593	-	0.0165	0.0018	<0.30	3.2	<0.0020	6.12	<0.000020	42.1	0.613	<0.00020	<0.00020	<0.010	0.0128	<0.0020	0.0089
P2001-03	05/29/2007	11:08	SS	64.5	0.591	-	0.0163	0.0018	<0.30	3.2	<0.0020	6.10	<0.000020	41.2	0.604	<0.00020	<0.00020	<0.010	0.0125	<0.0020	0.0094
P96-6	05/28/2007	12:40	M	59.3	0.0326	<0.000020	<0.0020	0.0225	-	3.7	<0.0020	-	<0.000040	6.9	-	<0.00040	<0.0010	<0.010	0.0173	<0.030	0.808
P96-6	10/02/2007	13:20	M	44.4	0.0022	<0.000020	<0.0020	0.0078	-	3.4	0.0033	-	<0.000040	5.1	-	<0.00040	<0.0010	<0.010	0.0162	<0.0020	0.239
P96-6	10/02/2007	13:20	SS	43.9	0.00484	<0.000020	<0.0020	0.0078	-	3.6	0.0034	-	<0.000040	4.9	-	<0.00040	<0.0010	<0.010	0.016	<0.0020	0.241
P96-7	05/29/2007	11:50	M	133	0.0043	<0.000020	<0.0050	0.0052	-	4.7	<0.0050	-	<0.00010	15.7	-	<0.0010	<0.0025	<0.010	0.0255	<0.030	0.0081
P96-7	10/03/2007	11:59	M	142	0.0035	<0.000020	<0.010	<0.010	-	5.4	<0.010	-	<0.00020	17	-	<0.0020	<0.0050	<0.010	0.0228	<0.010	0.017
P96-8A	10/05/2007	13:15	M	790	57	<0.000020	<0.050	0.597	-	16.4	<0.050	-	<0.0010	57.4	-	<0.010	<0.025	<0.020	<0.010	<0.050	170
P96-8B	10/05/2007	13:10	M	719	53.3	<0.000020	<0.050	0.684	-	16.3	<0.050	-	<0.0010	54.7	-	<0.010	<0.025	<0.020	<0.010	<0.050	208
P96-9A	05/29/2007	10:10	M	286	0.0874	<0.000020	<0.0050	0.0055	-	3.8	<0.0050	-	<0.00010	12.0	-	<0.0010	<0.0025	<0.010	0.0353	<0.030	0.0141
P96-9A	10/12/2007	9:25	M	332	0.0078	<0.000020	<0.010	<0.010	-	5.1	<0.010	-	<0.00020	13.5	-	<0.0020	<0.0050	<0.010	0.0468	<0.010	<0.050
S1A	05/28/2007	18:00	M	832	76.9	<0.000020	<0.050	1.78	-	10.3	<0.050	-	<0.0010	39.4	-	<0.010	<0.025	<0.020	<0.010	<0.060	208
S1A	10/03/2007	11:10	M	82.2	1.48	<0.000020	<0.0050	0.0354	-	3.1	<0.0050	-	<0.00010	35.6	-	<0.0010	<0.0025	<0.010	<0.0010	<0.0050	3.50
S1B	05/28/2007	18:00	M	78.5	1.15	<0.000020	<0.0050	0.0115	-	2.9	<0.0050	-	<0.00010	35.7	-	<0.0010	<0.0025	<0.010	0.0025	<0.030	0.124
S1B	10/03/2007	11:20	M	858	73.4	<0.000020	<0.050	1.73	-	12.4	<0.050	-	<0.0010	36.7	-	<0.010	<0.025	<0.020	<0.010	<0.050	215
S2A	05/28/2007	16:50	M	718	78.8	<0.000020	<0.050	1.69	-	10.6	<0.050	-	<0.0010	27.5	-	<0.010	<0.025	<0.020	<0.010	<0.060	207
S2A	10/03/2007	10:25	M	862	85.2	<0.000020	<0.10	1.89	-	12.1	<0.10	-	<0.0020	27.9	-	<0.020	<0.050	<0.020	<0.020	<0.10	241
S2B	05/28/2007	17:00	M	522	55.2	<0.000020	<0.020	0.754	-	7.2	<0.020	-	<0.00040	27.8	-	<0.0040	<0.010	<0.020	<0.0040	<0.060	89.9
S2B	10/03/2007	10:20	M	311	23.2	<0.000020	<0.010	0.164	-	5.5	<0.010	-	<0.00020	25.8	-	<0.0020	<0.0050	<0.020	<0.0020	<0.010	20.5
S3	05/29/2007	10:55	M	825	115	<0.000020	<0.050	2.11	-	10.5	<0.050	-	<0.0010	22.1	-	<0.010	<0.025	<0.020	<0.010	<0.060	310
S3	10/03/2007	10:43	M	957	118	<0.000020	<0.10	2.42	-	13.7	<0.10	-	<0.0020	25.3	-	<0.020	<0.050	<0.020	<0.020	<0.10	365
SRK04-3A	05/31/2007	17:30	M	785	68.1	<0.000020	<0.050	0.716	-	9.9	<0.050	-	<0.0010	60.5	-	<0.010	<0.025	<0.020	<0.010	<0.060	263
SRK04-3A	10/10/2007	17:10	M	729	71.4	<0.000020	<0.10	0.97	-	13.7	<0.10	-	<0.0020	54.5	-	<0.020	<0.050	0.031	<0.020	<0.10	495
SRK04-3B	05/31/2007	17:50	M	765	66.0	<0.000020	<0.050	0.644	-	10.4	<0.050	-	<0.0010	62.7	-	<0.010	<0.025	<0.020	<0.010	<0.060	344
SRK04-3B	10/10/2007	17:15	M	642	68.4	<0.000020	<0.20	0.62	-	11	<0.20	-	<0.0040	63	-	<0.040	<0.10	0.104	<0.040	<0.20	666
SRK05-05C	10/12/2007	8:51	M	66.7	2.41	<0.000020	0.0139	0.0053	-	2.1	<0.0020	-	<0.000040	14.7	-	<0.00040	<0.0010	<0.010	0.00543	<0.0020	0.012
SRK05-06	05/30/2007	11:52	M	85.4	0.00357	<0.000020	<0.0020	<0.0020	-	<2.0	<0.0020	-	<0.000040	6.3	-	<0.00040	<0.0010	<0.010	0.0160	<0.030	0.0927
SRK05-06	10/12/2007	11:08	M	169	0.0035	<0.000020	<0.0050	<0.0050	-	3.6	<0.0050	-	<0.00010	10.5	-	<0.0010	<0.0025	<0.010	0.0319	<0.0050	0.0173
SRK05-07	05/30/2007	10:55	M	149	0.421	<0.000020	0.0102	0.0936	-	3.5	<0.0050	-	<0.00010	7.5	-	<0.0010	<0.0025	<0.010	0.0142	<0.030	0.0394
SRK05-07	10/12/2007	10:04	M	221	0.692	<0.000020	<0.010	0.147	-	3.6	<0.010	-	<0.00020	10.6	-	<0.0020	<0.0050	<0.010	0.0157	<0.010	0.0269
SRK05-08	05/30/2007	10:45	M	126	0.0030	<0.000020	<0.0050	<0.0050	-	<2.0	<0.0050	-	<0.00010	7.5	-	<0.0010	<0.0025	<0.010	0.0174	<0.030	0.0130
SRK05-08	10/12/2007	9:52	M	156	0.0017	<0.000020	<0.0050	<0.0050	-	<2.0	<0.0050	-	<0.00010	8.9	-	<0.0010	<0.0025	<0.010	0.0181	<0.0050	0.0088
SRK05-09	05/30/2007																				

Table 6. 2007 Ground Water Quality Data, Faro Mine, Yukon

Well ID	Sample Date	Sample Time	Sample Class ^(a)	General Chemistry							Anions		Metals															
						Sp. Cond.	Sp. Cond.	Temp.	Hardness	Alkalinity																		
				pH (Field)	pH (Lab)	(Field)	(Lab)	(Field)	(CaCo3)	CaCO3	Bromide	Sulphate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Bismuth	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Lithium	
				pH unit	pH unit	µS/cm	µS/cm	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
SRK05-SP-3A	05/28/2007	17:49	M	6.01	6.65	1048	951	3.8	570	304	-	327	0.042	<0.0010	0.0017	<0.020	<0.0020	-	<0.10	<0.000034	136	<0.0020	0.00436	<0.0020	21.4	<0.0010	0.054	
SRK05-SP-3A	10/03/2007	15:20	M	-	6.44	-	1130	-	624	322	-	295	0.032	<0.0010	0.002	0.023	<0.0020	-	<0.10	0.000048	150	<0.0020	0.00424	<0.0020	22.5	<0.0010	0.05	
SRK05-SP-3B	05/28/2007	17:28	M	5.97	6.71	957	874	4.6	563	284	-	277	0.068	<0.0010	<0.0010	<0.020	<0.0020	-	<0.10	0.000060	138	<0.0020	0.00563	<0.0020	10.2	<0.0010	0.054	
SRK05-SP-3B	10/03/2007	15:30	M	-	6.43	-	1060	-	586	313	-	285	0.021	<0.0010	<0.0010	<0.020	<0.0020	-	<0.10	0.00009	147	<0.0020	0.00572	<0.0020	9.76	<0.0010	0.049	
SRK05-SP-4A	05/28/2007	16:56	M	6.06	6.94	965	915	4.8	523	251	-	292	<0.025	<0.0025	0.0029	0.026	<0.0050	-	<0.10	<0.000085	132	<0.0050	0.0262	<0.0050	8.95	<0.0025	0.151	
SRK05-SP-4A	05/28/2007	16:56	SS	6.06	7.20	965	877	4.8	548	251	-	288	0.031	<0.0010	0.0046	0.030	<0.0020	-	<0.10	<0.000034	137	<0.0020	0.00948	<0.0020	21.3	<0.0010	0.054	
SRK05-SP-4A	10/03/2007	14:45	M	-	6.43	-	1010	-	554	253	-	296	0.027	<0.0010	0.0045	0.025	<0.0020	-	<0.10	0.000081	143	<0.0020	0.00971	<0.0020	19.9	<0.0010	0.053	
SRK05-SP-4B	05/28/2007	16:32	M	6.06	7.19	5080	4370	4.0	4040	214	-	4760	<0.50	<0.050	<0.050	<0.040	<0.10	-	<0.20	0.0652	372	<0.10	<0.030	<0.10	<0.060	<0.050	<0.50	
SRK05-SP-4B	10/03/2007	14:15	M	-	6.6	-	6270	-	4580	215	-	4730	<0.50	<0.050	<0.050	<0.040	<0.10	-	<0.20	0.0916	394	<0.10	<0.030	<0.10	0.073	<0.050	<0.50	
SRK05-SP-5	05/28/2007	16:45	M	6.21	7.29	6580	4610	2.5	4660	231	-	5180	<0.50	<0.050	<0.050	<0.040	<0.10	-	<0.20	0.0281	490	<0.10	<0.030	<0.10	0.625	<0.050	<0.50	
SRK05-SP-5	10/03/2007	9:55	M	6.19	6.75	6780	6530	2.1	4990	252	-	4800	<0.50	<0.050	<0.050	<0.040	<0.10	-	<0.20	0.0313	504	<0.10	0.04	<0.10	0.138	<0.050	<0.50	
SRK05-SP-6	10/03/2007	9:20	M	7.07	7.83	2150	2450	0.4	1430	164	-	1380	<0.025	<0.0025	<0.0025	0.039	<0.0050	-	<0.10	<0.000085	398	<0.0050	<0.0015	<0.0050	<0.030	<0.0025	<0.025	
TH86-17	06/01/2007	11:50	M	7.40	8.02	213	188	1.9	91.6	73.6	-	<1.0	<0.0050	<0.00050	0.00109	0.040	<0.0010	-	<0.10	0.000018	26.4	<0.0010	0.00153	<0.0010	0.916	<0.00050	<0.0050	
TH86-17	10/02/2007	17:25	M	7.82	7.42	171	176	5.1	80.1	73.9	-	14.3	0.0069	<0.00050	<0.00050	0.05	<0.0010	-	<0.10	0.000018	23.4	<0.0010	<0.00030	<0.0010	0.272	<0.00050	<0.0050	
V34	05/29/2007	14:02	M	7.51	8.21	962	968	3.2	626	506	-	107	0.0048	<0.00020	0.00163	0.112	<0.0010	<0.0010	<0.020	<0.000034	90.2	<0.0010	0.00048	0.00023	0.854	0.00028	0.014	
V34	10/11/2007	10:23	M	7.68	8.01	943	1070	0.7	666	473	-	131	0.682	<0.0010	0.0013	0.128	<0.0020	-	<0.10	<0.000034	99.1	<0.0020	<0.00060	<0.0020	0.95	<0.0010	0.017	
V35	05/29/2007	14:25	M	7.13	8.05	3310	3050	3.0	2510	677	-	1680	<0.010	<0.0010	0.0011	0.0126	<0.0050	<0.0050	<0.10	0.00020	521	<0.0050	<0.0010	0.0012	<0.030	0.00060	<0.050	
V35	10/11/2007	13:35	M	7.48	7.83	1862	2060	2.5	1440	528	-	870	0.27	<0.0025	<0.0025	<0.020	<0.0050	-	<0.10	0.000147	308	<0.0050	<0.0015	<0.0050	0.08	<0.0025	0.026	
V36	05/29/2007	14:20	M	7.26	8.10	1710	1760	2.6	1280	487	-	693	<0.0050	<0.00050	0.0597	0.0142	<0.0025	<0.0025	<0.050	0.000146	251	<0.0025	0.00167	<0.00050	0.609	0.00127	0.036	
V36	10/11/2007	15:18	M	7.55	7.82	1357	1560	1.6	1020	416	-	544	<0.025	<0.0025	0.0068	<0.020	<0.0050	-	<0.10	0.000224	214	<0.0050	<0.0015	<0.0050	0.036	<0.0025	0.035	
V37	06/03/2007	13:22	M	7.80	8.31	750	769	3.1	434	407	-	63.5	<0.0020	<0.00020	0.00139	0.163	<0.0010	<0.0010	<0.0010	0.035	0.000062	56.1	<0.0010	0.00022	0.00030	1.16	<0.00010	0.025
V37	10/11/2007	15:40	M	7.81	7.96	714	794	1.8	433	430	-	63.9	<0.010	<0.0010	<0.0010	0.146	<0.0020	-	<0.10	0.000044	57.7	<0.0020	<0.00060	0.0025	0.317	<0.0010	0.025	
X16A	05/31/2007	14:30	M	7.60	8.22	303	276	2.3	175	136	-	26.8	<0.0050	<0.00050	<0.00050	0.080	<0.0010	-	<0.10	0.000076	51.5	<0.0010	<0.00030	<0.0010	<0.030	<0.00050	<0.0050	
X16A	10/04/2007	13:40	M	8.11	8.04	316	335	3.2	182	166	-	23.8	0.0072	<0.00050	<0.00050	0.084	<0.0010	-	<0.10	0.000058	53.5	<0.0010	<0.00030	<0.0010	<0.030	<0.00050	<0.0050	
X16B	05/31/2007	14:51	M	7.68	8.31	399	360	3.0	243	198	-	27.8	<0.0050	<0.00050	<0.00050	0.136	<0.0010	-	<0.10	<0.000017	69.5	<0.0010	<0.00030	<0.0010	<0.030	<0.00050	<0.0050	
X16B	10/04/2007	14:22	M	8.23	8.13	363	401	2.9	218	206	-	25	0.0185	<0.00050	<0.00050	0.125	<0.0010	-	<0.10	<0.000017	62	<0.0010	<0.00030	<0.0010	<0.030	<0.00050	<0.0050	
X17A	05/30/2007	14:42	M	7.58	8.32	574	572	2.2	359	276	-	63.3	<0.010	<0.0010	<0.0010	0.207	<0.0020	-	<0.10	0.000039	103	<0.0020	<0.00060	<0.0020	<0.030	<0.0010	<0.010	
X17A	10/10/2007	13:10	M	7.24	8.05	426	459	2.7	264	225	-	34.6	0.0137	<0.00050	<0.00050	0.159	<0.0010	-	<0.10	0.00004	74.8	<0.0010	<0.00030	<0.0010	<0.030	<0.00050	<0.0050	
X17B	05/30/2007	14:56	M	7.21	8.25	852	957	3.0	535	390	-	176	0.143	<0.0010	<0.0010	0.177	<0.0020	-	<0.10	<0.000034	146	<0.0020	<0.00060	<0.0020	<0.030	<0.0010	0.028	
X17B	10/10/2007</																											

Table 6. 2007 Ground Water Quality Data, Faro Mine, Yukon

Well ID	Sample Date	Sample Time	Sample Class ^(a)																		
				Magnesium	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
SRK05-SP-3A	05/28/2007	17:49	M	56.2	0.897	<0.000020	<0.0020	0.0140	-	3.7	<0.0020	-	<0.000040	9.3	-	<0.00040	<0.0010	<0.010	0.00179	<0.030	1.07
SRK05-SP-3A	10/03/2007	15:20	M	60.6	0.947	<0.000020	<0.0020	0.0132	-	4.7	<0.0020	-	<0.000040	10.8	-	<0.00040	<0.0010	<0.010	0.00168	<0.0020	1
SRK05-SP-3B	05/28/2007	17:28	M	52.9	0.914	<0.000020	<0.0020	0.0152	-	4.8	<0.0020	-	<0.000040	8.5	-	<0.00040	<0.0010	<0.010	0.00200	<0.030	0.783
SRK05-SP-3B	10/03/2007	15:30	M	53.4	0.996	<0.000020	<0.0020	0.0154	-	5.1	<0.0020	-	<0.000040	8.6	-	<0.00040	<0.0010	<0.010	0.00187	<0.0020	0.744
SRK05-SP-4A	05/28/2007	16:56	M	46.9	2.92	<0.000020	<0.0050	0.0535	-	4.5	<0.0050	-	<0.000010	9.7	-	<0.00010	<0.0025	<0.010	0.0015	<0.030	0.951
SRK05-SP-4A	05/28/2007	16:56	SS	49.9	1.09	<0.000020	<0.0020	0.0194	-	4.7	<0.0020	-	<0.000040	10.2	-	<0.00040	<0.0010	<0.010	0.00071	<0.030	1.050
SRK05-SP-4A	10/03/2007	14:45	M	48	1.41	<0.000020	<0.0020	0.0217	-	4.1	<0.0020	-	<0.000040	9.1	-	<0.00040	<0.0010	<0.010	0.00076	<0.0020	1.16
SRK05-SP-4B	05/28/2007	16:32	M	757	108	<0.000020	<0.10	2.75	-	9.1	<0.10	-	<0.0020	21.2	-	<0.020	<0.050	<0.020	<0.020	<0.060	318
SRK05-SP-4B	10/03/2007	14:15	M	872	112	<0.000020	<0.10	2.97	-	13.1	<0.10	-	<0.0020	23.4	-	<0.020	<0.050	<0.020	<0.020	<0.10	447
SRK05-SP-5	05/28/2007	16:45	M	834	90.0	<0.000020	<0.10	1.87	-	10.2	<0.10	-	<0.0020	41.3	-	<0.020	<0.050	<0.020	<0.020	<0.060	234
SRK05-SP-5	10/03/2007	9:55	M	906	102	<0.000020	<0.10	2.21	-	12.2	<0.10	-	<0.0020	32.5	-	<0.020	<0.050	<0.020	<0.020	<0.10	324
SRK05-SP-6	10/03/2007	9:20	M	106	0.0552	<0.000020	<0.0050	<0.0050	-	4.5	<0.0050	-	<0.00010	77.2	-	<0.00010	<0.0025	<0.010	0.0044	<0.0050	0.008
TH86-17	06/01/2007	11:50	M	6.24	0.0225	<0.000020	0.0039	0.0167	-	<2.0	<0.0010	-	<0.000020	2.2	-	<0.00020	<0.00050	<0.010	0.00193	<0.030	0.0099
TH86-17	10/02/2007	17:25	M	5.28	0.00436	<0.000020	<0.0010	<0.0010	-	<2.0	<0.0010	-	<0.000020	2.1	-	<0.00020	<0.00050	<0.010	0.00045	<0.0010	0.0138
V34	05/29/2007	14:02	M	97.3	0.0832	-	0.00318	<0.0010	<0.30	3.9	<0.0020	4.82	<0.000020	6.6	0.824	<0.00020	<0.00020	<0.010	0.0103	<0.0020	0.0073
V34	10/11/2007	10:23	M	102	0.0739	<0.000020	0.0027	<0.0020	-	3.3	<0.0020	-	<0.000040	6.1	-	<0.00040	<0.0010	<0.010	0.0117	<0.0020	0.038
V35	05/29/2007	14:25	M	293	0.186	-	0.00212	0.0118	<0.30	5.5	<0.010	5.76	<0.00010	11.5	1.59	<0.0010	<0.0010	<0.010	0.139	<0.010	<0.005
V35	10/11/2007	13:35	M	164	0.815	<0.000020	<0.0050	0.0071	-	4	<0.0050	-	<0.00010	7.3	-	<0.0010	<0.0025	<0.010	0.0679	<0.0050	0.029
V36	05/29/2007	14:20	M	158	0.186	-	0.00328	0.0066	<0.30	5.6	<0.0050	6.06	<0.000050	9.0	1.07	<0.00050	<0.00050	<0.010	0.0407	<0.0050	0.0142
V36	10/11/2007	15:18	M	118	0.1	<0.000020	<0.0050	0.0082	-	3.8	<0.0050	-	<0.00010	5.8	-	<0.0010	<0.0025	<0.010	0.0233	<0.0050	0.03
V37	06/03/2007	13:22	M	71.5	0.0840	-	0.0168	<0.0010	<0.30	6.2	<0.0020	2.43	<0.000020	24.2	0.492	<0.00020	<0.00020	<0.010	0.000327	<0.0020	0.0044
V37	10/11/2007	15:40	M	70.2	0.0355	<0.000020	0.0173	<0.0020	-	5.8	<0.0020	-	<0.000040	21.5	-	<0.00040	<0.0010	<0.010	0.00076	<0.0020	0.011
X16A	05/31/2007	14:30	M	11.3	0.00055	<0.000020	0.0022	<0.0010	-	<2.0	<0.0010	-	<0.000020	2.2	-	<0.00020	<0.00050	<0.010	0.00141	<0.030	0.0312
X16A	10/04/2007	13:40	M	11.6	0.00153	<0.000020	0.0022	<0.0010	-	<2.0	0.001	-	<0.000020	2	-	<0.00020	<0.00050	<0.010	0.00158	<0.0010	0.0104
X16B	05/31/2007	14:51	M	16.8	<0.00030	<0.000020	0.0016	<0.0010	-	<2.0	0.0018	-	<0.000020	2.1	-	<0.00020	<0.00050	<0.010	0.00196	<0.030	0.0060
X16B	10/04/2007	14:22	M	15.5	<0.00040	<0.000020	0.0017	<0.0010	-	<2.0	0.0017	-	<0.000020	<2.0	-	<0.00020	<0.00050	<0.010	0.00194	<0.0010	0.0065
X17A	05/30/2007	14:42	M	25.0	0.0202	<0.000020	<0.0020	<0.0020	-	<2.0	<0.0020	-	<0.000040	3.3	-	<0.00040	<0.0010	<0.010	0.00288	<0.030	0.0092
X17A	10/10/2007	13:10	M	18.7	0.0095	<0.000020	<0.0010	<0.0010	-	<2.0	<0.0010	-	<0.000020	2.8	-	<0.00020	<0.00050	<0.010	0.00225	<0.0010	0.0069
X17B	05/30/2007	14:56	M	41.4	0.302	<0.000020	<0.0020	<0.0020	-	3.4	<0.0020	-	<0.000040	31.9	-	<0.00040	<0.0010	<0.010	0.00187	<0.030	<0.0050
X17B	10/10/2007	13:25	M	22.8	0.226	<0.000020	<0.0010	<0.0010	-	2.4	<0.0010	-	<0.000020	6.9	-	<0.00020	<0.00050	<0.010	0.00238	<0.0010	0.0086
X18A	05/30/2007	15:48	M	64.9	2.15	<0.000020	<0.0050	<0.0050	-	6.0	<0.0050	-	<0.00010	25.3	-	<0.0010	<0.0025	<0.010	0.0071	<0.030	0.0095
X18A	10/05/2007	11:47	M	57.7	1.24	<0.000020	<0.0050	<0.0050	-	6	<0.0050	-	<0.00010	22.6	-	<0.0010	<0.0025	<0.010	0.0079	<0.0050	0.0102
X18B	05/30/2007	15:45	M	65.6	2.09	<0.000020	<0.0050	0.0144	-	6.7	<0.0050	-	<0.00010	22.0	-	<0.0010	<0.0025	<0.010	0.0101	<0.030	0.0069
X18B	10/05/2007	12:05	M	57	1.99	<0.000020	<0.0050	0.0137	-	6.6	<0.0050	-	<0.00010	21.3	-	<0.0010	<0.0025	<0.010	0.0091	<0.0050	0.0083
X21A-96	06/01/2007	14:30	M	865	474	0.000032	<0.10	<0.10	-	<20	<0.10	-	<0.0020	32	-	<0.020	<0.050	<0.10	<0.020	0.61	79.2
X21A-96	10/10/2007	14:20	M	842	481	<0.000020	<0.10	<0.10	-	<20	<0.10	-	<0.0020	45	-	<0.020	<0.050	<0.10	<0.020	<0.10	36.9
X21B-96	06/01/2007	14:40	M	50.9	21.8	<0.000020	<0.0050	0.0134	-	4.6	<0.0050	-	<0.00010	69.4	-	<0.0010	<0.0025	<0.010	0.0033	<0.030	0.224
X21B-96	10/10/2007	14:27	M	55.2	27.6	<0.000020	<0.0050	0.0163	-	4.5	<0.0050	-	<0.00010	63.4	-	<0.0010	<0.0025	<0.010	0.0036	<0.0050	0.321
X21B-96	10/10/2007	14:27	SS	54.7	26.9	<0.000020	<0.0050	0.0159	-	4.3	<0.0050	-	<0.00010	62.3	-	<0.0010	<0.0025	<0.010	0.0036	<0.0050	0.318
X21C-96	06/01/2007	14:55	M	9.71	0.206	<0.000020	0.0041	<0.0010	-	2.0	<0.0010	-	<0.000020	2.9	-	<0.00020	<0.00050	<0.010	0.00028	<0.030	<0.0050
X21C-96	06/01/2007	14:55	SS	9.75	0.217	<0.000020	0.0040	<0.0010	-	2.0	<0.0010	-	<0.000020	3.1	-	<0.00020	<0.00050	<0.010	<0.00020	<0.030	<0.0050
X21C-96	10/10/2007	15:05	M	9.35	0.235	<0.000020	0.0042	<0.0010	-	<2.0	<0.0010	-	<0.000020	2.8	-	<0.00020	<0.00050	<0.010	0.0002	<0.0010	0.0081
X24A-96	08/01/2007	17:25	M	127	39.2	<0.000020	<0.010	0.051	-	6.7	<0.010	-	<0.00020	36.5	-	<0.0020	<0.0050	<0.010	0.0091	<0.030	0.0165
X24A-96	10/04/2007	15:06	M	123	45	<0.000020	<0.020	0.068	-	7.3	<0.020	-	<0.00040	38.5	-	<0.0040	<0.010	<0.010	0.0102	<0.020	0.0198
X24A-96	11/06/2007	10:02	M	120	43.7	<0.000050	<0.01	0.060	-	6.6	<0.01	-	<0.0002	35.7	-	<0.0020	<0.005	0.011	0.0084	<0.010	0.0199
X24D-96	08/01/2007	18:15	M	131	52.6	<0.000020	<0.010	0.221	-	6.4	<0.010	-	<0.00020	43.5	-	<0.0020	<0.0050	<0.010	0.0057	<0.030	0.0697
X24D-96	10/04/2007	15:50	M	134	51.6	<0.000020	<0.020	0.243	-	7.7	<0.020	-	<0.00040	47.1	-	<0.0040	<0.010	<0.010	0.0058	<0.020	0.0824
X24D-96	11/06/2007	10:37	M	140	53.2	<0.000050	<0.010	0.213	-	7.7	<0.010	-	<0.00020	47.9	-	<0.0020	<0.0050	0.011	0.0053	<0.010	0.076
X24D-96	11/06/2007	10:37	SS	141	55.3	<0.000050	<0.010	0.22	-	7.9	<0.010	-	<0.00020	45.9	-	<0.0020	<0.0050	0.013	0.0056	<0.010	0.081
X25A-96	05/31/2007	11:21	M	36.7	6.09	<0.000020	0.0021	0.0055	-	4.3	<0.0020	-	<0.000040	26.2	-	<0.00040	<0.0010	<0.010	0.00883	<0.030	0.0071
X25A-96	08/01/2007	18:45	M	34.2	5.46	<0.000020	<0.0020	0.0043	-	3.5											

Appendix A

Appendix A. Original Laboratory Reports



Environmental Division

ANALYTICAL REPORT

GARTNER LEE LTD.

ATTN: JEN FUNSTON

2251 2ND AVENUE

WHITEHORSE YT Y1A 5W1

Reported On: 30-NOV-07 04:11 PM

Revision: 1

Lab Work Order #: L513918

Date Received: 05-JUN-07

Project P.O. #:

Job Reference: 60601 FARO MINE

Legal Site Desc:

CofC Numbers: A005288

Other Information:

Comments:



Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

Can Dang

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

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ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L513918-1	L513918-2	L513918-3	L513918-4	L513918-5
		29-MAY-07	29-MAY-07	29-MAY-07	30-MAY-07	30-MAY-07
		FB	P2001-02A	P2001-02B	P2001-03	P2001-03-S
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	<0.50	816	737	514	511
	Conductivity (uS/cm)	<2.0	1210	1120	929	923
	pH (pH)	6.47	8.14	8.12	8.15	8.14
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	<2.0	442	361	440	446
	Sulfate (SO4) (mg/L)	<1.0	308	249	124	126
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0038	0.0026	0.0048	0.0048	0.0023
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020
	Arsenic (As)-Dissolved (mg/L)	<0.00010	0.0149	0.0173	0.00372	0.00369
	Barium (Ba)-Dissolved (mg/L)	0.000058	0.0161	0.0255	0.0309	0.0305
	Beryllium (Be)-Dissolved (mg/L)	<0.00050	<0.0010	<0.0010	<0.0010	<0.0010
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.0010	<0.0010	<0.0010	<0.0010
	Boron (B)-Dissolved (mg/L)	<0.010	<0.020	<0.020	0.023	0.024
	Cadmium (Cd)-Dissolved (mg/L)	<0.000017	<0.000034	<0.000034	0.000888	0.000847
	Calcium (Ca)-Dissolved (mg/L)	<0.050	183	155	99.8	98.3
	Chromium (Cr)-Dissolved (mg/L)	0.00231	<0.0010	<0.0010	<0.0010	<0.0010
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	<0.00020	0.00024	0.00077	0.00078
	Copper (Cu)-Dissolved (mg/L)	<0.00010	<0.00020	<0.00020	0.00233	0.00233
	Iron (Fe)-Dissolved (mg/L)	<0.030	1.36	1.95	<0.030	<0.030
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.00010	0.00016	<0.00010	<0.00010
	Lithium (Li)-Dissolved (mg/L)	<0.0050	0.026	0.033	0.011	0.011
	Magnesium (Mg)-Dissolved (mg/L)	<0.10	87.4	85.3	64.4	64.5
	Manganese (Mn)-Dissolved (mg/L)	<0.000050	0.117	0.181	0.593	0.591
	Molybdenum (Mo)-Dissolved (mg/L)	0.000111	0.00164	0.00606	0.0165	0.0163
	Nickel (Ni)-Dissolved (mg/L)	<0.00050	<0.0010	<0.0010	0.0018	0.0018
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	<2.0	3.8	4.8	3.2	3.2
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020
	Silicon (Si)-Dissolved (mg/L)	<0.050	5.00	5.37	6.12	6.10
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000020	<0.000020	<0.000020	<0.000020
	Sodium (Na)-Dissolved (mg/L)	<2.0	6.7	11.1	42.1	41.2
	Strontium (Sr)-Dissolved (mg/L)	<0.00010	0.822	0.771	0.613	0.604
	Thallium (Tl)-Dissolved (mg/L)	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	<0.000010	0.0207	0.0174	0.0128	0.0125
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020
	Zinc (Zn)-Dissolved (mg/L)	0.0055	0.0040	0.0047	0.0089	0.0094

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L513918-6	L513918-7	L513918-8	L513918-9	
		29-MAY-07	29-MAY-07	29-MAY-07	02-JUN-07	
		V34	V35	V36	V37	
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	626	2510	1280	434	
	Conductivity (uS/cm)	968	3050	1760	769	
	pH (pH)	8.21	8.05	8.10	8.31	
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)	506	677	487	407	
	Sulfate (SO ₄) (mg/L)	107	1680	693	63.5	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0048	<0.010	<0.0050	<0.0020	
	Antimony (Sb)-Dissolved (mg/L)	<0.00020	<0.0010	<0.00050	<0.00020	
	Arsenic (As)-Dissolved (mg/L)	0.00163	0.0011	0.0597	0.00139	
	Barium (Ba)-Dissolved (mg/L)	0.112	0.0126	0.0142	0.163	
	Beryllium (Be)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0025	<0.0010	
	Bismuth (Bi)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0025	<0.0010	
	Boron (B)-Dissolved (mg/L)	<0.020	<0.10	<0.050	0.035	
	Cadmium (Cd)-Dissolved (mg/L)	<0.000034	0.00020	0.000146	0.000062	
	Calcium (Ca)-Dissolved (mg/L)	90.2	521	251	56.1	
	Chromium (Cr)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0025	<0.0010	
	Cobalt (Co)-Dissolved (mg/L)	0.00048	<0.0010	0.00167	0.00022	
	Copper (Cu)-Dissolved (mg/L)	0.00023	0.0012	<0.00050	0.00030	
	Iron (Fe)-Dissolved (mg/L)	0.854	<0.030	0.609	1.16	
	Lead (Pb)-Dissolved (mg/L)	0.00028	0.00060	0.00127	<0.00010	
	Lithium (Li)-Dissolved (mg/L)	0.014	<0.050	0.036	0.025	
	Magnesium (Mg)-Dissolved (mg/L)	97.3	293	158	71.5	
	Manganese (Mn)-Dissolved (mg/L)	0.0832	0.186	0.186	0.0840	
	Molybdenum (Mo)-Dissolved (mg/L)	0.00318	0.00212	0.00328	0.0168	
	Nickel (Ni)-Dissolved (mg/L)	<0.0010	0.0118	0.0066	<0.0010	
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	
	Potassium (K)-Dissolved (mg/L)	3.9	5.5	5.6	6.2	
	Selenium (Se)-Dissolved (mg/L)	<0.0020	<0.010	<0.0050	<0.0020	
	Silicon (Si)-Dissolved (mg/L)	4.82	5.76	6.06	2.43	
	Silver (Ag)-Dissolved (mg/L)	<0.000020	<0.00010	<0.000050	<0.000020	
	Sodium (Na)-Dissolved (mg/L)	6.6	11.5	9.0	24.2	
	Strontium (Sr)-Dissolved (mg/L)	0.824	1.59	1.07	0.492	
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.0010	<0.00050	<0.00020	
	Tin (Sn)-Dissolved (mg/L)	<0.00020	<0.0010	<0.00050	<0.00020	
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	
	Uranium (U)-Dissolved (mg/L)	0.0103	0.139	0.0407	0.000327	
	Vanadium (V)-Dissolved (mg/L)	<0.0020	<0.010	<0.0050	<0.0020	
	Zinc (Zn)-Dissolved (mg/L)	0.0073	<0.0050	0.0142	0.0044	

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
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.			
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.			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.			
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-MS-VA	Water	Dissolved Metals in Water by ICPMS(Low)	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 procedure involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).			
MET-DIS-ULTRA-MS-VA	Water	Diss. Metals in Water by ICPMS (Ultra)	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 procedure involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).			
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			
SO4-TUR-VA	Water	Sulphate(SO4) by Turbidity	APHA 4500-SO4 "Sulphate"
This analysis is carried out using procedures adapted from APHA Method 4500-SO4 "Sulphate". Sulphate is determined using the turbidimetric method.			

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA		

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in enviromental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

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.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Environmental Division



www.alsenviro.com

LS13918

REPORT TO:

REPORT FORMAT / DISTRIBUTION

SERVICE REQUESTED

COMPANY: Gartner Lee Limited

STANDARD ☒ OTHER ☐

☒ REGULAR SERVICE (DEFAULT)

CONTACT: Jennifer Funston

PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐

☐ RUSH SERVICE (2-3 DAYS)

ADDRESS: 2251 2nd Avenue

EMAIL 1: jfunstonegartnerlee.com

☐ PRIORITY SERVICE (1 DAY or ASAP)

Whitehorse, Yukon Y1A 5W1

EMAIL 2:

☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS

PHONE: 867.633.6474 FAX: 867.633.6321

INDICATE BOTTLES: FILTERED / PRESERVED (F/P)

ANALYSIS REQUEST

INVOICE TO: SAME AS REPORT? ☒ YES ☐ NO

COMPANY:

CLIENT / PROJECT INFORMATION: Fore Mine

CONTACT:

JOB #: 60601

ADDRESS:

PO / A/E:

PHONE:

Legal Site Description:

FAX:

QUOTE #:

Lab Work Order #
(lab use only)

SAMPLER (Initials): KDJ, JK

SAMPLE IDENTIFICATION

(This description will appear on the report)

DATE

TIME

SAMPLE TYPE

General Chemistry
pH, cond, hardness, total alkalinity, sulphate

Dissolved Metals

HAZARDOUS ?

HIGHLY CONTAMINATED ?

NUMBER OF CONTAINERS

GUIDELINES / REGULATIONS

CCME Aquatic Life Metals

SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS

Please use ultra-low detection limits as specified in email from Can Barron "detection limits" in Table 2, (May 17, 2007)

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

RELINQUISHED BY:

DATE & TIME: May 23, 2007

RECEIVED BY:

DATE & TIME: June 5, 14:36

RELINQUISHED BY:

DATE & TIME:

RECEIVED BY:

DATE & TIME:

TEMPERATURE

SAMPLE CONDITION (lab use only)
SAMPLES RECEIVED IN GOOD CONDITION? ☒ YES ☐ NO

REFER TO BACK PAGE FOR REGIONAL LOCATIONS AND SAMPLING INFORMATION

WHITE - REPORT COPY, PINK - FILE COPY, YELLOW - CLIENT COPY

GEN/F14.00

Project	60601 FARO MINE
Report To	JEN FUNSTON, GARTNER LEE LTD.
ALS File No.	L513918
Date Received	05-Jun-07
Date	30-Nov-07

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Anions and Nutrients											
L513918-6	Water	WG610849-2	Sulfate (SO4)	107	109	mg/L	2.4	20	-	-	-
Dissolved Metals											
L513918-8	Water	WG608711-6	Aluminum (Al)-Dissolvec	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L513918-8	Water	WG608711-6	Antimony (Sb)-Dissolvec	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L513918-8	Water	WG608711-6	Arsenic (As)-Dissolved	0.0597	0.0666	mg/L	11	20	-	-	-
L513918-8	Water	WG608711-6	Barium (Ba)-Dissolvec	0.0142	0.0155	mg/L	9.1	20	-	-	-
L513918-8	Water	WG608711-6	Beryllium (Be)-Dissolvec	<0.0025	<0.0025	mg/L	N/A	20	-	-	RPD-NA
L513918-8	Water	WG608711-6	Bismuth (Bi)-Dissolvec	<0.0025	<0.0025	mg/L	N/A	20	-	-	RPD-NA
L513918-8	Water	WG608711-6	Boron (B)-Dissolvec	<0.050	0.017	mg/L	-	-	0.002	0.04	J
L513918-8	Water	WG608711-6	Cadmium (Cd)-Dissolvec	0.000146	0.000192	mg/L	-	-	0.000046	0.00034	J
L513918-8	Water	WG608711-6	Calcium (Ca)-Dissolvec	251	252	mg/L	0.34	20	-	-	-
L513918-8	Water	WG608711-6	Chromium (Cr)-Dissolvec	<0.0025	<0.0025	mg/L	N/A	20	-	-	RPD-NA
L513918-8	Water	WG608711-6	Cobalt (Co)-Dissolvec	0.00167	0.00181	mg/L	-	-	0.00014	0.002	J
L513918-8	Water	WG608711-6	Copper (Cu)-Dissolvec	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L513918-8	Water	WG608711-6	Iron (Fe)-Dissolvec	0.609	0.608	mg/L	0.082	20	-	-	-
L513918-8	Water	WG608711-6	Lead (Pb)-Dissolvec	0.00127	0.00139	mg/L	-	-	0.00012	0.001	J
L513918-8	Water	WG608711-6	Lithium (Li)-Dissolvec	0.036	0.039	mg/L	-	-	0.003	0.1	J
L513918-8	Water	WG608711-6	Magnesium (Mg)-Dissolvec	158	160	mg/L	0.66	20	-	-	-
L513918-8	Water	WG608711-6	Manganese (Mn)-Dissolvec	0.186	0.201	mg/L	7.9	20	-	-	-
L513918-8	Water	WG608711-6	Molybdenum (Mo)-Dissolvec	0.00328	0.00358	mg/L	8.7	20	-	-	-
L513918-8	Water	WG608711-6	Nickel (Ni)-Dissolved	0.0066	0.0078	mg/L	-	-	0.0012	0.01	J
L513918-8	Water	WG608711-6	Phosphorus (P)-Dissolvec	<0.30	<0.30	mg/L	N/A	20	-	-	RPD-NA
L513918-8	Water	WG608711-6	Potassium (K)-Dissolvec	5.6	5.6	mg/L	-	-	0.1	8	J
L513918-8	Water	WG608711-6	Selenium (Se)-Dissolvec	<0.0050	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L513918-8	Water	WG608711-6	Silicon (Si)-Dissolvec	6.06	6.12	mg/L	0.89	20	-	-	-
L513918-8	Water	WG608711-6	Silver (Ag)-Dissolvec	<0.000050	<0.000050	mg/L	N/A	20	-	-	RPD-NA
L513918-8	Water	WG608711-6	Sodium (Na)-Dissolvec	9.0	9.1	mg/L	-	-	0.1	8	J
L513918-8	Water	WG608711-6	Strontium (Sr)-Dissolvec	1.07	1.18	mg/L	9.1	20	-	-	-
L513918-8	Water	WG608711-6	Thallium (Tl)-Dissolvec	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L513918-8	Water	WG608711-6	Tin (Sn)-Dissolved	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L513918-8	Water	WG608711-6	Titanium (Ti)-Dissolvec	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L513918-8	Water	WG608711-6	Uranium (U)-Dissolvec	0.0407	0.0447	mg/L	9.4	20	-	-	-
L513918-8	Water	WG608711-6	Vanadium (V)-Dissolvec	<0.0050	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L513918-8	Water	WG608711-6	Zinc (Zn)-Dissolvec	0.0142	0.0157	mg/L	-	-	0.0015	0.02	J



Environmental Division

ANALYTICAL REPORT

GARTNER LEE LTD.

ATTN: JEN FUNSTON

2251 2ND AVENUE

WHITEHORSE YT Y1A 5W1

Reported On: 15-DEC-07 12:32 AM

Revision: 5

Lab Work Order #: **L513920**

Date Received: **05-JUN-07**

Project P.O. #:

Job Reference: 60601 FARO MINE

Legal Site Desc:

CofC Numbers: A006766

Other Information:

Comments:

This revision of the report replaces and supersedes all previous revisions.
The Sulfate result for samples L513920 - 4 have been deleted due to the suspected error.

ADDITIONAL 20-NOV-07 16:41

The detection limits for some dissolved metals were increased for the
samples reported due to interferences encountered during analysis.



Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

NATASHA MARKOVIC-MIROVIC

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L513920-1	L513920-2	L513920-3	L513920-4	L513920-5
Grouping Analyte						
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	280	166	204	302	295
	Conductivity (uS/cm)	465	957	444	639	641
	pH (pH)	8.15	4.78	5.74	6.64	6.75
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)	274	4.1	4.9	23.3	24.5
	Bromide (Br) (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Sulfate (SO ₄) (mg/L)	4.0	582	222		316
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.019	0.644	0.090	<0.025	<0.025
	Antimony (Sb)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0010	<0.0025	<0.0025
	Arsenic (As)-Dissolved (mg/L)	0.0107	<0.0050	<0.0010	<0.0025	<0.0025
	Barium (Ba)-Dissolved (mg/L)	0.238	<0.020	<0.020	0.040	0.040
	Beryllium (Be)-Dissolved (mg/L)	<0.0020	<0.010	<0.0020	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	<0.000034	0.00539	0.00473	0.00324	0.00306
	Calcium (Ca)-Dissolved (mg/L)	84.9	41.9	63.4	93.2	90.2
	Chromium (Cr)-Dissolved (mg/L)	<0.0020	<0.010	<0.0020	<0.0050	<0.0050
	Cobalt (Co)-Dissolved (mg/L)	0.00151	0.0566	0.0992	0.113	0.113
	Copper (Cu)-Dissolved (mg/L)	<0.0020	0.019	<0.0020	<0.0050	<0.0050
	Iron (Fe)-Dissolved (mg/L)	3.11	208	10.4	18.4	18.2
	Lead (Pb)-Dissolved (mg/L)	<0.0010	<0.0050	0.0020	<0.0025	<0.0025
	Lithium (Li)-Dissolved (mg/L)	0.018	<0.050	0.023	0.030	0.029
	Magnesium (Mg)-Dissolved (mg/L)	16.4	15.0	11.0	16.7	16.9
	Manganese (Mn)-Dissolved (mg/L)	0.145	5.44	6.64	15.0	14.5
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	0.0028	<0.010	<0.0020	<0.0050	<0.0050
	Nickel (Ni)-Dissolved (mg/L)	<0.0020	0.080	0.107	0.122	0.122
	Potassium (K)-Dissolved (mg/L)	2.7	3.3	2.3	2.7	2.7
	Selenium (Se)-Dissolved (mg/L)	<0.0020	<0.010	<0.0020	<0.0050	<0.0050
	Silver (Ag)-Dissolved (mg/L)	<0.000040	<0.00020	<0.000040	<0.00010	<0.00010
	Sodium (Na)-Dissolved (mg/L)	10.1	8.3	5.9	11.9	12.2
	Thallium (Tl)-Dissolved (mg/L)	<0.00040	<0.0020	<0.00040	<0.0010	<0.0010
	Tin (Sn)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0010	<0.0025	<0.0025
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.00050	<0.0020	<0.00040	<0.0010	<0.0010
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	0.0059	46.8	5.36	4.18	4.07

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L513920-6	L513920-7	L513920-8	L513920-9	
Grouping Analyte						
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	396	784	4120	4050	
	Conductivity (uS/cm)	820	1540	13600	14500	
	pH (pH)	7.28	6.67	3.19	3.24	
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)	73.2	7.7	<2.0	3.0	
	Bromide (Br) (mg/L)	<0.050	<0.050	<250	<250	
	Sulfate (SO ₄) (mg/L)	403	1100	31800	36800	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.050	<0.025	<2.5	<2.5	
	Antimony (Sb)-Dissolved (mg/L)	<0.0050	<0.0025	<0.25	<0.25	
	Arsenic (As)-Dissolved (mg/L)	0.0107	<0.0025	<0.25	<0.25	
	Barium (Ba)-Dissolved (mg/L)	0.108	<0.020	<0.40	<0.40	
	Beryllium (Be)-Dissolved (mg/L)	<0.010	<0.0050	<0.50	<0.50	
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<2.0	<2.0	
	Cadmium (Cd)-Dissolved (mg/L)	<0.00017	0.000103	<0.0085	<0.0085	
	Calcium (Ca)-Dissolved (mg/L)	120	221	383	389	
	Chromium (Cr)-Dissolved (mg/L)	<0.010	<0.0050	<0.50	<0.50	
	Cobalt (Co)-Dissolved (mg/L)	0.0409	<0.0015	<0.15	<0.15	
	Copper (Cu)-Dissolved (mg/L)	<0.010	<0.0050	<0.50	<0.50	
	Iron (Fe)-Dissolved (mg/L)	23.2	153	15000	17300	
	Lead (Pb)-Dissolved (mg/L)	<0.0050	<0.0025	0.34	1.16	
	Lithium (Li)-Dissolved (mg/L)	<0.050	<0.025	<2.5	<2.5	
	Magnesium (Mg)-Dissolved (mg/L)	23.5	56.5	769	748	
	Manganese (Mn)-Dissolved (mg/L)	32.8	13.6	213	194	
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	0.000038	0.000030	
	Molybdenum (Mo)-Dissolved (mg/L)	<0.010	<0.0050	<0.50	<0.50	
	Nickel (Ni)-Dissolved (mg/L)	0.032	<0.0050	<0.50	<0.50	
	Potassium (K)-Dissolved (mg/L)	3.3	5.1	75	72	
	Selenium (Se)-Dissolved (mg/L)	<0.010	<0.0050	<0.50	<0.50	
	Silver (Ag)-Dissolved (mg/L)	<0.00020	<0.00010	<0.010	<0.010	
	Sodium (Na)-Dissolved (mg/L)	28.2	67.9	383	382	
	Thallium (Tl)-Dissolved (mg/L)	<0.0020	<0.0010	<0.10	<0.10	
	Tin (Sn)-Dissolved (mg/L)	<0.0050	<0.0025	<0.25	<0.25	
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.20	<0.20	
	Uranium (U)-Dissolved (mg/L)	<0.0020	<0.0010	<0.10	<0.10	
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	1.56	1.92	
	Zinc (Zn)-Dissolved (mg/L)	0.338	0.0062	734	473	

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ANIONS-BR-IC-VA	Water	Bromide by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
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.			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.			
HG-DIS-CCME-CVAFS-VA	Water	Diss. Mercury in Water by CVAFS (CCME)	EPA 3005A/245.7
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 filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).			
MET-DIS-CCME-ICP-VA	Water	Diss. Metals in Water by ICPOES (CCME)	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 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 - optical emission spectrophotometry (EPA Method 6010B).			
MET-DIS-CCME-MS-VA	Water	Diss. Metals in Water by ICPMS (CCME)	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).			
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			
SO4-TUR-VA	Water	Sulphate(SO4) by Turbidity	APHA 4500-SO4 "Sulphate"
This analysis is carried out using procedures adapted from APHA Method 4500-SO4 "Sulphate". Sulphate is determined using the turbidimetric method.			
ZN-DIS-CCME-ICP-VA	Water	Diss. Zinc in Water by ICPOES (CCME)	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 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 - optical emission spectrophotometry (EPA Method 6010B).			

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
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Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
VA		ALS LABORATORY GROUP - VANCOUVER, BC, CANADA	

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

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.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Environmental Division



www.alsenviro.com

REPORT TO:

COMPANY: Gartner Lee Limited

CONTACT: Jennifer Funston

ADDRESS: 2251 2nd Avenue

Whitehorse, Yukon Y1A 5W1

PHONE: 867.633.6474 FAX: 867.633.6321

INVOICE TO: SAME AS REPORT ? (YES) NO

COMPANY:

CONTACT:

ADDRESS:

PHONE:

Lab Work Order #

Sample #

REPORT FORMAT / DISTRIBUTION

STANDARD ✓ OTHER

PDF ✓ EXCEL ✓ CUSTOM FAX

EMAIL 1: funstone@gartnerlee.com

EMAIL 2:

INDICATE BOTTLES: FILTERED / PRESERVED (F/P)

CLIENT / PROJECT INFORMATION: Faro Mine

JOB #: 66601

PO / AFE:

Legal Site Description:

QUOTE #:

SAMPLER (Initials):

DATE

TIME

SAMPLE TYPE

SERVICE REQUESTED

✓ REGULAR SERVICE (DEFAULT)

RUSH SERVICE (2-3 DAYS)

PRIORITY SERVICE (1 DAY or ASAP)

EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS

ANALYSIS REQUEST

HAZARDOUS ?
HIGHLY CONTAMINATED ?
NUMBER OF CONTAINERS

GUIDELINES / REGULATIONS

CCME Aquatic Life Metals

SPECIAL INSTRUCTIONS / 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 reverse page of the white report copy.

RELINQUISHED BY:

DATE & TIME: June 28, 2007

RECEIVED BY:

AK

DATE & TIME: June 5 14:37

TEMPERATURE

SAMPLE CONDITION (lab use only)

SAMPLES RECEIVED IN GOOD CONDITION ? (YES) NO

RELINQUISHED BY:

DATE & TIME:

RECEIVED BY:

ice pack

Project 60601 FARO MINE
Report To JEN FUNSTON, GARTNER LEE LTD.
ALS File No. L513920
Date Received 05-Jun-07
Date 15-Dec-07

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Dissolved Metals											
L513920-7	Water	WG608711-7	Aluminum (Al)-Dissolved	<0.025	<0.025	mg/L	N/A	20	-	-	RPD-NA
L513920-7	Water	WG608711-7	Antimony (Sb)-Dissolved	<0.0025	<0.0025	mg/L	N/A	20	-	-	RPD-NA
L513920-7	Water	WG608711-7	Arsenic (As)-Dissolved	<0.0025	<0.0025	mg/L	N/A	20	-	-	RPD-NA
L513920-7	Water	WG608711-7	Barium (Ba)-Dissolved	<0.020	<0.020	mg/L	N/A	20	-	-	RPD-NA
L513920-7	Water	WG608711-7	Beryllium (Be)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L513920-7	Water	WG608711-7	Boron (B)-Dissolved	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
L513920-7	Water	WG608711-7	Cadmium (Cd)-Dissolved	0.000103	0.000085	mg/L	-	-	0.000018	0.0002	J
L513920-7	Water	WG608711-7	Calcium (Ca)-Dissolved	221	222	mg/L	0.81	20	-	-	-
L513920-7	Water	WG608711-7	Chromium (Cr)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L513920-7	Water	WG608711-7	Cobalt (Co)-Dissolved	<0.0015	<0.0015	mg/L	N/A	20	-	-	RPD-NA
L513920-7	Water	WG608711-7	Copper (Cu)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L513920-7	Water	WG608711-7	Iron (Fe)-Dissolved	153	154	mg/L	0.50	20	-	-	-
L513920-7	Water	WG608711-7	Lead (Pb)-Dissolved	<0.0025	<0.0025	mg/L	N/A	20	-	-	RPD-NA
L513920-7	Water	WG608711-7	Lithium (Li)-Dissolved	<0.025	<0.025	mg/L	N/A	20	-	-	RPD-NA
L513920-7	Water	WG608711-7	Magnesium (Mg)-Dissolved	56.5	56.1	mg/L	0.80	20	-	-	-
L513920-7	Water	WG608711-7	Manganese (Mn)-Dissolved	13.6	13.6	mg/L	0.35	20	-	-	-
L513920-7	Water	WG608711-7	Mercury (Hg)-Dissolved	<0.000020	<0.000020	mg/L	N/A	20	-	-	RPD-NA
L513920-7	Water	WG608711-7	Molybdenum (Mo)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L513920-7	Water	WG608711-7	Nickel (Ni)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L513920-7	Water	WG608711-7	Potassium (K)-Dissolved	5.1	5.0	mg/L	-	-	0.0	8	J
L513920-7	Water	WG608711-7	Selenium (Se)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L513920-7	Water	WG608711-7	Silver (Ag)-Dissolved	<0.00010	<0.00010	mg/L	N/A	20	-	-	RPD-NA
L513920-7	Water	WG608711-7	Sodium (Na)-Dissolved	67.9	67.9	mg/L	0.043	20	-	-	-
L513920-7	Water	WG608711-7	Thallium (Tl)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L513920-7	Water	WG608711-7	Tin (Sn)-Dissolved	<0.0025	<0.0025	mg/L	N/A	20	-	-	RPD-NA
L513920-7	Water	WG608711-7	Titanium (Ti)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L513920-7	Water	WG608711-7	Uranium (U)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L513920-7	Water	WG608711-7	Vanadium (V)-Dissolved	<0.030	<0.030	mg/L	N/A	20	-	-	RPD-NA
Anions and Nutrients											
L513920-8	Water	WG610235-5	Alkalinity, Total (as CaCO3)	<2.0	<2.0	mg/L	N/A	20	-	-	RPD-NA
Physical Tests											
L513920-9	Water	WG608546-2	Conductivity	14500	14600	uS/cm	0.76	20	-	-	-
L513920-9	Water	WG608546-2	pH	3.24	3.28	pH	1.2	20	-	-	-



Environmental Division

ANALYTICAL REPORT

GARTNER LEE LTD.

ATTN: JEN FUNSTON

2251 2ND AVENUE

WHITEHORSE YT Y1A 5W1

Reported On: 15-DEC-07 12:23 AM

Revision: 3

Lab Work Order #: **L513921**

Date Received: **05-JUN-07**

Project P.O. #:

Job Reference: 6061 GLL/ FARO MINE

Legal Site Desc:

CofC Numbers: A006767

Other Information:

Comments: This revision of the report replaces and supersedes all previous revisions.
The Sulfate results for sample L513921-7 have been changed/corrected due to the manual data entry error.

ADDITIONAL 20-NOV-07 16:47
The detection limits for some dissolved metals were increased for the samples reported due to interferences encountered during analysis.



Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

NATASHA MARKOVIC-MIROVIC

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L513921-1	L513921-2	L513921-3	L513921-4	L513921-5
		Description					
		Sampled Date	30-MAY-07	30-MAY-07	30-MAY-07	30-MAY-07	30-MAY-07
		Sampled Time					
		Client ID	P03-04-01	P03-04-02	P03-04-03	P03-04-03-S	P03-04-04
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		1180	1040	893	875	556
	Conductivity (uS/cm)		1740	1490	1340	1340	1110
	pH (pH)		7.90	7.44	7.18	7.43	7.96
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)		275	124	98.8	96.9	209
	Sulfate (SO4) (mg/L)		1010	977	835	796	448
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		<0.025	<0.050	0.031	0.070	0.172
	Antimony (Sb)-Dissolved (mg/L)		<0.0025	<0.0050	<0.0025	<0.0050	<0.0050
	Arsenic (As)-Dissolved (mg/L)		<0.0025	<0.0050	<0.0025	<0.0050	0.0067
	Barium (Ba)-Dissolved (mg/L)		<0.020	<0.020	<0.020	<0.020	0.059
	Beryllium (Be)-Dissolved (mg/L)		<0.0050	<0.010	<0.0050	<0.010	<0.010
	Boron (B)-Dissolved (mg/L)		<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)		0.000098	0.00269	0.00161	0.00181	<0.00017
	Calcium (Ca)-Dissolved (mg/L)		385	309	263	257	182
	Chromium (Cr)-Dissolved (mg/L)		<0.0050	<0.010	<0.0050	<0.010	<0.010
	Cobalt (Co)-Dissolved (mg/L)		<0.0015	0.121	0.0655	0.0741	0.0057
	Copper (Cu)-Dissolved (mg/L)		<0.0050	<0.010	<0.0050	<0.010	<0.010
	Iron (Fe)-Dissolved (mg/L)		7.66	0.200	0.196	0.175	5.63
	Lead (Pb)-Dissolved (mg/L)		<0.0025	<0.0050	<0.0025	<0.0050	<0.0050
	Lithium (Li)-Dissolved (mg/L)		<0.025	<0.050	<0.025	<0.050	<0.050
	Magnesium (Mg)-Dissolved (mg/L)		54.2	64.3	57.3	56.9	24.5
	Manganese (Mn)-Dissolved (mg/L)		1.81	38.0	26.8	30.1	6.12
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)		<0.0050	<0.010	<0.0050	<0.010	<0.010
	Nickel (Ni)-Dissolved (mg/L)		<0.0050	0.192	0.0905	0.104	<0.010
	Potassium (K)-Dissolved (mg/L)		5.5	4.0	3.6	3.6	3.2
	Selenium (Se)-Dissolved (mg/L)		<0.0050	<0.010	<0.0050	<0.010	<0.010
	Silver (Ag)-Dissolved (mg/L)		<0.00010	<0.00020	<0.00010	<0.00020	<0.00020
	Sodium (Na)-Dissolved (mg/L)		101	27.7	24.7	24.3	91.0
	Thallium (Tl)-Dissolved (mg/L)		<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	Tin (Sn)-Dissolved (mg/L)		<0.0025	<0.0050	<0.0025	<0.0050	<0.0050
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)		0.0069	<0.0020	<0.0010	<0.0020	0.0024
	Vanadium (V)-Dissolved (mg/L)		<0.030	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)		<0.020	0.0575	0.0571	0.0581	0.0054

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L513921-6	L513921-7	L513921-8	L513921-9	L513921-10
Grouping						
Analyte						
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	978	1680	1680	1340	1330
	Conductivity (uS/cm)	1450	3970	3810	5190	
	pH (pH)	7.29	4.81	4.99	3.60	
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)	125	17.3	17.0	4.0	
	Sulfate (SO ₄) (mg/L)	892	4650	4420	7940	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.050	<0.10	<0.10	<0.25	0.59
	Antimony (Sb)-Dissolved (mg/L)	<0.0050	<0.010	<0.010	<0.025	<0.025
	Arsenic (As)-Dissolved (mg/L)	0.0069	0.019	0.019	<0.025	<0.025
	Barium (Ba)-Dissolved (mg/L)	0.066	<0.040	<0.040	<0.10	<0.10
	Beryllium (Be)-Dissolved (mg/L)	<0.010	<0.020	<0.020	<0.050	<0.050
	Boron (B)-Dissolved (mg/L)	<0.10	<0.20	<0.20	<0.50	<0.50
	Cadmium (Cd)-Dissolved (mg/L)	<0.00017	<0.00034	<0.00034	<0.00085	<0.00085
	Calcium (Ca)-Dissolved (mg/L)	297	472	469	404	432
	Chromium (Cr)-Dissolved (mg/L)	<0.010	<0.020	<0.020	<0.050	<0.050
	Cobalt (Co)-Dissolved (mg/L)	0.0317	0.0465	0.0478	<0.015	<0.015
	Copper (Cu)-Dissolved (mg/L)	<0.010	<0.020	<0.020	<0.050	<0.050
	Iron (Fe)-Dissolved (mg/L)	28.1	1640	1580	3880	3880
	Lead (Pb)-Dissolved (mg/L)	<0.0050	<0.010	<0.010	<0.025	0.100
	Lithium (Li)-Dissolved (mg/L)	<0.050	<0.10	<0.10	<0.25	<0.25
	Magnesium (Mg)-Dissolved (mg/L)	57.6	122	123	80.4	60.3
	Manganese (Mn)-Dissolved (mg/L)	36.0	15.9	14.4	28.9	24.2
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	0.000070
	Molybdenum (Mo)-Dissolved (mg/L)	<0.010	<0.020	<0.020	<0.050	<0.050
	Nickel (Ni)-Dissolved (mg/L)	0.026	0.104	0.103	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	3.7	11.9	11.6	10	<10
	Selenium (Se)-Dissolved (mg/L)	<0.010	<0.020	<0.020	<0.050	<0.050
	Silver (Ag)-Dissolved (mg/L)	<0.00020	<0.00040	<0.00040	<0.0010	<0.0010
	Sodium (Na)-Dissolved (mg/L)	26.6	117	101	75	40
	Thallium (Tl)-Dissolved (mg/L)	<0.0020	<0.0040	<0.0040	<0.010	<0.010
	Tin (Sn)-Dissolved (mg/L)	<0.0050	<0.010	<0.010	<0.025	<0.025
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.020	<0.020	<0.050	<0.050
	Uranium (U)-Dissolved (mg/L)	<0.0020	<0.0040	<0.0040	<0.010	<0.010
	Vanadium (V)-Dissolved (mg/L)	<0.030	0.100	0.087	0.21	0.26
	Zinc (Zn)-Dissolved (mg/L)	0.0343	3.57	2.12	3.22	0.850

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
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.			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.			
HG-DIS-CCME-CVAFS-VA	Water	Diss. Mercury in Water by CVAFS (CCME)	EPA 3005A/245.7
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 filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).			
MET-DIS-CCME-ICP-VA	Water	Diss. Metals in Water by ICPOES (CCME)	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 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 - optical emission spectrophotometry (EPA Method 6010B).			
MET-DIS-CCME-MS-VA	Water	Diss. Metals in Water by ICPMS (CCME)	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).			
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			
SO4-TUR-VA	Water	Sulphate(SO4) by Turbidity	APHA 4500-SO4 "Sulphate"
This analysis is carried out using procedures adapted from APHA Method 4500-SO4 "Sulphate". Sulphate is determined using the turbidimetric method.			
ZN-DIS-CCME-ICP-VA	Water	Diss. Zinc in Water by ICPOES (CCME)	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 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 - optical emission spectrophotometry (EPA Method 6010B).			

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA		

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in enviromental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

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.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Environmental Division



www.alsenviro.com

REPORT TO:

REPORT FORMAT / DISTRIBUTION

SERVICE REQUESTED

COMPANY: Gastner Inc Limited

STANDARD ☒ OTHER ☐

☒ REGULAR SERVICE (DEFAULT)

CONTACT: Jennifer Funston

PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐

☐ RUSH SERVICE (2-3 DAYS)

ADDRESS: 3851 8nd Avenue

EMAIL 1: jfunston@gastnerinc.com

☐ PRIORITY SERVICE (1 DAY or ASAP)

Whitehorse Yukon, Y1A 5W1

EMAIL 2:

☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS

PHONE: 867.633.6474 FAX: 867.633.6321

INDICATE BOTTLES: FILTERED / PRESERVED (F/P) → → →

ANALYSIS REQUEST

INVOICE TO: SAME AS REPORT ? ☒ YES / NO

COMPANY:

CLIENT / PROJECT INFORMATION: Gulf Fero Mine

CONTACT:

JOB #: 60601

ADDRESS:

PO / AFE:

PHONE:

Legal Site Description:

FAX:

QUOTE #:

Lab Work Order #
(lab use only)

SAMPLER
(Initials):

SAMPLE IDENTIFICATION
(This description will appear on the report)

DATE

TIME

SAMPLE TYPE

HAZARDOUS ?

HIGHLY CONTAMINATED ?

NUMBER OF CONTAINERS

P03-04-01

Aug 30, 2007

GUL

X

X

X

X

X

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P03-04-02

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P03-04-03

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P03-04-03-5

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P03-04-07

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P03-04-08

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P03-04-09

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GUIDELINES / REGULATIONS

SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS

CORE Aquatic Life Metals

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 reverse page of the white report copy.

RELINQUISHED BY:

DATE & TIME: June 3, 2007

RECEIVED BY:

AG

DATE & TIME: June 5 14:37

TEMPERATURE

SAMPLE CONDITION (lab use only)

SAMPLES RECEIVED IN GOOD CONDITION ? ☒ YES / NO

RELINQUISHED BY:

DATE & TIME:

RECEIVED BY:

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DATE & TIME:

TEMPERATURE

SAMPLE CONDITION (lab use only)

SAMPLES RECEIVED IN GOOD CONDITION ? ☒ YES / NO

RELINQUISHED BY:

DATE & TIME:

RECEIVED BY:

ice pak

DATE & TIME:

TEMPERATURE

SAMPLE CONDITION (lab use only)

SAMPLES RECEIVED IN GOOD CONDITION ? ☒ YES / NO

Project 6061 GLL/ FARO MINE
Report To JEN FUNSTON, GARTNER LEE LTD.
ALS File No. L513921
Date Received 05-Jun-07
Date 15-Dec-07

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Anions and Nutrients											
L513921-2	Water	WG608942-8	Sulfate (SO4)	977	970	mg/L	0.74	20	-	-	-
Dissolved Metals											
L513921-6	Water	WG608711-8	Aluminum (Al)-Dissolved	<0.050	<0.050	mg/L	N/A	20	-	-	RPD-NA
L513921-6	Water	WG608711-8	Antimony (Sb)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L513921-6	Water	WG608711-8	Arsenic (As)-Dissolved	0.0069	0.0068	mg/L	-	-	0.0001	0.02	J
L513921-6	Water	WG608711-8	Barium (Ba)-Dissolved	0.066	0.067	mg/L	-	-	0.001	0.08	J
L513921-6	Water	WG608711-8	Beryllium (Be)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L513921-6	Water	WG608711-8	Boron (B)-Dissolved	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
L513921-6	Water	WG608711-8	Cadmium (Cd)-Dissolved	<0.00017	0.00013	mg/L	-	-	0.00002	0.0004	J
L513921-6	Water	WG608711-8	Calcium (Ca)-Dissolved	297	302	mg/L	1.8	20	-	-	-
L513921-6	Water	WG608711-8	Chromium (Cr)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L513921-6	Water	WG608711-8	Cobalt (Co)-Dissolved	0.0317	0.0327	mg/L	3.2	20	-	-	-
L513921-6	Water	WG608711-8	Copper (Cu)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L513921-6	Water	WG608711-8	Iron (Fe)-Dissolved	28.1	28.5	mg/L	1.3	20	-	-	-
L513921-6	Water	WG608711-8	Lead (Pb)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L513921-6	Water	WG608711-8	Lithium (Li)-Dissolved	<0.050	<0.050	mg/L	N/A	20	-	-	RPD-NA
L513921-6	Water	WG608711-8	Magnesium (Mg)-Dissolved	57.6	57.8	mg/L	0.24	20	-	-	-
L513921-6	Water	WG608711-8	Manganese (Mn)-Dissolved	36.0	36.7	mg/L	1.9	20	-	-	-
L513921-6	Water	WG608711-8	Mercury (Hg)-Dissolved	<0.000020	<0.000020	mg/L	N/A	20	-	-	RPD-NA
L513921-6	Water	WG608711-8	Molybdenum (Mo)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L513921-6	Water	WG608711-8	Nickel (Ni)-Dissolved	0.026	0.025	mg/L	-	-	0.000	0.04	J
L513921-6	Water	WG608711-8	Potassium (K)-Dissolved	3.7	3.7	mg/L	-	-	0.0	8	J
L513921-6	Water	WG608711-8	Selenium (Se)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L513921-6	Water	WG608711-8	Silver (Ag)-Dissolved	<0.00020	<0.00020	mg/L	N/A	20	-	-	RPD-NA
L513921-6	Water	WG608711-8	Sodium (Na)-Dissolved	26.6	26.9	mg/L	0.91	20	-	-	-
L513921-6	Water	WG608711-8	Thallium (Tl)-Dissolved	<0.0020	<0.0020	mg/L	N/A	20	-	-	RPD-NA
L513921-6	Water	WG608711-8	Tin (Sn)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L513921-6	Water	WG608711-8	Titanium (Ti)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L513921-6	Water	WG608711-8	Uranium (U)-Dissolved	<0.0020	<0.0020	mg/L	N/A	20	-	-	RPD-NA
L513921-6	Water	WG608711-8	Vanadium (V)-Dissolved	<0.030	<0.030	mg/L	N/A	20	-	-	RPD-NA
Anions and Nutrients											
L513921-9	Water	WG608942-9	Sulfate (SO4)	7940	7970	mg/L	0.37	20	-	-	-



Environmental Division

ANALYTICAL REPORT

GARTNER LEE LTD.

ATTN: JEN FUNSTON

2251 2ND AVENUE

WHITEHORSE YT Y1A 5W1

Reported On: 03-DEC-07 10:01 AM

Revision: 3

Lab Work Order #: **L513925**

Date Received: **05-JUN-07**

Project P.O. #: FARO MINE

Job Reference: 60601

Legal Site Desc:

CofC Numbers: A006783, A006784

Other Information:

Comments: ADDITIONAL 20-NOV-07 16:50
The detection limits for some dissolved metals were increased for the samples reported due to interferences encountered during analysis.



Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

NATASHA MARKOVIC-MIROVIC

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L513925-1	L513925-2	L513925-3	L513925-4	L513925-5
		28-MAY-07	28-MAY-07	28-MAY-07	28-MAY-07	29-MAY-07
		S1A	S1B	S2A	S2B	S3
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	4810	1050	4210	4190	4530
	Conductivity (uS/cm)	5930	1580	5280	3370	4340
	pH (pH)	6.91	7.24	6.87	6.17	6.85
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	216	224	228	15.9	211
	Sulfate (SO4) (mg/L)	5200	818	4450	3010	4560
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.25	0.054	<0.25	0.26	0.53
	Antimony (Sb)-Dissolved (mg/L)	<0.025	<0.0025	<0.025	<0.010	<0.025
	Arsenic (As)-Dissolved (mg/L)	<0.025	<0.0025	<0.025	<0.010	<0.025
	Barium (Ba)-Dissolved (mg/L)	<0.040	0.024	<0.040	0.053	<0.040
	Beryllium (Be)-Dissolved (mg/L)	<0.050	<0.0050	<0.050	<0.020	<0.050
	Boron (B)-Dissolved (mg/L)	<0.20	<0.10	<0.20	<0.20	<0.20
	Cadmium (Cd)-Dissolved (mg/L)	0.0177	0.000780	0.0243	0.00932	0.0101
	Calcium (Ca)-Dissolved (mg/L)	557	292	504	816	451
	Chromium (Cr)-Dissolved (mg/L)	<0.050	<0.0050	<0.050	<0.020	<0.050
	Cobalt (Co)-Dissolved (mg/L)	0.027	<0.0015	0.024	0.0273	0.037
	Copper (Cu)-Dissolved (mg/L)	<0.050	0.0053	<0.050	<0.020	<0.050
	Iron (Fe)-Dissolved (mg/L)	<0.060	0.324	0.236	156	1.12
	Lead (Pb)-Dissolved (mg/L)	<0.025	<0.0025	<0.025	<0.010	<0.025
	Lithium (Li)-Dissolved (mg/L)	<0.25	<0.025	<0.25	<0.10	<0.25
	Magnesium (Mg)-Dissolved (mg/L)	832	78.5	718	522	825
	Manganese (Mn)-Dissolved (mg/L)	76.9	1.15	78.8	55.2	115
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.050	<0.0050	<0.050	<0.020	<0.050
	Nickel (Ni)-Dissolved (mg/L)	1.78	0.0115	1.69	0.754	2.11
	Potassium (K)-Dissolved (mg/L)	10.3	2.9	10.6	7.2	10.5
	Selenium (Se)-Dissolved (mg/L)	<0.050	<0.0050	<0.050	<0.020	<0.050
	Silver (Ag)-Dissolved (mg/L)	<0.0010	<0.00010	<0.0010	<0.00040	<0.0010
	Sodium (Na)-Dissolved (mg/L)	39.4	35.7	27.5	27.8	22.1
	Thallium (Tl)-Dissolved (mg/L)	<0.010	<0.0010	<0.010	<0.0040	<0.010
	Tin (Sn)-Dissolved (mg/L)	<0.025	<0.0025	<0.025	<0.010	<0.025
	Titanium (Ti)-Dissolved (mg/L)	<0.020	<0.010	<0.020	<0.020	<0.020
	Uranium (U)-Dissolved (mg/L)	<0.010	0.0025	<0.010	<0.0040	<0.010
	Vanadium (V)-Dissolved (mg/L)	<0.060	<0.030	<0.060	<0.060	<0.060
	Zinc (Zn)-Dissolved (mg/L)	208	0.124	207	89.9	310

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L513925-6	L513925-7	L513925-8	L513925-9	L513925-10
		Description					
		Sampled Date	31-MAY-07	31-MAY-07	30-MAY-07	30-MAY-07	30-MAY-07
		Sampled Time					
		Client ID	SRK 04-3A	SRK 04-3B	SRK 05-06	SRK 05-07	SRK 05-08
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		4290	4180	764	1340	1130
	Conductivity (uS/cm)		4400	5160	1050	1600	1540
	pH (pH)		6.30	4.46	8.08	8.10	7.84
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)		111	16.0	224	532	514
	Sulfate (SO4) (mg/L)		5250	7880	444	706	634
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		0.48	2.41	<0.010	0.059	<0.025
	Antimony (Sb)-Dissolved (mg/L)		<0.025	<0.025	<0.0010	<0.0025	<0.0025
	Arsenic (As)-Dissolved (mg/L)		<0.025	<0.025	<0.0010	0.0073	<0.0025
	Barium (Ba)-Dissolved (mg/L)		<0.040	<0.040	<0.020	0.126	0.028
	Beryllium (Be)-Dissolved (mg/L)		<0.050	<0.050	<0.0020	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)		<0.20	<0.20	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)		0.0233	<0.00085	0.000176	<0.000085	<0.000085
	Calcium (Ca)-Dissolved (mg/L)		422	413	165	290	243
	Chromium (Cr)-Dissolved (mg/L)		<0.050	<0.050	<0.0020	<0.0050	<0.0050
	Cobalt (Co)-Dissolved (mg/L)		0.431	0.381	<0.00060	0.0077	<0.0015
	Copper (Cu)-Dissolved (mg/L)		<0.050	<0.050	0.0029	<0.0050	<0.0050
	Iron (Fe)-Dissolved (mg/L)		419	1790	0.392	0.575	<0.030
	Lead (Pb)-Dissolved (mg/L)		<0.025	<0.025	<0.0010	<0.0025	<0.0025
	Lithium (Li)-Dissolved (mg/L)		<0.25	<0.25	<0.010	<0.025	<0.025
	Magnesium (Mg)-Dissolved (mg/L)		785	765	85.4	149	126
	Manganese (Mn)-Dissolved (mg/L)		68.1	66.0	0.00357	0.421	0.0030
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)		<0.050	<0.050	<0.0020	0.0102	<0.0050
	Nickel (Ni)-Dissolved (mg/L)		0.716	0.644	<0.0020	0.0936	<0.0050
	Potassium (K)-Dissolved (mg/L)		9.9	10.4	<2.0	3.5	<2.0
	Selenium (Se)-Dissolved (mg/L)		<0.050	<0.050	<0.0020	<0.0050	<0.0050
	Silver (Ag)-Dissolved (mg/L)		<0.0010	<0.0010	<0.000040	<0.00010	<0.00010
	Sodium (Na)-Dissolved (mg/L)		60.5	62.7	6.3	7.5	7.5
	Thallium (Tl)-Dissolved (mg/L)		<0.010	<0.010	<0.00040	<0.0010	<0.0010
	Tin (Sn)-Dissolved (mg/L)		<0.025	<0.025	<0.0010	<0.0025	<0.0025
	Titanium (Ti)-Dissolved (mg/L)		<0.020	<0.020	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)		<0.010	<0.010	0.0160	0.0142	0.0174
	Vanadium (V)-Dissolved (mg/L)		<0.060	<0.060	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)		263	344	0.0927	0.0394	0.0130

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L513925-11	L513925-12	L513925-13	L513925-14	L513925-15
		Description					
		Sampled Date	30-MAY-07	31-MAY-07	01-JUN-07	29-MAY-07	29-MAY-07
		Sampled Time					
		Client ID	SRK 05-09	SRK 05-ETA-BR1	SRK 05-ETA-BR2	SRK 05-SP-1A	SRK 05-SP-1B
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		662	3660	1150	680	562
	Conductivity (uS/cm)		957	4190	1660	1150	945
	pH (pH)		8.03	6.05	7.50	6.47	6.89
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)		223	40.9	118	254	196
	Sulfate (SO4) (mg/L)		376	5030	1280	558	276
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		<0.010	0.97	0.031	<0.010	0.016
	Antimony (Sb)-Dissolved (mg/L)		<0.0010	<0.025	<0.0025	<0.0010	<0.0010
	Arsenic (As)-Dissolved (mg/L)		<0.0010	<0.025	<0.0025	<0.0010	0.0062
	Barium (Ba)-Dissolved (mg/L)		0.030	<0.040	0.042	<0.020	<0.020
	Beryllium (Be)-Dissolved (mg/L)		<0.0020	<0.050	<0.0050	<0.0020	<0.0020
	Boron (B)-Dissolved (mg/L)		<0.10	<0.20	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)		0.000099	0.0215	0.000093	<0.000034	0.000312
	Calcium (Ca)-Dissolved (mg/L)		138	426	360	166	144
	Chromium (Cr)-Dissolved (mg/L)		<0.0020	<0.050	<0.0050	<0.0020	<0.0020
	Cobalt (Co)-Dissolved (mg/L)		<0.00060	0.666	0.0075	0.00667	0.00486
	Copper (Cu)-Dissolved (mg/L)		0.0035	<0.050	<0.0050	<0.0020	<0.0020
	Iron (Fe)-Dissolved (mg/L)		<0.030	539	12.9	2.19	7.69
	Lead (Pb)-Dissolved (mg/L)		<0.0010	0.027	0.0037	<0.0010	<0.0010
	Lithium (Li)-Dissolved (mg/L)		<0.010	<0.25	<0.025	0.085	0.043
	Magnesium (Mg)-Dissolved (mg/L)		76.9	632	61.3	64.3	49.2
	Manganese (Mn)-Dissolved (mg/L)		0.00063	70.1	1.85	1.65	0.861
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)		<0.0020	<0.050	<0.0050	<0.0020	<0.0020
	Nickel (Ni)-Dissolved (mg/L)		<0.0020	0.830	0.0128	0.0207	0.0145
	Potassium (K)-Dissolved (mg/L)		<2.0	8.9	2.7	4.1	3.9
	Selenium (Se)-Dissolved (mg/L)		<0.0020	<0.050	<0.0050	<0.0020	<0.0020
	Silver (Ag)-Dissolved (mg/L)		<0.000040	<0.0010	0.00016	<0.000040	<0.000040
	Sodium (Na)-Dissolved (mg/L)		5.8	62.9	24.6	14.7	8.6
	Thallium (Tl)-Dissolved (mg/L)		<0.00040	<0.010	<0.0010	<0.00040	<0.00040
	Tin (Sn)-Dissolved (mg/L)		<0.0010	<0.025	<0.0025	<0.0010	<0.0010
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.020	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)		0.0139	<0.010	0.0011	<0.00040	0.00209
	Vanadium (V)-Dissolved (mg/L)		<0.030	<0.060	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)		0.0093	301	4.06	0.983	0.278

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID				
Description		L513925-16	L513925-17	L513925-18	L513925-19	
Sampled Date		29-MAY-07	29-MAY-07	28-MAY-07	28-MAY-07	
Sampled Time						
Client ID		SRK 05-SP-1B-5	SRK 05-SP-2	SRK 05-SP-3A	SRK 05-SP-3B	
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	601	163	570	563	
	Conductivity (uS/cm)	947	270	951	874	
	pH (pH)	6.83	7.06	6.65	6.71	
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	364	129	304	284	
	Sulfate (SO4) (mg/L)	280	41.6	327	277	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.013	0.0206	0.042	0.068	
	Antimony (Sb)-Dissolved (mg/L)	<0.0010	<0.00050	<0.0010	<0.0010	
	Arsenic (As)-Dissolved (mg/L)	0.0061	<0.00050	0.0017	<0.0010	
	Barium (Ba)-Dissolved (mg/L)	<0.020	0.039	<0.020	<0.020	
	Beryllium (Be)-Dissolved (mg/L)	<0.0020	<0.0010	<0.0020	<0.0020	
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	
	Cadmium (Cd)-Dissolved (mg/L)	0.000298	0.000093	<0.000034	0.000060	
	Calcium (Ca)-Dissolved (mg/L)	153	45.4	136	138	
	Chromium (Cr)-Dissolved (mg/L)	<0.0020	<0.0010	<0.0020	<0.0020	
	Cobalt (Co)-Dissolved (mg/L)	0.00487	0.00245	0.00436	0.00563	
	Copper (Cu)-Dissolved (mg/L)	<0.0020	<0.0010	<0.0020	<0.0020	
	Iron (Fe)-Dissolved (mg/L)	8.27	0.050	21.4	10.2	
	Lead (Pb)-Dissolved (mg/L)	<0.0010	<0.00050	<0.0010	<0.0010	
	Lithium (Li)-Dissolved (mg/L)	0.042	0.0123	0.054	0.054	
	Magnesium (Mg)-Dissolved (mg/L)	52.8	12.1	56.2	52.9	
	Manganese (Mn)-Dissolved (mg/L)	0.859	0.906	0.897	0.914	
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0020	<0.0010	<0.0020	<0.0020	
	Nickel (Ni)-Dissolved (mg/L)	0.0144	0.0041	0.0140	0.0152	
	Potassium (K)-Dissolved (mg/L)	4.1	<2.0	3.7	4.8	
	Selenium (Se)-Dissolved (mg/L)	<0.0020	<0.0010	<0.0020	<0.0020	
	Silver (Ag)-Dissolved (mg/L)	<0.000040	<0.000020	<0.000040	<0.000040	
	Sodium (Na)-Dissolved (mg/L)	9.3	5.7	9.3	8.5	
	Thallium (Tl)-Dissolved (mg/L)	<0.00040	<0.00020	<0.00040	<0.00040	
	Tin (Sn)-Dissolved (mg/L)	<0.0010	<0.00050	<0.0010	<0.0010	
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	
	Uranium (U)-Dissolved (mg/L)	0.00212	0.00070	0.00179	0.00200	
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030	
	Zinc (Zn)-Dissolved (mg/L)	0.295	0.128	1.07	0.783	

Reference Information

Qualifiers for Sample Submission Listed:

Qualifier	Description
SFPL	Sample was Filtered and Preserved at the laboratory - sample #14 - Dissolved Metals
ISCR:ST	Improper Sample Container Received: Subsamples Taken - sample #14

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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ALK-COL-VA Water Alkalinity by Colourimetric (Automated) APHA 310.2

This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.

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.

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.

HARDNESS-CALC-VA Water Hardness APHA 2340B

Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.

HG-DIS-CCME-CVAFS-VA Water Diss. Mercury in Water by CVAFS (CCME) EPA 3005A/245.7

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 filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).

MET-DIS-CCME-ICP-VA Water Diss. Metals in Water by ICPOES (CCME) 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 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 - optical emission spectrophotometry (EPA Method 6010B).

MET-DIS-CCME-MS-VA Water Diss. Metals in Water by ICPMS (CCME) 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).

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

SO4-TUR-VA Water Sulphate(SO4) by Turbidity APHA 4500-SO4 "Sulphate"

This analysis is carried out using procedures adapted from APHA Method 4500-SO4 "Sulphate". Sulphate is determined using the turbidimetric method.

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ZN-DIS-CCME-ICP-VA	Water	Diss. Zinc in Water by ICPOES (CCME)	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 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 - optical emission spectrophotometry (EPA Method 6010B).

**** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:**

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA		

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

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.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Environmental Division



www.alsenviro.com

REPORT TO:		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: <u>Garth Lee Limited</u>		STANDARD ☒ EXCEL ☒ OTHER ☐ CUSTOM ☐ FAX ☐		☒ REGULAR SERVICE (DEFAULT)	
CONTACT: <u>Jennifer Funston</u>		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		☐ RUSH SERVICE (2-3 DAYS)	
ADDRESS: <u>2251 and River</u>		EMAIL 1: <u>funston@garthleeltd.com</u>		☐ PRIORITY SERVICE (1 DAY or ASAP)	
ADDRESS: <u>Whitby, Yuba Y1A 5W1</u>		EMAIL 2:		☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
PHONE: <u>907.633.4774</u> FAX: <u>907.633.4321</u>		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST	
INVOICE TO: <u>SAME AS REPORT ?</u> (YES) NO		CLIENT / PROJECT INFORMATION: <u>GL/Face Mine</u>			
COMPANY: <u>X</u>		JOB #: <u>60601</u>			
CONTACT:		PO / AFE:			
ADDRESS:		Legal Site Description:			
PHONE:		QUOTE #:			
FAX:		SAMPLER (Initials):			
Lab Work Order # (lab use only) <u>LS13925</u>		DATE		TIME	
SAMPLE IDENTIFICATION (This description will appear on the report)		DATE		TIME	
S1A		May 28, 2007		GWS	
S1B		May 28, 2007		X	
S2A		May 28, 2007		X	
S2B		May 28, 2007		X	
S3		May 29, 2007		X	
SRK04-3A		May 31, 2007		X	
SRK04-3B		May 31, 2007		X	
SRK05-D6		May 30, 2007		X	
SRK05-07		May 30, 2007		X	
SRK05-08		May 30, 2007		X	
GUIDELINES / REGULATIONS		SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS			
CE ME Argentic Life Metals 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 reverse page of the white report copy. RELINQUISHED BY: <u>An Funston</u> DATE & TIME: <u>May 31, 2007 17:45</u> RECEIVED BY: <u>AS</u> DATE & TIME: <u>SWES 15:08</u> RELINQUISHED BY: DATE & TIME: RECEIVED BY: DATE & TIME: TEMPERATURE <u>13°C</u> SAMPLE CONDITION (lab use only) <u>ice pack</u>					

General Chemistry
pH, cond, hardness
Total alkalinity,
sulphate
Dissolved Metals

HAZARDOUS ?
HIGHLY CONTAMINATED ?
NUMBER OF CONTAINERS

Environmental Division



www.alsenviro.com

CANADA TOLL FREE 1-800-668-9878

REPORT TO:		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: <u>Gartner Lee Limited</u>		STANDARD ☒ OTHER ☐		☒ REGULAR SERVICE (DEFAULT)	
CONTACT: <u>Jennifer Fuston</u>		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		RUSH SERVICE (2-3 DAYS)	
ADDRESS: <u>2851 2nd Avenue</u>		EMAIL 1: <u>jfuston@gartnerlee.com</u>		PRIORITY SERVICE (1 DAY or ASAP)	
ADDRESS: <u>Whitehorse, Yukon Y1A 5W1</u>		EMAIL 2:		EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
PHONE: <u>867.633.6474</u> FAX: <u>867.633.6321</u>		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST	
INVOICE TO: SAME AS REPORT? ☒ YES / NO		CLIENT / PROJECT INFORMATION: <u>GL / Tara Muir</u>			
COMPANY:		JOB #:			
CONTACT:		PO / AFE:			
ADDRESS:		Legal Site Description:			
PHONE:		QUOTE #:			
Lab Work Order # (lab use only)		SAMPLER (Initials):			
Lab Work Order # <u>LS13925</u>					
Sample #	SAMPLE IDENTIFICATION (This description will appear on the report)	DATE	TIME	SAMPLE TYPE	
	SRK05-09	May 30, 2007		GLW	X
	SRK05-ETA-BR1	May 31, 2007			X
	SRK05-ETA-BR2	June 1, 2007			X
	SRK05-SP-1A	May 29, 2007			X
	SRK05-SP-1B	May 29, 2007			X
	SRK05-SP-1B-S	May 29, 2007			X
	SRK05-SP-2	May 29, 2007			X
	SRK05-SP-3A	May 28, 2007			X
	SRK05-SP-3B	May 28, 2007			X
GUIDELINES / REGULATIONS					
CCME Regulatory Life Metals					
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 reverse page of the white report copy.					
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	TEMPERATURE	SAMPLE CONDITION (lab use only)
<u>Don Gordon</u>	<u>June 3, 2007</u>	<u>[Signature]</u>	<u>June 15, 08</u>	<u>13°C</u>	SAMPLES RECEIVED IN GOOD CONDITION? YES NO
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:		

REFER TO BACK PAGE FOR REGIONAL LOCATIONS AND SAMPLING INFORMATION

WHITE - REPORT COPY, PINK - FILE COPY, YELLOW - CLIENT COPY

GEN14.00

Project 60601
Report To JEN FUNSTON, GARTNER LEE LTD.
ALS File No. L513925
Date Received 05-Jun-07
Date 03-Dec-07

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Anions and Nutrients											
L513925-5	Water	WG610849-3	Sulfate (SO4)	4560	4510	mg/L	1.1	20	-	-	-
Dissolved Metals											
L513925-6	Water	WG608711-9	Aluminum (Al)-Dissolved	0.48	0.47	mg/L	-	-	0.00	1	J
L513925-6	Water	WG608711-9	Antimony (Sb)-Dissolved	<0.025	<0.025	mg/L	N/A	20	-	-	RPD-NA
L513925-6	Water	WG608711-9	Arsenic (As)-Dissolved	<0.025	<0.025	mg/L	N/A	20	-	-	RPD-NA
L513925-6	Water	WG608711-9	Barium (Ba)-Dissolved	<0.040	<0.040	mg/L	N/A	20	-	-	RPD-NA
L513925-6	Water	WG608711-9	Beryllium (Be)-Dissolved	<0.050	<0.050	mg/L	N/A	20	-	-	RPD-NA
L513925-6	Water	WG608711-9	Boron (B)-Dissolved	<0.20	<0.20	mg/L	N/A	20	-	-	RPD-NA
L513925-6	Water	WG608711-9	Cadmium (Cd)-Dissolved	0.0233	0.0220	mg/L	5.9	20	-	-	-
L513925-6	Water	WG608711-9	Calcium (Ca)-Dissolved	422	421	mg/L	0.20	20	-	-	-
L513925-6	Water	WG608711-9	Chromium (Cr)-Dissolved	<0.050	<0.050	mg/L	N/A	20	-	-	RPD-NA
L513925-6	Water	WG608711-9	Cobalt (Co)-Dissolved	0.431	0.417	mg/L	3.3	20	-	-	-
L513925-6	Water	WG608711-9	Copper (Cu)-Dissolved	<0.050	<0.050	mg/L	N/A	20	-	-	RPD-NA
L513925-6	Water	WG608711-9	Iron (Fe)-Dissolved	419	425	mg/L	1.4	20	-	-	-
L513925-6	Water	WG608711-9	Lead (Pb)-Dissolved	<0.025	<0.025	mg/L	N/A	20	-	-	RPD-NA
L513925-6	Water	WG608711-9	Lithium (Li)-Dissolved	<0.25	<0.25	mg/L	N/A	20	-	-	RPD-NA
L513925-6	Water	WG608711-9	Magnesium (Mg)-Dissolved	785	789	mg/L	0.50	20	-	-	-
L513925-6	Water	WG608711-9	Manganese (Mn)-Dissolved	68.1	66.0	mg/L	3.1	20	-	-	-
L513925-6	Water	WG608711-9	Mercury (Hg)-Dissolved	<0.000020	<0.000020	mg/L	N/A	20	-	-	RPD-NA
L513925-6	Water	WG608711-9	Molybdenum (Mo)-Dissolved	<0.050	<0.050	mg/L	N/A	20	-	-	RPD-NA
L513925-6	Water	WG608711-9	Nickel (Ni)-Dissolved	0.716	0.702	mg/L	2.0	20	-	-	-
L513925-6	Water	WG608711-9	Potassium (K)-Dissolved	9.9	9.9	mg/L	-	-	0.0	16	J
L513925-6	Water	WG608711-9	Selenium (Se)-Dissolved	<0.050	<0.050	mg/L	N/A	20	-	-	RPD-NA
L513925-6	Water	WG608711-9	Silver (Ag)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L513925-6	Water	WG608711-9	Sodium (Na)-Dissolved	60.5	61.6	mg/L	1.8	20	-	-	-
L513925-6	Water	WG608711-9	Thallium (Tl)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L513925-6	Water	WG608711-9	Tin (Sn)-Dissolved	<0.025	<0.025	mg/L	N/A	20	-	-	RPD-NA
L513925-6	Water	WG608711-9	Titanium (Ti)-Dissolved	<0.020	<0.020	mg/L	N/A	20	-	-	RPD-NA
L513925-6	Water	WG608711-9	Uranium (U)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L513925-6	Water	WG608711-9	Vanadium (V)-Dissolved	<0.060	<0.060	mg/L	N/A	20	-	-	RPD-NA

Physical Tests

L513925-8	Water	WG607491-5	Conductivity	1050	1050	uS/cm	0.095	20	-	-	-
L513925-8	Water	WG607491-5	pH	8.08	8.10	pH	0.31	20	-	-	-
Anions and Nutrients											
L513925-8	Water	WG610235-6	Alkalinity, Total (as CaCO3)	224	227	mg/L	1.6	20	-	-	-
L513925-13	Water	WG612576-2	Sulfate (SO4)	1280	1280	mg/L	0.016	20	-	-	-
L513925-18	Water	WG610235-7	Alkalinity, Total (as CaCO3)	304	299	mg/L	1.5	20	-	-	-



Environmental Division

ANALYTICAL REPORT

GARTNER LEE LTD.

ATTN: JEN FUNSTON

2251 2ND AVENUE

WHITEHORSE YT Y1A 5W1

Reported On: 30-NOV-07 09:52 AM

Revision: 12

Lab Work Order #: **L513926**

Date Received: **05-JUN-07**

Project P.O. #: FARO MINE
Job Reference: 60601
Legal Site Desc:
CofC Numbers: A006768, A006769

Other Information:

Comments: ADDITIONAL 20-NOV-07 16:51
ADDITIONAL 30-JUN-07 00:06
The detection limits for some dissolved metals were increased for the samples reported due to interferences encountered during analysis.

This report version includes data for the later added bromide analysis.

Please note, the detection limits for bromide was increased for some samples due to sample matrix interferences. This revision of the report contains lowered Zinc detection limits for some of the samples.


Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

NATASHA MARKOVIC-MIROVIC

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID				
		Description				
		Sampled Date				
		Sampled Time				
		Client ID				
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	1010	509	476	489	642
	Conductivity (uS/cm)	1450	890	836	834	1280
	pH (pH)	7.80	7.63	7.77	7.76	6.58
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	184	138	157	155	23.4
	Bromide (Br) (mg/L)	<0.50	<0.50	<0.50	<0.50	<0.50
	Sulfate (SO4) (mg/L)	965	433	366	374	874
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.093	0.068	<0.010	<0.025	<0.025
	Antimony (Sb)-Dissolved (mg/L)	<0.0025	<0.0050	<0.0010	<0.0025	<0.0025
	Arsenic (As)-Dissolved (mg/L)	<0.0025	<0.0050	<0.0010	<0.0025	0.0083
	Barium (Ba)-Dissolved (mg/L)	0.023	0.097	0.135	0.148	0.022
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.010	<0.0020	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	<0.000085	<0.00017	<0.000034	0.000125	<0.000085
	Calcium (Ca)-Dissolved (mg/L)	309	156	149	153	170
	Chromium (Cr)-Dissolved (mg/L)	<0.0050	<0.010	<0.0020	<0.0050	<0.0050
	Cobalt (Co)-Dissolved (mg/L)	<0.0015	0.0147	0.00532	0.0050	0.0114
	Copper (Cu)-Dissolved (mg/L)	<0.0050	<0.010	<0.0020	<0.0050	<0.0050
	Iron (Fe)-Dissolved (mg/L)	6.44	7.25	1.29	0.138	148
	Lead (Pb)-Dissolved (mg/L)	<0.0025	<0.0050	<0.0010	<0.0025	<0.0025
	Lithium (Li)-Dissolved (mg/L)	<0.025	<0.050	<0.010	<0.025	<0.025
	Magnesium (Mg)-Dissolved (mg/L)	58.1	28.8	25.1	25.9	53.0
	Manganese (Mn)-Dissolved (mg/L)	1.16	13.2	11.5	10.5	20.9
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0050	<0.010	<0.0020	<0.0050	<0.0050
	Nickel (Ni)-Dissolved (mg/L)	<0.0050	0.024	0.0027	<0.0050	<0.0050
	Potassium (K)-Dissolved (mg/L)	2.7	2.1	<2.0	<2.0	4.5
	Selenium (Se)-Dissolved (mg/L)	<0.0050	<0.010	<0.0020	<0.0050	<0.0050
	Silver (Ag)-Dissolved (mg/L)	<0.00010	<0.00020	<0.000040	<0.00010	<0.00010
	Sodium (Na)-Dissolved (mg/L)	31.1	11.2	10.9	11.1	33.7
	Thallium (Tl)-Dissolved (mg/L)	<0.0010	<0.0020	<0.00040	<0.0010	<0.0010
	Tin (Sn)-Dissolved (mg/L)	<0.0025	<0.0050	<0.0010	<0.0025	<0.0025
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.0013	0.0041	0.00531	0.0052	0.0015
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	0.0070	0.0054	<0.0050	0.0056	<0.005

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L513926-6	L513926-7	L513926-8	L513926-9	L513926-10
Grouping Analyte						
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	1930	1720	2930	2750	1230
	Conductivity (uS/cm)	2900	2880	4620	4220	1780
	pH (pH)	6.19	6.22	3.76	3.78	7.36
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	19.8	19.8	7.6	<2.0	177
	Bromide (Br) (mg/L)	<0.50	<0.50	<50	<50	
	Sulfate (SO4) (mg/L)	2770	2820	6600	6100	1460
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.050	<0.050	<0.25	<0.25	<0.050
	Antimony (Sb)-Dissolved (mg/L)	<0.0050	<0.0050	<0.025	<0.025	<0.0050
	Arsenic (As)-Dissolved (mg/L)	<0.0050	<0.0050	<0.025	<0.025	<0.0050
	Barium (Ba)-Dissolved (mg/L)	<0.020	<0.020	<0.040	<0.040	0.031
	Beryllium (Be)-Dissolved (mg/L)	<0.010	<0.010	<0.050	<0.050	<0.010
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.20	<0.20	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	<0.00017	<0.00017	<0.00085	<0.00085	0.00115
	Calcium (Ca)-Dissolved (mg/L)	313	280	332	323	340
	Chromium (Cr)-Dissolved (mg/L)	<0.010	<0.010	<0.050	<0.050	<0.010
	Cobalt (Co)-Dissolved (mg/L)	<0.0030	<0.0030	<0.015	<0.015	0.0666
	Copper (Cu)-Dissolved (mg/L)	<0.010	<0.010	<0.050	<0.050	<0.010
	Iron (Fe)-Dissolved (mg/L)	97.9	87.6	1820	1330	1.38
	Lead (Pb)-Dissolved (mg/L)	<0.0050	<0.0050	<0.025	0.037	<0.0050
	Lithium (Li)-Dissolved (mg/L)	<0.050	<0.050	<0.25	<0.25	<0.050
	Magnesium (Mg)-Dissolved (mg/L)	278	247	511	471	92.7
	Manganese (Mn)-Dissolved (mg/L)	2.75	2.72	38.3	31.0	38.5
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.010	<0.010	<0.050	<0.050	<0.010
	Nickel (Ni)-Dissolved (mg/L)	<0.010	<0.010	<0.050	<0.050	0.093
	Potassium (K)-Dissolved (mg/L)	41.0	36.0	59.4	58.5	2.8
	Selenium (Se)-Dissolved (mg/L)	<0.010	<0.010	<0.050	<0.050	<0.010
	Silver (Ag)-Dissolved (mg/L)	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020
	Sodium (Na)-Dissolved (mg/L)	203	180	252	240	36.8
	Thallium (Tl)-Dissolved (mg/L)	<0.0020	<0.0020	<0.010	<0.010	<0.0020
	Tin (Sn)-Dissolved (mg/L)	<0.0050	<0.0050	<0.025	<0.025	<0.0050
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.020	<0.020	<0.010
	Uranium (U)-Dissolved (mg/L)	<0.0020	<0.0020	<0.010	<0.010	0.0118
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.060	<0.060	<0.030
	Zinc (Zn)-Dissolved (mg/L)	<0.0050	<0.0050	<0.050	<0.050	0.837

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L513926-11	L513926-12	L513926-13	L513926-14	L513926-15
		Description					
		Sampled Date	30-MAY-07	30-MAY-07	30-MAY-07	30-MAY-07	30-MAY-07
		Sampled Time					
		Client ID	P03-06-02	P03-06-03	P03-06-04	P03-06-04-5	P03-06-05
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		1360	1410	867	883	1450
	Conductivity (uS/cm)		2130	2160	1390	1550	2720
	pH (pH)		6.74	6.75	7.45	7.38	6.19
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)		75.9	84.7	176	172	14.6
	Bromide (Br) (mg/L)						
	Sulfate (SO4) (mg/L)		2120	1900	904	890	2740
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		<0.10	<0.10	0.064	<0.025	0.17
	Antimony (Sb)-Dissolved (mg/L)		<0.010	<0.010	<0.0025	<0.0025	<0.010
	Arsenic (As)-Dissolved (mg/L)		<0.010	<0.010	<0.0025	<0.0025	<0.010
	Barium (Ba)-Dissolved (mg/L)		0.020	<0.020	0.041	0.046	<0.020
	Beryllium (Be)-Dissolved (mg/L)		<0.020	<0.020	<0.0050	<0.0050	<0.020
	Boron (B)-Dissolved (mg/L)		<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)		0.00828	0.0215	0.000407	0.000402	<0.00034
	Calcium (Ca)-Dissolved (mg/L)		368	381	244	248	168
	Chromium (Cr)-Dissolved (mg/L)		<0.020	<0.020	<0.0050	<0.0050	<0.020
	Cobalt (Co)-Dissolved (mg/L)		0.342	0.475	0.0596	0.0587	0.0572
	Copper (Cu)-Dissolved (mg/L)		<0.020	<0.020	<0.0050	<0.0050	<0.020
	Iron (Fe)-Dissolved (mg/L)		98.2	133	21.0	21.3	303
	Lead (Pb)-Dissolved (mg/L)		<0.010	<0.010	<0.0025	<0.0025	<0.010
	Lithium (Li)-Dissolved (mg/L)		<0.10	<0.10	<0.025	<0.025	<0.10
	Magnesium (Mg)-Dissolved (mg/L)		106	112	62.7	64.0	249
	Manganese (Mn)-Dissolved (mg/L)		58.0	56.8	19.9	19.6	54.4
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)		<0.020	<0.020	<0.0050	<0.0050	<0.020
	Nickel (Ni)-Dissolved (mg/L)		0.395	0.659	0.0659	0.0645	0.124
	Potassium (K)-Dissolved (mg/L)		3.5	3.9	2.3	2.5	4.0
	Selenium (Se)-Dissolved (mg/L)		<0.020	<0.020	<0.0050	<0.0050	<0.020
	Silver (Ag)-Dissolved (mg/L)		<0.00040	<0.00040	<0.00010	<0.00010	<0.00040
	Sodium (Na)-Dissolved (mg/L)		31.8	25.7	16.7	18.4	34.8
	Thallium (Tl)-Dissolved (mg/L)		<0.0040	<0.0040	<0.0010	<0.0010	<0.0040
	Tin (Sn)-Dissolved (mg/L)		<0.010	<0.010	<0.0025	<0.0025	<0.010
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)		0.0040	0.0054	0.0361	0.0364	0.0072
	Vanadium (V)-Dissolved (mg/L)		<0.030	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)		1.99	2.24	3.22	3.26	57.5

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID				
		Description				
		Sampled Date				
		Sampled Time				
		Client ID				
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	7460	755			
	Conductivity (uS/cm)		1160			
	pH (pH)		7.75			
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)		192			
	Bromide (Br) (mg/L)					
	Sulfate (SO4) (mg/L)		606			
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<1.0	<0.025			
	Antimony (Sb)-Dissolved (mg/L)	<0.10	<0.0025			
	Arsenic (As)-Dissolved (mg/L)	<0.10	<0.0025			
	Barium (Ba)-Dissolved (mg/L)	<0.040	<0.020			
	Beryllium (Be)-Dissolved (mg/L)	<0.20	<0.0050			
	Boron (B)-Dissolved (mg/L)	<0.20	<0.10			
	Cadmium (Cd)-Dissolved (mg/L)	<0.0034	<0.000085			
	Calcium (Ca)-Dissolved (mg/L)	399	207			
	Chromium (Cr)-Dissolved (mg/L)	<0.20	<0.0050			
	Cobalt (Co)-Dissolved (mg/L)	0.792	<0.0015			
	Copper (Cu)-Dissolved (mg/L)	<0.20	<0.0050			
	Iron (Fe)-Dissolved (mg/L)	329	21.1			
	Lead (Pb)-Dissolved (mg/L)	0.13	<0.0025			
	Lithium (Li)-Dissolved (mg/L)	<1.0	<0.025			
	Magnesium (Mg)-Dissolved (mg/L)	1570	57.7			
	Manganese (Mn)-Dissolved (mg/L)	331	5.96			
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020			
	Molybdenum (Mo)-Dissolved (mg/L)	<0.20	0.0058			
	Nickel (Ni)-Dissolved (mg/L)	1.71	<0.0050			
	Potassium (K)-Dissolved (mg/L)	21.4	3.4			
	Selenium (Se)-Dissolved (mg/L)	<0.20	<0.0050			
	Silver (Ag)-Dissolved (mg/L)	<0.0040	<0.00010			
	Sodium (Na)-Dissolved (mg/L)	118	26.5			
	Thallium (Tl)-Dissolved (mg/L)	<0.040	<0.0010			
	Tin (Sn)-Dissolved (mg/L)	<0.10	<0.0025			
	Titanium (Ti)-Dissolved (mg/L)	<0.020	<0.010			
	Uranium (U)-Dissolved (mg/L)	<0.040	0.0099			
	Vanadium (V)-Dissolved (mg/L)	0.071	<0.030			
	Zinc (Zn)-Dissolved (mg/L)	551	0.114			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ANIONS-BR-IC-VA	Water	Bromide by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
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.			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.			
HG-DIS-CCME-CVAFS-VA	Water	Diss. Mercury in Water by CVAFS (CCME)	EPA 3005A/245.7
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 filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).			
MET-DIS-CCME-ICP-VA	Water	Diss. Metals in Water by ICPOES (CCME)	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 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 - optical emission spectrophotometry (EPA Method 6010B).			
MET-DIS-CCME-MS-VA	Water	Diss. Metals in Water by ICPMS (CCME)	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).			
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			
SO4-TUR-VA	Water	Sulphate(SO4) by Turbidity	APHA 4500-SO4 "Sulphate"
This analysis is carried out using procedures adapted from APHA Method 4500-SO4 "Sulphate". Sulphate is determined using the turbidimetric method.			
ZN-DIS-CCME-ICP-VA	Water	Diss. Zinc in Water by ICPOES (CCME)	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 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 - optical emission spectrophotometry (EPA Method 6010B).			

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
<i>The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:</i>			
Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA		

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

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.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Environmental Division



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REPORT TO:		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: <u>Garthur Inc Limited</u>		STANDARD ☒ EXCEL ☒ OTHER ☐ CUSTOM ☐ FAX ☐		☒ REGULAR SERVICE (DEFAULT)	
CONTACT: <u>Jennifer Furston</u>		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		☐ RUSH SERVICE (2-3 DAYS)	
ADDRESS: <u>8851 2nd Avenue</u>		EMAIL 1: <u>furston@garthurinc.com</u>		☐ PRIORITY SERVICE (1 DAY or ASAP)	
<u>Whitehorse, Yukon, Y1A 5W1</u>		EMAIL 2:		☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
PHONE: <u>867.633.6474</u> FAX: <u>867.633.6321</u>		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST	
INVOICE TO: SAME AS REPORT ? ☒ YES ☐ NO		CLIENT / PROJECT INFORMATION: <u>Gull Faro Mine</u>			
COMPANY:		JOB #: <u>100601</u>			
CONTACT:		PO / AFE:			
ADDRESS:		Legal Site Description:			
PHONE:		QUOTE #:			
FAX:					
Lab Work Order # <u>L513926</u>		SAMPLER (Initials):			
Sample #	SAMPLE IDENTIFICATION (This description will appear on the report)	DATE	TIME	SAMPLE TYPE	
	P03-05-01	May 31, 2007		GW	X
	P03-05-02				X
	P03-05-03				X
	P03-05-04				X
	P03-05-05				X
	P03-05-06				X
	P03-05-06-5				X
	P03-05-07				X
	P03-05-08				X
GUIDELINES / REGULATIONS CME Aquatic Life Metals					
SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS					
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.					
RELINQUISHED BY: <u>Jan Hunter</u>		DATE & TIME: <u>June 3 2007 17:00</u>		RECEIVED BY: <u>AK</u>	
RELINQUISHED BY:		DATE & TIME:		RECEIVED BY:	
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the reverse page of the white report copy.		DATE & TIME: <u>June 5 14:34</u>		TEMPERATURE: <u>7°C</u>	
				SAMPLE CONDITION (lab use only)	
				SAMPLES RECEIVED IN GOOD CONDITION ? ☒ YES ☐ NO	
				(if no provide details) <u>ice Pak</u>	

Environmental Division



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REPORT TO:		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: <u>Environ Lee Limited</u>		STANDARD ☒ EXCEL ☒ OTHER ☐ CUSTOM ☐ FAX ☐		☒ REGULAR SERVICE (DEFAULT)	
CONTACT: <u>Jennifer Furstner</u>		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		☐ RUSH SERVICE (2-3 DAYS)	
ADDRESS: <u>2851 2nd Avenue</u>		EMAIL 1: <u>jfurstner@environlee.com</u>		☐ PRIORITY SERVICE (1 DAY or ASAP)	
PHONE: <u>607.633.6321</u>		EMAIL 2:		☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
FAX: <u>607.633.6321</u>		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST	
INVOICE TO: SAME AS REPORT ? ☒ YES / NO		CLIENT / PROJECT INFORMATION: <u>GLL / Faro Mine</u>			
CONTACT:		JOB #: <u>60601</u>			
ADDRESS:		PO / AFE:			
PHONE:		Legal Site Description:			
FAX:		QUOTE #:			
Lab Work Order # <u>LS13926</u>		SAMPLER (Initials):			
(lab use only)					
Sample #	SAMPLE IDENTIFICATION (This description will appear on the report)	DATE	TIME	SAMPLE TYPE	
	P03-06-01	May 30, 2007		GR	X
	P03-06-02				X
	P03-06-03				X
	P03-06-04				X
	P03-06-04-5				X
	P03-06-05				X
	P03-06-06				X
	P03-07-05	June 1, 2007			X
General Chemistry pH, cond, hardness total ~~alkalinity~~ alkalinity sulphate Dissolved Metals					
HAZARDOUS ?					
HIGHLY CONTAMINATED ?					
NUMBER OF CONTAINERS					
GUIDELINES / REGULATIONS					
SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS					
CCME Asbestos LEC Metals 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 reverse page of the white report copy.					
RELINQUISHED BY: <u>John Furstner</u>	DATE & TIME: <u>July 3, 2007</u>	RECEIVED BY: <u>AFN</u>	DATE & TIME: <u>July 3, 2007</u>	TEMPERATURE: <u>7°C</u>	SAMPLE CONDITION (lab use only)
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	TEMPERATURE:	SAMPLES RECEIVED IN GOOD CONDITION ? ☒ YES / NO
REFER TO BACK PAGE FOR REGIONAL LOCATIONS AND SAMPLING INFORMATION					

Project 60601
Report To JEN FUNSTON, GARTNER LEE LTD.
ALS File No. L513926
Date Received 05-Jun-07
Date 30-Nov-07

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Anions and Nutrients											
L513926-4	Water	WG610235-8	Alkalinity, Total (as CaCO3)	155	158	mg/L	1.8	20	-	-	-
L513926-6	Water	WG612576-3	Sulfate (SO4)	2770	2860	mg/L	3.4	20	-	-	-
Dissolved Metals											
L513926-11	Water	WG608711-10	Aluminum (Al)-Dissolved	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
L513926-11	Water	WG608711-10	Antimony (Sb)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L513926-11	Water	WG608711-10	Arsenic (As)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L513926-11	Water	WG608711-10	Barium (Ba)-Dissolved	0.020	0.020	mg/L	-	-	0.000	0.08	J
L513926-11	Water	WG608711-10	Beryllium (Be)-Dissolved	<0.020	<0.020	mg/L	N/A	20	-	-	RPD-NA
L513926-11	Water	WG608711-10	Boron (B)-Dissolved	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
L513926-11	Water	WG608711-10	Cadmium (Cd)-Dissolved	0.00828	0.00921	mg/L	11	20	-	-	-
L513926-11	Water	WG608711-10	Calcium (Ca)-Dissolved	368	387	mg/L	5.0	20	-	-	-
L513926-11	Water	WG608711-10	Chromium (Cr)-Dissolved	<0.020	<0.020	mg/L	N/A	20	-	-	RPD-NA
L513926-11	Water	WG608711-10	Cobalt (Co)-Dissolved	0.342	0.352	mg/L	2.8	20	-	-	-
L513926-11	Water	WG608711-10	Copper (Cu)-Dissolved	<0.020	<0.020	mg/L	N/A	20	-	-	RPD-NA
L513926-11	Water	WG608711-10	Iron (Fe)-Dissolved	98.2	99.3	mg/L	1.2	20	-	-	-
L513926-11	Water	WG608711-10	Lead (Pb)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L513926-11	Water	WG608711-10	Lithium (Li)-Dissolved	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
L513926-11	Water	WG608711-10	Magnesium (Mg)-Dissolved	106	112	mg/L	4.9	20	-	-	-
L513926-11	Water	WG608711-10	Manganese (Mn)-Dissolved	58.0	58.8	mg/L	1.4	20	-	-	-
L513926-11	Water	WG608711-10	Mercury (Hg)-Dissolved	<0.000020	<0.000020	mg/L	N/A	20	-	-	RPD-NA
L513926-11	Water	WG608711-10	Molybdenum (Mo)-Dissolved	<0.020	<0.020	mg/L	N/A	20	-	-	RPD-NA
L513926-11	Water	WG608711-10	Nickel (Ni)-Dissolved	0.395	0.399	mg/L	0.93	20	-	-	-
L513926-11	Water	WG608711-10	Potassium (K)-Dissolved	3.5	3.5	mg/L	-	-	0.1	8	J
L513926-11	Water	WG608711-10	Selenium (Se)-Dissolved	<0.020	<0.020	mg/L	N/A	20	-	-	RPD-NA
L513926-11	Water	WG608711-10	Silver (Ag)-Dissolved	<0.00040	<0.00040	mg/L	N/A	20	-	-	RPD-NA
L513926-11	Water	WG608711-10	Sodium (Na)-Dissolved	31.8	32.3	mg/L	1.6	20	-	-	-
L513926-11	Water	WG608711-10	Thallium (Tl)-Dissolved	<0.0040	<0.0040	mg/L	N/A	20	-	-	RPD-NA
L513926-11	Water	WG608711-10	Tin (Sn)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L513926-11	Water	WG608711-10	Titanium (Ti)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L513926-11	Water	WG608711-10	Uranium (U)-Dissolved	0.0040	0.0041	mg/L	-	-	0.0001	0.016	J
L513926-11	Water	WG608711-10	Vanadium (V)-Dissolved	<0.030	<0.030	mg/L	N/A	20	-	-	RPD-NA
Anions and Nutrients											
L513926-12	Water	WG610235-9	Alkalinity, Total (as CaCO3)	84.7	85.1	mg/L	0.49	20	-	-	-



Environmental Division

ANALYTICAL REPORT

GARTNER LEE LTD.

ATTN: JEN FUNSTON

2251 2ND AVENUE

WHITEHORSE YT Y1A 5W1

Reported On: 15-DEC-07 12:24 AM

Revision: 6

Lab Work Order #: **L513944**

Date Received: **05-JUN-07**

Project P.O. #:

Job Reference: 60601 GLL/FARO MINE

Legal Site Desc:

CofC Numbers: A006764, A006765

Other Information:

Comments: This revision of the report replaces and supersedes all previous revisions.
The Sulfate results for sample L513944-7 and -19 have been changed/corrected due to the manual data entry error.

ADDITIONAL 20-NOV-07 16:56
The detection limits for some dissolved metals were increased for the samples reported due to interferences encountered during analysis.



Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

NATASHA MARKOVIC-MIROVIC

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L513944-1	L513944-2	L513944-3	L513944-4	L513944-5
Grouping Analyte						
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	247	212	148	147	289
	Conductivity (uS/cm)	382	327	255	255	544
	pH (pH)	8.19	8.16	7.85	7.91	6.92
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	208	148	98.9	94.9	22.6
	Sulfate (SO4) (mg/L)	24.9	37.8	40.5	40.9	251
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0058	<0.0050	<0.0050	<0.0050	0.010
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	Arsenic (As)-Dissolved (mg/L)	0.00547	0.00143	<0.00050	<0.00050	<0.0010
	Barium (Ba)-Dissolved (mg/L)	0.104	0.111	0.088	0.088	0.034
	Beryllium (Be)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.000019	<0.000017	0.000038	0.000042	0.00286
	Calcium (Ca)-Dissolved (mg/L)	76.1	68.4	47.0	46.6	91.2
	Chromium (Cr)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020
	Cobalt (Co)-Dissolved (mg/L)	<0.00030	0.00322	<0.00030	<0.00030	0.0218
	Copper (Cu)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	0.0034
	Iron (Fe)-Dissolved (mg/L)	4.03	0.201	<0.030	<0.030	<0.030
	Lead (Pb)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	Lithium (Li)-Dissolved (mg/L)	0.0143	<0.0050	<0.0050	<0.0050	0.050
	Magnesium (Mg)-Dissolved (mg/L)	13.9	10.1	7.43	7.47	14.8
	Manganese (Mn)-Dissolved (mg/L)	0.162	0.688	0.00490	0.00403	10.4
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	0.0051	0.0031	<0.0010	<0.0010	<0.0020
	Nickel (Ni)-Dissolved (mg/L)	<0.0010	0.0016	0.0010	0.0012	0.309
	Potassium (K)-Dissolved (mg/L)	2.5	2.6	<2.0	<2.0	2.2
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020
	Silver (Ag)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040
	Sodium (Na)-Dissolved (mg/L)	8.0	3.3	2.8	2.8	4.3
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040
	Tin (Sn)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.00032	0.00289	0.00100	0.00104	<0.00040
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	2.98

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L513944-6	L513944-7	L513944-8	L513944-9	L513944-10
Grouping Analyte						
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	336	271	1060	3170	4100
	Conductivity (uS/cm)	575	888	5440	11500	15700
	pH (pH)	6.98	6.22	3.82	3.25	2.98
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)	12.5	11.4	11.3	<2.0	<2.0
	Sulfate (SO ₄) (mg/L)	262	501	8220	29600	58100
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.010	0.027	2.19	3.1	5.7
	Antimony (Sb)-Dissolved (mg/L)	<0.0010	<0.0025	<0.025	<0.25	<0.50
	Arsenic (As)-Dissolved (mg/L)	<0.0010	0.0087	<0.025	<0.25	<0.50
	Barium (Ba)-Dissolved (mg/L)	0.065	0.081	<0.10	<0.40	<0.80
	Beryllium (Be)-Dissolved (mg/L)	<0.0020	<0.0050	<0.050	<0.50	<1.0
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.50	<2.0	<4.0
	Cadmium (Cd)-Dissolved (mg/L)	0.000790	<0.000085	<0.00085	<0.0085	<0.017
	Calcium (Ca)-Dissolved (mg/L)	108	62.0	127	331	429
	Chromium (Cr)-Dissolved (mg/L)	<0.0020	<0.0050	<0.050	<0.50	<1.0
	Cobalt (Co)-Dissolved (mg/L)	0.00206	0.0405	<0.015	<0.15	<0.30
	Copper (Cu)-Dissolved (mg/L)	<0.0020	<0.0050	<0.050	<0.50	<1.0
	Iron (Fe)-Dissolved (mg/L)	0.112	144	3130	12300	27100
	Lead (Pb)-Dissolved (mg/L)	<0.0010	<0.0025	<0.025	<0.25	<0.50
	Lithium (Li)-Dissolved (mg/L)	0.023	<0.025	<0.25	<2.5	<5.0
	Magnesium (Mg)-Dissolved (mg/L)	16.1	28.2	180	569	735
	Manganese (Mn)-Dissolved (mg/L)	0.689	4.45	23.6	102	197
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	0.000026	<0.000020	0.000043	0.000087
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0020	<0.0050	0.097	<0.50	<1.0
	Nickel (Ni)-Dissolved (mg/L)	0.0345	0.0392	<0.050	<0.50	<1.0
	Potassium (K)-Dissolved (mg/L)	2.3	4.3	40	100	100
	Selenium (Se)-Dissolved (mg/L)	<0.0020	<0.0050	<0.050	<0.50	<1.0
	Silver (Ag)-Dissolved (mg/L)	<0.000040	<0.00010	<0.0010	<0.010	<0.020
	Sodium (Na)-Dissolved (mg/L)	7.4	39.8	426	596	338
	Thallium (Tl)-Dissolved (mg/L)	<0.00040	<0.0010	<0.010	<0.10	<0.20
	Tin (Sn)-Dissolved (mg/L)	<0.0010	<0.0025	<0.025	<0.25	<0.50
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.050	<0.20	<0.40
	Uranium (U)-Dissolved (mg/L)	<0.00040	<0.0010	<0.010	<0.10	<0.20
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	0.23	1.37	3.1
	Zinc (Zn)-Dissolved (mg/L)	0.0419	5.34	287	1500	4040

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L513944-11	L513944-12	L513944-13	L513944-14	L513944-15
		Description					
		Sampled Date	01-JUN-07	01-JUN-07	01-JUN-07	01-JUN-07	01-JUN-07
		Sampled Time					
		Client ID	P03-02-01	P03-02-02	P03-02-03	P03-02-04	P03-02-05
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		196	162	156	196	2010
	Conductivity (uS/cm)		332	266	250	370	4830
	pH (pH)		7.90	7.80	7.83	7.12	4.90
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)		158	102	98.2	48.8	20.7
	Sulfate (SO4) (mg/L)		33.8	39.4	37.5	148	6540
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		0.0115	<0.0050	<0.0050	<0.010	<0.10
	Antimony (Sb)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.0010	<0.010
	Arsenic (As)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.0010	<0.010
	Barium (Ba)-Dissolved (mg/L)		0.082	0.091	0.086	0.034	<0.040
	Beryllium (Be)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	<0.0020	<0.020
	Boron (B)-Dissolved (mg/L)		<0.10	<0.10	<0.10	<0.10	<0.20
	Cadmium (Cd)-Dissolved (mg/L)		<0.000017	0.000028	0.000026	0.000493	<0.00034
	Calcium (Ca)-Dissolved (mg/L)		63.1	50.6	49.1	62.3	335
	Chromium (Cr)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	<0.0020	<0.020
	Cobalt (Co)-Dissolved (mg/L)		0.00036	<0.00030	<0.00030	0.00379	<0.0060
	Copper (Cu)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	0.0020	<0.020
	Iron (Fe)-Dissolved (mg/L)		0.150	0.229	<0.030	0.456	1930
	Lead (Pb)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.0010	<0.010
	Lithium (Li)-Dissolved (mg/L)		<0.0050	<0.0050	<0.0050	0.031	0.17
	Magnesium (Mg)-Dissolved (mg/L)		9.39	8.52	8.09	9.94	285
	Manganese (Mn)-Dissolved (mg/L)		0.311	0.00222	0.00275	8.96	22.8
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)		0.0017	<0.0010	<0.0010	<0.0020	<0.020
	Nickel (Ni)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	0.110	<0.020
	Potassium (K)-Dissolved (mg/L)		2.1	<2.0	<2.0	2.0	49.9
	Selenium (Se)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	<0.0020	<0.020
	Silver (Ag)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000040	<0.00040
	Sodium (Na)-Dissolved (mg/L)		3.5	3.0	2.8	7.1	329
	Thallium (Tl)-Dissolved (mg/L)		<0.00020	<0.00020	<0.00020	<0.00040	<0.0040
	Tin (Sn)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.0010	<0.010
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	<0.020
	Uranium (U)-Dissolved (mg/L)		0.00170	0.00098	0.00125	<0.00040	<0.0040
	Vanadium (V)-Dissolved (mg/L)		<0.030	<0.030	<0.030	<0.030	0.128
	Zinc (Zn)-Dissolved (mg/L)		0.180	0.0072	<0.0050	0.830	0.018

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L513944-16	L513944-17	L513944-18	L513944-19	
		Description					
		Sampled Date	01-JUN-07	01-JUN-07	01-JUN-07	01-JUN-07	
		Sampled Time					
		Client ID	P03-02-05-S	P03-02-07	P03-02-08	P03-02-09	
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO ₃) (mg/L)		1960	2910	2640	2190	
	Conductivity (uS/cm)		6120	9220	13100	14100	
	pH (pH)		4.52	3.42	3.14	3.11	
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)		21.3	<2.0	<2.0	<2.0	
	Sulfate (SO ₄) (mg/L)		6650	13500	24300	31194	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		<0.10	0.30	<0.50	<1.0	
	Antimony (Sb)-Dissolved (mg/L)		<0.010	<0.025	<0.050	<0.10	
	Arsenic (As)-Dissolved (mg/L)		<0.010	<0.025	<0.050	<0.10	
	Barium (Ba)-Dissolved (mg/L)		<0.040	<0.10	<0.40	<0.80	
	Beryllium (Be)-Dissolved (mg/L)		<0.020	<0.050	<0.10	<0.20	
	Boron (B)-Dissolved (mg/L)		<0.20	<0.50	<2.0	<4.0	
	Cadmium (Cd)-Dissolved (mg/L)		<0.00034	<0.00085	<0.0017	<0.0034	
	Calcium (Ca)-Dissolved (mg/L)		329	407	387	383	
	Chromium (Cr)-Dissolved (mg/L)		<0.020	<0.050	<0.10	<0.20	
	Cobalt (Co)-Dissolved (mg/L)		<0.0060	<0.015	<0.030	<0.060	
	Copper (Cu)-Dissolved (mg/L)		<0.020	<0.050	<0.10	<0.20	
	Iron (Fe)-Dissolved (mg/L)		1890	5270	12900	15700	
	Lead (Pb)-Dissolved (mg/L)		<0.010	<0.025	0.441	0.12	
	Lithium (Li)-Dissolved (mg/L)		0.17	0.37	<0.50	<1.0	
	Magnesium (Mg)-Dissolved (mg/L)		277	460	407	300	
	Manganese (Mn)-Dissolved (mg/L)		23.0	45.2	81.8	103	
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	
	Molybdenum (Mo)-Dissolved (mg/L)		<0.020	<0.050	<0.10	<0.20	
	Nickel (Ni)-Dissolved (mg/L)		<0.020	<0.050	<0.10	<0.20	
	Potassium (K)-Dissolved (mg/L)		49.3	80	59	<80	
	Selenium (Se)-Dissolved (mg/L)		<0.020	<0.050	<0.10	<0.20	
	Silver (Ag)-Dissolved (mg/L)		<0.00040	<0.0010	<0.0020	<0.0040	
	Sodium (Na)-Dissolved (mg/L)		325	288	133	<80	
	Thallium (Tl)-Dissolved (mg/L)		<0.0040	<0.010	<0.020	<0.040	
	Tin (Sn)-Dissolved (mg/L)		<0.010	<0.025	<0.050	<0.10	
	Titanium (Ti)-Dissolved (mg/L)		<0.020	<0.050	<0.20	<0.40	
	Uranium (U)-Dissolved (mg/L)		<0.0040	<0.010	<0.020	<0.040	
	Vanadium (V)-Dissolved (mg/L)		0.124	0.35	1.47	1.7	
	Zinc (Zn)-Dissolved (mg/L)		0.011	<0.025	105	848	

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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ALK-COL-VA Water Alkalinity by Colourimetric (Automated) APHA 310.2

This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.

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.

HARDNESS-CALC-VA Water Hardness APHA 2340B

Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.

HG-DIS-CCME-CVAFS-VA Water Diss. Mercury in Water by CVAFS (CCME) EPA 3005A/245.7

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 filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).

MET-DIS-CCME-ICP-VA Water Diss. Metals in Water by ICPOES (CCME) 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 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 - optical emission spectrophotometry (EPA Method 6010B).

MET-DIS-CCME-MS-VA Water Diss. Metals in Water by ICPMS (CCME) 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).

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

SO4-TUR-VA Water Sulphate(SO4) by Turbidity APHA 4500-SO4 "Sulphate"

This analysis is carried out using procedures adapted from APHA Method 4500-SO4 "Sulphate". Sulphate is determined using the turbidimetric method.

ZN-DIS-CCME-ICP-VA Water Diss. Zinc in Water by ICPOES (CCME) 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 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 - optical emission spectrophotometry (EPA Method 6010B).

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
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VA

ALS LABORATORY GROUP -
VANCOUVER, BC, CANADA

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in enviromental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

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.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.



REPORT TO:

COMPANY: Gartner Lee Limited

CONTACT: Jennifer Funston

ADDRESS: 2251 2nd Avenue

Whitehorse Yukon Y1A 5W1

PHONE: 867.633.6414 FAX: 867.633.6321

INVOICE TO: SAME AS REPORT ? (YES) NO

COMPANY:

CONTACT:

ADDRESS:

PHONE:

FAX:

Lab Work Order #

(lab use only)

REPORT FORMAT / DISTRIBUTION

STANDARD ☒ OTHER ☐

PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐

EMAIL 1: jfunston@gartnerlee.com

EMAIL 2:

INDICATE BOTTLES: FILTERED / PRESERVED (F/P) → → →

CLIENT / PROJECT INFORMATION: 60601

JOB #: 60601

PO / AFE:

Legal Site Description:

QUOTE #:

SAMPLER (Initials):

SERVICE REQUESTED

☒ REGULAR SERVICE (DEFAULT)

☐ RUSH SERVICE (2-3 DAYS)

☐ PRIORITY SERVICE (1 DAY or ASAP)

☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS

ANALYSIS REQUEST

SAMPLE IDENTIFICATION
(This description will appear on the report)

DATE

TIME

SAMPLE TYPE

Sample #

P03-01-02

P03-01-03

P03-01-03-5

P03-01-04

P03-01-05

P03-01-06

P03-01-07

P03-01-08

P03-01-09

June 1, 2007

6:00

General Chemistry
pH, cond, hardness,
total alkalinity,
sulphate
Dissolved Metals

HAZARDOUS ?

HIGHLY CONTAMINATED ?

NUMBER OF CONTAINERS

GUIDELINES / REGULATIONS

SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS

CCME Asynetic Life Metals

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 reverse page of the white report copy.

RELINQUISHED BY: gn Funston

DATE & TIME: June 3, 2007

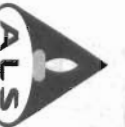
RECEIVED BY: AK

DATE & TIME: June 5

TEMPERATURE 11°C

SAMPLE CONDITION (lab use only)
SAMPLES RECEIVED IN GOOD CONDITION (YES / NO)
YES

Environmental Division



www.alsenviro.com

REPORT TO:		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: <u>Gardner Lee Limited</u>		STANDARD ☒ OTHER ☐		☒ REGULAR SERVICE (DEFAULT)	
CONTACT: <u>Barrie Funston</u>		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		RUSH SERVICE (2-3 DAYS)	
ADDRESS: <u>2851 2nd Avenue</u>		EMAIL 1: <u>funston@gardnerlee.com</u>		PRIORITY SERVICE (1 DAY or ASAP)	
PHONE: <u>867.633.4474</u> FAX: <u>867.633.6321</u>		EMAIL 2:		EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
INVOICE TO: SAME AS REPORT ? ☒ YES ☐ NO		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST	
COMPANY:		CLIENT / PROJECT INFORMATION: <u>City of Fogo Mine</u>			
CONTACT:		JOB #: <u>60601</u>			
ADDRESS:		PO / AFE:			
PHONE:		Legal Site Description:			
FAX:		QUOTE #:			
Lab Work Order # (lab use only)		SAMPLER (Initials):			
Sample #	SAMPLE IDENTIFICATION (This description will appear on the report)	DATE	TIME	SAMPLE TYPE	
	P03-02-01	June 1, 2007		GW	X
	P03-02-02				X
	P03-02-03				X
	P03-02-04				X
	P03-02-05				X
	P03-02-05-5				X
	P03-02-07				X
	P03-02-08				X
	P03-02-09				X
GUIDELINES / REGULATIONS CCME Aquatic Life Metals					SPECIAL INSTRUCTIONS / 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 reverse page of the white report copy.					
RELINQUISHED BY: <u>Barrie Funston</u>	DATE & TIME: <u>June 3 2007</u>	RECEIVED BY: <u>AK</u>	DATE & TIME: <u>June 5 1408</u>	TEMPERATURE <u>11°C</u>	SAMPLE CONDITION (lab use only) SAMPLES RECEIVED IN GOOD CONDITION? YES / NO <u>ice pak</u>
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:		

Project	60601 GLL/FARO MINE
Report To	JEN FUNSTON, GARTNER LEE LTD.
ALS File No.	L513944
Date Received	05-Jun-07
Date	15-Dec-07

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Anions and Nutrients											
L513944-5	Water	WG610235-13	Alkalinity, Total (as CaCO3)	22.6	26.9	mg/L	17	20	-	-	-
Physical Tests											
L513944-6	Water	WG608546-3	Conductivity	575	576	uS/cm	0.17	20	-	-	-
L513944-6	Water	WG608546-3	pH	6.98	7.00	pH	0.23	20	-	-	-
Anions and Nutrients											
L513944-11	Water	WG610235-14	Alkalinity, Total (as CaCO3)	158	155	mg/L	2.2	20	-	-	-
L513944-13	Water	WG608942-10	Sulfate (SO4)	37.5	35.7	mg/L	4.7	20	-	-	-
Dissolved Metals											
L513944-15	Water	WG608711-11	Aluminum (Al)-Dissolved	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
L513944-15	Water	WG608711-11	Antimony (Sb)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L513944-15	Water	WG608711-11	Arsenic (As)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L513944-15	Water	WG608711-11	Beryllium (Be)-Dissolved	<0.020	<0.020	mg/L	N/A	20	-	-	RPD-NA
L513944-15	Water	WG608711-11	Cadmium (Cd)-Dissolved	<0.00034	<0.00020	mg/L	N/A	20	-	-	RPD-NA
L513944-15	Water	WG608711-11	Chromium (Cr)-Dissolved	<0.020	<0.020	mg/L	N/A	20	-	-	RPD-NA
L513944-15	Water	WG608711-11	Cobalt (Co)-Dissolved	<0.0060	<0.0060	mg/L	N/A	20	-	-	RPD-NA
L513944-15	Water	WG608711-11	Copper (Cu)-Dissolved	<0.020	<0.020	mg/L	N/A	20	-	-	RPD-NA
L513944-15	Water	WG608711-11	Lead (Pb)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L513944-15	Water	WG608711-11	Lithium (Li)-Dissolved	0.17	0.18	mg/L	-	-	0.01	0.4	J
L513944-15	Water	WG608711-11	Manganese (Mn)-Dissolved	22.8	23.6	mg/L	3.3	20	-	-	-
L513944-15	Water	WG608711-11	Mercury (Hg)-Dissolved	<0.000020	<0.000020	mg/L	N/A	20	-	-	RPD-NA
L513944-15	Water	WG608711-11	Molybdenum (Mo)-Dissolved	<0.020	<0.020	mg/L	N/A	20	-	-	RPD-NA
L513944-15	Water	WG608711-11	Nickel (Ni)-Dissolved	<0.020	<0.020	mg/L	N/A	20	-	-	RPD-NA
L513944-15	Water	WG608711-11	Selenium (Se)-Dissolved	<0.020	<0.020	mg/L	N/A	20	-	-	RPD-NA
L513944-15	Water	WG608711-11	Silver (Ag)-Dissolved	<0.00040	<0.00040	mg/L	N/A	20	-	-	RPD-NA
L513944-15	Water	WG608711-11	Thallium (Tl)-Dissolved	<0.0040	<0.0040	mg/L	N/A	20	-	-	RPD-NA
L513944-15	Water	WG608711-11	Tin (Sn)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L513944-15	Water	WG608711-11	Uranium (U)-Dissolved	<0.0040	<0.0040	mg/L	N/A	20	-	-	RPD-NA



Environmental Division

ANALYTICAL REPORT

GARTNER LEE LTD.

ATTN: JEN FUNSTON

2251 2ND AVENUE

WHITEHORSE YT Y1A 5W1

Reported On: 03-DEC-07 12:23 PM

Revision: 3

Lab Work Order #: **L514139**

Date Received: **05-JUN-07**

Project P.O. #: FARO MINE

Job Reference: 60601

Legal Site Desc:

CofC Numbers: A005286, A006763

Other Information:

Comments: ADDITIONAL 20-NOV-07 16:58

The detection limits for some dissolved metals were increased for the samples reported due to interferences encountered during analysis.

This revision includes lower reporting detection limits for dissolved zinc for some of the samples.


Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

Can Dang

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L514139-1	L514139-2	L514139-3	L514139-4	L514139-5
		29-MAY-07	27-MAY-07	28-MAY-07	28-MAY-07	28-MAY-07
		BH05-9B-R	BH1	BH14A	BH14B	BH2
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	214	192	2280	2320	195
	Conductivity (uS/cm)	577	338	2920	2870	365
	pH (pH)	8.04	7.13	7.78	7.89	7.43
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	159	165	356	352	116
	Sulfate (SO4) (mg/L)	179	41.4	1840	1660	95.5
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.010	0.0560	<0.025	<0.025	0.112
	Antimony (Sb)-Dissolved (mg/L)	<0.0010	<0.00050	<0.0025	<0.0025	<0.0010
	Arsenic (As)-Dissolved (mg/L)	0.0189	<0.00050	<0.0025	<0.0025	<0.0010
	Barium (Ba)-Dissolved (mg/L)	<0.020	0.046	<0.020	<0.020	0.045
	Beryllium (Be)-Dissolved (mg/L)	<0.0020	<0.0010	<0.0050	<0.0050	<0.0020
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.000050	0.00302	0.000105	0.000136	0.0140
	Calcium (Ca)-Dissolved (mg/L)	48.3	55.7	565	568	54.7
	Chromium (Cr)-Dissolved (mg/L)	<0.0020	<0.0010	<0.0050	<0.0050	<0.0020
	Cobalt (Co)-Dissolved (mg/L)	<0.00060	0.00148	<0.0015	<0.0015	0.00076
	Copper (Cu)-Dissolved (mg/L)	<0.0020	0.0045	<0.0050	<0.0050	<0.0020
	Iron (Fe)-Dissolved (mg/L)	0.592	<0.030	<0.030	<0.030	0.082
	Lead (Pb)-Dissolved (mg/L)	0.0031	0.00179	<0.0025	<0.0025	0.0025
	Lithium (Li)-Dissolved (mg/L)	0.022	0.0128	0.051	0.050	0.011
	Magnesium (Mg)-Dissolved (mg/L)	22.6	12.9	211	218	14.1
	Manganese (Mn)-Dissolved (mg/L)	0.104	0.225	<0.0015	<0.0015	0.0200
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	0.0113	<0.0010	<0.0050	<0.0050	<0.0020
	Nickel (Ni)-Dissolved (mg/L)	<0.0020	0.0059	<0.0050	<0.0050	0.0302
	Potassium (K)-Dissolved (mg/L)	<2.0	<2.0	3.1	3.2	<2.0
	Selenium (Se)-Dissolved (mg/L)	<0.0020	<0.0010	<0.0050	<0.0050	<0.0020
	Silver (Ag)-Dissolved (mg/L)	<0.000040	<0.000020	<0.00010	<0.00010	<0.000040
	Sodium (Na)-Dissolved (mg/L)	52.7	4.2	19.7	15.3	3.7
	Thallium (Tl)-Dissolved (mg/L)	<0.00040	<0.00020	<0.0010	<0.0010	<0.00040
	Tin (Sn)-Dissolved (mg/L)	<0.0010	<0.00050	<0.0025	<0.0025	<0.0010
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.00087	0.00111	0.123	0.140	<0.00040
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	<0.0050	0.971	0.121	0.224	7.02

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L514139-6	L514139-7	L514139-8	L514139-9	L514139-10
		28-MAY-07	29-MAY-07	30-MAY-07	30-MAY-07	30-MAY-07
		BH6	DP4	P01-01A	P01-01B	P01-02B
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	177	34.7	908	669	285
	Conductivity (uS/cm)	329	65.6	1400	1060	495
	pH (pH)	7.26	7.62	8.17	8.05	8.27
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	136	30.9	285	264	205
	Sulfate (SO4) (mg/L)	56.7	<1.0	692	417	107
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0421	0.0496	<0.025	<0.010	0.0196
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.00050	<0.0025	<0.0010	<0.00050
	Arsenic (As)-Dissolved (mg/L)	<0.00050	<0.00050	<0.0025	0.0031	0.00419
	Barium (Ba)-Dissolved (mg/L)	0.024	<0.020	0.059	0.061	0.025
	Beryllium (Be)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0050	<0.0020	<0.0010
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.00128	0.000105	0.000660	<0.000034	<0.000017
	Calcium (Ca)-Dissolved (mg/L)	48.0	8.94	267	203	71.5
	Chromium (Cr)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0050	<0.0020	<0.0010
	Cobalt (Co)-Dissolved (mg/L)	0.0310	<0.00030	<0.0015	<0.00060	<0.00030
	Copper (Cu)-Dissolved (mg/L)	<0.0010	0.0063	<0.0050	<0.0020	<0.0010
	Iron (Fe)-Dissolved (mg/L)	4.51	0.128	<0.030	0.760	0.659
	Lead (Pb)-Dissolved (mg/L)	0.00063	0.00124	<0.0025	<0.0010	<0.00050
	Lithium (Li)-Dissolved (mg/L)	0.0210	<0.0050	<0.025	0.011	0.0058
	Magnesium (Mg)-Dissolved (mg/L)	13.7	3.01	58.7	39.4	26.0
	Manganese (Mn)-Dissolved (mg/L)	1.33	0.00130	4.56	0.113	0.141
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0050	<0.0020	<0.0010
	Nickel (Ni)-Dissolved (mg/L)	0.0289	0.0062	0.0056	<0.0020	<0.0010
	Potassium (K)-Dissolved (mg/L)	<2.0	<2.0	5.6	3.6	<2.0
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0050	<0.0020	<0.0010
	Silver (Ag)-Dissolved (mg/L)	<0.000020	<0.000020	<0.00010	<0.000040	<0.000020
	Sodium (Na)-Dissolved (mg/L)	4.3	<2.0	26.9	26.1	9.8
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	<0.0010	<0.00040	<0.00020
	Tin (Sn)-Dissolved (mg/L)	<0.00050	<0.00050	<0.0025	<0.0010	<0.00050
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.00062	0.00021	0.0084	0.00701	0.00247
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	3.92	0.571	0.0070	0.0055	0.0058

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L514139-11	L514139-12	L514139-13	L514139-14	L514139-15
		31-MAY-07	31-MAY-07	30-MAY-07	30-MAY-07	28-MAY-07
		P01-04A	P01-04B	P01-11	P05-03	P05-04
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	513	835	1350	830	213
	Conductivity (uS/cm)	1000	1380	1980	1310	360
	pH (pH)	7.73	7.98	7.83	8.00	6.95
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	606	270	303	262	165
	Sulfate (SO4) (mg/L)	34.3	613	1090	564	48.1
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.025	<0.025	<0.025	0.016	0.0424
	Antimony (Sb)-Dissolved (mg/L)	<0.0025	<0.0025	<0.0025	<0.0010	<0.00050
	Arsenic (As)-Dissolved (mg/L)	<0.0025	<0.0025	0.0308	0.0022	<0.00050
	Barium (Ba)-Dissolved (mg/L)	0.407	0.021	0.034	0.211	0.036
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0020	<0.0010
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.000090	<0.000085	<0.000085	0.000165	0.00242
	Calcium (Ca)-Dissolved (mg/L)	130	265	409	249	60.4
	Chromium (Cr)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0020	<0.0010
	Cobalt (Co)-Dissolved (mg/L)	<0.0015	<0.0015	0.0030	0.00202	<0.00030
	Copper (Cu)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0020	<0.0010
	Iron (Fe)-Dissolved (mg/L)	0.583	5.30	27.3	2.68	<0.030
	Lead (Pb)-Dissolved (mg/L)	<0.0025	<0.0025	<0.0025	<0.0010	<0.00050
	Lithium (Li)-Dissolved (mg/L)	0.142	<0.025	<0.025	<0.010	0.0155
	Magnesium (Mg)-Dissolved (mg/L)	45.8	41.9	78.9	50.5	15.0
	Manganese (Mn)-Dissolved (mg/L)	0.229	1.84	17.4	10.3	0.00196
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	0.0034	<0.0010
	Nickel (Ni)-Dissolved (mg/L)	<0.0050	<0.0050	0.0060	0.0027	0.0092
	Potassium (K)-Dissolved (mg/L)	2.8	4.0	6.3	3.6	<2.0
	Selenium (Se)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0020	<0.0010
	Silver (Ag)-Dissolved (mg/L)	0.00036	<0.00010	<0.00010	<0.000040	<0.000020
	Sodium (Na)-Dissolved (mg/L)	72.3	46.3	45.7	32.0	4.6
	Thallium (Tl)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.00040	<0.00020
	Tin (Sn)-Dissolved (mg/L)	<0.0025	<0.0025	<0.0025	<0.0010	<0.00050
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	<0.0010	0.0041	0.0053	0.0101	0.00078
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	<0.0050	0.0053	<0.0050	0.0057	1.64

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID			
		Description			
		Sampled Date			
		Sampled Time			
		Client ID			
Grouping	Analyte				
WATER					
Physical Tests	Hardness (as CaCO3) (mg/L)	706	1810	2070	
	Conductivity (uS/cm)	1070	2560	2710	
	pH (pH)	6.90	7.87	7.79	
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	374	276	411	
	Sulfate (SO4) (mg/L)	264	1620	1500	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.010	<0.025	<0.025	
	Antimony (Sb)-Dissolved (mg/L)	<0.0010	<0.0025	<0.0025	
	Arsenic (As)-Dissolved (mg/L)	<0.0010	<0.0025	<0.0025	
	Barium (Ba)-Dissolved (mg/L)	<0.020	<0.020	0.041	
	Beryllium (Be)-Dissolved (mg/L)	<0.0020	<0.0050	<0.0050	
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	
	Cadmium (Cd)-Dissolved (mg/L)	0.000327	<0.000085	0.000310	
	Calcium (Ca)-Dissolved (mg/L)	185	504	357	
	Chromium (Cr)-Dissolved (mg/L)	<0.0020	<0.0050	<0.0050	
	Cobalt (Co)-Dissolved (mg/L)	<0.00060	<0.0015	<0.0015	
	Copper (Cu)-Dissolved (mg/L)	<0.0020	<0.0050	<0.0050	
	Iron (Fe)-Dissolved (mg/L)	<0.030	<0.030	<0.030	
	Lead (Pb)-Dissolved (mg/L)	<0.0010	<0.0025	<0.0025	
	Lithium (Li)-Dissolved (mg/L)	0.040	0.035	<0.025	
	Magnesium (Mg)-Dissolved (mg/L)	59.3	133	286	
	Manganese (Mn)-Dissolved (mg/L)	0.0326	0.0043	0.0874	
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0020	<0.0050	<0.0050	
	Nickel (Ni)-Dissolved (mg/L)	0.0225	0.0052	0.0055	
	Potassium (K)-Dissolved (mg/L)	3.7	4.7	3.8	
	Selenium (Se)-Dissolved (mg/L)	<0.0020	<0.0050	<0.0050	
	Silver (Ag)-Dissolved (mg/L)	<0.000040	<0.00010	<0.00010	
	Sodium (Na)-Dissolved (mg/L)	6.9	15.7	12.0	
	Thallium (Tl)-Dissolved (mg/L)	<0.00040	<0.0010	<0.0010	
	Tin (Sn)-Dissolved (mg/L)	<0.0010	<0.0025	<0.0025	
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	
	Uranium (U)-Dissolved (mg/L)	0.0173	0.0255	0.0353	
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	
	Zinc (Zn)-Dissolved (mg/L)	0.808	0.0081	0.0141	

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
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.			
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.			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.			
HG-DIS-CCME-CVAFS-VA	Water	Diss. Mercury in Water by CVAFS (CCME)	EPA 3005A/245.7
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 filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).			
MET-DIS-CCME-ICP-VA	Water	Diss. Metals in Water by ICPOES (CCME)	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 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 - optical emission spectrophotometry (EPA Method 6010B).			
MET-DIS-CCME-MS-VA	Water	Diss. Metals in Water by ICPMS (CCME)	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).			
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			
SO4-TUR-VA	Water	Sulphate(SO4) by Turbidity	APHA 4500-SO4 "Sulphate"
This analysis is carried out using procedures adapted from APHA Method 4500-SO4 "Sulphate". Sulphate is determined using the turbidimetric method.			
ZN-DIS-CCME-ICP-VA	Water	Diss. Zinc in Water by ICPOES (CCME)	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 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 - optical emission spectrophotometry (EPA Method 6010B).			

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)	
Laboratory Definition Code	Laboratory Location		Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA			

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

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.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.



Environmental Division

REPORT TO:		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: <i>Gastar Lee Limited</i>		STANDARD ☒ OTHER ☐		☒ REGULAR SERVICE (DEFAULT)	
CONTACT: <i>Jennifer Funston</i>		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		☐ RUSH SERVICE (2-3 DAYS)	
ADDRESS: <i>2851 2nd Avenue</i>		EMAIL 1: <i>jfunston@gastarlee.com</i>		☐ PRIORITY SERVICE (1 DAY or ASAP)	
PHONE: <i>867.633.6474</i> FAX: <i>867.633.6321</i>		EMAIL 2:		☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
INVOICE TO: SAME AS REPORT? ☒ YES ☐ NO		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST	
COMPANY:		CLIENT / PROJECT INFORMATION: <i>GLF Fore Mine</i>			
CONTACT:		JOB #: <i>60601</i>			
ADDRESS:		PO / AFE:			
PHONE:		Legal Site Description:			
FAX:		QUOTE #:			
Lab Work Order #		SAMPLER (Initials):			
(lab use only)					
Sample #	SAMPLE IDENTIFICATION (This description will appear on the report)	DATE	TIME	SAMPLE TYPE	HAZARDOUS ?
	~~205~~ <i>BH05-9B-R</i>	<i>May 29, 2007</i>		<i>GW</i>	☒
	<i>BH1</i>	<i>May 27, 2007</i>		<i>GW</i>	☒
	<i>BH14A</i>	<i>May 28, 2007</i>		<i>GW</i>	☒
	<i>BH14B</i>	<i>May 28, 2007</i>		<i>GW</i>	☒
	<i>BH2</i>	<i>May 28, 2007</i>		<i>GW</i>	☒
	<i>BH6</i>	<i>May 28, 2007</i>		<i>GW</i>	☒
	<i>DP4</i>	<i>May 29, 2007</i>		<i>GW</i>	☒
	<i>PO1-01A</i>	<i>May 30, 2007</i>		<i>GW</i>	☒
	<i>PO1-01B</i>	<i>May 30, 2007</i>		<i>GW</i>	☒
	~~PO1-01A~~ <i>PO1-02B</i>	<i>May 30, 2007</i>		<i>GW</i>	☒
GUIDELINES / REGULATIONS					
SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS					

CME Aquatic Life Metals

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 reverse page of the white report copy.

RELINQUISHED BY:

DATE & TIME: *June 3, 2007*

RECEIVED BY:

AK

DATE & TIME: *June 14, 2007*

TEMPERATURE

SAMPLE CONDITION (lab use only)

SAMPLES RECEIVED IN GOOD CONDITION (YES) NO

RELINQUISHED BY:

DATE & TIME:

RECEIVED BY:

DATE & TIME:

8°C

(if no provide details)

ice pack

Environmental Division



www.alsenviro.com

REPORT TO:		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED																									
COMPANY: <u>Gardner Lee Limited</u>		STANDARD ☒ OTHER ☐		☒ REGULAR SERVICE (DEFAULT)																									
CONTACT: <u>Jennifer Furston</u>		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		☐ RUSH SERVICE (2-3 DAYS)																									
ADDRESS: <u>2251 2nd Avenue</u>		EMAIL 1: <u>jfurstone@gardnerlee.com</u>		☐ PRIORITY SERVICE (1 DAY or ASAP)																									
Whitehorse, Yukon, Y1A 5W1		EMAIL 2:		☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS																									
PHONE: <u>867.633.6474</u> FAX: <u>867.633.6321</u>		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST																									
INVOICE TO: SAME AS REPORT? ☒ YES ☐ NO		CLIENT / PROJECT INFORMATION: <u>GUL / Hare Mine</u>																											
COMPANY:		JOB #: <u>60601</u>																											
CONTACT:		PO / AFE:																											
ADDRESS:		Legal Site Description:																											
PHONE:		QUOTE #:																											
Lab Work Order # (lab use only)		SAMPLER (Initials):																											
Sample #	SAMPLE IDENTIFICATION (This description will appear on the report)	DATE	TIME	SAMPLE TYPE																									
	PO1-01A	May 31, 2007		GW	X																								
	PO1-04B	May 31, 2007		GW	X																								
	PO1-11	May 30, 2007		GW	X																								
	PO5-03	May 30, 2007		GW	X																								
	PO5-04	May 28, 2007		GW	X																								
	PO6-06	May 28, 2007		GW	X																								
	PO6-07	May 29, 2007		GW	X																								
	PO6-09A	May 30, 2007		GW	X																								
<table border="1"> <tr> <td colspan="5">General Chemistry</td> <td></td> </tr> <tr> <td colspan="5">pH, cond, hardness</td> <td></td> </tr> <tr> <td colspan="5">total alkalinity, sulphate</td> <td></td> </tr> <tr> <td colspan="5">Dissolved Metals</td> <td></td> </tr> </table>						General Chemistry						pH, cond, hardness						total alkalinity, sulphate						Dissolved Metals					
General Chemistry																													
pH, cond, hardness																													
total alkalinity, sulphate																													
Dissolved Metals																													
HAZARDOUS ?																													
HIGHLY CONTAMINATED ?																													
NUMBER OF CONTAINERS																													
GUIDELINES / REGULATIONS																													
SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS																													

CAME Aquatic Life Metals

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 reverse page of the white report copy.

RELINQUISHED BY: <u>Don Munster</u>	DATE & TIME: <u>June 3, 2007</u>	RECEIVED BY: <u>AS</u>	DATE & TIME: <u>June 5, 14:29</u>	TEMPERATURE: <u>8°C</u>	SAMPLE CONDITION (lab use only)
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	(if no provide details)	SAMPLES RECEIVED IN GOOD CONDITION? (YES) NO

Project 60601
Report To JEN FUNSTON, GARTNER LEE LTD.
ALS File No. L514139
Date Received 05-Jun-07
Date 03-Dec-07

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Anions and Nutrients											
L514139-3	Water	WG612576-4	Sulfate (SO4)	1840	1830	mg/L	0.30	20	-	-	-
Dissolved Metals											
L514139-5	Water	WG608711-12	Aluminum (Al)-Dissolved	0.112	0.109	mg/L	2.1	20	-	-	-
L514139-5	Water	WG608711-12	Antimony (Sb)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L514139-5	Water	WG608711-12	Arsenic (As)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L514139-5	Water	WG608711-12	Barium (Ba)-Dissolved	0.045	0.046	mg/L	-	-	0.001	0.08	J
L514139-5	Water	WG608711-12	Beryllium (Be)-Dissolved	<0.0020	<0.0020	mg/L	N/A	20	-	-	RPD-NA
L514139-5	Water	WG608711-12	Boron (B)-Dissolved	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
L514139-5	Water	WG608711-12	Cadmium (Cd)-Dissolved	0.0140	0.0136	mg/L	2.7	20	-	-	-
L514139-5	Water	WG608711-12	Calcium (Ca)-Dissolved	54.7	53.2	mg/L	2.9	20	-	-	-
L514139-5	Water	WG608711-12	Chromium (Cr)-Dissolved	<0.0020	<0.0020	mg/L	N/A	20	-	-	RPD-NA
L514139-5	Water	WG608711-12	Cobalt (Co)-Dissolved	0.00076	0.00072	mg/L	-	-	0.00004	0.0024	J
L514139-5	Water	WG608711-12	Copper (Cu)-Dissolved	<0.0020	<0.0020	mg/L	N/A	20	-	-	RPD-NA
L514139-5	Water	WG608711-12	Iron (Fe)-Dissolved	0.082	0.080	mg/L	-	-	0.002	0.12	J
L514139-5	Water	WG608711-12	Lead (Pb)-Dissolved	0.0025	0.0025	mg/L	-	-	0.0000	0.004	J
L514139-5	Water	WG608711-12	Lithium (Li)-Dissolved	0.011	0.011	mg/L	-	-	0.000	0.04	J
L514139-5	Water	WG608711-12	Magnesium (Mg)-Dissolved	14.1	14.2	mg/L	0.58	20	-	-	-
L514139-5	Water	WG608711-12	Manganese (Mn)-Dissolved	0.0200	0.0191	mg/L	4.8	20	-	-	-
L514139-5	Water	WG608711-12	Mercury (Hg)-Dissolved	<0.000020	<0.000020	mg/L	N/A	20	-	-	RPD-NA
L514139-5	Water	WG608711-12	Molybdenum (Mo)-Dissolved	<0.0020	<0.0020	mg/L	N/A	20	-	-	RPD-NA
L514139-5	Water	WG608711-12	Nickel (Ni)-Dissolved	0.0302	0.0293	mg/L	2.9	20	-	-	-
L514139-5	Water	WG608711-12	Potassium (K)-Dissolved	<2.0	<2.0	mg/L	N/A	20	-	-	RPD-NA
L514139-5	Water	WG608711-12	Selenium (Se)-Dissolved	<0.0020	<0.0020	mg/L	N/A	20	-	-	RPD-NA
L514139-5	Water	WG608711-12	Silver (Ag)-Dissolved	<0.000040	<0.000040	mg/L	N/A	20	-	-	RPD-NA
L514139-5	Water	WG608711-12	Sodium (Na)-Dissolved	3.7	3.7	mg/L	-	-	0.0	8	J
L514139-5	Water	WG608711-12	Thallium (Tl)-Dissolved	<0.00040	<0.00040	mg/L	N/A	20	-	-	RPD-NA
L514139-5	Water	WG608711-12	Tin (Sn)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L514139-5	Water	WG608711-12	Titanium (Ti)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L514139-5	Water	WG608711-12	Uranium (U)-Dissolved	<0.00040	<0.00040	mg/L	N/A	20	-	-	RPD-NA
L514139-5	Water	WG608711-12	Vanadium (V)-Dissolved	<0.030	<0.030	mg/L	N/A	20	-	-	RPD-NA
L514139-5	Water	WG608711-12	Zinc (Zn)-Dissolved	7.02	6.81	mg/L	2.9	20	-	-	-

Anions and Nutrients

L514139-7	Water	WG610235-15	Alkalinity, Total (as CaCO3)	30.9	30.9	mg/L	0.25	20	-	-	-
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Physical Tests

L514139-9	Water	WG608546-4	Conductivity	1060	1060	uS/cm	0.095	20	-	-	-
L514139-9	Water	WG608546-4	pH	8.05	8.05	pH	0.038	20	-	-	-

Anions and Nutrients

L514139-16	Water	WG611692-4	Alkalinity, Total (as CaCO3)	374	377	mg/L	0.91	20	-	-	-
L514139-16	Water	WG612576-5	Sulfate (SO4)	264	240	mg/L	9.5	20	-	-	-



Environmental Division

ANALYTICAL REPORT

GARTNER LEE LTD.

ATTN: JEN FUNSTON

2251 2ND AVENUE

WHITEHORSE YT Y1A 5W1

Reported On: 15-DEC-07 12:25 AM

Revision: 3

Lab Work Order #: **L514372**

Date Received: **05-JUN-07**

Project P.O. #:

Job Reference: 60601 GLL/FARO MINE

Legal Site Desc:

CofC Numbers: A006785, A006786

Other Information:

Comments:

This revision of the report replaces and supersedes all previous revisions.
The Sulfate results for sample L514372-3 have been changed/corrected due to the manual data entry error.

ADDITIONAL 20-NOV-07 17:03

The detection limits for some dissolved metals were increased for the samples reported due to interferences encountered during analysis.



Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

NATASHA MARKOVIC-MIROVIC

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L514372-1	L514372-2	L514372-3	L514372-4	L514372-5
		28-MAY-07	28-MAY-07	28-MAY-07	28-MAY-07	01-JUN-07
		SRK05-SP-4A	SRK05-SP-4A-S	SRK05-SP-4B	SRK05-SP-5	TH86-17
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	523	548	4040	4660	91.6
	Conductivity (uS/cm)	915	877	4370	4610	188
	pH (pH)	6.94	7.20	7.19	7.29	8.02
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	251	251	214	231	73.6
	Sulfate (SO4) (mg/L)	292	288	4760	5180	<1.0
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.025	0.031	<0.50	<0.50	<0.0050
	Antimony (Sb)-Dissolved (mg/L)	<0.0025	<0.0010	<0.050	<0.050	<0.00050
	Arsenic (As)-Dissolved (mg/L)	0.0029	0.0046	<0.050	<0.050	0.00109
	Barium (Ba)-Dissolved (mg/L)	0.026	0.030	<0.040	<0.040	0.040
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0020	<0.10	<0.10	<0.0010
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.20	<0.20	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	<0.000085	<0.000034	0.0652	0.0281	0.000018
	Calcium (Ca)-Dissolved (mg/L)	132	137	372	490	26.4
	Chromium (Cr)-Dissolved (mg/L)	<0.0050	<0.0020	<0.10	<0.10	<0.0010
	Cobalt (Co)-Dissolved (mg/L)	0.0262	0.00948	<0.030	<0.030	0.00153
	Copper (Cu)-Dissolved (mg/L)	<0.0050	<0.0020	<0.10	<0.10	<0.0010
	Iron (Fe)-Dissolved (mg/L)	8.95	21.3	<0.060	0.625	0.916
	Lead (Pb)-Dissolved (mg/L)	<0.0025	<0.0010	<0.050	<0.050	<0.00050
	Lithium (Li)-Dissolved (mg/L)	0.151	0.054	<0.50	<0.50	<0.0050
	Magnesium (Mg)-Dissolved (mg/L)	46.9	49.9	757	834	6.24
	Manganese (Mn)-Dissolved (mg/L)	2.92	1.09	108	90.0	0.0225
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0050	<0.0020	<0.10	<0.10	0.0039
	Nickel (Ni)-Dissolved (mg/L)	0.0535	0.0194	2.75	1.87	0.0167
	Potassium (K)-Dissolved (mg/L)	4.5	4.7	9.1	10.2	<2.0
	Selenium (Se)-Dissolved (mg/L)	<0.0050	<0.0020	<0.10	<0.10	<0.0010
	Silver (Ag)-Dissolved (mg/L)	<0.00010	<0.000040	<0.0020	<0.0020	<0.000020
	Sodium (Na)-Dissolved (mg/L)	9.7	10.2	21.2	41.3	2.2
	Thallium (Tl)-Dissolved (mg/L)	<0.0010	<0.00040	<0.020	<0.020	<0.00020
	Tin (Sn)-Dissolved (mg/L)	<0.0025	<0.0010	<0.050	<0.050	<0.00050
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.020	<0.020	<0.010
	Uranium (U)-Dissolved (mg/L)	0.0015	0.00071	<0.020	<0.020	0.00193
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.060	<0.060	<0.030
	Zinc (Zn)-Dissolved (mg/L)	0.951	1.05	318	234	0.0099

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L514372-6	L514372-7	L514372-8	L514372-9	L514372-10
		31-MAY-07	31-MAY-07	30-MAY-07	30-MAY-07	30-MAY-07
		X16A	X16B	X17A	X17B	X18A
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	175	243	359	535	951
	Conductivity (uS/cm)	276	360	572	957	1460
	pH (pH)	8.22	8.31	8.32	8.25	8.10
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)	136	198	276	390	252
	Sulfate (SO ₄) (mg/L)	26.8	27.8	63.3	176	626
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.0050	<0.0050	<0.010	0.143	<0.025
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.00050	<0.0010	<0.0010	<0.0025
	Arsenic (As)-Dissolved (mg/L)	<0.00050	<0.00050	<0.0010	<0.0010	0.0108
	Barium (Ba)-Dissolved (mg/L)	0.080	0.136	0.207	0.177	0.180
	Beryllium (Be)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0020	<0.0020	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.000076	<0.000017	0.000039	<0.000034	<0.000085
	Calcium (Ca)-Dissolved (mg/L)	51.5	69.5	103	146	274
	Chromium (Cr)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0020	<0.0020	<0.0050
	Cobalt (Co)-Dissolved (mg/L)	<0.00030	<0.00030	<0.00060	<0.00060	<0.0015
	Copper (Cu)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0020	<0.0020	<0.0050
	Iron (Fe)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030	2.47
	Lead (Pb)-Dissolved (mg/L)	<0.00050	<0.00050	<0.0010	<0.0010	<0.0025
	Lithium (Li)-Dissolved (mg/L)	<0.0050	<0.0050	<0.010	0.028	<0.025
	Magnesium (Mg)-Dissolved (mg/L)	11.3	16.8	25.0	41.4	64.9
	Manganese (Mn)-Dissolved (mg/L)	0.00055	<0.00030	0.0202	0.302	2.15
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	0.0022	0.0016	<0.0020	<0.0020	<0.0050
	Nickel (Ni)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0020	<0.0020	<0.0050
	Potassium (K)-Dissolved (mg/L)	<2.0	<2.0	<2.0	3.4	6.0
	Selenium (Se)-Dissolved (mg/L)	<0.0010	0.0018	<0.0020	<0.0020	<0.0050
	Silver (Ag)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000040	<0.000040	<0.00010
	Sodium (Na)-Dissolved (mg/L)	2.2	2.1	3.3	31.9	25.3
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00040	<0.00040	<0.0010
	Tin (Sn)-Dissolved (mg/L)	<0.00050	<0.00050	<0.0010	<0.0010	<0.0025
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.00141	0.00196	0.00288	0.00187	0.0071
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	0.0312	0.0060	0.0092	<0.0050	0.0095

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L514372-11	L514372-12	L514372-13	L514372-14	L514372-15
		30-MAY-07	01-JUN-07	01-JUN-07	01-JUN-07	31-MAY-07
		X18B	X21A-96	X21B-96	X21C-96	X25A-96
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	976	4480	858	203	552
	Conductivity (uS/cm)	1450	9750	1470	335	927
	pH (pH)	8.11	3.51	7.12	8.11	8.10
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)	257	15.5	120	180	254
	Sulfate (SO ₄) (mg/L)	645	18500	851	12.0	285
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.025	<0.50	<0.025	0.0114	<0.010
	Antimony (Sb)-Dissolved (mg/L)	<0.0025	<0.050	<0.0025	<0.00050	<0.0010
	Arsenic (As)-Dissolved (mg/L)	<0.0025	<0.050	0.0116	0.0200	0.0025
	Barium (Ba)-Dissolved (mg/L)	0.129	<0.20	0.022	0.174	0.035
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.10	<0.0050	<0.0010	<0.0020
	Boron (B)-Dissolved (mg/L)	<0.10	<1.0	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.000347	<0.0017	<0.000085	0.000038	0.000176
	Calcium (Ca)-Dissolved (mg/L)	282	367	260	65.1	160
	Chromium (Cr)-Dissolved (mg/L)	<0.0050	<0.10	<0.0050	<0.0010	<0.0020
	Cobalt (Co)-Dissolved (mg/L)	<0.0015	<0.030	0.0101	<0.00030	0.00265
	Copper (Cu)-Dissolved (mg/L)	<0.0050	<0.10	<0.0050	0.0010	<0.0020
	Iron (Fe)-Dissolved (mg/L)	0.131	7110	59.3	<0.030	<0.030
	Lead (Pb)-Dissolved (mg/L)	<0.0025	0.057	<0.0025	0.00190	<0.0010
	Lithium (Li)-Dissolved (mg/L)	<0.025	<0.50	<0.025	<0.0050	<0.010
	Magnesium (Mg)-Dissolved (mg/L)	65.6	865	50.9	9.71	36.7
	Manganese (Mn)-Dissolved (mg/L)	2.09	474	21.8	0.206	6.09
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	0.000032	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0050	<0.10	<0.0050	0.0041	0.0021
	Nickel (Ni)-Dissolved (mg/L)	0.0144	<0.10	0.0134	<0.0010	0.0055
	Potassium (K)-Dissolved (mg/L)	6.7	<20	4.6	2.0	4.3
	Selenium (Se)-Dissolved (mg/L)	<0.0050	<0.10	<0.0050	<0.0010	<0.0020
	Silver (Ag)-Dissolved (mg/L)	<0.00010	<0.0020	<0.00010	<0.000020	<0.000040
	Sodium (Na)-Dissolved (mg/L)	22.0	32	69.4	2.9	26.2
	Thallium (Tl)-Dissolved (mg/L)	<0.0010	<0.020	<0.0010	<0.00020	<0.00040
	Tin (Sn)-Dissolved (mg/L)	<0.0025	<0.050	<0.0025	<0.00050	<0.0010
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.10	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.0101	<0.020	0.0033	0.00028	0.00883
	Vanadium (V)-Dissolved (mg/L)	<0.030	0.61	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	0.0069	79.2	0.224	<0.0050	0.0071

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID				
		Description				
		Sampled Date				
		Sampled Time				
		Client ID				
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	582	198			
	Conductivity (uS/cm)	1030	327			
	pH (pH)	8.22	8.40			
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)	270	173			
	Sulfate (SO ₄) (mg/L)	356	11.5			
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.025	<0.0050			
	Antimony (Sb)-Dissolved (mg/L)	<0.0025	<0.00050			
	Arsenic (As)-Dissolved (mg/L)	<0.0025	0.0262			
	Barium (Ba)-Dissolved (mg/L)	0.025	0.177			
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0010			
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10			
	Cadmium (Cd)-Dissolved (mg/L)	<0.000085	<0.000017			
	Calcium (Ca)-Dissolved (mg/L)	183	63.3			
	Chromium (Cr)-Dissolved (mg/L)	<0.0050	<0.0010			
	Cobalt (Co)-Dissolved (mg/L)	<0.0015	<0.00030			
	Copper (Cu)-Dissolved (mg/L)	<0.0050	<0.0010			
	Iron (Fe)-Dissolved (mg/L)	0.616	0.384			
	Lead (Pb)-Dissolved (mg/L)	<0.0025	<0.00050			
	Lithium (Li)-Dissolved (mg/L)	<0.025	<0.0050			
	Magnesium (Mg)-Dissolved (mg/L)	30.4	9.75			
	Manganese (Mn)-Dissolved (mg/L)	0.201	0.217			
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020			
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0050	0.0040			
	Nickel (Ni)-Dissolved (mg/L)	<0.0050	<0.0010			
	Potassium (K)-Dissolved (mg/L)	3.4	2.0			
	Selenium (Se)-Dissolved (mg/L)	<0.0050	<0.0010			
	Silver (Ag)-Dissolved (mg/L)	<0.00010	<0.000020			
	Sodium (Na)-Dissolved (mg/L)	46.4	3.1			
	Thallium (Tl)-Dissolved (mg/L)	<0.0010	<0.00020			
	Tin (Sn)-Dissolved (mg/L)	<0.0025	<0.00050			
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010			
	Uranium (U)-Dissolved (mg/L)	0.0056	<0.00020			
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030			
	Zinc (Zn)-Dissolved (mg/L)	0.0056	<0.0050			

Reference Information

Qualifiers for Sample Submission Listed:

Qualifier	Description
SFPL	Sample was Filtered and Preserved at the laboratory - samples #2, 14 - Dissolved Metals

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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ALK-COL-VA Water Alkalinity by Colourimetric (Automated) APHA 310.2

This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.

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.

HARDNESS-CALC-VA Water Hardness APHA 2340B

Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.

HG-DIS-CCME-CVAFS-VA Water Diss. Mercury in Water by CVAFS (CCME) EPA 3005A/245.7

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 filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).

MET-DIS-CCME-ICP-VA Water Diss. Metals in Water by ICPOES (CCME) 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 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 - optical emission spectrophotometry (EPA Method 6010B).

MET-DIS-CCME-MS-VA Water Diss. Metals in Water by ICPMS (CCME) 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).

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

SO4-TUR-VA Water Sulphate(SO4) by Turbidity APHA 4500-SO4 "Sulphate"

This analysis is carried out using procedures adapted from APHA Method 4500-SO4 "Sulphate". Sulphate is determined using the turbidimetric method.

ZN-DIS-CCME-ICP-VA Water Diss. Zinc in Water by ICPOES (CCME) 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 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 - optical emission spectrophotometry (EPA Method 6010B).

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
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Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
VA		ALS LABORATORY GROUP - VANCOUVER, BC, CANADA	

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

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.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Environmental Division



www.alsenviro.com

514378

REPORT TO:

REPORT FORMAT / DISTRIBUTION

SERVICE REQUESTED

COMPANY: Earthtec Inc Limited

STANDARD ☒

OTHER ☐

☒ REGULAR SERVICE (DEFAULT)

CONTACT: Jennifer Funston

PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐

RUSH SERVICE (2-3 DAYS)

ADDRESS: 2251 2nd Avenue

EMAIL 1: jfunston@earthtecinc.com

PRIORITY SERVICE (1 DAY or ASAP)

Whitehorse, Yukon, Y1A 5W1

EMAIL 2:

EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS

PHONE: 867.633.6474 FAX: 867.633.6321

INDICATE BOTTLES: FILTERED / PRESERVED (F/P)

ANALYSIS REQUEST

INVOICE TO: SAME AS REPORT ? ☒ YES / NO

COMPANY:

CLIENT / PROJECT INFORMATION: Cell / Ferro Wire

CONTACT:

JOB #: 60601

ADDRESS:

PO / AFE:

PHONE:

Legal Site Description:

FAX:

QUOTE #:

Lab Work Order #
(lab use only)

SAMPLER
(Initials):

SAMPLE IDENTIFICATION

(This description will appear on the report)

DATE

TIME

SAMPLE TYPE

General Chemistry
pH, cond, hardness,
total alkalinity,
sulphate,
Dissolved Metals

HAZARDOUS ?

HIGHLY CONTAMINATED ?

NUMBER OF CONTAINERS

GUIDELINES / REGULATIONS

SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS

CAME Aquatic Life Metals

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 reverse page of the white report copy.

RELINQUISHED BY:

DATE & TIME: June 3, 2007

RECEIVED BY:

DATE & TIME: 07/06/05

TEMPERATURE

SAMPLE CONDITION (lab use only)

RELINQUISHED BY:

DATE & TIME: June 17, 2007

RECEIVED BY:

DATE & TIME: 07/06/05

TEMPERATURE

SAMPLES RECEIVED IN GOOD CONDITION ? YES / NO

REFER TO BACK PAGE FOR REGIONAL LOCATIONS AND SAMPLING INFORMATION

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GEN14.00



Environmental Division

REPORT TO:		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: <u>Gartner Lee Limited</u>		STANDARD ☒ OTHER ☐		☒ REGULAR SERVICE (DEFAULT)	
CONTACT: <u>Jennifer Funston</u>		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		☐ RUSH SERVICE (2-3 DAYS)	
ADDRESS: <u>2351 2nd Avenue</u>		EMAIL 1: <u>funston@gartnerlee.com</u>		☐ PRIORITY SERVICE (1 DAY or ASAP)	
PHONE: <u>607.633.6474</u> FAX: <u>607.633.6321</u>		EMAIL 2:		☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
INVOICE TO: SAME AS REPORT ☒ YES / NO ☐		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST	
COMPANY:		CLIENT / PROJECT INFORMATION: <u>Gill / Fire Mine</u>			
CONTACT:		JOB #: <u>60601</u>			
ADDRESS:		PO / AFE:			
PHONE:		Legal Site Description:			
FAX:		QUOTE #:			
Lab Work Order # (lab use only)		SAMPLER (Initials):			
Sample #	SAMPLE IDENTIFICATION (This description will appear on the report)	DATE	TIME	SAMPLE TYPE	
	X1B B	May 30, 2007		GW	X
	X21A-96	June 1, 2007			X
	X21B-96	June 1, 2007			X
	X21C-96	June 1, 2007			X
	X25A-96	May 31, 2007			X
	X25B-96	May 31, 2007			X
	~~X25C-96~~				
	X21C-96-S	June 1, 2007		GW	X
GUIDELINES / REGULATIONS					
SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS					
CCME Aquatic Life Metals 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 reverse page of the white report copy. RELINQUISHED BY: <u>Don Johnston</u> DATE & TIME: <u>June 3, 2007 12:30</u> RECEIVED BY: <u>GW</u> DATE & TIME: <u>02/06/05 15:01</u> TEMPERATURE <u>12.4°C</u> SAMPLE CONDITION (lab use only) ☒ YES ☐ NO (if no provide details)					

Project 60601 GLL/FARO MINE
Report To JEN FUNSTON, GARTNER LEE LTD.
ALS File No. L514372
Date Received 05-Jun-07
Date 15-Dec-07

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Anions and Nutrients											
L514372-4	Water	WG608942-11	Sulfate (SO4)	5180	5220	mg/L	0.83	20	-	-	-
Dissolved Metals											
L514372-7	Water	WG608711-13	Aluminum (Al)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L514372-7	Water	WG608711-13	Antimony (Sb)-Dissolved	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L514372-7	Water	WG608711-13	Arsenic (As)-Dissolved	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L514372-7	Water	WG608711-13	Barium (Ba)-Dissolved	0.136	0.136	mg/L	-	-	0.000	0.08	J
L514372-7	Water	WG608711-13	Beryllium (Be)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L514372-7	Water	WG608711-13	Boron (B)-Dissolved	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
L514372-7	Water	WG608711-13	Cadmium (Cd)-Dissolved	<0.000017	0.000018	mg/L	-	-	0.000002	0.00004	J
L514372-7	Water	WG608711-13	Calcium (Ca)-Dissolved	69.5	70.8	mg/L	1.9	20	-	-	-
L514372-7	Water	WG608711-13	Chromium (Cr)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L514372-7	Water	WG608711-13	Cobalt (Co)-Dissolved	<0.00030	<0.00030	mg/L	N/A	20	-	-	RPD-NA
L514372-7	Water	WG608711-13	Copper (Cu)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L514372-7	Water	WG608711-13	Iron (Fe)-Dissolved	<0.030	<0.030	mg/L	N/A	20	-	-	RPD-NA
L514372-7	Water	WG608711-13	Lead (Pb)-Dissolved	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L514372-7	Water	WG608711-13	Lithium (Li)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L514372-7	Water	WG608711-13	Magnesium (Mg)-Dissolved	16.8	16.7	mg/L	0.62	20	-	-	-
L514372-7	Water	WG608711-13	Manganese (Mn)-Dissolved	<0.00030	<0.00030	mg/L	N/A	20	-	-	RPD-NA
L514372-7	Water	WG608711-13	Mercury (Hg)-Dissolved	<0.000020	<0.000020	mg/L	N/A	20	-	-	RPD-NA
L514372-7	Water	WG608711-13	Molybdenum (Mo)-Dissolved	0.0016	0.0017	mg/L	-	-	0.0001	0.004	J
L514372-7	Water	WG608711-13	Nickel (Ni)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L514372-7	Water	WG608711-13	Potassium (K)-Dissolved	<2.0	<2.0	mg/L	N/A	20	-	-	RPD-NA
L514372-7	Water	WG608711-13	Selenium (Se)-Dissolved	0.0018	0.0018	mg/L	-	-	0.0000	0.004	J
L514372-7	Water	WG608711-13	Silver (Ag)-Dissolved	<0.000020	<0.000020	mg/L	N/A	20	-	-	RPD-NA
L514372-7	Water	WG608711-13	Sodium (Na)-Dissolved	2.1	2.1	mg/L	-	-	0.0	8	J
L514372-7	Water	WG608711-13	Thallium (Tl)-Dissolved	<0.00020	<0.00020	mg/L	N/A	20	-	-	RPD-NA
L514372-7	Water	WG608711-13	Tin (Sn)-Dissolved	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L514372-7	Water	WG608711-13	Titanium (Ti)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L514372-7	Water	WG608711-13	Uranium (U)-Dissolved	0.00196	0.00199	mg/L	-	-	0.00003	0.0008	J
L514372-7	Water	WG608711-13	Vanadium (V)-Dissolved	<0.030	<0.030	mg/L	N/A	20	-	-	RPD-NA
L514372-7	Water	WG608711-13	Zinc (Zn)-Dissolved	0.0060	0.0061	mg/L	-	-	0.0000	0.02	J

Anions and Nutrients

L514372-13	Water	WG609476-9	Alkalinity, Total (as CaCO3)	120	135	mg/L	12	20	-	-	-
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Physical Tests

L514372-15	Water	WG609805-2	Conductivity	927	915	uS/cm	1.3	20	-	-	-
L514372-15	Water	WG609805-2	pH	8.10	8.22	pH	1.5	20	-	-	-

Anions and Nutrients

L514372-17	Water	WG608942-12	Sulfate (SO4)	11.5	11.9	mg/L	3.2	20	-	-	-
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Environmental Division

ANALYTICAL REPORT

GARTNER LEE LTD.

ATTN: JEN FUNSTON

2251 2ND AVENUE

WHITEHORSE YT Y1A 5W1

Reported On: 30-NOV-07 04:13 PM

Revision: 2

Lab Work Order #: L514598

Date Received: 06-JUN-07

Project P.O. #: FARO MINE

Job Reference: 60601

Legal Site Desc:

CofC Numbers: A020048, A020049

Other Information:

Comments: This report version includes modified zinc detection limits for the ALSE samples number 10 to 18.

The detection limits for some dissolved metals were increased for the samples reported due to interferences encountered during analysis.



Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

Can Dang

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

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ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L514598-1	L514598-2	L514598-3	L514598-4	L514598-5
Grouping Analyte						
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	303	302	369	382	590
	Conductivity (uS/cm)	548	547	676	686	1110
	pH (pH)	8.16	8.18	8.06	8.07	7.77
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	275	272	289	282	265
	Sulfate (SO4) (mg/L)	53.6	52.7	118	123	357
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0051	0.0056	0.0898	<0.010	<0.010
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.0010	0.0014
	Arsenic (As)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.0010	0.0056
	Barium (Ba)-Dissolved (mg/L)	0.070	0.069	0.207	0.106	0.031
	Beryllium (Be)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.000024	<0.000017	0.000248	0.000299	<0.000034
	Calcium (Ca)-Dissolved (mg/L)	75.9	76.6	103	109	168
	Chromium (Cr)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
	Cobalt (Co)-Dissolved (mg/L)	<0.00030	<0.00030	0.00085	<0.00060	0.00062
	Copper (Cu)-Dissolved (mg/L)	<0.0010	<0.0010	0.0069	0.0042	<0.0020
	Iron (Fe)-Dissolved (mg/L)	<0.030	<0.030	0.220	0.073	27.4
	Lead (Pb)-Dissolved (mg/L)	<0.00050	<0.00050	0.00180	<0.0010	0.0023
	Lithium (Li)-Dissolved (mg/L)	0.0090	0.0091	<0.0050	<0.010	<0.010
	Magnesium (Mg)-Dissolved (mg/L)	27.4	27.0	27.1	26.5	41.6
	Manganese (Mn)-Dissolved (mg/L)	0.0466	0.0469	4.28	6.00	2.54
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	0.0047	0.0108
	Nickel (Ni)-Dissolved (mg/L)	0.0023	0.0022	0.0225	0.0245	<0.0020
	Potassium (K)-Dissolved (mg/L)	<2.0	<2.0	<2.0	<2.0	2.6
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
	Silver (Ag)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000040	<0.000040
	Sodium (Na)-Dissolved (mg/L)	2.3	2.3	10.5	9.5	32.5
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040
	Tin (Sn)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.00405	0.00413	0.00351	0.00432	0.00691
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	0.0055	0.0070	0.148	<0.010	<0.010

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L514598-6	L514598-7	L514598-8	L514598-9	L514598-10
Grouping Analyte						
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	1010	918	365	76.1	671
	Conductivity (uS/cm)	2140	2110	1220	479	1270
	pH (pH)	7.69	7.19	7.46	7.87	7.90
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	278	26.6	43.1	110	304
	Sulfate (SO4) (mg/L)	1040	1260	551	118	409
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.026	0.028	<0.010	0.0060	<0.010
	Antimony (Sb)-Dissolved (mg/L)	<0.0025	0.0097	<0.0010	0.00429	<0.0010
	Arsenic (As)-Dissolved (mg/L)	<0.0025	0.0030	<0.0010	0.00148	0.0013
	Barium (Ba)-Dissolved (mg/L)	0.025	<0.020	<0.020	<0.020	0.027
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0020	<0.0010	<0.0020
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	<0.000085	<0.000085	<0.000034	<0.000017	<0.000034
	Calcium (Ca)-Dissolved (mg/L)	279	353	141	17.3	179
	Chromium (Cr)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0020	<0.0010	<0.0020
	Cobalt (Co)-Dissolved (mg/L)	<0.0015	0.0031	0.00361	0.00145	<0.00060
	Copper (Cu)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0020	<0.0010	<0.0020
	Iron (Fe)-Dissolved (mg/L)	48.1	1.56	0.561	<0.030	6.36
	Lead (Pb)-Dissolved (mg/L)	0.0148	0.0224	<0.0010	0.00563	<0.0010
	Lithium (Li)-Dissolved (mg/L)	<0.025	0.049	0.013	0.0146	0.038
	Magnesium (Mg)-Dissolved (mg/L)	76.0	8.71	3.13	7.99	54.1
	Manganese (Mn)-Dissolved (mg/L)	6.78	0.445	0.297	0.0362	0.388
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0050	0.0060	0.0295	0.0339	<0.0020
	Nickel (Ni)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0020	<0.0010	<0.0020
	Potassium (K)-Dissolved (mg/L)	13.1	8.7	3.3	9.5	3.0
	Selenium (Se)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0020	<0.0010	<0.0020
	Silver (Ag)-Dissolved (mg/L)	<0.00010	<0.00010	<0.000040	<0.000020	<0.000040
	Sodium (Na)-Dissolved (mg/L)	109	133	127	58.0	42.4
	Thallium (Tl)-Dissolved (mg/L)	<0.0010	<0.0010	<0.00040	<0.00020	<0.00040
	Tin (Sn)-Dissolved (mg/L)	<0.0025	<0.0025	<0.0010	<0.00050	<0.0010
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.0010	<0.0010	<0.00040	<0.00020	0.00183
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	<0.025	<0.025	<0.010	0.0082	<0.0050

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L514598-11	L514598-12	L514598-13	L514598-14	L514598-15
		Description					
		Sampled Date	29-MAY-07	29-MAY-07	29-MAY-07	29-MAY-07	29-MAY-07
		Sampled Time					
		Client ID	P03-09-02	P03-09-03	P03-09-04	P03-09-05	P03-09-06
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		635	536	556	525	621
	Conductivity (uS/cm)		1240	1070	1080	1080	1200
	pH (pH)		7.89	8.07	8.00	7.98	8.01
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)		298	255	261	254	278
	Sulfate (SO4) (mg/L)		372	367	372	365	417
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		0.035	<0.010	<0.010	<0.010	0.023
	Antimony (Sb)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Arsenic (As)-Dissolved (mg/L)		0.0013	<0.0010	<0.0010	<0.0010	<0.0010
	Barium (Ba)-Dissolved (mg/L)		0.026	0.030	0.028	0.028	0.045
	Beryllium (Be)-Dissolved (mg/L)		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Boron (B)-Dissolved (mg/L)		<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)		<0.000034	0.000072	0.000206	0.000050	0.000249
	Calcium (Ca)-Dissolved (mg/L)		170	162	169	159	188
	Chromium (Cr)-Dissolved (mg/L)		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Cobalt (Co)-Dissolved (mg/L)		<0.00060	0.00534	0.00329	0.00446	0.00116
	Copper (Cu)-Dissolved (mg/L)		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Iron (Fe)-Dissolved (mg/L)		6.21	<0.030	<0.030	<0.030	0.031
	Lead (Pb)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Lithium (Li)-Dissolved (mg/L)		0.036	<0.010	0.011	<0.010	0.015
	Magnesium (Mg)-Dissolved (mg/L)		51.0	32.0	32.3	30.8	36.7
	Manganese (Mn)-Dissolved (mg/L)		0.387	6.25	5.66	6.06	6.48
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Nickel (Ni)-Dissolved (mg/L)		<0.0020	0.0104	0.0096	0.0108	0.0088
	Potassium (K)-Dissolved (mg/L)		2.9	3.1	3.2	3.1	3.3
	Selenium (Se)-Dissolved (mg/L)		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Silver (Ag)-Dissolved (mg/L)		<0.000040	<0.000040	<0.000040	<0.000040	<0.000040
	Sodium (Na)-Dissolved (mg/L)		41.0	23.0	24.5	22.6	29.0
	Thallium (Tl)-Dissolved (mg/L)		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
	Tin (Sn)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)		0.00186	0.00732	0.00657	0.00696	0.00584
	Vanadium (V)-Dissolved (mg/L)		<0.030	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L514598-16	L514598-17	L514598-18	L514598-19	
		Description					
		Sampled Date	29-MAY-07	29-MAY-07	29-MAY-07	29-MAY-07	
		Sampled Time					
		Client ID	P03-09-07	P03-09-08	P03-09-09	P05-01-06	
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		614	600	650	1100	
	Conductivity (uS/cm)		1240	1240	1240	1960	
	pH (pH)		8.28	8.09	7.95	7.79	
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)		274	277	271	273	
	Sulfate (SO4) (mg/L)		480	467	459	1000	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.025	
	Antimony (Sb)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	<0.0025	
	Arsenic (As)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	0.0027	
	Barium (Ba)-Dissolved (mg/L)		0.039	0.035	0.039	0.020	
	Beryllium (Be)-Dissolved (mg/L)		<0.0020	<0.0020	<0.0020	<0.0050	
	Boron (B)-Dissolved (mg/L)		<0.10	<0.10	<0.10	<0.10	
	Cadmium (Cd)-Dissolved (mg/L)		0.000244	0.000105	0.000189	<0.000085	
	Calcium (Ca)-Dissolved (mg/L)		188	184	200	329	
	Chromium (Cr)-Dissolved (mg/L)		<0.0020	<0.0020	<0.0020	<0.0050	
	Cobalt (Co)-Dissolved (mg/L)		0.00146	0.00284	0.00275	0.0104	
	Copper (Cu)-Dissolved (mg/L)		<0.0020	<0.0020	<0.0020	<0.0050	
	Iron (Fe)-Dissolved (mg/L)		<0.030	0.477	0.069	3.80	
	Lead (Pb)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	<0.0025	
	Lithium (Li)-Dissolved (mg/L)		0.013	0.013	0.013	<0.025	
	Magnesium (Mg)-Dissolved (mg/L)		34.9	34.0	36.8	68.4	
	Manganese (Mn)-Dissolved (mg/L)		7.56	7.73	7.45	17.5	
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	
	Molybdenum (Mo)-Dissolved (mg/L)		<0.0020	<0.0020	<0.0020	<0.0050	
	Nickel (Ni)-Dissolved (mg/L)		0.0106	0.0094	0.0113	0.0095	
	Potassium (K)-Dissolved (mg/L)		3.2	3.0	3.3	5.7	
	Selenium (Se)-Dissolved (mg/L)		<0.0020	<0.0020	<0.0020	<0.0050	
	Silver (Ag)-Dissolved (mg/L)		<0.000040	<0.000040	<0.000040	<0.00010	
	Sodium (Na)-Dissolved (mg/L)		27.5	25.9	28.7	34.7	
	Thallium (Tl)-Dissolved (mg/L)		<0.00040	<0.00040	<0.00040	<0.0010	
	Tin (Sn)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	<0.0025	
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	
	Uranium (U)-Dissolved (mg/L)		0.00656	0.00660	0.00639	0.0043	
	Vanadium (V)-Dissolved (mg/L)		<0.030	<0.030	<0.030	<0.030	
	Zinc (Zn)-Dissolved (mg/L)		<0.0050	<0.0050	<0.0050	<0.025	

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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ALK-COL-VA Water Alkalinity by Colourimetric (Automated) APHA 310.2

This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.

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.

HARDNESS-CALC-VA Water Hardness APHA 2340B

Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.

HG-DIS-CCME-CVAFS-VA Water Diss. Mercury in Water by CVAFS (CCME) EPA 3005A/245.7

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 filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).

MET-DIS-CCME-ICP-VA Water Diss. Metals in Water by ICP-OES (CCME) 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 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 - optical emission spectrophotometry (EPA Method 6010B).

MET-DIS-CCME-MS-VA Water Diss. Metals in Water by ICP-MS (CCME) 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).

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

SO4-TUR-VA Water Sulphate(SO4) by Turbidity APHA 4500-SO4 "Sulphate"

This analysis is carried out using procedures adapted from APHA Method 4500-SO4 "Sulphate". Sulphate is determined using the turbidimetric method.

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
----------------------------	---------------------	----------------------------	---------------------

VA ALS LABORATORY GROUP -
VANCOUVER, BC, CANADA

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
---------------	--------	------------------	---------------------------------------

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in enviromental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

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.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.



REPORT TO:		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: Gardner Lee Limited		STANDARD ☒ OTHER ☐		☒ REGULAR SERVICE (DEFAULT)	
CONTACT: Jennifer Funston		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		☐ RUSH SERVICE (2-3 DAYS)	
ADDRESS: 2251 2nd Avenue		EMAIL 1: jfunston@gardnerlee.com		☐ PRIORITY SERVICE (1 DAY or ASAP)	
Whitehorse, Yukon, Y1A 5W1		EMAIL 2:		☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
PHONE: 867.633.6474 FAX: 867.633.6321		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST	
INVOICE TO: SAME AS REPORT ? ☒ YES / NO		CLIENT / PROJECT INFORMATION: Bulk / Tase mine			
COMPANY: Gardner Lee Limited		JOB #: 60661			
CONTACT: Jennifer Funston		PO / AFE:			
ADDRESS: 2251 2nd Avenue		Legal Site Description:			
Whitehorse, Yukon Y1A 5W1		QUOTE #:			
PHONE: 867.633.6474 FAX: 867.633.6321		SAMPLER (Initials):			
Lab Work Order # 1514598		DATE		TIME	
SAMPLE IDENTIFICATION (This description will appear on the report)		SAMPLE TYPE		HAZARDOUS ?	
PO3-08-01		May 29, 2007		HIGHLY CONTAMINATED ?	
PO3-08-02 ~~03~~ 01-5				NUMBER OF CONTAINERS	
PO3-08-03					
PO3-08-04					
PO3-08-05					
PO3-08-06					
PO3-08-07					
PO3-08-08					
GUIDELINES / REGULATIONS		SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS			

CONE Aquatic Life Metals

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 reverse page of the white report copy.

RELINQUISHED BY: *Jen Funston* DATE & TIME: *Aug 3, 2007* RECEIVED BY: *AK* DATE & TIME: *June 15, 2006* TEMPERATURE: *12°C* SAMPLE CONDITION (lab use only) (if no provide details) *ice pack* SAMPLES RECEIVED IN GOOD CONDITION ? ☒ YES ☐ NO



Environmental Division

REPORT TO:

REPORT FORMAT / DISTRIBUTION

SERVICE REQUESTED

COMPANY: Gardner Lee Limited

STANDARD ☒ OTHER ☐

REGULAR SERVICE (DEFAULT)

CONTACT: Jennifer Furston

PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐

RUSH SERVICE (2-3 DAYS)

ADDRESS: 2251 2nd Avenue

EMAIL 1: jfurston@gardnerlee.com

PRIORITY SERVICE (1 DAY or ASAP)

Whitehorse, Yukon, Y1A 5W1

EMAIL 2:

EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS

PHONE: 867.633.6474 FAX: 867.633.6321

INDICATE BOTTLES: FILTERED / PRESERVED (F/P)

ANALYSIS REQUEST

INVOICE TO: SAME AS REPORT? ☒ YES ☐ NO

CLIENT / PROJECT INFORMATION: Golf Course Maintenance

COMPANY:

JOB #: 60601

CONTACT:

PO / AFE:

ADDRESS:

Legal Site Description:

PHONE:

QUOTE #:

FAX:

Lab Work Order # LS14598

SAMPLER (Initials):

SAMPLE IDENTIFICATION

DATE

TIME

SAMPLE TYPE

Sample # (This description will appear on the report)

DATE

TIME

SAMPLE TYPE

P03-09-01

May 29, 2007

GV

General Chemistry
pH, cond, hardness,
total alkalinity,
sulfate

Dissolved Metals

HAZARDOUS ?

HIGHLY CONTAMINATED ?

NUMBER OF CONTAINERS

P03-09-02

May 29, 2007

GV

General Chemistry
pH, cond, hardness,
total alkalinity,
sulfate

Dissolved Metals

HAZARDOUS ?

HIGHLY CONTAMINATED ?

NUMBER OF CONTAINERS

P03-09-03

May 29, 2007

GV

General Chemistry
pH, cond, hardness,
total alkalinity,
sulfate

Dissolved Metals

HAZARDOUS ?

HIGHLY CONTAMINATED ?

NUMBER OF CONTAINERS

P03-09-04

May 29, 2007

GV

General Chemistry
pH, cond, hardness,
total alkalinity,
sulfate

Dissolved Metals

HAZARDOUS ?

HIGHLY CONTAMINATED ?

NUMBER OF CONTAINERS

P03-09-05

May 29, 2007

GV

General Chemistry
pH, cond, hardness,
total alkalinity,
sulfate

Dissolved Metals

HAZARDOUS ?

HIGHLY CONTAMINATED ?

NUMBER OF CONTAINERS

P03-09-06

May 29, 2007

GV

General Chemistry
pH, cond, hardness,
total alkalinity,
sulfate

Dissolved Metals

HAZARDOUS ?

HIGHLY CONTAMINATED ?

NUMBER OF CONTAINERS

P03-09-07

May 29, 2007

GV

General Chemistry
pH, cond, hardness,
total alkalinity,
sulfate

Dissolved Metals

HAZARDOUS ?

HIGHLY CONTAMINATED ?

NUMBER OF CONTAINERS

P03-09-08

May 29, 2007

GV

General Chemistry
pH, cond, hardness,
total alkalinity,
sulfate

Dissolved Metals

HAZARDOUS ?

HIGHLY CONTAMINATED ?

NUMBER OF CONTAINERS

P03-09-09

May 29, 2007

GV

General Chemistry
pH, cond, hardness,
total alkalinity,
sulfate

Dissolved Metals

HAZARDOUS ?

HIGHLY CONTAMINATED ?

NUMBER OF CONTAINERS

P05-01-06

May 29, 2007

GV

General Chemistry
pH, cond, hardness,
total alkalinity,
sulfate

Dissolved Metals

HAZARDOUS ?

HIGHLY CONTAMINATED ?

NUMBER OF CONTAINERS

GUIDELINES / REGULATIONS

SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS

CME Hydraulic Life Metals

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 reverse page of the white report copy.

RELINQUISHED BY:

DATE & TIME: June 3, 2007

RECEIVED BY: AG

DATE & TIME: June 5, 2006

SAMPLE CONDITION (lab use only)

SAMPLES RECEIVED IN GOOD CONDITION (YES) NO

RELINQUISHED BY:

DATE & TIME:

RECEIVED BY:

DATE & TIME:

TEMPERATURE

(if no provide details)

ice pak

Project	60601
Report To	JEN FUNSTON, GARTNER LEE LTD.
ALS File No.	L514598
Date Received	06-Jun-07
Date	30-Nov-07

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Anions and Nutrients											
L514598-5	Water	WG610235-24	Alkalinity, Total (as CaCO3)	265	296	mg/L	11	20	-	-	-
Dissolved Metals											
L514598-6	Water	WG609123-4	Aluminum (Al)-Dissolved	0.026	0.027	mg/L	-	-	0.001	0.1	J
L514598-6	Water	WG609123-4	Antimony (Sb)-Dissolved	<0.0025	<0.0025	mg/L	N/A	20	-	-	RPD-NA
L514598-6	Water	WG609123-4	Arsenic (As)-Dissolved	<0.0025	<0.0025	mg/L	N/A	20	-	-	RPD-NA
L514598-6	Water	WG609123-4	Barium (Ba)-Dissolved	0.025	0.026	mg/L	-	-	0.001	0.08	J
L514598-6	Water	WG609123-4	Beryllium (Be)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L514598-6	Water	WG609123-4	Boron (B)-Dissolved	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
L514598-6	Water	WG609123-4	Cadmium (Cd)-Dissolved	<0.000085	<0.000050	mg/L	N/A	20	-	-	RPD-NA
L514598-6	Water	WG609123-4	Calcium (Ca)-Dissolved	279	278	mg/L	0.23	20	-	-	-
L514598-6	Water	WG609123-4	Chromium (Cr)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L514598-6	Water	WG609123-4	Cobalt (Co)-Dissolved	<0.0015	<0.0015	mg/L	N/A	20	-	-	RPD-NA
L514598-6	Water	WG609123-4	Copper (Cu)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L514598-6	Water	WG609123-4	Iron (Fe)-Dissolved	48.1	51.0	mg/L	5.9	20	-	-	-
L514598-6	Water	WG609123-4	Lead (Pb)-Dissolved	0.0148	0.0147	mg/L	-	-	0.0001	0.01	J
L514598-6	Water	WG609123-4	Lithium (Li)-Dissolved	<0.025	<0.025	mg/L	N/A	20	-	-	RPD-NA
L514598-6	Water	WG609123-4	Magnesium (Mg)-Dissolved	76.0	75.6	mg/L	0.56	20	-	-	-
L514598-6	Water	WG609123-4	Manganese (Mn)-Dissolved	6.78	6.95	mg/L	2.5	20	-	-	-
L514598-6	Water	WG609123-4	Mercury (Hg)-Dissolved	<0.000020	<0.000020	mg/L	N/A	20	-	-	RPD-NA
L514598-6	Water	WG609123-4	Molybdenum (Mo)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L514598-6	Water	WG609123-4	Nickel (Ni)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L514598-6	Water	WG609123-4	Potassium (K)-Dissolved	13.1	13.8	mg/L	-	-	0.6	8	J
L514598-6	Water	WG609123-4	Selenium (Se)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L514598-6	Water	WG609123-4	Silver (Ag)-Dissolved	<0.00010	<0.00010	mg/L	N/A	20	-	-	RPD-NA
L514598-6	Water	WG609123-4	Sodium (Na)-Dissolved	109	113	mg/L	4.2	20	-	-	-
L514598-6	Water	WG609123-4	Thallium (Tl)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L514598-6	Water	WG609123-4	Tin (Sn)-Dissolved	<0.0025	<0.0025	mg/L	N/A	20	-	-	RPD-NA
L514598-6	Water	WG609123-4	Titanium (Ti)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L514598-6	Water	WG609123-4	Uranium (U)-Dissolved	0.0010	0.0010	mg/L	-	-	0.0000	0.004	J
L514598-6	Water	WG609123-4	Vanadium (V)-Dissolved	<0.030	<0.030	mg/L	N/A	20	-	-	RPD-NA
L514598-6	Water	WG609123-4	Zinc (Zn)-Dissolved	<0.025	<0.025	mg/L	N/A	20	-	-	RPD-NA

Physical Tests

L514598-7	Water	WG609823-3	Conductivity	2110	2120	uS/cm	0.47	20	-	-	-
L514598-7	Water	WG609823-3	pH	7.19	7.15	pH	0.60	20	-	-	-

Anions and Nutrients

L514598-10	Water	WG610235-25	Alkalinity, Total (as CaCO3)	304	306	mg/L	0.63	20	-	-	-
L514598-11	Water	WG613929-6	Sulfate (SO4)	372	364	mg/L	2.1	20	-	-	-

Dissolved Metals

L514598-16	Water	WG609123-5	Aluminum (Al)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L514598-16	Water	WG609123-5	Antimony (Sb)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L514598-16	Water	WG609123-5	Arsenic (As)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L514598-16	Water	WG609123-5	Barium (Ba)-Dissolved	0.039	0.040	mg/L	-	-	0.001	0.08	J
L514598-16	Water	WG609123-5	Beryllium (Be)-Dissolved	<0.0020	<0.0020	mg/L	N/A	20	-	-	RPD-NA
L514598-16	Water	WG609123-5	Boron (B)-Dissolved	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
L514598-16	Water	WG609123-5	Cadmium (Cd)-Dissolved	0.000244	0.000286	mg/L	16	20	-	-	-
L514598-16	Water	WG609123-5	Calcium (Ca)-Dissolved	188	185	mg/L	2.0	20	-	-	-
L514598-16	Water	WG609123-5	Chromium (Cr)-Dissolved	<0.0020	<0.0020	mg/L	N/A	20	-	-	RPD-NA
L514598-16	Water	WG609123-5	Cobalt (Co)-Dissolved	0.00146	0.00148	mg/L	-	-	0.00001	0.0024	J
L514598-16	Water	WG609123-5	Copper (Cu)-Dissolved	<0.0020	<0.0020	mg/L	N/A	20	-	-	RPD-NA
L514598-16	Water	WG609123-5	Iron (Fe)-Dissolved	<0.030	<0.030	mg/L	N/A	20	-	-	RPD-NA
L514598-16	Water	WG609123-5	Lead (Pb)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L514598-16	Water	WG609123-5	Lithium (Li)-Dissolved	0.013	0.011	mg/L	-	-	0.002	0.04	J
L514598-16	Water	WG609123-5	Magnesium (Mg)-Dissolved	34.9	34.4	mg/L	1.7	20	-	-	-
L514598-16	Water	WG609123-5	Manganese (Mn)-Dissolved	7.56	7.62	mg/L	0.79	20	-	-	-
L514598-16	Water	WG609123-5	Mercury (Hg)-Dissolved	<0.000020	<0.000020	mg/L	N/A	20	-	-	RPD-NA
L514598-16	Water	WG609123-5	Molybdenum (Mo)-Dissolved	<0.0020	<0.0020	mg/L	N/A	20	-	-	RPD-NA
L514598-16	Water	WG609123-5	Nickel (Ni)-Dissolved	0.0106	0.0106	mg/L	-	-	0.0000	0.008	J
L514598-16	Water	WG609123-5	Potassium (K)-Dissolved	3.2	3.3	mg/L	-	-	0.1	8	J
L514598-16	Water	WG609123-5	Selenium (Se)-Dissolved	<0.0020	<0.0020	mg/L	N/A	20	-	-	RPD-NA
L514598-16	Water	WG609123-5	Silver (Ag)-Dissolved	<0.000040	<0.000040	mg/L	N/A	20	-	-	RPD-NA
L514598-16	Water	WG609123-5	Sodium (Na)-Dissolved	27.5	28.1	mg/L	2.3	20	-	-	-
L514598-16	Water	WG609123-5	Thallium (Tl)-Dissolved	<0.00040	<0.00040	mg/L	N/A	20	-	-	RPD-NA
L514598-16	Water	WG609123-5	Tin (Sn)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L514598-16	Water	WG609123-5	Titanium (Ti)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L514598-16	Water	WG609123-5	Uranium (U)-Dissolved	0.00656	0.00663	mg/L	0.95	20	-	-	-
L514598-16	Water	WG609123-5	Vanadium (V)-Dissolved	<0.030	<0.030	mg/L	N/A	20	-	-	RPD-NA
L514598-16	Water	WG609123-5	Zinc (Zn)-Dissolved	<0.0050	<0.010	mg/L	N/A	20	-	-	RPD-NA

Physical Tests

L514598-17	Water	WG609823-4	Conductivity	1240	1240	uS/cm	0.080	20	-	-	-
L514598-17	Water	WG609823-4	pH	8.09	8.08	pH	0.16	20	-	-	-



Environmental Division

ANALYTICAL REPORT

GARTNER LEE LTD.

ATTN: JEN FUNSTON

2251 2ND AVENUE

WHITEHORSE YT Y1A 5W1

Reported On: 15-DEC-07 12:28 AM

Revision: 6

Lab Work Order #: L538657

Date Received: 07-AUG-07

Project P.O. #: FARO/AMP

Job Reference: 70546

Legal Site Desc: ANVIL RANGE MINE

CofC Numbers: A014920, A014922

Other Information:

Comments: This revision of the report replaces and supersedes all previous revisions.
The Sulfate results for sample L538657-8 have been changed/corrected due to the manual data entry error.

ADDITIONAL 20-NOV-07 17:31

This report version includes lowered reporting detection limits for zinc as requested by Miss Jennifer Funston.

Please note that certain Metals detection limits had to be increased due to the interferences encountered during the analysis.



Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

NATASHA MARKOVIC-MIROVIC

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L538657-1	L538657-2	L538657-3	L538657-4	L538657-5
		01-AUG-07	01-AUG-07	01-AUG-07	01-AUG-07	02-AUG-07
		X24A-96	X24D-96	X25A-96	X25B-96	P03-04-02
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	1870	1990	512	549	1130
	Conductivity (uS/cm)	2680	3230	1020	1140	1840
	pH (pH)	7.46	7.48	7.98	8.10	7.16
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	353	395	263	274	120
	Sulfate (SO4) (mg/L)	1430	1840	301	348	1010
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.267	<0.050	<0.010	<0.010	0.107
	Antimony (Sb)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0010	<0.0010	<0.0050
	Arsenic (As)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0010	<0.0010	<0.0050
	Barium (Ba)-Dissolved (mg/L)	<0.020	<0.020	0.026	<0.020	<0.020
	Beryllium (Be)-Dissolved (mg/L)	<0.010	<0.010	<0.0020	<0.0020	<0.010
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.00063	0.00291	0.000148	<0.000034	0.00312
	Calcium (Ca)-Dissolved (mg/L)	540	583	149	172	328
	Chromium (Cr)-Dissolved (mg/L)	<0.010	<0.010	<0.0020	<0.0020	<0.010
	Cobalt (Co)-Dissolved (mg/L)	0.0550	0.0562	0.00294	<0.00060	0.131
	Copper (Cu)-Dissolved (mg/L)	<0.010	<0.010	<0.0020	<0.0020	<0.010
	Iron (Fe)-Dissolved (mg/L)	1.25	<0.030	<0.030	0.643	0.086
	Lead (Pb)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0010	<0.0010	<0.0050
	Lithium (Li)-Dissolved (mg/L)	<0.050	<0.050	<0.010	<0.010	<0.050
	Magnesium (Mg)-Dissolved (mg/L)	127	131	34.2	28.8	74.5
	Manganese (Mn)-Dissolved (mg/L)	39.2	52.6	5.46	0.162	38.1
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.010	<0.010	<0.0020	<0.0020	<0.010
	Nickel (Ni)-Dissolved (mg/L)	0.051	0.221	0.0043	<0.0020	0.203
	Potassium (K)-Dissolved (mg/L)	6.7	6.4	3.5	2.7	4.0
	Selenium (Se)-Dissolved (mg/L)	<0.010	<0.010	<0.0020	<0.0020	<0.010
	Silver (Ag)-Dissolved (mg/L)	<0.00020	<0.00020	<0.000040	<0.000040	<0.00020
	Sodium (Na)-Dissolved (mg/L)	36.5	43.5	23.9	45.0	28.7
	Thallium (Tl)-Dissolved (mg/L)	<0.0020	<0.0020	<0.00040	<0.00040	<0.0020
	Tin (Sn)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0010	<0.0010	<0.0050
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.0091	0.0057	0.00876	0.00536	<0.0020
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	0.0165	0.0697	0.0064	<0.0050	0.0643

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L538657-6	L538657-7	L538657-8	L538657-9	L538657-10
		Description					
		Sampled Date	02-AUG-07	02-AUG-07	02-AUG-07	02-AUG-07	02-AUG-07
		Sampled Time					
		Client ID	P03-04-02-S	P03-04-04	P03-04-06	P03-08-02	P03-08-03
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		1100	538	2000	292	351
	Conductivity (uS/cm)		1830	1220	5530	561	747
	pH (pH)		7.09	7.88	5.89	7.91	8.00
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)		125	222	8.6	246	284
	Sulfate (SO4) (mg/L)		1000	432	4280	68.9	144
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		<0.050	<0.010	<0.10	0.0051	0.0056
	Antimony (Sb)-Dissolved (mg/L)		<0.0050	<0.0010	<0.010	<0.00050	<0.00050
	Arsenic (As)-Dissolved (mg/L)		<0.0050	0.0055	0.018	<0.00050	<0.00050
	Barium (Ba)-Dissolved (mg/L)		<0.020	0.046	<0.040	0.176	0.100
	Beryllium (Be)-Dissolved (mg/L)		<0.010	<0.0020	<0.020	<0.0010	<0.0010
	Boron (B)-Dissolved (mg/L)		<0.10	<0.10	<0.20	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)		0.00306	<0.000034	<0.00034	0.000187	0.000288
	Calcium (Ca)-Dissolved (mg/L)		323	176	573	81.2	101
	Chromium (Cr)-Dissolved (mg/L)		<0.010	<0.0020	<0.020	<0.0010	<0.0010
	Cobalt (Co)-Dissolved (mg/L)		0.133	0.00319	0.0449	0.00050	<0.00030
	Copper (Cu)-Dissolved (mg/L)		<0.010	<0.0020	<0.020	0.0031	0.0039
	Iron (Fe)-Dissolved (mg/L)		0.086	5.50	1650	<0.030	0.104
	Lead (Pb)-Dissolved (mg/L)		<0.0050	<0.0010	<0.010	<0.00050	<0.00050
	Lithium (Li)-Dissolved (mg/L)		<0.050	<0.010	<0.10	<0.0050	<0.0050
	Magnesium (Mg)-Dissolved (mg/L)		71.5	24.2	138	21.6	24.3
	Manganese (Mn)-Dissolved (mg/L)		38.7	4.47	17.4	2.82	5.87
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	0.000029	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)		<0.010	<0.0020	<0.020	<0.0010	0.0041
	Nickel (Ni)-Dissolved (mg/L)		0.205	<0.0020	0.106	0.0166	0.0226
	Potassium (K)-Dissolved (mg/L)		3.8	2.9	11.5	<2.0	<2.0
	Selenium (Se)-Dissolved (mg/L)		<0.010	<0.0020	<0.020	<0.0010	<0.0010
	Silver (Ag)-Dissolved (mg/L)		<0.00020	<0.000040	<0.00040	<0.000020	<0.000020
	Sodium (Na)-Dissolved (mg/L)		27.8	91.5	135	8.8	10.9
	Thallium (Tl)-Dissolved (mg/L)		<0.0020	<0.00040	<0.0040	<0.00020	<0.00020
	Tin (Sn)-Dissolved (mg/L)		<0.0050	<0.0010	<0.010	<0.00050	<0.00050
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.020	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)		<0.0020	0.00238	<0.0040	0.00259	0.00391
	Vanadium (V)-Dissolved (mg/L)		<0.030	<0.030	<0.060	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)		0.0648	0.0081	5.42	0.0084	0.0060

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L538657-11	L538657-12	L538657-13	L538657-14	L538657-15
		Description					
		Sampled Date	02-AUG-07	02-AUG-07	02-AUG-07	02-AUG-07	02-AUG-07
		Sampled Time					
		Client ID	P03-08-03-S	P03-08-04	P03-08-05	P03-09-02	P03-09-04
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO ₃) (mg/L)		354	533	944	619	673
	Conductivity (uS/cm)		747	1090	2150	1280	1250
	pH (pH)		8.03	7.98	7.74	7.89	7.93
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)		285	285	285	332	262
	Sulfate (SO ₄) (mg/L)		143	330	951	391	444
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		<0.010	0.017	0.028	<0.010	<0.010
	Antimony (Sb)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0025	<0.0010	<0.0010
	Arsenic (As)-Dissolved (mg/L)		<0.0010	0.0010	<0.0025	0.0015	<0.0010
	Barium (Ba)-Dissolved (mg/L)		0.098	0.025	<0.020	0.026	0.037
	Beryllium (Be)-Dissolved (mg/L)		<0.0020	<0.0020	<0.0050	<0.0020	<0.0020
	Boron (B)-Dissolved (mg/L)		<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)		0.000316	<0.000034	<0.000085	<0.000034	0.000340
	Calcium (Ca)-Dissolved (mg/L)		102	150	268	163	201
	Chromium (Cr)-Dissolved (mg/L)		<0.0020	<0.0020	<0.0050	<0.0020	<0.0020
	Cobalt (Co)-Dissolved (mg/L)		<0.00060	<0.00060	<0.0015	<0.00060	0.00317
	Copper (Cu)-Dissolved (mg/L)		0.0043	<0.0020	<0.0050	<0.0020	<0.0020
	Iron (Fe)-Dissolved (mg/L)		0.076	26.6	52.9	6.22	<0.030
	Lead (Pb)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0025	<0.0010	<0.0010
	Lithium (Li)-Dissolved (mg/L)		<0.010	<0.010	<0.025	0.034	0.011
	Magnesium (Mg)-Dissolved (mg/L)		24.0	38.4	66.8	51.1	41.7
	Manganese (Mn)-Dissolved (mg/L)		6.20	2.23	5.95	0.333	5.49
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)		0.0044	0.0089	<0.0050	<0.0020	<0.0020
	Nickel (Ni)-Dissolved (mg/L)		0.0244	<0.0020	<0.0050	<0.0020	0.0080
	Potassium (K)-Dissolved (mg/L)		<2.0	2.5	12.9	3.2	4.2
	Selenium (Se)-Dissolved (mg/L)		<0.0020	<0.0020	<0.0050	<0.0020	<0.0020
	Silver (Ag)-Dissolved (mg/L)		<0.000040	<0.000040	<0.00010	<0.000040	<0.000040
	Sodium (Na)-Dissolved (mg/L)		10.8	32.3	117	46.0	32.8
	Thallium (Tl)-Dissolved (mg/L)		<0.00040	<0.00040	<0.0010	<0.00040	<0.00040
	Tin (Sn)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0025	<0.0010	<0.0010
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)		0.00410	0.00604	<0.0010	0.00159	0.00622
	Vanadium (V)-Dissolved (mg/L)		<0.030	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)		0.0098	<0.0050	<0.0050	<0.0050	0.0055

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID			
		Description			
		Sampled Date			
		Sampled Time			
		Client ID			
Grouping	Analyte				
WATER					
Physical Tests	Hardness (as CaCO ₃) (mg/L)	636	640	681	
	Conductivity (uS/cm)	1190	1290	1290	
	pH (pH)	7.93	7.90	7.92	
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)	271	268	270	
	Sulfate (SO ₄) (mg/L)	388	473	459	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.010	<0.010	0.090	
	Antimony (Sb)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	
	Arsenic (As)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	
	Barium (Ba)-Dissolved (mg/L)	0.048	0.043	0.044	
	Beryllium (Be)-Dissolved (mg/L)	<0.0020	<0.0020	<0.0020	
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	
	Cadmium (Cd)-Dissolved (mg/L)	0.000176	0.000312	0.000281	
	Calcium (Ca)-Dissolved (mg/L)	189	194	204	
	Chromium (Cr)-Dissolved (mg/L)	<0.0020	<0.0020	<0.0020	
	Cobalt (Co)-Dissolved (mg/L)	0.00091	0.00128	0.00234	
	Copper (Cu)-Dissolved (mg/L)	<0.0020	<0.0020	<0.0020	
	Iron (Fe)-Dissolved (mg/L)	0.033	0.031	0.075	
	Lead (Pb)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	
	Lithium (Li)-Dissolved (mg/L)	0.016	0.012	0.012	
	Magnesium (Mg)-Dissolved (mg/L)	40.1	37.8	41.5	
	Manganese (Mn)-Dissolved (mg/L)	5.36	6.69	6.52	
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0020	<0.0020	<0.0020	
	Nickel (Ni)-Dissolved (mg/L)	0.0064	0.0082	0.0084	
	Potassium (K)-Dissolved (mg/L)	3.8	3.8	4.0	
	Selenium (Se)-Dissolved (mg/L)	<0.0020	<0.0020	<0.0020	
	Silver (Ag)-Dissolved (mg/L)	<0.000040	<0.000040	<0.000040	
	Sodium (Na)-Dissolved (mg/L)	34.5	31.0	33.0	
	Thallium (Tl)-Dissolved (mg/L)	<0.00040	<0.00040	<0.00040	
	Tin (Sn)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	
	Uranium (U)-Dissolved (mg/L)	0.00489	0.00566	0.00545	
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	
	Zinc (Zn)-Dissolved (mg/L)	<0.0050	0.0071	0.0058	

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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ALK-COL-VA Water Alkalinity by Colourimetric (Automated) APHA 310.2

This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.

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.

HARDNESS-CALC-VA Water Hardness APHA 2340B

Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.

HG-DIS-CCME-CVAFS-VA Water Diss. Mercury in Water by CVAFS (CCME) EPA 3005A/245.7

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 filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).

MET-DIS-CCME-ICP-VA Water Diss. Metals in Water by ICPOES (CCME) 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 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 - optical emission spectrophotometry (EPA Method 6010B).

MET-DIS-CCME-MS-VA Water Diss. Metals in Water by ICPMS (CCME) 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).

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

SO4-TUR-VA Water Sulphate(SO4) by Turbidity APHA 4500-SO4 "Sulphate"

This analysis is carried out using procedures adapted from APHA Method 4500-SO4 "Sulphate". Sulphate is determined using the turbidimetric method.

ZN-DIS-CCME-ICP-VA Water Diss. Zinc in Water by ICPOES (CCME) 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 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 - optical emission spectrophotometry (EPA Method 6010B).

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
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VA

ALS LABORATORY GROUP -
VANCOUVER, BC, CANADA

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in enviromental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

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.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.



REPORT TO:		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: <u>Gastner Lee Limited</u>		STANDARD ☒ OTHER ☐		☒ REGULAR SERVICE (DEFAULT)	
CONTACT: <u>Ben Hurston</u>		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		☐ RUSH SERVICE (2-3 DAYS)	
ADDRESS: <u>2051 2nd Avenue</u>		EMAIL 1: <u>hurston@gastnerlee.com</u>		☐ PRIORITY SERVICE (1 DAY or ASAP)	
PHONE: <u>817.633.6474</u> FAX: <u>817.633.6321</u>		EMAIL 2:		☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
INVOICE TO: SAME AS REPORT ? ☒ YES NO		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST	
COMPANY:		CLIENT / PROJECT INFORMATION:			
CONTACT:		JOB #: <u>70546</u>			
ADDRESS:		PO / AFE: <u>FARO AMP</u>			
PHONE:		Legal Site Description: <u>Amal Range Mine</u>			
FAX:		QUOTE #:			
Lab Work Order # <u>LS38657</u>		SAMPLER (Initials):			
Sample #	SAMPLE IDENTIFICATION (This description will appear on the report)	DATE	TIME	SAMPLE TYPE	
	X24A-96	Aug. 1/07		GLW	X
	X24B-96	Aug. 1/07			X
	X25A-96	Aug. 1/07			X
	X25B-96	Aug. 1/07			X
	P03-04-02	Aug. 2/07			X
	P03-04-02-5	Aug. 2/07			X
	P03-04-04	Aug. 2/07			X
	P03-04-06	Aug. 2/07			X
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 reverse page of the white report copy.					
RELINQUISHED BY: <u>Ben Hurston</u>		DATE & TIME: <u>Aug 11:30</u>		RECEIVED BY: <u>HD 07107108</u>	
RELINQUISHED BY:		DATE & TIME:		RECEIVED BY:	
GUIDELINES / REGULATIONS		SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS			
HAZARDOUS ? HIGHLY CONTAMINATED ? NUMBER OF CONTAINERS					



REPORT TO:		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: <u>Gartner Lee Limited</u>		STANDARD ☒ OTHER ☐		☒ REGULAR SERVICE (DEFAULT)	
CONTACT: <u>Ken Funston</u>		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		☐ RUSH SERVICE (2-3 DAYS)	
ADDRESS: <u>2251 2nd Avenue</u>		EMAIL 1: <u>funston@gartnerlee.com</u>		☐ PRIORITY SERVICE (1 DAY or ASAP)	
PHONE: <u>867.633.1474</u> FAX: <u>867.633.6321</u>		EMAIL 2:		☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
INVOICE TO: SAME AS REPORT? ☒ YES / NO		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST	
COMPANY:		CLIENT / PROJECT INFORMATION:			
CONTACT:		JOB #: <u>70546</u>			
ADDRESS:		PO / AFE: <u>Faro ARP</u>			
PHONE:		Legal Site Description: <u>Anvil Range Mine</u>			
FAX:		QUOTE #:			
Lab Work Order # <u>LS38657</u>		SAMPLER (Initials):			
Sample #	SAMPLE IDENTIFICATION (This description will appear on the report)	DATE	TIME	SAMPLE TYPE	
	P03-08-02	AUG. 2/07		GLW	X
	P03-08-03	AUG. 2/07			X
	P03-08-03-5	AUG. 2/07			X
	P03-08-04	AUG. 2/07			X
	P03-08-05	AUG. 2/07			X
	P03-09-02	AUG. 2/07			X
	P03-09-04	AUG. 2/07			X
	P03-09-06	AUG. 2/07			X
	P03-09-07	AUG. 2/07			X
	P03-09-09	AUG. 2/07			X
GUIDELINES / REGULATIONS					
SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS					

CME Aquatic Life Metals

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 reverse page of the white report copy.

RELINQUISHED BY:

DATE & TIME:

RECEIVED BY:

DATE & TIME:

TEMPERATURE

SAMPLE CONDITION (lab use only)

SAMPLES RECEIVED IN GOOD CONDITION? YES / NO

RELINQUISHED BY:

DATE & TIME:

RECEIVED BY:

DATE & TIME:

15

(if no provide details)

YES / NO

Project 70546
Report To JEN FUNSTON, GARTNER LEE LTD.
ALS File No. L538657
Date Received 07-Aug-07
Date 15-Dec-07

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Anions and Nutrients											
L538657-10	Water	WG642365-3	Alkalinity, Total (as CaCO ₃)	284	284	mg/L	0.0098	20	-	-	-
L538657-13	Water	WG641554-12	Sulfate (SO ₄)	951	958	mg/L	0.67	20	-	-	-
Dissolved Metals											
L538657-16	Water	WG639290-10	Aluminum (Al)-Dissolvec	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L538657-16	Water	WG639290-10	Antimony (Sb)-Dissolvec	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L538657-16	Water	WG639290-10	Arsenic (As)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L538657-16	Water	WG639290-10	Barium (Ba)-Dissolvec	0.048	0.046	mg/L	-	-	0.001	0.08	J
L538657-16	Water	WG639290-10	Beryllium (Be)-Dissolvec	<0.0020	<0.0020	mg/L	N/A	20	-	-	RPD-NA
L538657-16	Water	WG639290-10	Boron (B)-Dissolvec	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
L538657-16	Water	WG639290-10	Cadmium (Cd)-Dissolvec	0.000176	0.000191	mg/L	-	-	0.000015	0.00008	J
L538657-16	Water	WG639290-10	Calcium (Ca)-Dissolvec	189	186	mg/L	1.7	20	-	-	-
L538657-16	Water	WG639290-10	Chromium (Cr)-Dissolvec	<0.0020	<0.0020	mg/L	N/A	20	-	-	RPD-NA
L538657-16	Water	WG639290-10	Cobalt (Co)-Dissolvec	0.00091	0.00094	mg/L	-	-	0.00003	0.0024	J
L538657-16	Water	WG639290-10	Copper (Cu)-Dissolvec	<0.0020	<0.0020	mg/L	N/A	20	-	-	RPD-NA
L538657-16	Water	WG639290-10	Iron (Fe)-Dissolvec	0.033	0.032	mg/L	-	-	0.001	0.12	J
L538657-16	Water	WG639290-10	Lead (Pb)-Dissolvec	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L538657-16	Water	WG639290-10	Lithium (Li)-Dissolvec	0.016	0.016	mg/L	-	-	0.000	0.04	J
L538657-16	Water	WG639290-10	Magnesium (Mg)-Dissolvec	40.1	38.4	mg/L	4.2	20	-	-	-
L538657-16	Water	WG639290-10	Manganese (Mn)-Dissolvec	5.36	5.47	mg/L	2.0	20	-	-	-
L538657-16	Water	WG639290-10	Mercury (Hg)-Dissolvec	<0.000020	<0.000020	mg/L	N/A	20	-	-	RPD-NA
L538657-16	Water	WG639290-10	Molybdenum (Mo)-Dissolvec	<0.0020	<0.0020	mg/L	N/A	20	-	-	RPD-NA
L538657-16	Water	WG639290-10	Nickel (Ni)-Dissolved	0.0064	0.0066	mg/L	-	-	0.0002	0.008	J
L538657-16	Water	WG639290-10	Potassium (K)-Dissolvec	3.8	3.8	mg/L	-	-	0.0	8	J
L538657-16	Water	WG639290-10	Selenium (Se)-Dissolvec	<0.0020	<0.0020	mg/L	N/A	20	-	-	RPD-NA
L538657-16	Water	WG639290-10	Silver (Ag)-Dissolvec	<0.000040	<0.000040	mg/L	N/A	20	-	-	RPD-NA
L538657-16	Water	WG639290-10	Sodium (Na)-Dissolvec	34.5	33.5	mg/L	2.8	20	-	-	-
L538657-16	Water	WG639290-10	Thallium (Tl)-Dissolvec	<0.00040	<0.00040	mg/L	N/A	20	-	-	RPD-NA
L538657-16	Water	WG639290-10	Tin (Sn)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L538657-16	Water	WG639290-10	Titanium (Ti)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L538657-16	Water	WG639290-10	Uranium (U)-Dissolvec	0.00489	0.00493	mg/L	0.79	20	-	-	-
L538657-16	Water	WG639290-10	Vanadium (V)-Dissolvec	<0.030	<0.030	mg/L	N/A	20	-	-	RPD-NA
L538657-16	Water	WG639290-10	Zinc (Zn)-Dissolvec	<0.0050	<0.010	mg/L	N/A	20	-	-	RPD-NA



Environmental Division

ANALYTICAL REPORT

GARTNER LEE LTD.

ATTN: JEN FUNSTON

2251 2ND AVENUE

WHITEHORSE YT Y1A 5W1

Reported On: 03-DEC-07 01:21 PM

Lab Work Order #: **L563837**

Date Received: **09-OCT-07**

Project P.O. #: FARO MINE
Job Reference: 70549
Legal Site Desc:
CofC Numbers: A010666, A010668

Other Information:

Comments: The detection limits for the metals for some samples were increased due to sample matrix interferences.



Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

NATASHA MARKOVIC-MIROVIC

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L563837-1	L563837-2	L563837-3	L563837-4	L563837-5
		Description					
		Sampled Date	02-OCT-07	02-OCT-07	02-OCT-07	02-OCT-07	02-OCT-07
		Sampled Time					
		Client ID	P03-05-1	P03-05-2	P03-05-3	P03-05-3S	P03-05-04
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		1010	519	481	480	495
	Conductivity (uS/cm)		1710	994	935	922	946
	pH (pH)		7.48	7.06	7.49	7.19	7.40
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)		179	137	157	163	165
	Bromide (Br) (mg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
	Sulfate (SO4) (mg/L)		889	398	331	328	343
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		<0.025	<0.025	<0.010	<0.010	<0.010
	Antimony (Sb)-Dissolved (mg/L)		<0.0025	<0.0025	<0.0010	<0.0010	<0.0010
	Arsenic (As)-Dissolved (mg/L)		<0.0025	0.0053	<0.0010	<0.0010	<0.0010
	Barium (Ba)-Dissolved (mg/L)		0.028	0.119	0.168	0.165	0.176
	Beryllium (Be)-Dissolved (mg/L)		<0.0050	<0.0050	<0.0020	<0.0020	<0.0020
	Boron (B)-Dissolved (mg/L)		<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)		<0.000085	<0.000085	0.000049	<0.000034	0.000113
	Calcium (Ca)-Dissolved (mg/L)		307	158	148	147	152
	Chromium (Cr)-Dissolved (mg/L)		<0.0050	<0.0050	<0.0020	<0.0020	<0.0020
	Cobalt (Co)-Dissolved (mg/L)		<0.0015	0.0155	0.00509	0.00538	0.00516
	Copper (Cu)-Dissolved (mg/L)		<0.0050	<0.0050	<0.0020	<0.0020	<0.0020
	Iron (Fe)-Dissolved (mg/L)		6.05	7.66	1.39	1.37	0.151
	Lead (Pb)-Dissolved (mg/L)		<0.0025	<0.0025	<0.0010	<0.0010	<0.0010
	Lithium (Li)-Dissolved (mg/L)		<0.025	<0.025	<0.010	<0.010	<0.010
	Magnesium (Mg)-Dissolved (mg/L)		59.3	30.5	27.2	27.2	28.3
	Manganese (Mn)-Dissolved (mg/L)		0.985	14.9	8.94	9.22	10.1
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	0.000025	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)		<0.0050	<0.0050	<0.0020	<0.0020	<0.0020
	Nickel (Ni)-Dissolved (mg/L)		<0.0050	0.0245	0.0024	0.0025	0.0032
	Potassium (K)-Dissolved (mg/L)		3.2	2.7	2.4	2.4	2.3
	Selenium (Se)-Dissolved (mg/L)		<0.0050	<0.0050	<0.0020	<0.0020	<0.0020
	Silver (Ag)-Dissolved (mg/L)		0.00015	<0.00010	<0.000040	<0.000040	<0.000040
	Sodium (Na)-Dissolved (mg/L)		30.1	12.0	11.8	11.6	11.6
	Thallium (Tl)-Dissolved (mg/L)		<0.0010	<0.0010	<0.00040	<0.00040	<0.00040
	Tin (Sn)-Dissolved (mg/L)		<0.0025	<0.0025	<0.0010	<0.0010	<0.0010
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)		0.0012	0.0037	0.00499	0.00516	0.00558
	Vanadium (V)-Dissolved (mg/L)		<0.0050	<0.0050	<0.0020	<0.0020	<0.0020
	Zinc (Zn)-Dissolved (mg/L)		0.0092	0.0077	0.0092	0.0055	0.0080

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L563837-6	L563837-7	L563837-8	L563837-9	L563837-10
		Description					
		Sampled Date	02-OCT-07	02-OCT-07	02-OCT-07	02-OCT-07	02-OCT-07
		Sampled Time					
		Client ID	P03-05-05	P03-05-06	P03-05-07	P03-05-08	P96-6
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		658	2090	3140	2710	527
	Conductivity (uS/cm)		1530	4370	8080	6950	924
	pH (pH)		5.97	5.22	3.85	4.03	6.85
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)		23.4	17.5	10.9	13.2	271
	Bromide (Br) (mg/L)		<5.0	<25	<50	<50	
	Sulfate (SO4) (mg/L)		872	2990	6920	5710	268
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		<0.025	<0.050	<0.25	<0.25	<0.010
	Antimony (Sb)-Dissolved (mg/L)		<0.0025	<0.0050	<0.025	<0.025	<0.0010
	Arsenic (As)-Dissolved (mg/L)		0.0088	<0.0050	<0.025	<0.025	<0.0010
	Barium (Ba)-Dissolved (mg/L)		0.034	<0.020	<0.060	<0.060	<0.020
	Beryllium (Be)-Dissolved (mg/L)		<0.0050	<0.010	<0.050	<0.050	<0.0020
	Boron (B)-Dissolved (mg/L)		<0.10	<0.10	<0.30	<0.30	<0.10
	Cadmium (Cd)-Dissolved (mg/L)		<0.000085	<0.00017	<0.00085	<0.00085	0.000096
	Calcium (Ca)-Dissolved (mg/L)		171	319	330	303	138
	Chromium (Cr)-Dissolved (mg/L)		<0.0050	<0.010	<0.050	<0.050	<0.0020
	Cobalt (Co)-Dissolved (mg/L)		0.0117	<0.0030	<0.015	<0.015	<0.00060
	Copper (Cu)-Dissolved (mg/L)		<0.0050	<0.010	<0.050	<0.050	<0.0020
	Iron (Fe)-Dissolved (mg/L)		163	271	2080	1580	<0.030
	Lead (Pb)-Dissolved (mg/L)		<0.0025	<0.0050	<0.025	<0.025	<0.0010
	Lithium (Li)-Dissolved (mg/L)		<0.025	<0.050	<0.25	<0.25	0.030
	Magnesium (Mg)-Dissolved (mg/L)		56.0	313	563	475	44.4
	Manganese (Mn)-Dissolved (mg/L)		17.2	6.68	41.5	30.2	0.00220
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)		<0.0050	<0.010	<0.050	<0.050	<0.0020
	Nickel (Ni)-Dissolved (mg/L)		<0.0050	<0.010	<0.050	<0.050	0.0078
	Potassium (K)-Dissolved (mg/L)		5.7	49.9	64.0	64.3	3.4
	Selenium (Se)-Dissolved (mg/L)		<0.0050	<0.010	<0.050	<0.050	0.0033
	Silver (Ag)-Dissolved (mg/L)		<0.00010	<0.00020	<0.0010	<0.0010	<0.000040
	Sodium (Na)-Dissolved (mg/L)		33.8	200	226	227	5.1
	Thallium (Tl)-Dissolved (mg/L)		<0.0010	<0.0020	<0.010	<0.010	<0.00040
	Tin (Sn)-Dissolved (mg/L)		<0.0025	<0.0050	<0.025	<0.025	<0.0010
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.030	<0.030	<0.010
	Uranium (U)-Dissolved (mg/L)		0.0014	<0.0020	<0.010	<0.010	0.0162
	Vanadium (V)-Dissolved (mg/L)		<0.0050	<0.010	<0.050	<0.050	<0.0020
	Zinc (Zn)-Dissolved (mg/L)		0.010	0.023	0.050	0.073	0.239

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L563837-11	L563837-12	L563837-13	L563837-14	L563837-15
		Description					
		Sampled Date	02-OCT-07	02-OCT-07	02-OCT-07	02-OCT-07	02-OCT-07
		Sampled Time					
		Client ID	P03-06-01	P03-06-02	P03-06-03	P03-06-04	P03-06-05
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		1390	1430	1720	864	611
	Conductivity (uS/cm)		2320	2570	3040	1520	1510
	pH (pH)		6.82	6.31	6.22	6.89	5.78
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)		169	88.3	98.6	168	14.5
	Bromide (Br) (mg/L)						
	Sulfate (SO4) (mg/L)		1390	1730	2150	731	878
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		<0.050	<0.050	<0.10	<0.025	<0.025
	Antimony (Sb)-Dissolved (mg/L)		<0.0050	<0.0050	<0.010	<0.0025	<0.0025
	Arsenic (As)-Dissolved (mg/L)		<0.0050	<0.0050	<0.010	<0.0025	0.0059
	Barium (Ba)-Dissolved (mg/L)		0.035	0.024	<0.020	0.051	<0.020
	Beryllium (Be)-Dissolved (mg/L)		<0.010	<0.010	<0.020	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)		<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)		0.00152	0.00869	0.0289	0.000348	<0.000085
	Calcium (Ca)-Dissolved (mg/L)		381	386	464	242	113
	Chromium (Cr)-Dissolved (mg/L)		<0.010	<0.010	<0.020	<0.0050	<0.0050
	Cobalt (Co)-Dissolved (mg/L)		0.0848	0.282	0.619	0.0554	0.0120
	Copper (Cu)-Dissolved (mg/L)		<0.010	<0.010	<0.020	<0.0050	<0.0050
	Iron (Fe)-Dissolved (mg/L)		1.92	108	181	19.1	180
	Lead (Pb)-Dissolved (mg/L)		<0.0050	<0.0050	<0.010	<0.0025	<0.0025
	Lithium (Li)-Dissolved (mg/L)		<0.050	<0.050	<0.10	<0.025	<0.025
	Magnesium (Mg)-Dissolved (mg/L)		107	113	137	63.0	79.8
	Manganese (Mn)-Dissolved (mg/L)		41.4	56.2	80.1	17.7	16.0
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)		<0.010	<0.010	<0.020	<0.0050	<0.0050
	Nickel (Ni)-Dissolved (mg/L)		0.118	0.314	0.903	0.0552	0.0276
	Potassium (K)-Dissolved (mg/L)		3.7	4.0	5.2	3.1	2.9
	Selenium (Se)-Dissolved (mg/L)		<0.010	<0.010	<0.020	<0.0050	<0.0050
	Silver (Ag)-Dissolved (mg/L)		<0.00020	<0.00020	<0.00040	<0.00010	<0.00010
	Sodium (Na)-Dissolved (mg/L)		37.1	31.5	22.5	17.9	23.7
	Thallium (Tl)-Dissolved (mg/L)		<0.0020	<0.0020	<0.0040	<0.0010	<0.0010
	Tin (Sn)-Dissolved (mg/L)		<0.0050	<0.0050	<0.010	<0.0025	<0.0025
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)		0.0106	0.0038	<0.0040	0.0302	0.0046
	Vanadium (V)-Dissolved (mg/L)		<0.010	<0.010	<0.020	<0.0050	<0.0050
	Zinc (Zn)-Dissolved (mg/L)		1.33	2.23	3.77	3.40	16.2

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L563837-16	L563837-17	L563837-18	L563837-19	L563837-20
		Description					
		Sampled Date	02-OCT-07	02-OCT-07	03-OCT-07	05-OCT-07	05-OCT-07
		Sampled Time					
		Client ID	P03-06-05-S	P96-6-S	P96-7	P96-8A	P96-8B
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		609	520	1920	4310	3930
	Conductivity (uS/cm)		1520	927	2830	5800	5260
	pH (pH)		5.74	6.90	7.61	6.52	6.60
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)		14.3	271	204	268	168
	Bromide (Br) (mg/L)						
	Sulfate (SO4) (mg/L)		886	269	1810	4290	3840
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		<0.025	<0.010	<0.050	<0.25	<0.25
	Antimony (Sb)-Dissolved (mg/L)		<0.0025	<0.0010	<0.0050	<0.025	<0.025
	Arsenic (As)-Dissolved (mg/L)		0.0060	<0.0010	<0.0050	<0.025	<0.025
	Barium (Ba)-Dissolved (mg/L)		<0.020	<0.020	<0.020	<0.040	<0.040
	Beryllium (Be)-Dissolved (mg/L)		<0.0050	<0.0020	<0.010	<0.050	<0.050
	Boron (B)-Dissolved (mg/L)		<0.10	<0.10	<0.10	<0.20	<0.20
	Cadmium (Cd)-Dissolved (mg/L)		<0.000085	0.000121	<0.00017	0.0390	0.0608
	Calcium (Ca)-Dissolved (mg/L)		112	136	533	422	390
	Chromium (Cr)-Dissolved (mg/L)		<0.0050	<0.0020	<0.010	<0.050	<0.050
	Cobalt (Co)-Dissolved (mg/L)		0.0122	<0.00060	<0.0030	0.473	0.315
	Copper (Cu)-Dissolved (mg/L)		<0.0050	<0.0020	<0.010	<0.050	<0.050
	Iron (Fe)-Dissolved (mg/L)		180	0.235	<0.030	1.05	<0.060
	Lead (Pb)-Dissolved (mg/L)		<0.0025	<0.0010	<0.0050	<0.025	<0.025
	Lithium (Li)-Dissolved (mg/L)		<0.025	0.030	<0.050	<0.25	<0.25
	Magnesium (Mg)-Dissolved (mg/L)		79.7	43.9	142	790	719
	Manganese (Mn)-Dissolved (mg/L)		16.1	0.00484	0.0035	57.0	53.3
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)		<0.0050	<0.0020	<0.010	<0.050	<0.050
	Nickel (Ni)-Dissolved (mg/L)		0.0285	0.0078	<0.010	0.597	0.684
	Potassium (K)-Dissolved (mg/L)		3.0	3.6	5.4	16.4	16.3
	Selenium (Se)-Dissolved (mg/L)		<0.0050	0.0034	<0.010	<0.050	<0.050
	Silver (Ag)-Dissolved (mg/L)		<0.00010	<0.000040	<0.00020	<0.0010	<0.0010
	Sodium (Na)-Dissolved (mg/L)		24.3	4.9	17.0	57.4	54.7
	Thallium (Tl)-Dissolved (mg/L)		<0.0010	<0.00040	<0.0020	<0.010	<0.010
	Tin (Sn)-Dissolved (mg/L)		<0.0025	<0.0010	<0.0050	<0.025	<0.025
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.020	<0.020
	Uranium (U)-Dissolved (mg/L)		0.0046	0.0160	0.0228	<0.010	<0.010
	Vanadium (V)-Dissolved (mg/L)		<0.0050	<0.0020	<0.010	<0.050	<0.050
	Zinc (Zn)-Dissolved (mg/L)		16.3	0.241	0.017	170	208

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ANIONS-BR-IC-VA	Water	Bromide by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
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.			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.			
HG-DIS-CCME-CVAFS-VA	Water	Diss. Mercury in Water by CVAFS (CCME)	EPA 3005A/245.7
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 filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).			
MET-DIS-CCME-ICP-VA	Water	Diss. Metals in Water by ICPOES (CCME)	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 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 - optical emission spectrophotometry (EPA Method 6010B).			
MET-DIS-CCME-MS-VA	Water	Diss. Metals in Water by ICPMS (CCME)	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).			
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			
SO4-TUR-VA	Water	Sulphate(SO4) by Turbidity	APHA 4500-SO4 "Sulphate"
This analysis is carried out using procedures adapted from APHA Method 4500-SO4 "Sulphate". Sulphate is determined using the turbidimetric method.			

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA		

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

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.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.



Environmental Division

REPORT TO: <u>Natasha Spalding & Associates</u>		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: <u>Gardner Lee Limited</u>		STANDARD ☒ OTHER ☐		☒ REGULAR SERVICE (DEFAULT)	
CONTACT: <u>Jennifer Fuston</u>		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		RUSH SERVICE (2-3 DAYS)	
ADDRESS: <u>2251 2nd Ave</u>		EMAIL 1: <u>JFuston@gardnerlee.ca</u>		PRIORITY SERVICE (1 DAY or ASAP)	
PHONE: <u>817-633-6444</u> FAX: <u>633-6321</u>		EMAIL 2:		EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
INVOICE TO: <u>SAME AS REPORT ? (YES/NO)</u>		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST	
COMPANY:		CLIENT / PROJECT INFORMATION: <u>Faro Mine</u>			
CONTACT:		JOB #: <u>70549</u>			
ADDRESS:		PO / AFE: <u>70549</u>			
PHONE:		Legal Site Description:			
FAX:		QUOTE #:			
Lab Work Order # (lab use only) <u>LS63837</u>		SAMPLER (Initials): <u>KWJ SF</u>			
Sample #	SAMPLE IDENTIFICATION (This description will appear on the report)	DATE	TIME	SAMPLE TYPE	
	P03-05-01	Oct 2, 2007		Geo	☒ Dissolved metals
	P03-05-02				☒ Gen chem
	P03-05-03				☒ CPH, road, hardness
	P03-05-03-S				☒ Total alkalinity, sulphate
	P03-05-04				
	P03-05-05				
	P03-05-06				
	P03-05-07				
	P03-05-08				
	P06-06	Oct 2, 2007			
GUIDELINES / REGULATIONS		SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS			
CENE aquatic life metals definition limits		Please do 0.005 mg/L Zn D.L. for metals			

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

RELINQUISHED BY: <u>L. Webb</u>	DATE & TIME: <u>Oct 6, 2007</u>	RECEIVED BY: <u>AK</u>	DATE & TIME: <u>Oct 10, 2007</u>	TEMPERATURE <u>7°C</u>	SAMPLE CONDITION (lab use only) (if no provide details)
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	TEMPERATURE	SAMPLE CONDITION (lab use only)



Environmental Division

www.alsenviro.com

REPORT TO: <u>Sen Fursten</u>		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: <u>Genher Locals</u>		STANDARD ☒ OTHER ☐		REGULAR SERVICE (DEFAULT) ☒	
CONTACT: <u>Natasha Makin-Milovic</u>		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		RUSH SERVICE (2-3 DAYS) ☐	
ADDRESS: <u>2251 2nd Ave</u>		EMAIL 1: <u>JFursten@genherloc.com</u>		PRIORITY SERVICE (1 DAY or ASAP) ☐	
PHONE: <u>467-63-6474</u> FAX: <u>633-6321</u>		EMAIL 2: <u></u>		EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS ☐	
INVOICE TO: <u>SAME AS REPORT ? (YES) NO</u>		INDICATE BOTTLES: FILTERED / PRESERVED (F/P) <u>→ → →</u>		ANALYSIS REQUEST	
COMPANY:		CLIENT / PROJECT INFORMATION:		☒ Dissolved Metals	
CONTACT:		JOB #: <u>F0544</u>		☒ Gen Chem	
ADDRESS:		PO / AFE: <u>F0544</u>		☒ Cpt/cond, hardness	
PHONE:		Legal Site Description:		☒ Total alkalinity	
FAX:		QUOTE #:		☒ sulphate	
Lab Work Order # (lab use only) <u>LS63837</u>		SAMPLER (Initials): <u>KW+SE</u>		☒ VPN+BTE	
SAMPLE IDENTIFICATION (This description will appear on the report)		DATE	TIME	SAMPLE TYPE	HAZARDOUS ?
P03-06-01		Oct. 4, 2007		Crud water	
P03-06-02					
P03-06-03					
P03-06-04					
P03-06-05					
P03-06-05-5					
P06-06-5		Oct. 2, 2007			
P06-7		Oct. 3, 2007			
P06-0A		Oct. 5, 2007			
P06-0B		Oct. 5, 2007			
GUIDELINES / REGULATIONS		SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS			
<u>CEM aquatic life metals</u>		<u>Please do DL of 0.005 mg/L for Cu</u>			
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 reverse page of the white report copy.					
RELINQUISHED BY: <u>KL-03654m</u>	DATE & TIME: <u>Oct 6, 2007</u>	RECEIVED BY: <u>AK</u>	DATE & TIME: <u>Oct 9, 2007</u>	TEMPERATURE <u>7°C</u>	
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	SAMPLE CONDITION (lab use only) SAMPLES RECEIVED IN GOOD CONDITION ? YES / NO	

Project

Report To

ALS File No.

Date Received

Date

70549

JEN FUNSTON, GARTNER LEE LTD.

L563837

09-Oct-07

03-Dec-07

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Anions and Nutrients											
L563837-6	Water	WG675272-6	Alkalinity, Total (as CaCO3)	23.4	23.5	mg/L	0.57	20	-	-	-
L563837-7	Water	WG676348-2	Sulfate (SO4)	2990	3000	mg/L	0.16	20	-	-	-
L563837-17	Water	WG675272-7	Alkalinity, Total (as CaCO3)	271	269	mg/L	0.89	20	-	-	-
L563837-17	Water	WG676348-3	Sulfate (SO4)	269	268	mg/L	0.39	20	-	-	-



Environmental Division

ANALYTICAL REPORT

GARTNER LEE LTD.

ATTN: JEN FUNSTON

2251 2ND AVENUE

WHITEHORSE YT Y1A 5W1

Reported On: 15-DEC-07 12:26 AM

Revision: 1

Lab Work Order #: **L563840**

Date Received: **09-OCT-07**

Project P.O. #: FARO MINE

Job Reference: 70549

Legal Site Desc:

CofC Numbers: A010663, A010664

Other Information:

Comments: This revision of the report replaces and supersedes all previous revisions.
The Sulfate results for sample L563840-11 have been changed/corrected due to the manual data entry error.

ADDITIONAL 08-NOV-07 12:06

Please note that certain metals detection limits have been increased for some of the samples due to the interferences encountered during the analysis.



Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

NATASHA MARKOVIC-MIROVIC

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L563840-1	L563840-2	L563840-3	L563840-4	L563840-5
		02-OCT-07	02-OCT-07	02-OCT-07	02-OCT-07	02-OCT-07
		BH12A	BH12B	BH13A	BH13B	BH14A
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	583	659	176	826	2460
	Conductivity (uS/cm)	1020	1190	528	1460	3790
	pH (pH)	7.57	7.80	7.86	7.32	7.40
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)	186	195	129	92.0	424
	Sulfate (SO ₄) (mg/L)	304	379	142	623	2030
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.010	0.018	0.0274	<0.025	0.270
	Antimony (Sb)-Dissolved (mg/L)	<0.0010	<0.0010	<0.00050	<0.0025	<0.0050
	Arsenic (As)-Dissolved (mg/L)	<0.0010	<0.0010	0.00055	<0.0025	<0.0050
	Barium (Ba)-Dissolved (mg/L)	0.039	0.028	0.032	0.037	<0.020
	Beryllium (Be)-Dissolved (mg/L)	<0.0020	<0.0020	<0.0010	<0.0050	<0.010
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.000289	0.000422	0.000067	0.000123	0.00029
	Calcium (Ca)-Dissolved (mg/L)	117	138	45.3	215	591
	Chromium (Cr)-Dissolved (mg/L)	<0.0020	<0.0020	<0.0010	<0.0050	<0.010
	Cobalt (Co)-Dissolved (mg/L)	<0.00060	<0.00060	0.00071	<0.0015	<0.0030
	Copper (Cu)-Dissolved (mg/L)	0.0021	<0.0020	0.0019	0.0059	<0.010
	Iron (Fe)-Dissolved (mg/L)	<0.030	<0.030	0.511	<0.030	<0.030
	Lead (Pb)-Dissolved (mg/L)	<0.0010	<0.0010	0.00130	<0.0025	<0.0050
	Lithium (Li)-Dissolved (mg/L)	0.018	0.020	0.0080	<0.025	0.060
	Magnesium (Mg)-Dissolved (mg/L)	70.8	76.4	15.3	70.3	240
	Manganese (Mn)-Dissolved (mg/L)	0.00565	0.00281	0.107	0.0018	<0.0030
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0020	<0.0020	0.0032	<0.0050	<0.010
	Nickel (Ni)-Dissolved (mg/L)	0.0097	0.0095	0.0011	0.0113	<0.010
	Potassium (K)-Dissolved (mg/L)	3.0	3.0	2.7	3.3	3.6
	Selenium (Se)-Dissolved (mg/L)	<0.0020	<0.0020	<0.0010	0.0130	<0.010
	Silver (Ag)-Dissolved (mg/L)	<0.000040	<0.000040	<0.000020	<0.00010	0.00029
	Sodium (Na)-Dissolved (mg/L)	5.9	6.4	9.9	7.2	15.1
	Thallium (Tl)-Dissolved (mg/L)	<0.00040	<0.00040	<0.00020	<0.0010	<0.0020
	Tin (Sn)-Dissolved (mg/L)	<0.0010	<0.0010	<0.00050	<0.0025	<0.0050
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.00509	0.00549	0.00051	0.0018	0.135
	Vanadium (V)-Dissolved (mg/L)	<0.0020	<0.0020	<0.0010	<0.0050	<0.010
	Zinc (Zn)-Dissolved (mg/L)	0.224	0.305	0.0265	0.0091	0.590

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L563840-6	L563840-7	L563840-8	L563840-9	L563840-10
		02-OCT-07	05-OCT-07	05-OCT-07	05-OCT-07	05-OCT-07
		BH14B	P03-02-01	P03-02-02	P03-02-03	P03-02-03S
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	2190	196	150	184	180
	Conductivity (uS/cm)	3400	381	303	382	382
	pH (pH)	7.43	7.91	7.48	7.59	7.56
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)	407	169	104	114	112
	Sulfate (SO ₄) (mg/L)	1710	42.0	46.7	83.4	82.3
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.050	0.0053	0.0068	0.0093	0.0077
	Antimony (Sb)-Dissolved (mg/L)	<0.0050	<0.00050	<0.00050	<0.00050	<0.00050
	Arsenic (As)-Dissolved (mg/L)	<0.0050	0.00051	<0.00050	<0.00050	<0.00050
	Barium (Ba)-Dissolved (mg/L)	<0.020	0.087	0.100	0.118	0.115
	Beryllium (Be)-Dissolved (mg/L)	<0.010	<0.0010	<0.0010	<0.0010	<0.0010
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	<0.00017	<0.000017	0.000036	0.000037	0.000049
	Calcium (Ca)-Dissolved (mg/L)	525	62.1	45.6	56.0	54.9
	Chromium (Cr)-Dissolved (mg/L)	<0.010	<0.0010	<0.0010	<0.0010	<0.0010
	Cobalt (Co)-Dissolved (mg/L)	<0.0030	0.00036	<0.00030	<0.00030	<0.00030
	Copper (Cu)-Dissolved (mg/L)	<0.010	<0.0010	<0.0010	<0.0010	<0.0010
	Iron (Fe)-Dissolved (mg/L)	<0.030	0.121	<0.030	<0.030	<0.030
	Lead (Pb)-Dissolved (mg/L)	<0.0050	<0.00050	<0.00050	<0.00050	<0.00050
	Lithium (Li)-Dissolved (mg/L)	0.051	<0.0050	<0.0050	0.0051	0.0052
	Magnesium (Mg)-Dissolved (mg/L)	214	9.98	8.71	10.6	10.5
	Manganese (Mn)-Dissolved (mg/L)	<0.0030	0.309	0.00069	0.00066	0.00064
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.010	0.0014	<0.0010	<0.0010	<0.0010
	Nickel (Ni)-Dissolved (mg/L)	<0.010	<0.0010	<0.0010	<0.0010	<0.0010
	Potassium (K)-Dissolved (mg/L)	4.0	2.2	<2.0	<2.0	<2.0
	Selenium (Se)-Dissolved (mg/L)	<0.010	<0.0010	<0.0010	<0.0010	<0.0010
	Silver (Ag)-Dissolved (mg/L)	<0.00020	<0.000020	<0.000020	<0.000020	<0.000020
	Sodium (Na)-Dissolved (mg/L)	14.7	3.1	2.9	2.9	2.9
	Thallium (Tl)-Dissolved (mg/L)	<0.0020	<0.00020	<0.00020	<0.00020	<0.00020
	Tin (Sn)-Dissolved (mg/L)	<0.0050	<0.00050	<0.00050	<0.00050	<0.00050
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.141	0.00213	0.00097	0.00171	0.00171
	Vanadium (V)-Dissolved (mg/L)	<0.010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.239	<0.0050	<0.0050	0.0071	0.0131

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L563840-11	L563840-12	L563840-13	L563840-14	L563840-15
		Description					
		Sampled Date	05-OCT-07	05-OCT-07	05-OCT-07	05-OCT-07	05-OCT-07
		Sampled Time					
		Client ID	P03-02-04	P03-02-05	P03-02-07	P03-02-08	P03-02-09
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		233	2280	2790	2710	2330
	Conductivity (uS/cm)		547	8940	12900	20000	23500
	pH (pH)		6.76	5.15	3.47	3.20	3.12
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)		44.9	22.5	<2.0	<2.0	<2.0
	Sulfate (SO4) (mg/L)		244	7790	12500	27100	30500
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		<0.025	<0.25	<0.50	<1.0	<1.0
	Antimony (Sb)-Dissolved (mg/L)		<0.0025	<0.025	<0.050	<0.10	<0.10
	Arsenic (As)-Dissolved (mg/L)		<0.0025	<0.025	<0.050	<0.10	<0.10
	Barium (Ba)-Dissolved (mg/L)		0.058	<0.10	<0.20	<0.40	<0.40
	Beryllium (Be)-Dissolved (mg/L)		<0.0050	<0.050	<0.10	<0.20	<0.20
	Boron (B)-Dissolved (mg/L)		<0.10	<0.50	<1.0	<2.0	<2.0
	Cadmium (Cd)-Dissolved (mg/L)		0.000985	<0.00085	<0.0017	<0.0034	<0.0034
	Calcium (Ca)-Dissolved (mg/L)		71.8	382	405	388	394
	Chromium (Cr)-Dissolved (mg/L)		<0.0050	<0.050	<0.10	<0.20	<0.20
	Cobalt (Co)-Dissolved (mg/L)		0.0044	<0.015	<0.030	<0.060	<0.060
	Copper (Cu)-Dissolved (mg/L)		<0.0050	<0.050	<0.10	<0.20	<0.20
	Iron (Fe)-Dissolved (mg/L)		0.425	2830	5730	12900	16800
	Lead (Pb)-Dissolved (mg/L)		<0.0025	<0.025	<0.050	0.19	<0.10
	Lithium (Li)-Dissolved (mg/L)		0.033	<0.25	<0.50	<1.0	<1.0
	Magnesium (Mg)-Dissolved (mg/L)		13.0	323	433	424	326
	Manganese (Mn)-Dissolved (mg/L)		12.5	30.4	40.8	77.2	93.5
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)		<0.0050	<0.050	<0.10	<0.20	<0.20
	Nickel (Ni)-Dissolved (mg/L)		0.176	<0.050	<0.10	<0.20	<0.20
	Potassium (K)-Dissolved (mg/L)		2.2	58	79	59	<40
	Selenium (Se)-Dissolved (mg/L)		<0.0050	<0.050	<0.10	<0.20	<0.20
	Silver (Ag)-Dissolved (mg/L)		<0.00010	<0.0010	<0.0020	<0.0040	<0.0040
	Sodium (Na)-Dissolved (mg/L)		6.1	336	265	140	<40
	Thallium (Tl)-Dissolved (mg/L)		<0.0010	<0.010	<0.020	<0.040	<0.040
	Tin (Sn)-Dissolved (mg/L)		<0.0025	<0.025	<0.050	<0.10	<0.10
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.050	<0.10	<0.20	<0.20
	Uranium (U)-Dissolved (mg/L)		<0.0010	<0.010	<0.020	<0.040	<0.040
	Vanadium (V)-Dissolved (mg/L)		<0.0050	<0.050	<0.10	<0.20	<0.20
	Zinc (Zn)-Dissolved (mg/L)		1.67	0.0065	0.0129	126	912

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L563840-16	L563840-17	L563840-18	L563840-19	
		Description					
		Sampled Date	02-OCT-07	05-OCT-07	04-OCT-07	04-OCT-07	
		Sampled Time					
		Client ID	TH86-17	X18B	X24A-96	X24D-96	
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO ₃) (mg/L)		80.1	788	1770	1990	
	Conductivity (uS/cm)		176	1420	2900	3240	
	pH (pH)		7.42	7.62	7.00	7.06	
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)		73.9	230	387	404	
	Sulfate (SO ₄) (mg/L)		14.3	548	1620	1890	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		0.0069	<0.025	<0.10	<0.10	
	Antimony (Sb)-Dissolved (mg/L)		<0.00050	<0.0025	<0.010	<0.010	
	Arsenic (As)-Dissolved (mg/L)		<0.00050	<0.0025	<0.010	<0.010	
	Barium (Ba)-Dissolved (mg/L)		0.050	0.114	<0.020	<0.020	
	Beryllium (Be)-Dissolved (mg/L)		<0.0010	<0.0050	<0.020	<0.020	
	Boron (B)-Dissolved (mg/L)		<0.10	<0.10	<0.10	<0.10	
	Cadmium (Cd)-Dissolved (mg/L)		0.000018	0.000372	0.00107	0.00292	
	Calcium (Ca)-Dissolved (mg/L)		23.4	222	506	576	
	Chromium (Cr)-Dissolved (mg/L)		<0.0010	<0.0050	<0.020	<0.020	
	Cobalt (Co)-Dissolved (mg/L)		<0.00030	<0.0015	0.0621	0.0645	
	Copper (Cu)-Dissolved (mg/L)		<0.0010	<0.0050	<0.020	<0.020	
	Iron (Fe)-Dissolved (mg/L)		0.272	0.112	1.60	<0.030	
	Lead (Pb)-Dissolved (mg/L)		<0.00050	<0.0025	<0.010	<0.010	
	Lithium (Li)-Dissolved (mg/L)		<0.0050	<0.025	<0.10	<0.10	
	Magnesium (Mg)-Dissolved (mg/L)		5.28	57.0	123	134	
	Manganese (Mn)-Dissolved (mg/L)		0.00436	1.99	45.0	51.6	
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	
	Molybdenum (Mo)-Dissolved (mg/L)		<0.0010	<0.0050	<0.020	<0.020	
	Nickel (Ni)-Dissolved (mg/L)		<0.0010	0.0137	0.068	0.243	
	Potassium (K)-Dissolved (mg/L)		<2.0	6.6	7.3	7.7	
	Selenium (Se)-Dissolved (mg/L)		<0.0010	<0.0050	<0.020	<0.020	
	Silver (Ag)-Dissolved (mg/L)		<0.000020	<0.00010	<0.00040	<0.00040	
	Sodium (Na)-Dissolved (mg/L)		2.1	21.3	38.5	47.1	
	Thallium (Tl)-Dissolved (mg/L)		<0.00020	<0.0010	<0.0040	<0.0040	
	Tin (Sn)-Dissolved (mg/L)		<0.00050	<0.0025	<0.010	<0.010	
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	
	Uranium (U)-Dissolved (mg/L)		0.00045	0.0091	0.0102	0.0058	
	Vanadium (V)-Dissolved (mg/L)		<0.0010	<0.0050	<0.020	<0.020	
	Zinc (Zn)-Dissolved (mg/L)		0.0138	0.0083	0.0198	0.0824	

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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ALK-COL-VA Water Alkalinity by Colourimetric (Automated) APHA 310.2

This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.

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.

HARDNESS-CALC-VA Water Hardness APHA 2340B

Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.

HG-DIS-CCME-CVAFS-VA Water Diss. Mercury in Water by CVAFS (CCME) EPA 3005A/245.7

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 filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).

MET-DIS-CCME-ICP-VA Water Diss. Metals in Water by ICPOES (CCME) 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 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 - optical emission spectrophotometry (EPA Method 6010B).

MET-DIS-CCME-MS-VA Water Diss. Metals in Water by ICPMS (CCME) 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).

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

SO4-TUR-VA Water Sulphate(SO4) by Turbidity APHA 4500-SO4 "Sulphate"

This analysis is carried out using procedures adapted from APHA Method 4500-SO4 "Sulphate". Sulphate is determined using the turbidimetric method.

ZN-DIS-CCME-ICP-VA Water Diss. Zinc in Water by ICPOES (CCME) 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 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 - optical emission spectrophotometry (EPA Method 6010B).

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
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VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA
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Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in enviromental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

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.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Environmental Division



www.alsenviro.com

REPORT TO:		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: <u>Garthor Lee Limited</u>		STANDARD ☒ OTHER ☐		☒ REGULAR SERVICE (DEFAULT)	
CONTACT: <u>Jennifer Funston</u>		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		☐ RUSH SERVICE (2-3 DAYS)	
ADDRESS: <u>3951 2nd Avenue</u>		EMAIL 1: <u>funston@garthorlee.com</u>		☐ PRIORITY SERVICE (1 DAY or ASAP)	
ADDRESS: <u>Whitehorse, Yukon Y1A 5W1</u>		EMAIL 2:		☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
PHONE: <u>867.633.6474</u> FAX: <u>867.633.6321</u>		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST	
INVOICE TO: <u>SAME AS REPORT ?</u> ☒ YES / NO ☐		CLIENT / PROJECT INFORMATION: <u>Fero Mine.</u>			
COMPANY:		JOB #: <u>70549</u>			
CONTACT:		PO / AFE: <u>70549</u>			
ADDRESS:		Legal Site Description:			
PHONE:		QUOTE #:			
Lab Work Order # <u>LS63840</u>		SAMPLER (Initials): <u>KW, JF</u>			
Sample #	SAMPLE IDENTIFICATION (This description will appear on the report)	DATE	TIME	SAMPLE TYPE	
	BH12A	Oct. 2, 2007		GLW	X
	BH12B	Oct. 2, 2007			X
	BH13A	Oct. 2, 2007			X
	BH13B	Oct. 2, 2007			X
	BH14A	Oct. 2, 2007			X
	BH14B	Oct. 2, 2007			X
	P03-02-01	Oct. 5, 2007			X
	P03-02-02	Oct. 5, 2007			X
	P03-02-03	Oct. 5, 2007			X
	P03-02-03-5	Oct. 5, 2007			X
GUIDELINES / REGULATIONS					
SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS					
CENE Analytic Life Metals Please use Zn & 0.005 mg/L 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 reverse page of the white report copy. RELINQUISHED BY: <u>Don Munton</u> DATE & TIME: <u>Oct. 6, 2007</u> RECEIVED BY: <u>AF</u> DATE & TIME: <u>Oct 9, 2007</u> TEMPERATURE <u>20</u> SAMPLE CONDITION (lab use only) <u>20</u> RELINQUISHED BY: DATE & TIME: RECEIVED BY: DATE & TIME:					



Environmental Division

REPORT TO: Jennifer Furstner		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: Gather Lee Limited		STANDARD ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		☒ REGULAR SERVICE (DEFAULT)	
CONTACT: Natascha Markovic - Microvic		EMAIL 1: jfurstner@gatherlee.com		☐ RUSH SERVICE (2-3 DAYS)	
ADDRESS: 2251 2nd Avenue		EMAIL 2:		☐ PRIORITY SERVICE (1 DAY or ASAP)	
Whitehorse, Yukon Y1A 5W1				☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
PHONE: 867.633.6414 FAX: 867.633.6321		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST	
INVOICE TO: SAME AS REPORT? ☒ YES / NO		CLIENT / PROJECT INFORMATION: <i>Iron Mine.</i>			
COMPANY:		JOB #: 70549			
ADDRESS:		PO / A/E: 70549			
PHONE:		Legal Site Description:			
FAX:		QUOTE #:			
Lab Work Order # (lab use only)		SAMPLER (Initials): <i>KW, JF</i>			
SAMPLE IDENTIFICATION (This description will appear on the report)		DATE		TIME	
SAMPLE #		DATE		TIME	
P03-02-04		Oct. 5, 2007		G.W.	
P03-02-05		Oct. 5, 2007		X	
P03-02-07		Oct. 5, 2007		X	
P03-02-08		Oct. 5, 2007		X	
P03-02-09		Oct. 5, 2007		X	
TH86-17		Oct. 2, 2007		X	
X18B		Oct. 5, 2007		X	
X24A-96		Oct. 4, 2007		X	
X24D-96		Oct. 4, 2007		X	
GUIDELINES / REGULATIONS		SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS			
CCME Aquatic Life Metals		Please use Zn & Cd at 0.005 mg/L.			
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the reverse page of the white report copy.					
RELINQUISHED BY: <i>Jim Furstner</i>		DATE & TIME: Oct. 6, 2007		RECEIVED BY: <i>AFH</i>	
RELINQUISHED BY:		DATE & TIME:		RECEIVED BY:	
TEMPERATURE		DATE & TIME: Oct 9, 2007		SAMPLE CONDITION (lab use only)	
20				(if no provide details)	
HAZARDOUS ?		HIGHLY CONTAMINATED ?		NUMBER OF CONTAINERS	

Project

Report To

ALS File No.

Date Received

Date

70549

JEN FUNSTON, GARTNER LEE LTD.

L563840

09-Oct-07

15-Dec-07

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Anions and Nutrients											
L563840-3	Water	WG675272-8	Alkalinity, Total (as CaCO3)	129	129	mg/L	0.097	20	-	-	-
Physical Tests											
L563840-9	Water	WG674294-5	Conductivity	382	382	uS/cm	0.0	20	-	-	-
L563840-9	Water	WG674294-5	pH	7.59	7.56	pH	0.36	20	-	-	-
Anions and Nutrients											
L563840-10	Water	WG676348-4	Sulfate (SO4)	82.3	82.8	mg/L	0.61	20	-	-	-
L563840-11	Water	WG675272-9	Alkalinity, Total (as CaCO3)	44.9	44.0	mg/L	2.0	20	-	-	-
Physical Tests											
L563840-18	Water	WG674294-6	Conductivity	2900	2900	uS/cm	0.0	20	-	-	-
L563840-18	Water	WG674294-6	pH	7.00	7.01	pH	0.18	20	-	-	-



Environmental Division

ANALYTICAL REPORT

GARTNER LEE LTD.

ATTN: JEN FUNSTON

2251 2ND AVENUE

WHITEHORSE YT Y1A 5W1

Reported On: 22-NOV-07 03:34 PM

Lab Work Order #: **L563854**

Date Received: **09-OCT-07**

Project P.O. #: FARO MINE

Job Reference: 70549

Legal Site Desc:

CofC Numbers: A010665, A010667

Other Information:

Comments: ADDITIONAL 08-NOV-07 12:00
Please note that certain metals detection limits have been increased for some of the samples due to the interferences encountered during the analysis.



Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

NATASHA MARKOVIC-MIROVIC

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L563854-1	L563854-2	L563854-3	L563854-4	L563854-5
		Description					
		Sampled Date	05-OCT-07	05-OCT-07	05-OCT-07	05-OCT-07	05-OCT-07
		Sampled Time					
		Client ID	P03-03-01	P03-03-02	P03-03-03	P03-03-03-S	P03-03-04
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		262	343	232	231	311
	Conductivity (uS/cm)		502	1970	585	584	778
	pH (pH)		7.84	4.43	5.78	5.85	6.50
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)		284	7.3	9.7	9.7	33.9
	Bromide (Br) (mg/L)		<0.050	<5.0	<0.050	<0.050	<0.50
	Sulfate (SO4) (mg/L)		3.2	1190	264	263	314
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		<0.0050	1.68	0.117	0.116	<0.025
	Antimony (Sb)-Dissolved (mg/L)		<0.00050	<0.010	<0.0010	<0.0010	<0.0025
	Arsenic (As)-Dissolved (mg/L)		0.00949	<0.010	<0.0010	<0.0010	<0.0025
	Barium (Ba)-Dissolved (mg/L)		0.240	<0.020	<0.020	<0.020	0.042
	Beryllium (Be)-Dissolved (mg/L)		<0.0010	<0.020	<0.0020	<0.0020	<0.0050
	Boron (B)-Dissolved (mg/L)		<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)		<0.000017	0.00902	0.00571	0.00556	0.00281
	Calcium (Ca)-Dissolved (mg/L)		78.0	83.9	71.0	70.9	93.7
	Chromium (Cr)-Dissolved (mg/L)		<0.0010	<0.020	<0.0020	<0.0020	<0.0050
	Cobalt (Co)-Dissolved (mg/L)		0.00127	0.117	0.105	0.105	0.0974
	Copper (Cu)-Dissolved (mg/L)		<0.0010	0.031	<0.0020	<0.0020	<0.0050
	Iron (Fe)-Dissolved (mg/L)		2.98	463	17.8	17.4	23.0
	Lead (Pb)-Dissolved (mg/L)		<0.00050	<0.010	<0.0010	<0.0010	<0.0025
	Lithium (Li)-Dissolved (mg/L)		0.0173	<0.10	0.025	0.027	0.030
	Magnesium (Mg)-Dissolved (mg/L)		16.3	32.3	13.3	13.1	18.8
	Manganese (Mn)-Dissolved (mg/L)		0.114	10.8	8.31	8.24	17.0
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)		0.0021	<0.020	<0.0020	<0.0020	<0.0050
	Nickel (Ni)-Dissolved (mg/L)		<0.0010	0.166	0.121	0.120	0.102
	Potassium (K)-Dissolved (mg/L)		2.7	4.4	2.5	2.4	2.9
	Selenium (Se)-Dissolved (mg/L)		<0.0010	<0.020	<0.0020	<0.0020	<0.0050
	Silver (Ag)-Dissolved (mg/L)		<0.000020	<0.00040	<0.000040	<0.000040	<0.00010
	Sodium (Na)-Dissolved (mg/L)		9.8	10.2	6.1	5.9	13.9
	Thallium (Tl)-Dissolved (mg/L)		<0.00020	<0.0040	<0.00040	<0.00040	<0.0010
	Tin (Sn)-Dissolved (mg/L)		<0.00050	<0.010	<0.0010	<0.0010	<0.0025
	Titanium (Ti)-Dissolved (mg/L)		<0.010	0.011	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)		0.00048	<0.0040	<0.00040	<0.00040	<0.0010
	Vanadium (V)-Dissolved (mg/L)		<0.0010	<0.020	<0.0020	<0.0020	<0.0050
	Zinc (Zn)-Dissolved (mg/L)		<0.0050	99.0	6.37	6.43	3.91

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L563854-6	L563854-7	L563854-8	L563854-9	L563854-10
		Description					
		Sampled Date	05-OCT-07	05-OCT-07	05-OCT-07	05-OCT-07	04-OCT-07
		Sampled Time					
		Client ID	P03-03-05	P03-03-06	P03-03-08	P03-03-09	P03-04-01
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)	460	822	4080	3700	1050	
	Conductivity (uS/cm)	1070	1930	22000	24900	2010	
	pH (pH)	6.80	5.97	3.25	3.33	7.57	
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	91.1	21.3	<2.0	4.1	285	
	Bromide (Br) (mg/L)	<1.0	<5.0	<250	<1300		
	Sulfate (SO4) (mg/L)	446	1100	26300	32000	900	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.050	<0.025	<1.0	<1.0	<0.025	
	Antimony (Sb)-Dissolved (mg/L)	<0.0050	<0.0025	<0.10	<0.10	<0.0025	
	Arsenic (As)-Dissolved (mg/L)	0.0096	<0.0025	<0.10	<0.10	<0.0025	
	Barium (Ba)-Dissolved (mg/L)	0.129	<0.020	<0.40	<0.40	<0.020	
	Beryllium (Be)-Dissolved (mg/L)	<0.010	<0.0050	<0.20	<0.20	<0.0050	
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<2.0	<2.0	<0.10	
	Cadmium (Cd)-Dissolved (mg/L)	<0.00017	<0.000085	<0.0034	<0.0034	<0.000085	
	Calcium (Ca)-Dissolved (mg/L)	137	225	390	395	330	
	Chromium (Cr)-Dissolved (mg/L)	<0.010	<0.0050	<0.20	<0.20	<0.0050	
	Cobalt (Co)-Dissolved (mg/L)	0.0489	<0.0015	<0.060	<0.060	<0.0015	
	Copper (Cu)-Dissolved (mg/L)	<0.010	<0.0050	<0.20	<0.20	<0.0050	
	Iron (Fe)-Dissolved (mg/L)	29.4	192	13100	16500	15.1	
	Lead (Pb)-Dissolved (mg/L)	<0.0050	<0.0025	0.82	2.56	<0.0025	
	Lithium (Li)-Dissolved (mg/L)	<0.050	0.026	<1.0	<1.0	<0.025	
	Magnesium (Mg)-Dissolved (mg/L)	28.7	63.5	754	658	54.1	
	Manganese (Mn)-Dissolved (mg/L)	37.9	13.6	133	146	1.61	
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	0.000021	<0.000020	<0.000020	<0.000020	
	Molybdenum (Mo)-Dissolved (mg/L)	<0.010	<0.0050	<0.20	<0.20	<0.0050	
	Nickel (Ni)-Dissolved (mg/L)	0.038	<0.0050	<0.20	<0.20	<0.0050	
	Potassium (K)-Dissolved (mg/L)	3.6	5.1	80	63	5.4	
	Selenium (Se)-Dissolved (mg/L)	<0.010	<0.0050	<0.20	<0.20	<0.0050	
	Silver (Ag)-Dissolved (mg/L)	<0.00020	<0.00010	<0.0040	<0.0040	<0.00010	
	Sodium (Na)-Dissolved (mg/L)	25.3	70.4	421	375	97.8	
	Thallium (Tl)-Dissolved (mg/L)	<0.0020	<0.0010	<0.040	<0.040	<0.0010	
	Tin (Sn)-Dissolved (mg/L)	<0.0050	<0.0025	<0.10	<0.10	<0.0025	
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.20	<0.20	<0.010	
	Uranium (U)-Dissolved (mg/L)	<0.0020	<0.0010	<0.040	<0.040	0.0074	
	Vanadium (V)-Dissolved (mg/L)	<0.010	<0.0050	<0.20	<0.20	<0.0050	
	Zinc (Zn)-Dissolved (mg/L)	0.462	0.0075	488	470	0.0181	

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L563854-11	L563854-12	L563854-13	L563854-14	L563854-15
		Description					
		Sampled Date	04-OCT-07	04-OCT-07	04-OCT-07	04-OCT-07	04-OCT-07
		Sampled Time					
		Client ID	P03-04-01-S	P03-04-02	P03-04-03	P03-04-04	P03-04-06
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		1050	1090	993	499	1630
	Conductivity (uS/cm)		2010	1900	1740	1220	5390
	pH (pH)		7.61	6.89	6.85	7.66	4.87
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)		289	128	103	222	19.9
	Bromide (Br) (mg/L)						
	Sulfate (SO4) (mg/L)		904	1000	930	399	4010
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		<0.025	<0.050	<0.050	<0.025	<0.10
	Antimony (Sb)-Dissolved (mg/L)		<0.0025	<0.0050	<0.0050	<0.0025	<0.010
	Arsenic (As)-Dissolved (mg/L)		<0.0025	<0.0050	<0.0050	0.0058	0.017
	Barium (Ba)-Dissolved (mg/L)		<0.020	<0.020	<0.020	0.055	<0.040
	Beryllium (Be)-Dissolved (mg/L)		<0.0050	<0.010	<0.010	<0.0050	<0.020
	Boron (B)-Dissolved (mg/L)		<0.10	<0.10	<0.10	<0.10	<0.20
	Cadmium (Cd)-Dissolved (mg/L)		<0.000085	0.00296	0.00163	<0.000085	<0.00034
	Calcium (Ca)-Dissolved (mg/L)		334	315	284	162	468
	Chromium (Cr)-Dissolved (mg/L)		<0.0050	<0.010	<0.010	<0.0050	<0.020
	Cobalt (Co)-Dissolved (mg/L)		<0.0015	0.131	0.0766	0.0031	0.0446
	Copper (Cu)-Dissolved (mg/L)		<0.0050	<0.010	<0.010	<0.0050	<0.020
	Iron (Fe)-Dissolved (mg/L)		6.40	0.421	0.261	4.90	1520
	Lead (Pb)-Dissolved (mg/L)		<0.0025	<0.0050	<0.0050	<0.0025	<0.010
	Lithium (Li)-Dissolved (mg/L)		<0.025	<0.050	<0.050	<0.025	<0.10
	Magnesium (Mg)-Dissolved (mg/L)		53.5	72.7	68.9	23.0	112
	Manganese (Mn)-Dissolved (mg/L)		1.65	39.7	35.8	4.56	14.8
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)		<0.0050	<0.010	<0.010	<0.0050	<0.020
	Nickel (Ni)-Dissolved (mg/L)		<0.0050	0.204	0.107	<0.0050	0.108
	Potassium (K)-Dissolved (mg/L)		5.4	4.2	4.0	3.2	11.9
	Selenium (Se)-Dissolved (mg/L)		<0.0050	<0.010	<0.010	<0.0050	<0.020
	Silver (Ag)-Dissolved (mg/L)		<0.00010	<0.00020	<0.00020	<0.00010	<0.00040
	Sodium (Na)-Dissolved (mg/L)		96.9	28.5	25.9	93.0	123
	Thallium (Tl)-Dissolved (mg/L)		<0.0010	<0.0020	<0.0020	<0.0010	<0.0040
	Tin (Sn)-Dissolved (mg/L)		<0.0025	<0.0050	<0.0050	<0.0025	<0.010
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	<0.020
	Uranium (U)-Dissolved (mg/L)		0.0074	<0.0020	<0.0020	0.0025	<0.0040
	Vanadium (V)-Dissolved (mg/L)		<0.0050	<0.010	<0.010	<0.0050	<0.020
	Zinc (Zn)-Dissolved (mg/L)		0.0195	0.0641	0.0622	0.0064	5.01

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID			
		Description			
		Sampled Date			
		Sampled Time			
		Client ID			
Grouping	Analyte				
WATER					
Physical Tests	Hardness (as CaCO3) (mg/L)	1640	1330	1260	
	Conductivity (uS/cm)	5230	6780	8440	
	pH (pH)	5.54	3.69	3.81	
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	31.4	5.4	14.6	
	Bromide (Br) (mg/L)				
	Sulfate (SO4) (mg/L)	3840	5650	7740	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.10	<0.25	<0.25	
	Antimony (Sb)-Dissolved (mg/L)	<0.010	<0.025	<0.025	
	Arsenic (As)-Dissolved (mg/L)	0.018	<0.025	<0.025	
	Barium (Ba)-Dissolved (mg/L)	<0.040	<0.10	<0.10	
	Beryllium (Be)-Dissolved (mg/L)	<0.020	<0.050	<0.050	
	Boron (B)-Dissolved (mg/L)	<0.20	<0.50	<0.50	
	Cadmium (Cd)-Dissolved (mg/L)	<0.00034	<0.00085	<0.00085	
	Calcium (Ca)-Dissolved (mg/L)	462	386	384	
	Chromium (Cr)-Dissolved (mg/L)	<0.020	<0.050	<0.050	
	Cobalt (Co)-Dissolved (mg/L)	0.0458	<0.015	<0.015	
	Copper (Cu)-Dissolved (mg/L)	<0.020	<0.050	<0.050	
	Iron (Fe)-Dissolved (mg/L)	1440	2680	3940	
	Lead (Pb)-Dissolved (mg/L)	<0.010	<0.025	<0.025	
	Lithium (Li)-Dissolved (mg/L)	<0.10	<0.25	<0.25	
	Magnesium (Mg)-Dissolved (mg/L)	117	89.3	74.3	
	Manganese (Mn)-Dissolved (mg/L)	13.7	17.9	26.6	
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	
	Molybdenum (Mo)-Dissolved (mg/L)	<0.020	<0.050	<0.050	
	Nickel (Ni)-Dissolved (mg/L)	0.103	<0.050	<0.050	
	Potassium (K)-Dissolved (mg/L)	11.8	<10	<10	
	Selenium (Se)-Dissolved (mg/L)	<0.020	<0.050	<0.050	
	Silver (Ag)-Dissolved (mg/L)	<0.00040	<0.0010	<0.0010	
	Sodium (Na)-Dissolved (mg/L)	117	114	50	
	Thallium (Tl)-Dissolved (mg/L)	<0.0040	<0.010	<0.010	
	Tin (Sn)-Dissolved (mg/L)	<0.010	<0.025	<0.025	
	Titanium (Ti)-Dissolved (mg/L)	<0.020	<0.050	<0.050	
	Uranium (U)-Dissolved (mg/L)	<0.0040	<0.010	<0.010	
	Vanadium (V)-Dissolved (mg/L)	<0.020	<0.050	<0.050	
	Zinc (Zn)-Dissolved (mg/L)	3.19	2.91	0.40	

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ANIONS-BR-IC-VA	Water	Bromide by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
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.			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.			
HG-DIS-CCME-CVAFS-VA	Water	Diss. Mercury in Water by CVAFS (CCME)	EPA 3005A/245.7
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 filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).			
MET-DIS-CCME-ICP-VA	Water	Diss. Metals in Water by ICPOES (CCME)	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 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 - optical emission spectrophotometry (EPA Method 6010B).			
MET-DIS-CCME-MS-VA	Water	Diss. Metals in Water by ICPMS (CCME)	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).			
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			
SO4-TUR-VA	Water	Sulphate(SO4) by Turbidity	APHA 4500-SO4 "Sulphate"
This analysis is carried out using procedures adapted from APHA Method 4500-SO4 "Sulphate". Sulphate is determined using the turbidimetric method.			
ZN-DIS-CCME-ICP-VA	Water	Diss. Zinc in Water by ICPOES (CCME)	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 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 - optical emission spectrophotometry (EPA Method 6010B).			

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA		

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

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.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Environmental Division



www.alsenviro.com

REPORT TO:		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: <u>Gartner Inc Limited</u>		STANDARD ☒ EXCEL ☒ OTHER ☐ CUSTOM ☐ FAX ☐		☒ REGULAR SERVICE (DEFAULT)	
CONTACT: <u>Jennifer Funston</u>		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		RUSH SERVICE (2-3 DAYS)	
ADDRESS: <u>2851 2nd Avenue</u>		EMAIL 1: <u>jfunston@gartnerinc.com</u>		PRIORITY SERVICE (1 DAY or ASAP)	
ADDRESS: <u>Whitby, Ont L1A 5L1</u>		EMAIL 2:		EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
PHONE: <u>905.633.6474</u> FAX: <u>905.633.6321</u>		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST	
INVOICE TO: SAME AS REPORT ? ☒ YES / NO		CLIENT / PROJECT INFORMATION: <u>Faro Mine.</u>			
COMPANY:		JOB #: <u>70549</u>			
CONTACT:		PO / AFE: <u>70549</u>			
ADDRESS:		Legal Site Description:			
PHONE:		QUOTE #:			
FAX:		SAMPLER (Initials): <u>KW, JF</u>			
Lab Work Order # <u>LS63854</u>		DATE		TIME	
SAMPLE IDENTIFICATION		DATE		TIME	
(This description will appear on the report)		DATE		TIME	
Sample #	DESCRIPTION	DATE	TIME	SAMPLE TYPE	HAZARDOUS ?
	P03-03-01	Oct 5, 2007		General Chemistry	
	P03-03-02			pH, cond, hardness, total alkalinity, sulphate.	
	P03-03-03			Dissolved Metals.	
	P03-03-03-5				
	P03-03-04				
	P03-03-05				
	P03-03-06				
	P03-03-08				
	P03-03-09				
GUIDELINES / REGULATIONS		SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS			
CCME Aquatic Life Metals		Please use 2m DL of 0.005 mg/L.			
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.					
RELINQUISHED BY: <u>Jim Munster</u>		DATE & TIME: <u>Oct 6, 2007</u>		RECEIVED BY: <u>AK</u>	
RELINQUISHED BY:		DATE & TIME:		RECEIVED BY:	
TEMPERATURE <u>4°C</u>		SAMPLE CONDITION (lab use only)			
SAMPLES RECEIVED IN GOOD CONDITION ? YES / NO					



Environmental Division

REPORT TO: <u>Janitor Fusion</u>		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: <u>Gartner Lee Limited</u>		STANDARD ☒ OTHER ☐		☒ REGULAR SERVICE (DEFAULT)	
CONTACT: <u>Natasha Markovic - Mirvic</u>		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		RUSH SERVICE (2-3 DAYS)	
ADDRESS: <u>2851 and Avenue</u>		EMAIL 1: <u>fusion@gartnerlee.com</u>		PRIORITY SERVICE (1 DAY or ASAP)	
PHONE: <u>907.633.6474</u> FAX: <u>907.633.6321</u>		EMAIL 2:		EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
INVOICE TO: SAME AS REPORT ? (YES/ NO)		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST	
COMPANY:		CLIENT / PROJECT INFORMATION: <u>Fire Mine</u>			
CONTACT:		JOB #: <u>70849</u>			
ADDRESS:		PO / AFE: <u>70849</u>			
PHONE:		Legal Site Description:			
FAX:		QUOTE #:			
Lab Work Order # (lab use only)		SAMPLE IDENTIFICATION		HAZARDOUS ?	
<u>LS03854</u>		(This description will appear on the report)		HIGHLY CONTAMINATED ?	
Sample #	DATE	TIME	SAMPLE TYPE	NUMBER OF CONTAINERS	
P03-04-01	Oct 4, 2007		GW	2	
P03-04-01-5					
P03-04-02					
P03-04-03					
P03-04-04					
P03-04-06					
P03-04-07					
P03-04-08					
P03-04-09					
GUIDELINES / REGULATIONS				SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS	
CCE NE Aquatic Life Metals				Please use Zn & Cd at 0.005 mg/L.	
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.					
RELINQUISHED BY: <u>Open duration</u>		DATE & TIME: <u>Oct 6, 2007</u>		RECEIVED BY: <u>AK</u>	
RELINQUISHED BY:		DATE & TIME:		DATE & TIME: <u>08/10/07</u>	
TEMPERATURE		SAMPLE CONDITION (lab use only)		SAMPLES RECEIVED IN GOOD CONDITION ? YES / NO	
<u>41°C</u>					

Project

Report To

ALS File No.

Date Received

Date

70549

JEN FUNSTON, GARTNER LEE LTD.

L563854

09-Oct-07

22-Nov-07

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Anions and Nutrients											
L563854-6	Water	WG676348-5	Sulfate (SO4)	446	440	mg/L	1.3	20	-	-	-
L563854-7	Water	WG675272-10	Alkalinity, Total (as CaCO3)	21.3	20.5	mg/L	3.7	20	-	-	-
L563854-9	Water	WG677742-3	Bromide (Br)	<1300	<1300	mg/L	N/A	20	-	-	RPD-NA
L563854-16	Water	WG676348-6	Sulfate (SO4)	3840	3850	mg/L	0.34	20	-	-	-
Physical Tests											
L563854-18	Water	WG674294-7	Conductivity	8440	8460	uS/cm	0.24	20	-	-	-
L563854-18	Water	WG674294-7	pH	3.81	3.79	pH	0.50	20	-	-	-



Environmental Division

ANALYTICAL REPORT

GARTNER LEE LTD.

ATTN: JEN FUNSTON

2251 2ND AVENUE

WHITEHORSE YT Y1A 5W1

Reported On: 24-DEC-07 03:27 PM

Revision: 2

Lab Work Order #: **L563857**

Date Received: **09-OCT-07**

Project P.O. #: FARO MINE
Job Reference: 70549
Legal Site Desc:
CofC Numbers: A009133, A012079

Other Information:

Comments: This revision of the report replaces and supersedes all previous revisions.
The Sulfate results for sample L563857-10 have been changed/corrected due to the manual data entry error.

ADDITIONAL 08-NOV-07 11:52

Please note that certain Metals detection limits have been increased for some of the samples due to the interferences encountered during the analysis.


Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

NATASHA MARKOVIC-MIROVIC

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L563857-1	L563857-2	L563857-3	L563857-4	L563857-5
Grouping Analyte						
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	713	736	826	788	800
	Conductivity (uS/cm)	1360	1350	1480	1440	1430
	pH (pH)	7.74	7.71	7.72	7.66	7.67
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	283	287	282	280	282
	Sulfate (SO4) (mg/L)	437	442	536	498	497
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.050	<0.025	0.095	<0.025	<0.025
	Antimony (Sb)-Dissolved (mg/L)	<0.0050	<0.0025	<0.0025	<0.0025	<0.0025
	Arsenic (As)-Dissolved (mg/L)	<0.0050	<0.0025	<0.0025	<0.0025	<0.0025
	Barium (Ba)-Dissolved (mg/L)	0.068	0.066	0.066	0.058	0.061
	Beryllium (Be)-Dissolved (mg/L)	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.00031	0.000229	0.000235	<0.000085	0.000177
	Calcium (Ca)-Dissolved (mg/L)	212	219	250	240	243
	Chromium (Cr)-Dissolved (mg/L)	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
	Cobalt (Co)-Dissolved (mg/L)	<0.0030	<0.0015	0.0016	0.0029	0.0028
	Copper (Cu)-Dissolved (mg/L)	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
	Iron (Fe)-Dissolved (mg/L)	<0.030	0.111	<0.030	0.658	0.077
	Lead (Pb)-Dissolved (mg/L)	<0.0050	<0.0025	<0.0025	<0.0025	<0.0025
	Lithium (Li)-Dissolved (mg/L)	<0.050	<0.025	<0.025	<0.025	<0.025
	Magnesium (Mg)-Dissolved (mg/L)	44.7	46.0	49.3	45.9	46.8
	Manganese (Mn)-Dissolved (mg/L)	6.26	6.10	7.76	7.42	7.42
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
	Nickel (Ni)-Dissolved (mg/L)	<0.010	0.0092	0.0111	0.0098	0.0116
	Potassium (K)-Dissolved (mg/L)	4.4	4.5	4.7	4.6	4.7
	Selenium (Se)-Dissolved (mg/L)	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
	Silver (Ag)-Dissolved (mg/L)	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010
	Sodium (Na)-Dissolved (mg/L)	33.3	33.2	33.3	32.2	32.9
	Thallium (Tl)-Dissolved (mg/L)	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010
	Tin (Sn)-Dissolved (mg/L)	<0.0050	<0.0025	<0.0025	<0.0025	<0.0025
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.0056	0.0055	0.0068	0.0065	0.0066
	Vanadium (V)-Dissolved (mg/L)	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
	Zinc (Zn)-Dissolved (mg/L)	0.0100	0.0068	0.0075	0.0083	0.0077

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L563857-6	L563857-7	L563857-8	L563857-9	L563857-10
		03-OCT-07	03-OCT-07	03-OCT-07	03-OCT-07	03-OCT-07
		S1A	S1B	S2A	S2B	S3
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	905	4840	4810	3600	5110
	Conductivity (uS/cm)	1600	6420	6400	4640	6800
	pH (pH)	6.81	6.63	6.67	6.44	6.63
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)	139	219	229	163	192
	Sulfate (SO ₄) (mg/L)	767	4800	4790	2960	5781
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.025	<0.25	<0.50	<0.050	<0.50
	Antimony (Sb)-Dissolved (mg/L)	<0.0025	<0.025	<0.050	<0.0050	<0.050
	Arsenic (As)-Dissolved (mg/L)	<0.0025	<0.025	<0.050	<0.0050	<0.050
	Barium (Ba)-Dissolved (mg/L)	0.029	<0.040	<0.040	0.056	<0.040
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.050	<0.10	<0.010	<0.10
	Boron (B)-Dissolved (mg/L)	<0.10	<0.20	<0.20	<0.20	<0.20
	Cadmium (Cd)-Dissolved (mg/L)	0.000784	0.0194	0.0247	0.00133	0.0128
	Calcium (Ca)-Dissolved (mg/L)	227	522	504	927	468
	Chromium (Cr)-Dissolved (mg/L)	<0.0050	<0.050	<0.10	<0.010	<0.10
	Cobalt (Co)-Dissolved (mg/L)	<0.0015	0.028	<0.030	0.0119	0.041
	Copper (Cu)-Dissolved (mg/L)	<0.0050	<0.050	<0.10	<0.010	<0.10
	Iron (Fe)-Dissolved (mg/L)	0.032	<0.060	1.21	193	1.05
	Lead (Pb)-Dissolved (mg/L)	<0.0025	<0.025	<0.050	<0.0050	<0.050
	Lithium (Li)-Dissolved (mg/L)	<0.025	<0.25	<0.50	<0.050	<0.50
	Magnesium (Mg)-Dissolved (mg/L)	82.2	858	862	311	957
	Manganese (Mn)-Dissolved (mg/L)	1.48	73.4	85.2	23.2	118
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0050	<0.050	<0.10	<0.010	<0.10
	Nickel (Ni)-Dissolved (mg/L)	0.0354	1.73	1.89	0.164	2.42
	Potassium (K)-Dissolved (mg/L)	3.1	12.4	12.1	5.5	13.7
	Selenium (Se)-Dissolved (mg/L)	<0.0050	<0.050	<0.10	<0.010	<0.10
	Silver (Ag)-Dissolved (mg/L)	<0.00010	<0.0010	<0.0020	<0.00020	<0.0020
	Sodium (Na)-Dissolved (mg/L)	35.6	36.7	27.9	25.8	25.3
	Thallium (Tl)-Dissolved (mg/L)	<0.0010	<0.010	<0.020	<0.0020	<0.020
	Tin (Sn)-Dissolved (mg/L)	<0.0025	<0.025	<0.050	<0.0050	<0.050
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.020	<0.020	<0.020	<0.020
	Uranium (U)-Dissolved (mg/L)	<0.0010	<0.010	<0.020	<0.0020	<0.020
	Vanadium (V)-Dissolved (mg/L)	<0.0050	<0.050	<0.10	<0.010	<0.10
	Zinc (Zn)-Dissolved (mg/L)	3.50	215	241	20.5	365

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L563857-11	L563857-12	L563857-13	L563857-14	L563857-15
Grouping Analyte						
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	308	419	698	1030	355
	Conductivity (uS/cm)	527	763	1300	2130	1250
	pH (pH)	8.04	7.91	7.38	7.40	7.39
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	262	285	323	287	40.7
	Sulfate (SO4) (mg/L)	32.9	148	369	916	476
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.0050	0.011	<0.025	<0.050	<0.025
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.0010	<0.0025	0.0054	<0.0025
	Arsenic (As)-Dissolved (mg/L)	<0.00050	<0.0010	0.0045	0.0087	<0.0025
	Barium (Ba)-Dissolved (mg/L)	0.082	0.144	0.034	0.021	<0.020
	Beryllium (Be)-Dissolved (mg/L)	<0.0010	<0.0020	<0.0050	<0.010	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.000021	0.000247	<0.000085	<0.00017	0.000133
	Calcium (Ca)-Dissolved (mg/L)	76.1	119	201	294	137
	Chromium (Cr)-Dissolved (mg/L)	<0.0010	<0.0020	<0.0050	<0.010	<0.0050
	Cobalt (Co)-Dissolved (mg/L)	<0.00030	<0.00060	<0.0015	<0.0030	0.0033
	Copper (Cu)-Dissolved (mg/L)	<0.0010	0.0028	<0.0050	<0.010	<0.0050
	Iron (Fe)-Dissolved (mg/L)	0.048	0.136	39.8	58.2	0.528
	Lead (Pb)-Dissolved (mg/L)	<0.00050	<0.0010	<0.0025	0.0131	<0.0025
	Lithium (Li)-Dissolved (mg/L)	0.0084	<0.010	<0.025	<0.050	<0.025
	Magnesium (Mg)-Dissolved (mg/L)	28.6	29.6	47.9	71.8	3.07
	Manganese (Mn)-Dissolved (mg/L)	0.0358	5.75	2.89	6.02	0.296
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	0.0037	0.0086	<0.010	0.0278
	Nickel (Ni)-Dissolved (mg/L)	0.0019	0.0213	<0.0050	<0.010	<0.0050
	Potassium (K)-Dissolved (mg/L)	2.0	2.3	3.5	14.5	4.3
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0020	<0.0050	<0.010	<0.0050
	Silver (Ag)-Dissolved (mg/L)	<0.000020	<0.000040	<0.00010	<0.00020	<0.00010
	Sodium (Na)-Dissolved (mg/L)	2.7	11.7	42.7	118	137
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00040	<0.0010	<0.0020	<0.0010
	Tin (Sn)-Dissolved (mg/L)	<0.00050	<0.0010	<0.0025	<0.0050	<0.0025
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.00345	0.00400	0.0081	<0.0020	<0.0010
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0020	<0.0050	<0.010	<0.0050
	Zinc (Zn)-Dissolved (mg/L)	0.0050	0.0084	0.0159	0.0182	0.0099

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L563857-16	L563857-17	L563857-18	L563857-19	L563857-20
Grouping Analyte						
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	75.4	675	670	812	776
	Conductivity (uS/cm)	480	1260	1260	1410	1360
	pH (pH)	8.09	7.69	7.68	7.75	7.77
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)	121	343	336	290	282
	Sulfate (SO ₄) (mg/L)	97.0	340	341	480	465
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0179	<0.025	<0.025	<0.025	<0.025
	Antimony (Sb)-Dissolved (mg/L)	0.00054	<0.0025	<0.0025	<0.0025	<0.0025
	Arsenic (As)-Dissolved (mg/L)	0.00088	<0.0025	<0.0025	<0.0025	<0.0025
	Barium (Ba)-Dissolved (mg/L)	0.024	0.036	0.035	0.058	0.051
	Beryllium (Be)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0050	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	<0.000017	<0.000085	<0.000085	0.000092	0.000323
	Calcium (Ca)-Dissolved (mg/L)	16.9	181	180	247	237
	Chromium (Cr)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0050	<0.0050	<0.0050
	Cobalt (Co)-Dissolved (mg/L)	0.00131	<0.0015	<0.0015	0.0068	0.0039
	Copper (Cu)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0050	<0.0050	<0.0050
	Iron (Fe)-Dissolved (mg/L)	0.062	6.02	6.03	<0.030	<0.030
	Lead (Pb)-Dissolved (mg/L)	0.00176	<0.0025	<0.0025	<0.0025	<0.0025
	Lithium (Li)-Dissolved (mg/L)	0.0140	0.035	0.035	<0.025	<0.025
	Magnesium (Mg)-Dissolved (mg/L)	8.07	53.9	53.8	47.2	44.7
	Manganese (Mn)-Dissolved (mg/L)	0.0353	0.358	0.363	7.30	6.01
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	0.0326	<0.0050	<0.0050	<0.0050	<0.0050
	Nickel (Ni)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0050	0.0123	0.0112
	Potassium (K)-Dissolved (mg/L)	12.5	3.9	3.9	4.9	4.7
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0050	<0.0050	<0.0050
	Silver (Ag)-Dissolved (mg/L)	<0.000020	<0.00010	<0.00010	<0.00010	<0.00010
	Sodium (Na)-Dissolved (mg/L)	63.6	43.6	43.0	33.3	31.9
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
	Tin (Sn)-Dissolved (mg/L)	<0.00050	<0.0025	<0.0025	<0.0025	<0.0025
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	<0.00020	0.0016	0.0016	0.0080	0.0070
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0050	<0.0050	<0.0050
	Zinc (Zn)-Dissolved (mg/L)	0.0072	0.0056	0.0066	0.0071	0.0078

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
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.			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.			
HG-DIS-CCME-CVAFS-VA	Water	Diss. Mercury in Water by CVAFS (CCME)	EPA 3005A/245.7
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 filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).			
MET-DIS-CCME-ICP-VA	Water	Diss. Metals in Water by ICPOES (CCME)	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 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 - optical emission spectrophotometry (EPA Method 6010B).			
MET-DIS-CCME-MS-VA	Water	Diss. Metals in Water by ICPMS (CCME)	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).			
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			
SO4-TUR-VA	Water	Sulphate(SO4) by Turbidity	APHA 4500-SO4 "Sulphate"
This analysis is carried out using procedures adapted from APHA Method 4500-SO4 "Sulphate". Sulphate is determined using the turbidimetric method.			
ZN-DIS-CCME-ICP-VA	Water	Diss. Zinc in Water by ICPOES (CCME)	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 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 - optical emission spectrophotometry (EPA Method 6010B).			
** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:			
Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA		

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

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.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

REPORT TO: Jon Fursten		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: Garten Lee Ltd		STANDARD 2 OTHER		☒ REGULAR SERVICE (DEFAULT)	
CONTACT: Natasha Makovic-Milovic		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX		☐ RUSH SERVICE (2-3 DAYS)	
ADDRESS: 751 2nd Ave		EMAIL 1: IFursten@gartenlee.ca		☐ PRIORITY SERVICE (1 DAY or ASAP)	
PHONE: 607-633-6174 FAX: 607-633-6321		EMAIL 2:		☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
INVOICE TO: SAME AS REPORT ? YES ☒ NO		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST	
COMPANY:		CLIENT / PROJECT INFORMATION: Faro Mike			
CONTACT:		JOB #: 70549			
ADDRESS:		PO / AFE: 70549			
PHONE:		Legal Site Description:			
FAX:		QUOTE #:			
Lab Work Order # (lab use only)		SAMPLE IDENTIFICATION		HAZARDOUS ?	
Sample #		(This description will appear on the report)		HIGHLY CONTAMINATED ?	
		DATE		NUMBER OF CONTAINERS	
PO3-09-05		Oct. 2, 2007		2	
PO3-09-06					
PO3-09-07					
PO3-09-08					
PO3-09-09					
S1A		Oct. 3, 2007			
S1B					
S2A					
S2B					
S3					
GUIDELINES / REGULATIONS		SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS			
CEMF aquatic life metals		Please do D.I.L. of 0.005mg/L Zn.			
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 reverse page of the white report copy.					
RELINQUISHED BY: E. Wloszyn		DATE & TIME: Oct. 6 2007		TEMPERATURE	
RECEIVED BY:		DATE & TIME: Oct 9 2007		SAMPLE CONDITION (lab use only)	
DATE & TIME:		RECEIVED BY:		SAMPLES RECEIVED IN GOOD CONDITION ? YES / NO	
				(if no provide details)	

Environmental Division



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REPORT TO: <u>Naplesha MacLevie-Mironic</u>		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: <u>Gartner Inc. Limited.</u>		STANDARD ☒ OTHER ☐		☒ REGULAR SERVICE (DEFAULT)	
CONTACT: <u>Jennifer Funston</u>		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		☐ RUSH SERVICE (2-3 DAYS)	
ADDRESS: <u>2851 2nd Ave</u>		EMAIL 1: <u>JFunston@spokane.com</u>		☐ PRIORITY SERVICE (1 DAY or ASAP)	
PHONE: <u>509-633-6444</u> FAX: <u>509-633-6371</u>		EMAIL 2:		☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
INVOICE TO: <u>SAME AS REPORT ?</u> (YES) NO		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST	
COMPANY:		CLIENT / PROJECT INFORMATION: <u>For Mica</u>			
CONTACT:		JOB #:			
ADDRESS:		PO / AFE: <u>70549</u>			
PHONE:		Legal Site Description:			
FAX:		QUOTE #:			
Lab Work Order # (lab use only)		SAMPLE IDENTIFICATION		SAMPLER (Initials): <u>Kutchen</u>	
Sample #		(This description will appear on the report)		DATE	
P03-08-01				Oct 3, 2007	
P03-08-03					
P03-08-04					
P03-08-05					
P03-08-07					
P03-08-08					
P03-09-01				Oct 2, 2007	
P03-09-02					
P03-09-03					
P03-09-04					
GUIDELINES / REGULATIONS		SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS			
CMF aquat file needs		Please do PL of 8,005 m/L 2m			
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the reverse page of the white report copy.					
RELINQUISHED BY: <u>L. Mironic</u>		DATE & TIME: <u>Oct 6 12:28</u>		RECEIVED BY: <u>AK</u>	
RELINQUISHED BY:		DATE & TIME:		RECEIVED BY:	
TEMPERATURE		DATE & TIME: <u>Oct 9 10:27</u>		SAMPLE CONDITION (lab use only)	
20c				SAMPLES RECEIVED IN GOOD CONDITION ? YES / NO	
				(if no provide details)	

Project 70549
Report To JEN FUNSTON, GARTNER LEE LTD.
ALS File No. L563857
Date Received 09-Oct-07
Date 24-Dec-07

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Dissolved Metals											
L563857-1	Water	WG674305-14	Aluminum (Al)-Dissolved	<0.050	<0.050	mg/L	N/A	20	-	-	RPD-NA
L563857-1	Water	WG674305-14	Antimony (Sb)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L563857-1	Water	WG674305-14	Arsenic (As)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L563857-1	Water	WG674305-14	Barium (Ba)-Dissolved	0.068	0.068	mg/L	-	-	0.000	0.08	J
L563857-1	Water	WG674305-14	Beryllium (Be)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L563857-1	Water	WG674305-14	Boron (B)-Dissolved	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
L563857-1	Water	WG674305-14	Cadmium (Cd)-Dissolved	0.00031	0.00033	mg/L	-	-	0.00002	0.0004	J
L563857-1	Water	WG674305-14	Calcium (Ca)-Dissolved	212	221	mg/L	0.74	20	-	-	-
L563857-1	Water	WG674305-14	Chromium (Cr)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L563857-1	Water	WG674305-14	Cobalt (Co)-Dissolved	<0.0030	<0.0030	mg/L	N/A	20	-	-	RPD-NA
L563857-1	Water	WG674305-14	Copper (Cu)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L563857-1	Water	WG674305-14	Iron (Fe)-Dissolved	<0.030	<0.030	mg/L	N/A	20	-	-	RPD-NA
L563857-1	Water	WG674305-14	Lead (Pb)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L563857-1	Water	WG674305-14	Lithium (Li)-Dissolved	<0.050	<0.050	mg/L	N/A	20	-	-	RPD-NA
L563857-1	Water	WG674305-14	Magnesium (Mg)-Dissolved	44.7	45.7	mg/L	0.47	20	-	-	-
L563857-1	Water	WG674305-14	Manganese (Mn)-Dissolved	6.26	6.24	mg/L	0.41	20	-	-	-
L563857-1	Water	WG674305-14	Molybdenum (Mo)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L563857-1	Water	WG674305-14	Nickel (Ni)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L563857-1	Water	WG674305-14	Potassium (K)-Dissolved	4.4	4.6	mg/L	-	-	0.1	8	J
L563857-1	Water	WG674305-14	Selenium (Se)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L563857-1	Water	WG674305-14	Silver (Ag)-Dissolved	<0.00020	<0.00020	mg/L	N/A	20	-	-	RPD-NA
L563857-1	Water	WG674305-14	Sodium (Na)-Dissolved	33.3	33.6	mg/L	1.1	20	-	-	-
L563857-1	Water	WG674305-14	Thallium (Tl)-Dissolved	<0.0020	<0.0020	mg/L	N/A	20	-	-	RPD-NA
L563857-1	Water	WG674305-14	Tin (Sn)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L563857-1	Water	WG674305-14	Titanium (Ti)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L563857-1	Water	WG674305-14	Uranium (U)-Dissolved	0.0056	0.0056	mg/L	-	-	0.0000	0.008	J
L563857-1	Water	WG674305-14	Vanadium (V)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
Anions and Nutrients											
L563857-3	Water	WG675272-11	Alkalinity, Total (as CaCO3)	282	292	mg/L	3.7	20	-	-	-
Dissolved Metals											
L563857-11	Water	WG674305-15	Aluminum (Al)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA

L563857-11	Water	WG674305-15	Antimony (Sb)-Dissolved	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L563857-11	Water	WG674305-15	Arsenic (As)-Dissolved	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L563857-11	Water	WG674305-15	Barium (Ba)-Dissolved	0.082	0.085	mg/L	-	-	0.003	0.08	J
L563857-11	Water	WG674305-15	Beryllium (Be)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L563857-11	Water	WG674305-15	Boron (B)-Dissolved	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
L563857-11	Water	WG674305-15	Cadmium (Cd)-Dissolved	0.000021	0.000030	mg/L	-	-	0.000009	0.00004	J
L563857-11	Water	WG674305-15	Calcium (Ca)-Dissolved	76.1	75.9	mg/L	0.15	20	-	-	-
L563857-11	Water	WG674305-15	Chromium (Cr)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L563857-11	Water	WG674305-15	Cobalt (Co)-Dissolved	<0.00030	<0.00030	mg/L	N/A	20	-	-	RPD-NA
L563857-11	Water	WG674305-15	Copper (Cu)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L563857-11	Water	WG674305-15	Iron (Fe)-Dissolved	0.048	0.032	mg/L	-	-	0.016	0.12	J
L563857-11	Water	WG674305-15	Lead (Pb)-Dissolved	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L563857-11	Water	WG674305-15	Lithium (Li)-Dissolved	0.0084	0.0082	mg/L	-	-	0.0002	0.02	J
L563857-11	Water	WG674305-15	Magnesium (Mg)-Dissolved	28.6	28.2	mg/L	1.5	20	-	-	-
L563857-11	Water	WG674305-15	Manganese (Mn)-Dissolved	0.0358	0.0345	mg/L	3.6	20	-	-	-
L563857-11	Water	WG674305-15	Mercury (Hg)-Dissolved	<0.000020	<0.000020	mg/L	N/A	20	-	-	RPD-NA
L563857-11	Water	WG674305-15	Molybdenum (Mo)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L563857-11	Water	WG674305-15	Nickel (Ni)-Dissolved	0.0019	0.0020	mg/L	-	-	0.0001	0.004	J
L563857-11	Water	WG674305-15	Potassium (K)-Dissolved	2.0	2.1	mg/L	-	-	0.1	8	J
L563857-11	Water	WG674305-15	Selenium (Se)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L563857-11	Water	WG674305-15	Silver (Ag)-Dissolved	<0.000020	<0.000020	mg/L	N/A	20	-	-	RPD-NA
L563857-11	Water	WG674305-15	Sodium (Na)-Dissolved	2.7	2.8	mg/L	-	-	0.1	8	J
L563857-11	Water	WG674305-15	Thallium (Tl)-Dissolved	<0.00020	<0.00020	mg/L	N/A	20	-	-	RPD-NA
L563857-11	Water	WG674305-15	Tin (Sn)-Dissolved	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L563857-11	Water	WG674305-15	Titanium (Ti)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L563857-11	Water	WG674305-15	Uranium (U)-Dissolved	0.00345	0.00336	mg/L	2.7	20	-	-	-
L563857-11	Water	WG674305-15	Vanadium (V)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA

Anions and Nutrients

L563857-12	Water	WG676348-7	Sulfate (SO4)	148	146	mg/L	1.3	20	-	-	-
L563857-13	Water	WG675272-12	Alkalinity, Total (as CaCO3)	323	314	mg/L	2.9	20	-	-	-



Environmental Division

ANALYTICAL REPORT

GARTNER LEE LTD.

ATTN: JEN FUNSTON

2251 2ND AVENUE

WHITEHORSE YT Y1A 5W1

Reported On: 22-NOV-07 03:05 PM

Lab Work Order #: **L563872**

Date Received: **09-OCT-07**

Project P.O. #: FARO MINE

Job Reference: 70549

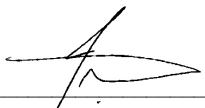
Legal Site Desc:

CofC Numbers: C020062, C020063

Other Information:

Comments: ADDITIONAL 08-NOV-07 11:57

Please note that certain metals detection limits have been increased for some of the samples due to the interferences encountered during the analysis.



Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

NATASHA MARKOVIC-MIROVIC

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L563872-1	L563872-2	L563872-3	L563872-4	L563872-5
Grouping						
Analyte						
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	836	1400	1380	1370	1380
	Conductivity (uS/cm)	1780	2280	2290	2240	2300
	pH (pH)	7.34	7.44	7.49	7.52	7.54
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	497	334	332	331	332
	Sulfate (SO4) (mg/L)	489	1120	1110	1100	1130
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.025	<0.025	<0.025	<0.025	<0.025
	Antimony (Sb)-Dissolved (mg/L)	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
	Arsenic (As)-Dissolved (mg/L)	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
	Barium (Ba)-Dissolved (mg/L)	0.053	0.033	0.033	0.031	0.022
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085
	Calcium (Ca)-Dissolved (mg/L)	215	432	427	423	426
	Chromium (Cr)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Cobalt (Co)-Dissolved (mg/L)	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
	Copper (Cu)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Iron (Fe)-Dissolved (mg/L)	5.02	13.8	13.8	15.1	18.8
	Lead (Pb)-Dissolved (mg/L)	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
	Lithium (Li)-Dissolved (mg/L)	0.271	0.026	<0.025	<0.025	<0.025
	Magnesium (Mg)-Dissolved (mg/L)	73.0	77.1	77.5	76.0	77.3
	Manganese (Mn)-Dissolved (mg/L)	1.16	18.6	17.7	17.0	19.4
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Nickel (Ni)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Potassium (K)-Dissolved (mg/L)	6.5	6.2	6.3	6.4	6.2
	Selenium (Se)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Silver (Ag)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Sodium (Na)-Dissolved (mg/L)	122	41.8	43.1	40.6	42.3
	Thallium (Tl)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Tin (Sn)-Dissolved (mg/L)	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	<0.0010	0.0016	0.0016	0.0016	0.0017
	Vanadium (V)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Zinc (Zn)-Dissolved (mg/L)	0.0065	0.0065	0.0085	0.445	0.0088

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L563872-6	L563872-7	L563872-8	L563872-9	L563872-10
		Description					
		Sampled Date	02-OCT-07	02-OCT-07	03-OCT-07	03-OCT-07	03-OCT-07
		Sampled Time					
		Client ID	P05-01-05	P05-01-06	SRK05-SP-1A	SRK05-SP-1A-S	SRK05-SP-1B
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		1220	1210	697	696	598
	Conductivity (uS/cm)		2040	2030	1340	1330	1050
	pH (pH)		7.59	7.59	6.14	6.15	6.58
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)		278	282	261	259	365
	Sulfate (SO4) (mg/L)		959	961	460	448	249
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		<0.025	<0.025	0.088	0.086	<0.010
	Antimony (Sb)-Dissolved (mg/L)		<0.0025	<0.0025	<0.0010	<0.0010	<0.0010
	Arsenic (As)-Dissolved (mg/L)		<0.0025	<0.0025	0.0056	0.0051	0.0102
	Barium (Ba)-Dissolved (mg/L)		0.023	0.023	<0.020	<0.020	0.033
	Beryllium (Be)-Dissolved (mg/L)		<0.0050	<0.0050	0.0022	0.0021	<0.0020
	Boron (B)-Dissolved (mg/L)		<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)		0.000126	<0.000085	0.000041	0.000057	0.000162
	Calcium (Ca)-Dissolved (mg/L)		373	366	173	173	155
	Chromium (Cr)-Dissolved (mg/L)		<0.0050	<0.0050	<0.0020	<0.0020	<0.0020
	Cobalt (Co)-Dissolved (mg/L)		0.0072	0.0078	0.00587	0.00581	0.00373
	Copper (Cu)-Dissolved (mg/L)		<0.0050	<0.0050	<0.0020	<0.0020	<0.0020
	Iron (Fe)-Dissolved (mg/L)		4.60	4.07	47.3	47.5	8.43
	Lead (Pb)-Dissolved (mg/L)		<0.0025	<0.0025	<0.0010	<0.0010	<0.0010
	Lithium (Li)-Dissolved (mg/L)		<0.025	<0.025	0.069	0.068	0.034
	Magnesium (Mg)-Dissolved (mg/L)		70.7	71.5	64.2	64.0	51.4
	Manganese (Mn)-Dissolved (mg/L)		17.0	17.5	1.60	1.59	0.779
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)		<0.0050	<0.0050	<0.0020	<0.0020	<0.0020
	Nickel (Ni)-Dissolved (mg/L)		0.0063	0.0068	0.0198	0.0196	0.0104
	Potassium (K)-Dissolved (mg/L)		6.0	5.8	4.4	4.5	4.5
	Selenium (Se)-Dissolved (mg/L)		<0.0050	<0.0050	<0.0020	<0.0020	<0.0020
	Silver (Ag)-Dissolved (mg/L)		<0.00010	<0.00010	<0.000040	<0.000040	<0.000040
	Sodium (Na)-Dissolved (mg/L)		33.5	33.4	14.5	14.8	9.2
	Thallium (Tl)-Dissolved (mg/L)		<0.0010	<0.0010	<0.00040	<0.00040	<0.00040
	Tin (Sn)-Dissolved (mg/L)		<0.0025	<0.0025	<0.0010	<0.0010	<0.0010
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)		0.0034	0.0036	<0.00040	<0.00040	0.00144
	Vanadium (V)-Dissolved (mg/L)		<0.0050	<0.0050	<0.0020	<0.0020	<0.0020
	Zinc (Zn)-Dissolved (mg/L)		0.0082	0.0076	1.46	1.36	0.218

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L563872-11	L563872-12	L563872-13	L563872-14	L563872-15
		03-OCT-07	03-OCT-07	03-OCT-07	03-OCT-07	03-OCT-07
		SRK-05-SP-2	SRK05-SP-3A	SRK05-SP-3B	SRK05-SP-4A	SRK05-SP-4B
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	155	624	586	554	4580
	Conductivity (uS/cm)	320	1130	1060	1010	6270
	pH (pH)	6.90	6.44	6.43	6.43	6.60
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)	132	322	313	253	215
	Sulfate (SO ₄) (mg/L)	33.7	295	285	296	4730
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0118	0.032	0.021	0.027	<0.50
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.0010	<0.0010	<0.0010	<0.050
	Arsenic (As)-Dissolved (mg/L)	<0.00050	0.0020	<0.0010	0.0045	<0.050
	Barium (Ba)-Dissolved (mg/L)	0.043	0.023	<0.020	0.025	<0.040
	Beryllium (Be)-Dissolved (mg/L)	<0.0010	<0.0020	<0.0020	<0.0020	<0.10
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.20
	Cadmium (Cd)-Dissolved (mg/L)	0.000093	0.000048	0.000090	0.000081	0.0916
	Calcium (Ca)-Dissolved (mg/L)	44.4	150	147	143	394
	Chromium (Cr)-Dissolved (mg/L)	<0.0010	<0.0020	<0.0020	<0.0020	<0.10
	Cobalt (Co)-Dissolved (mg/L)	0.00209	0.00424	0.00572	0.00971	<0.030
	Copper (Cu)-Dissolved (mg/L)	<0.0010	<0.0020	<0.0020	<0.0020	<0.10
	Iron (Fe)-Dissolved (mg/L)	0.040	22.5	9.76	19.9	0.073
	Lead (Pb)-Dissolved (mg/L)	<0.00050	<0.0010	<0.0010	<0.0010	<0.050
	Lithium (Li)-Dissolved (mg/L)	0.0104	0.050	0.049	0.053	<0.50
	Magnesium (Mg)-Dissolved (mg/L)	10.6	60.6	53.4	48.0	872
	Manganese (Mn)-Dissolved (mg/L)	0.862	0.947	0.996	1.41	112
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	<0.0020	<0.0020	<0.0020	<0.10
	Nickel (Ni)-Dissolved (mg/L)	0.0034	0.0132	0.0154	0.0217	2.97
	Potassium (K)-Dissolved (mg/L)	<2.0	4.7	5.1	4.1	13.1
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0020	<0.0020	<0.0020	<0.10
	Silver (Ag)-Dissolved (mg/L)	<0.000020	<0.000040	<0.000040	<0.000040	<0.0020
	Sodium (Na)-Dissolved (mg/L)	5.5	10.8	8.6	9.1	23.4
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00040	<0.00040	<0.00040	<0.020
	Tin (Sn)-Dissolved (mg/L)	<0.00050	<0.0010	<0.0010	<0.0010	<0.050
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.020
	Uranium (U)-Dissolved (mg/L)	0.00063	0.00168	0.00187	0.00076	<0.020
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0020	<0.0020	<0.0020	<0.10
	Zinc (Zn)-Dissolved (mg/L)	0.105	1.00	0.744	1.16	447

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L563872-16	L563872-17	L563872-18	L563872-19	L563872-20
		Description					
		Sampled Date	03-OCT-07	03-OCT-07	04-OCT-07	04-OCT-07	05-OCT-07
		Sampled Time					
		Client ID	SRK05-SP-5	SRK05-SP-6	X16A	X16B	X18A
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO ₃) (mg/L)		4990	1430	182	218	837
	Conductivity (uS/cm)		6530	2450	335	401	1480
	pH (pH)		6.75	7.83	8.04	8.13	7.78
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)		252	164	166	206	256
	Sulfate (SO ₄) (mg/L)		4800	1380	23.8	25.0	549
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		<0.50	<0.025	0.0072	0.0185	<0.025
	Antimony (Sb)-Dissolved (mg/L)		<0.050	<0.0025	<0.00050	<0.00050	<0.0025
	Arsenic (As)-Dissolved (mg/L)		<0.050	<0.0025	<0.00050	<0.00050	0.0059
	Barium (Ba)-Dissolved (mg/L)		<0.040	0.039	0.084	0.125	0.196
	Beryllium (Be)-Dissolved (mg/L)		<0.10	<0.0050	<0.0010	<0.0010	<0.0050
	Boron (B)-Dissolved (mg/L)		<0.20	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)		0.0313	<0.000085	0.000058	<0.000017	<0.000085
	Calcium (Ca)-Dissolved (mg/L)		504	398	53.5	62.0	240
	Chromium (Cr)-Dissolved (mg/L)		<0.10	<0.0050	<0.0010	<0.0010	<0.0050
	Cobalt (Co)-Dissolved (mg/L)		0.040	<0.0015	<0.00030	<0.00030	<0.0015
	Copper (Cu)-Dissolved (mg/L)		<0.10	<0.0050	<0.0010	<0.0010	<0.0050
	Iron (Fe)-Dissolved (mg/L)		0.138	<0.030	<0.030	<0.030	2.24
	Lead (Pb)-Dissolved (mg/L)		<0.050	<0.0025	<0.00050	<0.00050	<0.0025
	Lithium (Li)-Dissolved (mg/L)		<0.50	<0.025	<0.0050	<0.0050	<0.025
	Magnesium (Mg)-Dissolved (mg/L)		906	106	11.6	15.5	57.7
	Manganese (Mn)-Dissolved (mg/L)		102	0.0552	0.00153	<0.00040	1.24
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)		<0.10	<0.0050	0.0022	0.0017	<0.0050
	Nickel (Ni)-Dissolved (mg/L)		2.21	<0.0050	<0.0010	<0.0010	<0.0050
	Potassium (K)-Dissolved (mg/L)		12.2	4.5	<2.0	<2.0	6.0
	Selenium (Se)-Dissolved (mg/L)		<0.10	<0.0050	0.0010	0.0017	<0.0050
	Silver (Ag)-Dissolved (mg/L)		<0.0020	<0.00010	<0.000020	<0.000020	<0.00010
	Sodium (Na)-Dissolved (mg/L)		32.5	77.2	2.0	<2.0	22.6
	Thallium (Tl)-Dissolved (mg/L)		<0.020	<0.0010	<0.00020	<0.00020	<0.0010
	Tin (Sn)-Dissolved (mg/L)		<0.050	<0.0025	<0.00050	<0.00050	<0.0025
	Titanium (Ti)-Dissolved (mg/L)		<0.020	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)		<0.020	0.0044	0.00158	0.00194	0.0079
	Vanadium (V)-Dissolved (mg/L)		<0.10	<0.0050	<0.0010	<0.0010	<0.0050
	Zinc (Zn)-Dissolved (mg/L)		324	0.0080	0.0104	0.0065	0.0102

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ALK-PCT-VA	Water	Alkalinity (Species) 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.			
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.			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.			
HG-DIS-CCME-CVAFS-VA	Water	Diss. Mercury in Water by CVAFS (CCME)	EPA 3005A/245.7
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 filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).			
MET-DIS-CCME-ICP-VA	Water	Diss. Metals in Water by ICPOES (CCME)	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 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 - optical emission spectrophotometry (EPA Method 6010B).			
MET-DIS-CCME-MS-VA	Water	Diss. Metals in Water by ICPMS (CCME)	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).			
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			
SO4-TUR-VA	Water	Sulphate(SO4) by Turbidity	APHA 4500-SO4 "Sulphate"
This analysis is carried out using procedures adapted from APHA Method 4500-SO4 "Sulphate". Sulphate is determined using the turbidimetric method.			
ZN-DIS-CCME-ICP-VA	Water	Diss. Zinc in Water by ICPOES (CCME)	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 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 - optical emission spectrophotometry (EPA Method 6010B).			

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA		

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

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.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Environmental Division



CANADA TOLL FREE 1-800-668-9878

www.alsenviro.com

LS63872

REPORT TO:		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: <u>Gastner Inc Limited</u>		STANDARD ☒ EXCEL ☒ OTHER ☐ CUSTOM ☐ FAX ☐		☒ REGULAR SERVICE (DEFAULT)	
CONTACT: <u>Jennifer Furston</u>		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		☐ RUSH SERVICE (2-3 DAYS)	
ADDRESS: <u>2261 and Avenue</u>		EMAIL 1: <u>jfurstone@gastnerinc.com</u>		☐ PRIORITY SERVICE (1 DAY or ASAP)	
Withhorse, Yukon, Y1A 5W1		EMAIL 2:		☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
PHONE: FAX:		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST	
INVOICE TO: SAME AS REPORT ? ☒ YES / NO		CLIENT / PROJECT INFORMATION: <u>Furo Mine</u>			
CONTACT:		JOB #: <u>70549</u>			
ADDRESS:		PO / AFE: <u>70549</u>			
PHONE: FAX:		Legal Site Description:			
Lab Work Order # (lab use only)		QUOTE #:			
SAMPLE IDENTIFICATION		DATE		TIME	
(This description will appear on the report)				SAMPLE TYPE	
POS-01-01		Oct 2, 2007		GUD	
POS-01-02					
POS-01-03-5					
POS-01-03					
POS-01-04					
POS-01-05					
POS-01-06					
SRK05-SP-1A		Oct 3, 2007			
SRK05-SP-1A-5					
SRK05-SP-1B					
GUIDELINES / REGULATIONS		SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS			
CEME Aquatic Life Metals		Please use Zn DL of 0.005 mg/L.			

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

RELINQUISHED BY: <u>Dan Zunker</u>	DATE & TIME: <u>Oct 6, 2007</u>	RECEIVED BY: <u>AK</u>	DATE & TIME: <u>Oct 9, 2007</u>	TEMPERATURE: <u>5°C</u>	SAMPLE CONDITION (lab use only)
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:		SAMPLES RECEIVED IN GOOD CONDITION ? YES / NO



REPORT TO: Jennifer Furstner		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: Gartner Inc Limited		STANDARD ☒ OTHER ☐		☒ REGULAR SERVICE (DEFAULT)	
CONTACT: Natasja Markovic - Micovic		PDF ☒ EXCEL ☐ CUSTOM ☐ FAX ☐		☐ RUSH SERVICE (2-3 DAYS)	
ADDRESS: 2251 2nd Avenue		EMAIL 1: jfurstner@gartner.com		☐ PRIORITY SERVICE (1 DAY or ASAP)	
Whitmore, Yukon Y1A 5W1		EMAIL 2:		☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
PHONE: 867.433.4444 FAX: 867.433.6321		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST	
INVOICE TO: SAME AS REPORT? YES / NO		CLIENT / PROJECT INFORMATION: Faro Mine.			
COMPANY:		JOB #: 70549			
CONTACT:		PO / AFE: 70549			
ADDRESS:		Legal Site Description:			
PHONE:		QUOTE #:			
Lab Work Order #		SAMPLER (Initials): KM, JF			
(lab use only)					
Sample #	SAMPLE IDENTIFICATION (This description will appear on the report)	DATE	TIME	SAMPLE TYPE	
	SRK05 - SP-2	Oct. 3, 2007		GD	X
	SRK05 - SP-3A				X
	SRK05 - SP-3B				X
	SRK05 - SP-4A				X
	SRK05 - SP-4B				X
	SRK05 - SP-5				X
	SRK05 - SP-6				X
	X16 A	Oct. 4, 2007			X
	X16 B	Oct. 4, 2007			X
	X18 A	Oct. 5, 2007			X
GUIDELINES / REGULATIONS		SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS			
CCME Aquatic Life Metals		Please use Zn D. of 0.005 mg/L.			
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.					
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	TEMPERATURE	SAMPLE CONDITION (lab use only)
per Hunter	Oct. 6, 2007	AK	Oct 9, 2007	5°C	SAMPLES RECEIVED IN GOOD CONDITION? YES / NO
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:		

Project 70549
Report To JEN FUNSTON, GARTNER LEE LTD.
ALS File No. L563872
Date Received 09-Oct-07
Date 22-Nov-07

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Anions and Nutrients											
L563872-7	Water	WG675272-13	Alkalinity, Total (as CaCO3)	282	282	mg/L	0.093	20	-	-	-
L563872-7	Water	WG676348-8	Sulfate (SO4)	961	946	mg/L	1.5	20	-	-	-
Dissolved Metals											
L563872-15	Water	WG674305-17	Aluminum (Al)-Dissolved	<0.50	<0.50	mg/L	N/A	20	-	-	RPD-NA
L563872-15	Water	WG674305-17	Antimony (Sb)-Dissolved	<0.050	<0.050	mg/L	N/A	20	-	-	RPD-NA
L563872-15	Water	WG674305-17	Arsenic (As)-Dissolved	<0.050	<0.050	mg/L	N/A	20	-	-	RPD-NA
L563872-15	Water	WG674305-17	Barium (Ba)-Dissolved	<0.040	<0.040	mg/L	N/A	20	-	-	RPD-NA
L563872-15	Water	WG674305-17	Beryllium (Be)-Dissolved	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
L563872-15	Water	WG674305-17	Boron (B)-Dissolved	<0.20	<0.20	mg/L	N/A	20	-	-	RPD-NA
L563872-15	Water	WG674305-17	Cadmium (Cd)-Dissolved	0.0916	0.0882	mg/L	3.8	20	-	-	-
L563872-15	Water	WG674305-17	Calcium (Ca)-Dissolved	394	395	mg/L	0.36	20	-	-	-
L563872-15	Water	WG674305-17	Chromium (Cr)-Dissolved	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
L563872-15	Water	WG674305-17	Cobalt (Co)-Dissolved	<0.030	<0.030	mg/L	N/A	20	-	-	RPD-NA
L563872-15	Water	WG674305-17	Copper (Cu)-Dissolved	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
L563872-15	Water	WG674305-17	Iron (Fe)-Dissolved	0.073	<0.060	mg/L	N/A	20	-	-	RPD-NA
L563872-15	Water	WG674305-17	Lead (Pb)-Dissolved	<0.050	<0.050	mg/L	N/A	20	-	-	RPD-NA
L563872-15	Water	WG674305-17	Lithium (Li)-Dissolved	<0.50	<0.50	mg/L	N/A	20	-	-	RPD-NA
L563872-15	Water	WG674305-17	Magnesium (Mg)-Dissolved	872	877	mg/L	0.56	20	-	-	-
L563872-15	Water	WG674305-17	Manganese (Mn)-Dissolved	112	108	mg/L	3.6	20	-	-	-
L563872-15	Water	WG674305-17	Mercury (Hg)-Dissolved	<0.000020	<0.000020	mg/L	N/A	20	-	-	RPD-NA
L563872-15	Water	WG674305-17	Molybdenum (Mo)-Dissolved	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
L563872-15	Water	WG674305-17	Nickel (Ni)-Dissolved	2.97	2.87	mg/L	3.3	20	-	-	-
L563872-15	Water	WG674305-17	Potassium (K)-Dissolved	13.1	13.0	mg/L	-	-	0.1	16	J
L563872-15	Water	WG674305-17	Selenium (Se)-Dissolved	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
L563872-15	Water	WG674305-17	Silver (Ag)-Dissolved	<0.0020	<0.0020	mg/L	N/A	20	-	-	RPD-NA
L563872-15	Water	WG674305-17	Sodium (Na)-Dissolved	23.4	23.3	mg/L	-	-	0.0	16	J
L563872-15	Water	WG674305-17	Thallium (Tl)-Dissolved	<0.020	<0.020	mg/L	N/A	20	-	-	RPD-NA
L563872-15	Water	WG674305-17	Tin (Sn)-Dissolved	<0.050	<0.050	mg/L	N/A	20	-	-	RPD-NA
L563872-15	Water	WG674305-17	Titanium (Ti)-Dissolved	<0.020	<0.020	mg/L	N/A	20	-	-	RPD-NA
L563872-15	Water	WG674305-17	Uranium (U)-Dissolved	<0.020	<0.020	mg/L	N/A	20	-	-	RPD-NA
L563872-15	Water	WG674305-17	Vanadium (V)-Dissolved	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
L563872-15	Water	WG674305-17	Zinc (Zn)-Dissolved	447	430	mg/L	3.9	20	-	-	-

Anions and Nutrients

L563872-16	Water	WG676348-9	Sulfate (SO4)	4800	4870	mg/L	1.5	20	-	-	-
L563872-18	Water	WG675272-14	Alkalinity, Total (as CaCO3)	166	165	mg/L	0.62	20	-	-	-

Physical Tests

L563872-20	Water	WG674294-9	Conductivity	1480	1470	uS/cm	0.34	20	-	-	-
L563872-20	Water	WG674294-9	pH	7.78	7.77	pH	0.11	20	-	-	-



Environmental Division

ANALYTICAL REPORT

GARTNER LEE LTD.

ATTN: JEN FUNSTON

2251 2ND AVENUE

WHITEHORSE YT Y1A 5W1

Reported On: 24-DEC-07 03:28 PM

Revision: 2

Lab Work Order #: **L563873**

Date Received: **09-OCT-07**

Project P.O. #: FARO MINE

Job Reference: 70549

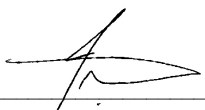
Legal Site Desc:

CofC Numbers: A010661, A010662

Other Information:

Comments: ADDITIONAL 08-NOV-07 11:46

Please note that certain Metals detection limits have been increased for some of the samples due to the interferences encountered during the analysis.



Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

NATASHA MARKOVIC-MIROVIC

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L563873-1	L563873-2	L563873-3	L563873-4	L563873-5
		02-OCT-07	02-OCT-07	02-OCT-07	02-OCT-07	02-OCT-07
		BH1	BH2	BH4	BH5	BH6
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	211	208	227	273	197
	Conductivity (uS/cm)	427	417	432	543	397
	pH (pH)	6.47	6.54	6.33	6.09	6.47
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	126	116	99.2	185	117
	Sulfate (SO4) (mg/L)	94.1	97.0	129	124	88.1
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.102	0.102	1.38	0.0676	0.0341
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.0025	<0.00050	<0.00050	<0.00050
	Arsenic (As)-Dissolved (mg/L)	<0.00050	<0.0025	<0.00050	<0.00050	<0.00050
	Barium (Ba)-Dissolved (mg/L)	0.046	0.051	<0.020	0.037	0.038
	Beryllium (Be)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.00624	0.0210	0.00567	0.000674	0.00144
	Calcium (Ca)-Dissolved (mg/L)	62.0	58.3	67.5	70.9	54.2
	Chromium (Cr)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010
	Cobalt (Co)-Dissolved (mg/L)	0.00354	<0.0015	0.0167	0.0135	0.0313
	Copper (Cu)-Dissolved (mg/L)	0.0086	<0.0050	0.0190	<0.0010	<0.0010
	Iron (Fe)-Dissolved (mg/L)	<0.030	0.043	0.073	16.4	4.71
	Lead (Pb)-Dissolved (mg/L)	0.00401	<0.0025	0.00100	0.00070	0.00078
	Lithium (Li)-Dissolved (mg/L)	0.0148	<0.025	0.0292	0.0345	0.0233
	Magnesium (Mg)-Dissolved (mg/L)	13.7	15.3	14.1	23.4	15.1
	Manganese (Mn)-Dissolved (mg/L)	0.307	0.0121	0.182	1.10	1.25
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010
	Nickel (Ni)-Dissolved (mg/L)	0.0132	0.0412	0.0254	0.0210	0.0295
	Potassium (K)-Dissolved (mg/L)	<2.0	<2.0	<2.0	3.2	2.2
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010
	Silver (Ag)-Dissolved (mg/L)	<0.000020	<0.00010	<0.000020	<0.000020	<0.000020
	Sodium (Na)-Dissolved (mg/L)	4.8	4.2	4.6	10.9	5.0
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.0010	<0.00020	<0.00020	<0.00020
	Tin (Sn)-Dissolved (mg/L)	<0.00050	<0.0025	<0.00050	<0.00050	<0.00050
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.00059	<0.0010	<0.00020	0.00020	0.00082
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	2.43	10.8	1.94	2.64	3.79

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L563873-6	L563873-7	L563873-8	L563873-9	L563873-10
Grouping Analyte						
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	957	660	365	363	1880
	Conductivity (uS/cm)	1560	1140	645	638	2900
	pH (pH)	7.49	7.64	7.92	7.94	6.90
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	267	259	254	263	385
	Sulfate (SO4) (mg/L)	673	364	123	116	1620
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.025	<0.025	<0.010	<0.010	<0.050
	Antimony (Sb)-Dissolved (mg/L)	<0.0025	<0.0025	<0.0010	<0.0010	<0.0050
	Arsenic (As)-Dissolved (mg/L)	<0.0025	0.0029	<0.0010	<0.0010	<0.0050
	Barium (Ba)-Dissolved (mg/L)	0.063	0.070	0.060	0.060	<0.020
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0020	<0.0020	<0.010
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.000598	<0.000085	0.000081	0.000075	0.00146
	Calcium (Ca)-Dissolved (mg/L)	289	203	105	104	558
	Chromium (Cr)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0020	<0.0020	<0.010
	Cobalt (Co)-Dissolved (mg/L)	<0.0015	<0.0015	<0.00060	<0.00060	0.0793
	Copper (Cu)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0020	<0.0020	<0.010
	Iron (Fe)-Dissolved (mg/L)	<0.030	0.595	<0.030	0.037	0.202
	Lead (Pb)-Dissolved (mg/L)	<0.0025	<0.0025	<0.0010	<0.0010	<0.0050
	Lithium (Li)-Dissolved (mg/L)	<0.025	<0.025	<0.010	<0.010	<0.050
	Magnesium (Mg)-Dissolved (mg/L)	56.9	37.1	24.9	24.8	117
	Manganese (Mn)-Dissolved (mg/L)	4.17	0.112	0.943	0.943	53.6
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0020	<0.0020	<0.010
	Nickel (Ni)-Dissolved (mg/L)	0.0059	<0.0050	<0.0020	0.0021	0.143
	Potassium (K)-Dissolved (mg/L)	6.4	4.2	2.8	2.8	6.8
	Selenium (Se)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0020	<0.0020	<0.010
	Silver (Ag)-Dissolved (mg/L)	<0.00010	<0.00010	<0.000040	<0.000040	<0.00020
	Sodium (Na)-Dissolved (mg/L)	25.3	24.6	9.7	9.5	41.2
	Thallium (Tl)-Dissolved (mg/L)	<0.0010	<0.0010	<0.00040	<0.00040	<0.0020
	Tin (Sn)-Dissolved (mg/L)	<0.0025	<0.0025	<0.0010	<0.0010	<0.0050
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.0077	0.0063	0.00250	0.00248	0.0075
	Vanadium (V)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0020	<0.0020	<0.010
	Zinc (Zn)-Dissolved (mg/L)	0.0090	0.0060	0.0053	0.0056	0.0308

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L563873-11	L563873-12	L563873-13	L563873-14	L563873-15
		Description					
		Sampled Date	05-OCT-07	05-OCT-07	04-OCT-07	04-OCT-07	04-OCT-07
		Sampled Time					
		Client ID	P01-04A	P01-04B	P01-11	P05-02	P05-03
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		477	849	1390	1360	683
	Conductivity (uS/cm)		1050	1510	2250	2120	1210
	pH (pH)		7.20	7.53	7.24	7.25	7.61
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)		582	317	337	343	281
	Sulfate (SO4) (mg/L)		31.2	546	1110	1000	381
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		<0.010	<0.025	<0.025	<0.025	<0.025
	Antimony (Sb)-Dissolved (mg/L)		<0.0010	<0.0025	<0.0025	<0.0025	<0.0025
	Arsenic (As)-Dissolved (mg/L)		<0.0010	<0.0025	0.0306	0.0080	<0.0025
	Barium (Ba)-Dissolved (mg/L)		0.383	0.025	0.037	0.048	0.174
	Beryllium (Be)-Dissolved (mg/L)		<0.0020	<0.0050	<0.0050	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)		<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)		0.000066	<0.000085	<0.000085	0.000094	0.000134
	Calcium (Ca)-Dissolved (mg/L)		126	276	434	423	209
	Chromium (Cr)-Dissolved (mg/L)		<0.0020	<0.0050	<0.0050	<0.0050	<0.0050
	Cobalt (Co)-Dissolved (mg/L)		<0.00060	<0.0015	0.0029	0.0085	0.0016
	Copper (Cu)-Dissolved (mg/L)		<0.0020	<0.0050	<0.0050	<0.0050	<0.0050
	Iron (Fe)-Dissolved (mg/L)		0.505	4.64	24.7	4.65	1.90
	Lead (Pb)-Dissolved (mg/L)		<0.0010	<0.0025	<0.0025	<0.0025	<0.0025
	Lithium (Li)-Dissolved (mg/L)		0.144	<0.025	<0.025	<0.025	<0.025
	Magnesium (Mg)-Dissolved (mg/L)		39.5	38.8	74.9	74.2	39.0
	Manganese (Mn)-Dissolved (mg/L)		0.208	1.83	15.8	14.1	7.58
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)		<0.0020	<0.0050	<0.0050	<0.0050	<0.0050
	Nickel (Ni)-Dissolved (mg/L)		<0.0020	<0.0050	0.0053	0.0093	<0.0050
	Potassium (K)-Dissolved (mg/L)		3.2	4.4	6.7	7.0	4.0
	Selenium (Se)-Dissolved (mg/L)		<0.0020	<0.0050	<0.0050	<0.0050	<0.0050
	Silver (Ag)-Dissolved (mg/L)		0.000358	<0.00010	<0.00010	<0.00010	<0.00010
	Sodium (Na)-Dissolved (mg/L)		67.4	43.9	42.8	45.9	27.6
	Thallium (Tl)-Dissolved (mg/L)		<0.00040	<0.0010	<0.0010	<0.0010	<0.0010
	Tin (Sn)-Dissolved (mg/L)		<0.0010	<0.0025	<0.0025	<0.0025	<0.0025
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)		<0.00040	0.0038	0.0052	0.0044	0.0082
	Vanadium (V)-Dissolved (mg/L)		<0.0020	<0.0050	<0.0050	<0.0050	<0.0050
	Zinc (Zn)-Dissolved (mg/L)		0.0065	0.0063	0.0092	0.0302	0.0074

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID			
		Description			
		Sampled Date			
		Sampled Time			
		Client ID			
Grouping	Analyte				
WATER					
Physical Tests	Hardness (as CaCO3) (mg/L)	216	538	573	
	Conductivity (uS/cm)	409	1000	1120	
	pH (pH)	6.61	7.59	7.82	
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	153	269	280	
	Sulfate (SO4) (mg/L)	63.4	293	311	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0424	<0.010	<0.010	
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.0010	<0.0010	
	Arsenic (As)-Dissolved (mg/L)	<0.00050	<0.0010	<0.0010	
	Barium (Ba)-Dissolved (mg/L)	0.043	0.037	0.024	
	Beryllium (Be)-Dissolved (mg/L)	<0.0010	<0.0020	<0.0020	
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	
	Cadmium (Cd)-Dissolved (mg/L)	0.00248	0.000190	0.000045	
	Calcium (Ca)-Dissolved (mg/L)	63.3	159	184	
	Chromium (Cr)-Dissolved (mg/L)	<0.0010	<0.0020	<0.0020	
	Cobalt (Co)-Dissolved (mg/L)	0.00077	0.00373	<0.00060	
	Copper (Cu)-Dissolved (mg/L)	<0.0010	0.0030	<0.0020	
	Iron (Fe)-Dissolved (mg/L)	<0.030	<0.030	0.570	
	Lead (Pb)-Dissolved (mg/L)	<0.00050	<0.0010	<0.0010	
	Lithium (Li)-Dissolved (mg/L)	0.0159	<0.010	<0.010	
	Magnesium (Mg)-Dissolved (mg/L)	14.2	34.0	27.8	
	Manganese (Mn)-Dissolved (mg/L)	0.0203	5.25	0.167	
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	<0.0020	<0.0020	
	Nickel (Ni)-Dissolved (mg/L)	0.0092	0.0052	<0.0020	
	Potassium (K)-Dissolved (mg/L)	<2.0	4.1	3.2	
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0020	<0.0020	
	Silver (Ag)-Dissolved (mg/L)	<0.000020	<0.000040	<0.000040	
	Sodium (Na)-Dissolved (mg/L)	4.7	25.6	44.9	
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00040	<0.00040	
	Tin (Sn)-Dissolved (mg/L)	<0.00050	<0.0010	<0.0010	
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	
	Uranium (U)-Dissolved (mg/L)	0.00101	0.00918	0.00531	
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0020	<0.0020	
	Zinc (Zn)-Dissolved (mg/L)	1.57	0.0067	0.0064	

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
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.			
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.			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.			
HG-DIS-CCME-CVAFS-VA	Water	Diss. Mercury in Water by CVAFS (CCME)	EPA 3005A/245.7
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 filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).			
MET-DIS-CCME-ICP-VA	Water	Diss. Metals in Water by ICPOES (CCME)	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 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 - optical emission spectrophotometry (EPA Method 6010B).			
MET-DIS-CCME-MS-VA	Water	Diss. Metals in Water by ICPMS (CCME)	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).			
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			
SO4-TUR-VA	Water	Sulphate(SO4) by Turbidity	APHA 4500-SO4 "Sulphate"
This analysis is carried out using procedures adapted from APHA Method 4500-SO4 "Sulphate". Sulphate is determined using the turbidimetric method.			
ZN-DIS-CCME-ICP-VA	Water	Diss. Zinc in Water by ICPOES (CCME)	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 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 - optical emission spectrophotometry (EPA Method 6010B).			

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)	
Laboratory Definition Code	Laboratory Location		Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA			

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

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.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.



1503873

REPORT TO:		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: <u>Garthar Lee Limited</u>		STANDARD ☒ OTHER ☐		☒ REGULAR SERVICE (DEFAULT)	
CONTACT: <u>Jennifer Furstner</u>		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		☐ RUSH SERVICE (2-3 DAYS)	
ADDRESS: <u>2251 2nd Avenue</u>		EMAIL 1: <u>jfurstner@gartharlee.com</u>		☐ PRIORITY SERVICE (1 DAY or ASAP)	
Whithorse, Yukon Y1A 5W1		EMAIL 2:		☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
PHONE: <u>867.633.6474</u> FAX: <u>867.633.6321</u>		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST	
INVOICE TO: SAME AS REPORT ? ☒ YES / NO		CLIENT / PROJECT INFORMATION: <u>Faro Mine</u>			
COMPANY:		JOB #: <u>70549</u>			
CONTACT:		PO / AFE: <u>70549</u>			
ADDRESS:		Legal Site Description:			
PHONE:		QUOTE #:			
Lab Work Order #		SAMPLER (Initials): <u>KWJ-SF</u>			
(lab use only)					
Sample #	SAMPLE IDENTIFICATION (This description will appear on the report)	DATE	TIME	SAMPLE TYPE	
	BH1	Oct. 2, 2007		GW	X
	BH2	Oct. 2, 2007			X
	BH4	Oct. 2, 2007			X
	BH5	Oct. 2, 2007			X
	BH6	Oct. 2, 2007			X
	PO1-01A	Oct. 5, 2007			X
	PO1-01B	Oct. 5, 2007			X
	PO1-02A	Oct. 4, 2007			X
	PO1-02A-S	Oct. 4, 2007			X
	PO1-03	Oct. 4, 2007			X
GUIDELINES / REGULATIONS					
SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS					
CONE Aquatic Life Metals Please use Zn TL of 0.005 mg/L					
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 reverse page of the white report copy.					
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	TEMPERATURE	SAMPLE CONDITION (lab use only)
<u>Jan Hunter</u>	<u>Oct 6, 2007</u>	<u>AK</u>	<u>Oct 9, 2007</u>	<u>29</u>	SAMPLES RECEIVED IN GOOD CONDITION ? YES / NO
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:		

Environmental Division



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REPORT TO:

REPORT FORMAT / DISTRIBUTION

SERVICE REQUESTED

COMPANY: Gauthier Lee Limited

STANDARD ☒ OTHER ☐

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CONTACT: Jennifer Furstson

PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐

☐ RUSH SERVICE (2-3 DAYS)

ADDRESS: 2051 2nd Avenue

EMAIL 1: jfurstson@gauthierlee.com

☐ PRIORITY SERVICE (1 DAY or ASAP)

Whitehorse, Yukon Y1A 5W1

EMAIL 2:

☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS

PHONE: 867.633.6474 FAX: 867.633.6321

INDICATE BOTTLES: FILTERED / PRESERVED (F/P)

ANALYSIS REQUEST

INVOICE TO: SAME AS REPORT ? (YES / NO)

COMPANY:

CLIENT / PROJECT INFORMATION: Faro Mine

CONTACT:

JOB #: 70549

ADDRESS:

PO / AFE: 70549

PHONE:

Legal Site Description:

FAX:

QUOTE #:

Lab Work Order #

SAMPLER (Initials):

KW, JF

Lab use only

DATE

TIME

SAMPLE TYPE

HAZARDOUS ?

HIGHLY CONTAMINATED ?

NUMBER OF CONTAINERS

SAMPLE IDENTIFICATION
(This description will appear on the report)

DATE

TIME

SAMPLE TYPE

General Chemistry
pH, cond, hardness,
total alkalinity,
sulphate.

Dissolved Metals

HAZARDOUS ?

HIGHLY CONTAMINATED ?

NUMBER OF CONTAINERS

P01-04A

Oct. 5, 2007

6:00

X

X

X

2

P01-04B

Oct. 5, 2007

X

X

X

X

2

P01-11

Oct. 4, 2007

X

X

X

X

2

P05-02

Oct. 4, 2007

X

X

X

X

2

P05-03

Oct. 4, 2007

X

X

X

X

2

P05-04

Oct. 2, 2007

X

X

X

X

2

X25A-96

Oct. 4, 2007

6:00

X

X

X

2

X25B-96

Oct. 4, 2007

6:00

X

X

X

2

GUIDELINES / REGULATIONS

SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS

CONE Analytic Life Metals

Please use Zn DL of 0.005 mg/L

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 reverse page of the white report copy.

RELINQUISHED BY:

DATE & TIME:

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ALN

DATE & TIME: 09/10/07

TEMPERATURE

SAMPLE CONDITION (lab use only)

SAMPLES RECEIVED IN GOOD CONDITION ? YES / NO

RELINQUISHED BY:

DATE & TIME:

RECEIVED BY:

20

DATE & TIME:

TEMPERATURE

SAMPLE CONDITION (lab use only)

SAMPLES RECEIVED IN GOOD CONDITION ? YES / NO

REFER TO BACK PAGE FOR REGIONAL LOCATIONS AND SAMPLING INFORMATION

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GEN14.00

Project 70549
Report To JEN FUNSTON, GARTNER LEE LTD.
ALS File No. L563873
Date Received 09-Oct-07
Date 24-Dec-07

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Dissolved Metals											
L563873-1	Water	WG674305-16	Aluminum (Al)-Dissolved	0.102	0.102	mg/L	0.33	20	-	-	-
L563873-1	Water	WG674305-16	Antimony (Sb)-Dissolved	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L563873-1	Water	WG674305-16	Arsenic (As)-Dissolved	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L563873-1	Water	WG674305-16	Barium (Ba)-Dissolved	0.046	0.044	mg/L	-	-	0.001	0.08	J
L563873-1	Water	WG674305-16	Beryllium (Be)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L563873-1	Water	WG674305-16	Boron (B)-Dissolved	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
L563873-1	Water	WG674305-16	Cadmium (Cd)-Dissolved	0.00624	0.00618	mg/L	1.1	20	-	-	-
L563873-1	Water	WG674305-16	Calcium (Ca)-Dissolved	62.0	62.2	mg/L	0.32	20	-	-	-
L563873-1	Water	WG674305-16	Chromium (Cr)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L563873-1	Water	WG674305-16	Cobalt (Co)-Dissolved	0.00354	0.00348	mg/L	1.9	20	-	-	-
L563873-1	Water	WG674305-16	Copper (Cu)-Dissolved	0.0086	0.0086	mg/L	-	-	0.0000	0.004	J
L563873-1	Water	WG674305-16	Iron (Fe)-Dissolved	<0.030	<0.030	mg/L	N/A	20	-	-	RPD-NA
L563873-1	Water	WG674305-16	Lead (Pb)-Dissolved	0.00401	0.00394	mg/L	-	-	0.00007	0.002	J
L563873-1	Water	WG674305-16	Lithium (Li)-Dissolved	0.0148	0.0149	mg/L	-	-	0.0000	0.02	J
L563873-1	Water	WG674305-16	Magnesium (Mg)-Dissolved	13.7	13.6	mg/L	1.3	20	-	-	-
L563873-1	Water	WG674305-16	Manganese (Mn)-Dissolved	0.307	0.307	mg/L	0.28	20	-	-	-
L563873-1	Water	WG674305-16	Mercury (Hg)-Dissolved	<0.000020	<0.000020	mg/L	N/A	20	-	-	RPD-NA
L563873-1	Water	WG674305-16	Molybdenum (Mo)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L563873-1	Water	WG674305-16	Nickel (Ni)-Dissolved	0.0132	0.0130	mg/L	1.6	20	-	-	-
L563873-1	Water	WG674305-16	Potassium (K)-Dissolved	<2.0	<2.0	mg/L	N/A	20	-	-	RPD-NA
L563873-1	Water	WG674305-16	Selenium (Se)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L563873-1	Water	WG674305-16	Silver (Ag)-Dissolved	<0.000020	<0.000020	mg/L	N/A	20	-	-	RPD-NA
L563873-1	Water	WG674305-16	Sodium (Na)-Dissolved	4.8	4.6	mg/L	-	-	0.2	8	J
L563873-1	Water	WG674305-16	Thallium (Tl)-Dissolved	<0.00020	<0.00020	mg/L	N/A	20	-	-	RPD-NA
L563873-1	Water	WG674305-16	Tin (Sn)-Dissolved	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L563873-1	Water	WG674305-16	Titanium (Ti)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L563873-1	Water	WG674305-16	Uranium (U)-Dissolved	0.00059	0.00058	mg/L	-	-	0.00001	0.0008	J
L563873-1	Water	WG674305-16	Vanadium (V)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L563873-1	Water	WG674305-16	Zinc (Zn)-Dissolved	2.43	2.41	mg/L	0.96	20	-	-	-
Anions and Nutrients											
L563873-4	Water	WG676348-10	Sulfate (SO4)	124	122	mg/L	2.0	20	-	-	-
L563873-11	Water	WG676348-11	Sulfate (SO4)	31.2	31.0	mg/L	0.42	20	-	-	-
L563873-14	Water	WG675272-15	Alkalinity, Total (as CaCO3)	343	338	mg/L	1.6	20	-	-	-



Environmental Division

ANALYTICAL REPORT

GARTNER LEE LTD.

ATTN: JEN FUNSTON

2251 2ND AVENUE

WHITEHORSE YT Y1A 5W1

Reported On: 27-NOV-07 04:15 PM

Revision: 3

Lab Work Order #: **L566058**

Date Received: **15-OCT-07**

Project P.O. #: 70549

Job Reference: 70549 FARO MINE

Legal Site Desc:

CofC Numbers: A010542, A010544

Other Information:

Comments: ADDITIONAL 22-NOV-07 16:05
ADDITIONAL 22-NOV-07 16:03
Please note that some of the Metals detection limits have been increased for some of the samples due to the interferences encountered during the analysis.


Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

NATASHA MARKOVIC-MIROVIC

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L566058-1	L566058-2	L566058-3	L566058-4	L566058-5
		11-OCT-07	11-OCT-07	12-OCT-07	10-OCT-07	11-OCT-07
		P2001-02A	P2001-02B	P96-9A	ETA05-04	V34
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	799	777	2370	3130	666
	Conductivity (uS/cm)	1260	1250	3270	5150	1070
	pH (pH)	7.87	7.95	7.46	6.05	8.01
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	476	464	520	138	473
	Sulfate (SO4) (mg/L)	332	317	1760	3700	131
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.247	0.043	0.848	0.147	0.682
	Antimony (Sb)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0050	<0.0050	<0.0010
	Arsenic (As)-Dissolved (mg/L)	0.0111	0.0154	<0.0050	<0.0050	0.0013
	Barium (Ba)-Dissolved (mg/L)	<0.020	<0.020	0.058	<0.040	0.128
	Beryllium (Be)-Dissolved (mg/L)	<0.0020	<0.0020	<0.010	<0.010	<0.0020
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.20	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	<0.000034	<0.000034	0.00042	0.00461	<0.000034
	Calcium (Ca)-Dissolved (mg/L)	178	174	401	452	99.1
	Chromium (Cr)-Dissolved (mg/L)	<0.0020	<0.0020	<0.010	<0.010	<0.0020
	Cobalt (Co)-Dissolved (mg/L)	<0.00060	<0.00060	<0.0030	0.0611	<0.00060
	Copper (Cu)-Dissolved (mg/L)	<0.0020	<0.0020	<0.010	<0.010	<0.0020
	Iron (Fe)-Dissolved (mg/L)	0.909	1.63	<0.030	378	0.950
	Lead (Pb)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0050	0.0053	<0.0010
	Lithium (Li)-Dissolved (mg/L)	0.030	0.029	<0.050	<0.050	0.017
	Magnesium (Mg)-Dissolved (mg/L)	86.1	83.2	332	487	102
	Manganese (Mn)-Dissolved (mg/L)	0.102	0.179	0.0078	6.14	0.0739
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	0.000024	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0020	0.0021	<0.010	<0.010	0.0027
	Nickel (Ni)-Dissolved (mg/L)	<0.0020	<0.0020	<0.010	0.083	<0.0020
	Potassium (K)-Dissolved (mg/L)	3.8	3.8	5.1	11.9	3.3
	Selenium (Se)-Dissolved (mg/L)	<0.0020	<0.0020	<0.010	<0.010	<0.0020
	Silver (Ag)-Dissolved (mg/L)	<0.000040	<0.000040	<0.00020	<0.00020	<0.000040
	Sodium (Na)-Dissolved (mg/L)	6.5	7.3	13.5	53.8	6.1
	Thallium (Tl)-Dissolved (mg/L)	<0.00040	<0.00040	<0.0020	<0.0020	<0.00040
	Tin (Sn)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0050	<0.0050	<0.0010
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.020	<0.010
	Uranium (U)-Dissolved (mg/L)	0.0209	0.0195	0.0468	<0.0020	0.0117
	Vanadium (V)-Dissolved (mg/L)	<0.0020	<0.0020	<0.010	<0.010	<0.0020
	Zinc (Zn)-Dissolved (mg/L)	0.011	0.022	<0.050	40.1	0.038
Non-Halogenated Volatiles	Benzene (mg/L)				0.0115	
	Ethylbenzene (mg/L)				0.00244	
	Methyl t-butyl ether (MTBE) (mg/L)				<0.0010	
	Styrene (mg/L)				<0.00050	

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L566058-6	L566058-7	L566058-8	L566058-9	L566058-10
		11-OCT-07	11-OCT-07	11-OCT-07	10-OCT-07	10-OCT-07
		V35	V36	V37	X17A	X17B
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	1440	1020	433	264	311
	Conductivity (uS/cm)	2060	1560	794	459	548
	pH (pH)	7.83	7.82	7.96	8.05	7.98
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	528	416	430	225	259
	Sulfate (SO4) (mg/L)	870	544	63.9	34.6	48.6
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.270	<0.025	<0.010	0.0137	0.0073
	Antimony (Sb)-Dissolved (mg/L)	<0.0025	<0.0025	<0.0010	<0.00050	<0.00050
	Arsenic (As)-Dissolved (mg/L)	<0.0025	0.0068	<0.0010	<0.00050	<0.00050
	Barium (Ba)-Dissolved (mg/L)	<0.020	<0.020	0.146	0.159	0.208
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0020	<0.0010	<0.0010
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.000147	0.000224	0.000044	0.000040	<0.000017
	Calcium (Ca)-Dissolved (mg/L)	308	214	57.7	74.8	86.7
	Chromium (Cr)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0020	<0.0010	<0.0010
	Cobalt (Co)-Dissolved (mg/L)	<0.0015	<0.0015	<0.00060	<0.00030	<0.00030
	Copper (Cu)-Dissolved (mg/L)	<0.0050	<0.0050	0.0025	<0.0010	<0.0010
	Iron (Fe)-Dissolved (mg/L)	0.080	0.036	0.317	<0.030	0.794
	Lead (Pb)-Dissolved (mg/L)	<0.0025	<0.0025	<0.0010	<0.00050	<0.00050
	Lithium (Li)-Dissolved (mg/L)	0.026	0.035	0.025	<0.0050	0.0155
	Magnesium (Mg)-Dissolved (mg/L)	164	118	70.2	18.7	22.8
	Manganese (Mn)-Dissolved (mg/L)	0.815	0.100	0.0355	0.00950	0.226
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0050	<0.0050	0.0173	<0.0010	<0.0010
	Nickel (Ni)-Dissolved (mg/L)	0.0071	0.0082	<0.0020	<0.0010	<0.0010
	Potassium (K)-Dissolved (mg/L)	4.0	3.8	5.8	<2.0	2.4
	Selenium (Se)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0020	<0.0010	<0.0010
	Silver (Ag)-Dissolved (mg/L)	<0.00010	<0.00010	<0.000040	<0.000020	<0.000020
	Sodium (Na)-Dissolved (mg/L)	7.3	5.8	21.5	2.8	6.9
	Thallium (Tl)-Dissolved (mg/L)	<0.0010	<0.0010	<0.00040	<0.00020	<0.00020
	Tin (Sn)-Dissolved (mg/L)	<0.0025	<0.0025	<0.0010	<0.00050	<0.00050
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.0679	0.0233	0.00076	0.00225	0.00238
	Vanadium (V)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0020	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.029	0.030	0.011	0.0069	0.0086
Non-Halogenated Volatiles	Benzene (mg/L)					
	Ethylbenzene (mg/L)					
	Methyl t-butyl ether (MTBE) (mg/L)					
	Styrene (mg/L)					

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L566058-11	L566058-12	L566058-13	L566058-14	
		10-OCT-07	10-OCT-07	10-OCT-07	10-OCT-07	
		X21A	X21B	X21B-5	X21C	
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	4440	911	907	195	
	Conductivity (uS/cm)	13800	1780	1780	351	
	pH (pH)	4.08	6.73	6.76	8.13	
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	21.1	165	172	188	
	Sulfate (SO4) (mg/L)	16500	947	941	11.8	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.50	<0.025	<0.025	0.0124	
	Antimony (Sb)-Dissolved (mg/L)	<0.050	<0.0025	<0.0025	<0.00050	
	Arsenic (As)-Dissolved (mg/L)	<0.050	0.0065	0.0064	0.0270	
	Barium (Ba)-Dissolved (mg/L)	<0.20	0.021	0.020	0.184	
	Beryllium (Be)-Dissolved (mg/L)	<0.10	<0.0050	<0.0050	<0.0010	
	Boron (B)-Dissolved (mg/L)	<1.0	<0.10	<0.10	<0.10	
	Cadmium (Cd)-Dissolved (mg/L)	<0.0017	0.000111	<0.000085	0.000018	
	Calcium (Ca)-Dissolved (mg/L)	389	274	273	62.8	
	Chromium (Cr)-Dissolved (mg/L)	<0.10	<0.0050	<0.0050	<0.0010	
	Cobalt (Co)-Dissolved (mg/L)	<0.030	0.0117	0.0113	<0.00030	
	Copper (Cu)-Dissolved (mg/L)	<0.10	<0.0050	<0.0050	<0.0010	
	Iron (Fe)-Dissolved (mg/L)	6600	79.6	72.9	0.480	
	Lead (Pb)-Dissolved (mg/L)	0.073	<0.0025	<0.0025	<0.00050	
	Lithium (Li)-Dissolved (mg/L)	<0.50	<0.025	<0.025	<0.0050	
	Magnesium (Mg)-Dissolved (mg/L)	842	55.2	54.7	9.35	
	Manganese (Mn)-Dissolved (mg/L)	481	27.6	26.9	0.235	
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	
	Molybdenum (Mo)-Dissolved (mg/L)	<0.10	<0.0050	<0.0050	0.0042	
	Nickel (Ni)-Dissolved (mg/L)	<0.10	0.0163	0.0159	<0.0010	
	Potassium (K)-Dissolved (mg/L)	<20	4.5	4.3	<2.0	
	Selenium (Se)-Dissolved (mg/L)	<0.10	<0.0050	<0.0050	<0.0010	
	Silver (Ag)-Dissolved (mg/L)	<0.0020	<0.00010	<0.00010	<0.000020	
	Sodium (Na)-Dissolved (mg/L)	45	63.4	62.3	2.8	
	Thallium (Tl)-Dissolved (mg/L)	<0.020	<0.0010	<0.0010	<0.00020	
	Tin (Sn)-Dissolved (mg/L)	<0.050	<0.0025	<0.0025	<0.00050	
	Titanium (Ti)-Dissolved (mg/L)	<0.10	<0.010	<0.010	<0.010	
	Uranium (U)-Dissolved (mg/L)	<0.020	0.0036	0.0036	0.00020	
	Vanadium (V)-Dissolved (mg/L)	<0.10	<0.0050	<0.0050	<0.0010	
	Zinc (Zn)-Dissolved (mg/L)	36.9	0.321	0.318	0.0081	
Non-Halogenated Volatiles	Benzene (mg/L)					
	Ethylbenzene (mg/L)					
	Methyl t-butyl ether (MTBE) (mg/L)					
	Styrene (mg/L)					

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID				
		Description				
		Sampled Date				
		Sampled Time				
		Client ID				
Grouping	Analyte					
WATER						
Non-Halogenated Volatiles	Toluene (mg/L)				0.0392	
	meta- & para-Xylene (mg/L)				0.00706	
	ortho-Xylene (mg/L)				0.00231	
	Xylenes (mg/L)				0.0094	
	Volatile Hydrocarbons (VH6-10) (mg/L)				0.11	
	VPH (C6-C10) (mg/L)				<0.10	
	Surrogate: 4-Bromofluorobenzene (SS) (%)				97	
	Surrogate: 2,4-Dichlorotoluene (SS) (%)				128	
	Surrogate: Fluorobenzene (SS) (%)				97	
Polycyclic Aromatic Hydrocarbons	Acenaphthene (mg/L)				<0.00020	
	Acenaphthylene (mg/L)				<0.000050	
	Acridine (mg/L)				<0.000050	
	Anthracene (mg/L)				<0.000050	
	Benz(a)anthracene (mg/L)				<0.000050	
	Benzo(a)pyrene (mg/L)				<0.000010	
	Benzo(b)fluoranthene (mg/L)				<0.000050	
	Benzo(k)fluoranthene (mg/L)				<0.000050	
	Benzo(g,h,i)perylene (mg/L)				<0.000050	
	Chrysene (mg/L)				<0.000050	
	Dibenz(a,h)anthracene (mg/L)				<0.000050	
	Fluoranthene (mg/L)				<0.000050	
	Fluorene (mg/L)				0.000332	
	Indeno(1,2,3-c,d)pyrene (mg/L)				<0.000050	
	Naphthalene (mg/L)				<0.0010	
	Phenanthrene (mg/L)				0.000119	
	Pyrene (mg/L)				<0.000050	
	Quinoline (mg/L)				<0.00010	
	Surrogate: d12-Chrysene (SS) (%)				73	
	Surrogate: d9-Acridine (SS) (%)				76	
	Surrogate: d10-Acenaphthene (SS) (%)				74	
	Surrogate: d8-Naphthalene (SS) (%)				80	
	Surrogate: d10-Phenanthrene (SS) (%)				79	
Extractable Hydrocarbons	EPH10-19 (mg/L)				0.31	
	EPH19-32 (mg/L)				<0.25	
	LEPH (mg/L)				0.31	
	HEPH (mg/L)				<0.25	

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L566058-6	L566058-7	L566058-8	L566058-9	L566058-10
		Description					
		Sampled Date	11-OCT-07	11-OCT-07	11-OCT-07	10-OCT-07	10-OCT-07
		Sampled Time					
		Client ID	V35	V36	V37	X17A	X17B
Grouping	Analyte						
WATER							
Non-Halogenated Volatiles	Toluene (mg/L)						
	meta- & para-Xylene (mg/L)						
	ortho-Xylene (mg/L)						
	Xylenes (mg/L)						
	Volatile Hydrocarbons (VH6-10) (mg/L)						
	VPH (C6-C10) (mg/L)						
	Surrogate: 4-Bromofluorobenzene (SS) (%)						
	Surrogate: 2,4-Dichlorotoluene (SS) (%)						
	Surrogate: Fluorobenzene (SS) (%)						
Polycyclic Aromatic Hydrocarbons	Acenaphthene (mg/L)						
	Acenaphthylene (mg/L)						
	Acridine (mg/L)						
	Anthracene (mg/L)						
	Benz(a)anthracene (mg/L)						
	Benzo(a)pyrene (mg/L)						
	Benzo(b)fluoranthene (mg/L)						
	Benzo(k)fluoranthene (mg/L)						
	Benzo(g,h,i)perylene (mg/L)						
	Chrysene (mg/L)						
	Dibenz(a,h)anthracene (mg/L)						
	Fluoranthene (mg/L)						
	Fluorene (mg/L)						
	Indeno(1,2,3-c,d)pyrene (mg/L)						
	Naphthalene (mg/L)						
	Phenanthrene (mg/L)						
	Pyrene (mg/L)						
	Quinoline (mg/L)						
	Surrogate: d12-Chrysene (SS) (%)						
	Surrogate: d9-Acridine (SS) (%)						
	Surrogate: d10-Acenaphthene (SS) (%)						
	Surrogate: d8-Naphthalene (SS) (%)						
	Surrogate: d10-Phenanthrene (SS) (%)						
Extractable Hydrocarbons	EPH10-19 (mg/L)						
	EPH19-32 (mg/L)						
	LEPH (mg/L)						
	HEPH (mg/L)						

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID Description Sampled Date Sampled Time Client ID	L566058-11 10-OCT-07 X21A	L566058-12 10-OCT-07 X21B	L566058-13 10-OCT-07 X21B-5	L566058-14 10-OCT-07 X21C	
Grouping	Analyte						
WATER							
Non-Halogenated Volatiles	Toluene (mg/L)						
	meta- & para-Xylene (mg/L)						
	ortho-Xylene (mg/L)						
	Xylenes (mg/L)						
	Volatile Hydrocarbons (VH6-10) (mg/L)						
	VPH (C6-C10) (mg/L)						
	Surrogate: 4-Bromofluorobenzene (SS) (%)						
	Surrogate: 2,4-Dichlorotoluene (SS) (%)						
Polycyclic Aromatic Hydrocarbons	Surrogate: Fluorobenzene (SS) (%)						
	Acenaphthene (mg/L)						
	Acenaphthylene (mg/L)						
	Acridine (mg/L)						
	Anthracene (mg/L)						
	Benz(a)anthracene (mg/L)						
	Benzo(a)pyrene (mg/L)						
	Benzo(b)fluoranthene (mg/L)						
	Benzo(k)fluoranthene (mg/L)						
	Benzo(g,h,i)perylene (mg/L)						
	Chrysene (mg/L)						
	Dibenz(a,h)anthracene (mg/L)						
	Fluoranthene (mg/L)						
	Fluorene (mg/L)						
	Indeno(1,2,3-c,d)pyrene (mg/L)						
	Naphthalene (mg/L)						
	Phenanthrene (mg/L)						
	Pyrene (mg/L)						
	Quinoline (mg/L)						
	Surrogate: d12-Chrysene (SS) (%)						
	Surrogate: d9-Acridine (SS) (%)						
	Surrogate: d10-Acenaphthene (SS) (%)						
	Surrogate: d8-Naphthalene (SS) (%)						
	Surrogate: d10-Phenanthrene (SS) (%)						
Extractable Hydrocarbons	EPH10-19 (mg/L)						
	EPH19-32 (mg/L)						
	LEPH (mg/L)						
	HEPH (mg/L)						

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
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.			
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.			
EPH-SF-FID-VA	Water	EPH in Water by GCFID	BCMOE EPH GCFID
This analysis is carried out in accordance with the British Columbia Ministry of Environment, Lands and Parks (BCMELP) Analytical Method for Contaminated Sites "Extractable Petroleum Hydrocarbons in Water by GC/FID" (Version 2.1, July 1999). The procedure involves extraction of the entire water sample with dichloromethane. The extract is then solvent exchanged to toluene and analysed by capillary column gas chromatography with flame ionization detection (GC/FID). EPH results include Polycyclic Aromatic Hydrocarbons (PAH) and are therefore not equivalent to Light and Heavy Extractable Petroleum Hydrocarbons (LEPH/HEPH).			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.			
HG-DIS-CCME-CVAFS-VA	Water	Diss. Mercury in Water by CVAFS (CCME)	EPA 3005A/245.7
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 filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).			
LEPH/HEPH-CALC-VA	Water	LEPHs and HEPHs	BC MOE LABORATORY MANUAL (2005)
Light and Heavy Extractable Petroleum Hydrocarbons in Solids. These results are determined according to the British Columbia Ministry of Environment, Lands, and Parks Analytical Method for Contaminated Sites "Calculation of Light and Heavy Extractable Petroleum Hydrocarbons in Solids or Water". According to this method, LEPH and HEPH are calculated by subtracting selected Polycyclic Aromatic Hydrocarbon results from Extractable Petroleum Hydrocarbon results. To calculate LEPH, the individual results for Naphthalene and Phenanthrene are subtracted from EPH(C10-19). To calculate HEPH, the individual results for Benz(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Dibenz(a,h)anthracene, Indeno(1,2,3-c,d)pyrene, and Pyrene are subtracted from EPH(C19-32). Analysis of Extractable Petroleum Hydrocarbons adheres to all prescribed elements of the BCMELP method "Extractable Petroleum Hydrocarbons in Solids by GC/FID" (Version 2.1, July 20, 1999).			
MET-DIS-CCME-ICP-VA	Water	Diss. Metals in Water by ICPOES (CCME)	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 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 - optical emission spectrophotometry (EPA Method 6010B).			
MET-DIS-CCME-MS-VA	Water	Diss. Metals in Water by ICPMS (CCME)	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).			
PAH-SF-MS-VA	Water	PAH in Water by GCMS	EPA Methods 3510, 3630 & 8270
This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Methods 3510, 3630 & 8270, published by the United States Environmental Protection Agency (EPA). The procedure involves extraction of the entire water sample with dichloromethane. The extract is then solvent exchanged to toluene prior to analysis by capillary column gas chromatography with mass spectrometric detection (GC/MS). Surrogate recoveries may not be reported in cases where interferences from the sample matrix prevent accurate quantitation.			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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			
SO4-TUR-VA	Water	Sulphate(SO4) by Turbidity	APHA 4500-SO4 "Sulphate"
This analysis is carried out using procedures adapted from APHA Method 4500-SO4 "Sulphate". Sulphate is determined using the turbidimetric method.			
VH-PT-FID-VA	Water	VH by Purge Trap GCFID	EPA 8260b, BCMELP CSR Method
This procedure involves the purge and trap extraction of the sample prior to analysis for Volatile Hydrocarbons (VH) by capillary column gas chromatography with flame-ionization detection (GC/FID). The VH analysis is carried out in accordance with the British Columbia Ministry of Environment, Lands and Parks (BCMELP) Analytical Method for Contaminated Sites "Volatile Hydrocarbons in Water by GC/FID" (Version 2.1, July 1999).			
VOC7-PT-MS-VA	Water	BTEX by Purge Trap GCMS	EPA 8260b, BCMELP CSR Method
This procedure involves the purge and trap extraction of the sample prior to analysis for specific Volatile Organic Compounds (VOC) by capillary column gas chromatography with mass spectrometric detection (GC/MS). The VOC analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 8260, published by the United States Environmental Protection Agency (EPA). Note: For chlorinated waters certain conditions may cause the formation of trihalomethanes after sample collection. Appropriate chemical treatment of chlorinated waters will prevent trihalomethane formation in the samples. Surrogate recoveries may not be reported in cases where interferences from the sample matrix prevent accurate quantitation.			
VPH-CALC-VA	Water	BC MOE Laboratory Manual (2005)	BC MOE LABORATORY MANUAL (2005)
These results are determined according to the British Columbia Ministry of Environment, Lands, and Parks Analytical Method for Contaminated Sites "Calculation of Volatile Petroleum Hydrocarbons in Solids or Water" (Version 2.1, July 20, 1999). According to this method, the concentrations of specific Monocyclic Aromatic Hydrocarbons (Benzene, Toluene, Ethylbenzene, Xylenes and Styrene) are subtracted from the collective concentration of Volatile Hydrocarbons (VH) that elute between n-hexane (nC6) and n-decane (nC10). Analysis of Volatile Hydrocarbons adheres to all prescribed elements of BCMELP method "Volatile Hydrocarbons in Solids by GC/FID" (Version 2.1, July 20, 1999).			
XYLENES-CALC-VA	Water	CSR VOC7 by MeOH with DI GCMS	CALCULATION
Calculation of Total Xylenes			
Total Xylenes is the sum of the concentrations of the ortho, meta, and para Xylene isomers. Results below detection limit (DL) are treated as zero. The DL for Total Xylenes is set to a value no less than the square root of the sum of the squares of the DLs of the individual Xylenes.			
** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:			
Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA		

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

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.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.



Environmental Division

CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM

COC # A010542

CANADA TOLL FREE 1-800-668-9878

www.alsenviro.com

REPORT TO: <u>Sen Fusion</u>		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED			
COMPANY: <u>Coastal Ltd.</u>		STANDARD ☒ OTHER ☐		☒ REGULAR SERVICE (DEFAULT)			
CONTACT: <u>Alastair MacLennan - M/anic</u>		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		☐ RUSH SERVICE (2-3 DAYS)			
ADDRESS: <u>2251 2nd Ave</u>		EMAIL 1: <u>SFusion@coastal.ca</u>		☐ PRIORITY SERVICE (1 DAY or ASAP)			
PHONE: <u>607-633-6474</u> FAX: <u>633-6321</u>		EMAIL 2: <u></u>		☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS			
INVOICE TO: <u>SAME AS REPORT ?</u> ☒ YES ☐ NO		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST			
COMPANY:		CLIENT / PROJECT INFORMATION: <u>Five mine</u>					
CONTACT:		JOB #: <u>70541</u>					
ADDRESS:		PO / AFE: <u>70549</u>					
PHONE:		Legal Site Description:					
FAX:		QUOTE #:					
Lab Work Order # <u>LS66058</u>		SAMPLER (Initials): <u>Kut JF</u>					
(lab use only)							
Sample #	SAMPLE IDENTIFICATION (This description will appear on the report)	DATE	TIME	SAMPLE TYPE	HAZARDOUS ?	HIGHLY CONTAMINATED ?	NUMBER OF CONTAINERS
	* P2001-02A	04.11.2007		Water (GWL)	☒	☒	2
	P2001-02B	04.11.2007			☒	☒	2
	P2001-9A	04.12.2007			☒	☒	2
	ETA05-04	04.10.2007			☒	☒	2
	V34	04.11.2007			☒	☒	2
	V35				☒	☒	2
	V36				☒	☒	2
	V37				☒	☒	2
	X17A	04.10.2007			☒	☒	2
	X17B	04.10.2007			☒	☒	2
GUIDELINES / REGULATIONS 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 reverse page of the white report copy. RELINQUISHED BY: <u>K. Johnston</u> DATE & TIME: <u>04.13.12.30</u> RECEIVED BY: <u>HD 07.10.15</u> DATE & TIME: <u>10.21</u> TEMPERATURE <u>5</u> SAMPLE CONDITION (lab use only) <u>YES</u> NO							

GENF14.00

Project 70549 FARO MINE
Report To JEN FUNSTON, GARTNER LEE LTD.
ALS File No. L566058
Date Received 15-Oct-07
Date 27-Nov-07

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Anions and Nutrients											
L566058-8	Water	WG676725-5	Alkalinity, Total (as CaCO3)	430	398	mg/L	7.8	20	-	-	-
Dissolved Metals											
L566058-14	Water	WG675306-6	Aluminum (Al)-Dissolved	0.0124	0.0122	mg/L	-	-	0.0002	0.02	J
L566058-14	Water	WG675306-6	Antimony (Sb)-Dissolved	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L566058-14	Water	WG675306-6	Arsenic (As)-Dissolved	0.0270	0.0270	mg/L	0.34	20	-	-	-
L566058-14	Water	WG675306-6	Barium (Ba)-Dissolved	0.184	0.186	mg/L	-	-	0.002	0.08	J
L566058-14	Water	WG675306-6	Beryllium (Be)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L566058-14	Water	WG675306-6	Boron (B)-Dissolved	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
L566058-14	Water	WG675306-6	Cadmium (Cd)-Dissolved	0.000018	0.000017	mg/L	-	-	0.000001	0.00004	J
L566058-14	Water	WG675306-6	Calcium (Ca)-Dissolved	62.8	62.4	mg/L	0.60	20	-	-	-
L566058-14	Water	WG675306-6	Chromium (Cr)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L566058-14	Water	WG675306-6	Cobalt (Co)-Dissolved	<0.00030	<0.00030	mg/L	N/A	20	-	-	RPD-NA
L566058-14	Water	WG675306-6	Copper (Cu)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L566058-14	Water	WG675306-6	Iron (Fe)-Dissolved	0.480	0.488	mg/L	1.6	20	-	-	-
L566058-14	Water	WG675306-6	Lead (Pb)-Dissolved	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L566058-14	Water	WG675306-6	Lithium (Li)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L566058-14	Water	WG675306-6	Magnesium (Mg)-Dissolved	9.35	9.31	mg/L	0.34	20	-	-	-
L566058-14	Water	WG675306-6	Manganese (Mn)-Dissolved	0.235	0.225	mg/L	4.3	20	-	-	-
L566058-14	Water	WG675306-6	Molybdenum (Mo)-Dissolved	0.0042	0.0040	mg/L	-	-	0.0002	0.004	J
L566058-14	Water	WG675306-6	Nickel (Ni)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L566058-14	Water	WG675306-6	Potassium (K)-Dissolved	<2.0	<2.0	mg/L	N/A	20	-	-	RPD-NA
L566058-14	Water	WG675306-6	Selenium (Se)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L566058-14	Water	WG675306-6	Silver (Ag)-Dissolved	<0.000020	<0.000020	mg/L	N/A	20	-	-	RPD-NA
L566058-14	Water	WG675306-6	Sodium (Na)-Dissolved	2.8	2.7	mg/L	-	-	0.1	8	J
L566058-14	Water	WG675306-6	Thallium (Tl)-Dissolved	<0.00020	<0.00020	mg/L	N/A	20	-	-	RPD-NA
L566058-14	Water	WG675306-6	Tin (Sn)-Dissolved	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L566058-14	Water	WG675306-6	Titanium (Ti)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L566058-14	Water	WG675306-6	Uranium (U)-Dissolved	0.00020	0.00021	mg/L	-	-	0.00001	0.0008	J
L566058-14	Water	WG675306-6	Vanadium (V)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L566058-14	Water	WG675306-6	Zinc (Zn)-Dissolved	0.0081	0.0080	mg/L	-	-	0.0001	0.02	J



Environmental Division

ANALYTICAL REPORT

GARTNER LEE LTD.

ATTN: JEN FUNSTON

2251 2ND AVENUE

WHITEHORSE YT Y1A 5W1

Reported On: 22-NOV-07 03:07 PM

Lab Work Order #: **L566063**

Date Received: **15-OCT-07**

Project P.O. #: 70549

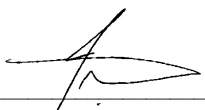
Job Reference: 70549 FARO MINE

Legal Site Desc:

CofC Numbers: a010543, a010551

Other Information:

Comments: Please note that certain metals detection limits have been increased for some of the samples due to the interferences encountered during the analysis.



Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

NATASHA MARKOVIC-MIROVIC

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L566063-1	L566063-2	L566063-3	L566063-4	L566063-5
		Description					
		Sampled Date	10-OCT-07	10-OCT-07	10-OCT-07	10-OCT-07	10-OCT-07
		Sampled Time					
		Client ID	P03-01-01	P03-01-02	P03-01-03	P03-01-04	P03-01-05
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		217	213	158	72.5	168
	Conductivity (uS/cm)		428	410	314	187	366
	pH (pH)		8.09	8.15	7.85	7.07	7.20
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)		206	195	110	31.9	37.2
	Sulfate (SO4) (mg/L)		21.8	26.4	44.9	49.4	134
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		<0.0050	<0.0050	<0.0050	0.0143	0.0117
	Antimony (Sb)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Arsenic (As)-Dissolved (mg/L)		0.00905	0.00098	<0.00050	<0.00050	<0.00050
	Barium (Ba)-Dissolved (mg/L)		0.099	0.114	0.083	0.035	0.037
	Beryllium (Be)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Boron (B)-Dissolved (mg/L)		<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)		<0.000017	<0.000017	0.000030	0.000716	0.000500
	Calcium (Ca)-Dissolved (mg/L)		64.8	66.2	49.3	22.6	52.9
	Chromium (Cr)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Cobalt (Co)-Dissolved (mg/L)		0.00050	0.00088	<0.00030	0.00304	0.00160
	Copper (Cu)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	0.0010	<0.0010
	Iron (Fe)-Dissolved (mg/L)		4.13	0.434	<0.030	<0.030	0.049
	Lead (Pb)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Lithium (Li)-Dissolved (mg/L)		0.0137	<0.0050	<0.0050	0.0228	0.0192
	Magnesium (Mg)-Dissolved (mg/L)		13.4	11.5	8.34	3.88	8.72
	Manganese (Mn)-Dissolved (mg/L)		0.134	0.907	0.00110	2.66	0.664
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)		0.0037	0.0071	<0.0010	<0.0010	<0.0010
	Nickel (Ni)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	0.0815	0.0211
	Potassium (K)-Dissolved (mg/L)		2.4	2.8	<2.0	<2.0	<2.0
	Selenium (Se)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Silver (Ag)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Sodium (Na)-Dissolved (mg/L)		7.7	5.1	2.6	2.2	5.1
	Thallium (Tl)-Dissolved (mg/L)		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Tin (Sn)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)		0.00036	0.00300	0.00191	<0.00020	<0.00020
	Vanadium (V)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)		0.0060	0.0114	0.0064	0.929	0.0264

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L566063-6	L566063-7	L566063-8	L566063-9	L566063-10
		Description					
		Sampled Date	10-OCT-07	10-OCT-07	10-OCT-07	10-OCT-07	10-OCT-07
		Sampled Time					
		Client ID	P03-01-05 S	P03-01-06	P03-01-07	P03-01-08	P03-01-09
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		168	220	770	4090	4410
	Conductivity (uS/cm)		365	965	6780	26700	35600
	pH (pH)		7.16	6.44	4.37	3.36	3.14
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)		36.3	30.1	19.6	<2.0	<2.0
	Sulfate (SO4) (mg/L)		132	460	5360	35400	56000
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		0.0063	0.025	<0.50	<2.5	<5.0
	Antimony (Sb)-Dissolved (mg/L)		<0.00050	<0.0010	<0.050	<0.25	<0.50
	Arsenic (As)-Dissolved (mg/L)		<0.00050	0.0086	<0.050	<0.25	<0.50
	Barium (Ba)-Dissolved (mg/L)		0.036	0.071	<0.10	<0.40	<1.0
	Beryllium (Be)-Dissolved (mg/L)		<0.0010	<0.0020	<0.10	<0.50	<1.0
	Boron (B)-Dissolved (mg/L)		<0.10	<0.10	<0.50	<2.0	<5.0
	Cadmium (Cd)-Dissolved (mg/L)		0.000508	<0.000034	<0.0017	<0.0085	<0.017
	Calcium (Ca)-Dissolved (mg/L)		53.0	53.8	94.3	398	437
	Chromium (Cr)-Dissolved (mg/L)		<0.0010	<0.0020	<0.10	<0.50	<1.0
	Cobalt (Co)-Dissolved (mg/L)		0.00168	0.0520	<0.030	<0.15	<0.30
	Copper (Cu)-Dissolved (mg/L)		<0.0010	<0.0020	<0.10	<0.50	<1.0
	Iron (Fe)-Dissolved (mg/L)		0.046	157	2550	19900	25400
	Lead (Pb)-Dissolved (mg/L)		<0.00050	<0.0010	<0.050	<0.25	<0.50
	Lithium (Li)-Dissolved (mg/L)		0.0231	<0.010	<0.50	<2.5	<5.0
	Magnesium (Mg)-Dissolved (mg/L)		8.62	20.8	130	752	805
	Manganese (Mn)-Dissolved (mg/L)		0.722	5.04	17.7	137	154
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	0.000038	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)		<0.0010	<0.0020	0.13	<0.50	<1.0
	Nickel (Ni)-Dissolved (mg/L)		0.0243	0.0424	<0.10	<0.50	<1.0
	Potassium (K)-Dissolved (mg/L)		<2.0	3.6	29	110	<100
	Selenium (Se)-Dissolved (mg/L)		<0.0010	<0.0020	<0.10	<0.50	<1.0
	Silver (Ag)-Dissolved (mg/L)		<0.000020	<0.000040	<0.0020	<0.010	<0.020
	Sodium (Na)-Dissolved (mg/L)		5.0	24.3	350	527	390
	Thallium (Tl)-Dissolved (mg/L)		<0.00020	<0.00040	<0.020	<0.10	<0.20
	Tin (Sn)-Dissolved (mg/L)		<0.00050	<0.0010	<0.050	<0.25	<0.50
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.050	0.32	<0.50
	Uranium (U)-Dissolved (mg/L)		<0.00020	<0.00040	<0.020	<0.10	<0.20
	Vanadium (V)-Dissolved (mg/L)		<0.0010	<0.0020	<0.10	<0.50	<1.0
	Zinc (Zn)-Dissolved (mg/L)		0.0315	6.34	263	2720	3380

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L566063-11	L566063-12	L566063-13	L566063-14	L566063-15
		Description					
		Sampled Date	10-OCT-07	10-OCT-07	10-OCT-07	10-OCT-07	12-OCT-07
		Sampled Time					
		Client ID	SRK04-3A	SRK04-3B	SRK05-ETA-BR1	SRK05-ETA-BR2	SRK05-05C
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		4070	3660	3870	1410	665
	Conductivity (uS/cm)		7100	12200	7530	2240	1080
	pH (pH)		6.09	3.88	5.86	7.36	8.02
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)		135	18.7	47.0	128	218
	Sulfate (SO4) (mg/L)		5740	12500	6390	1270	372
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		1.29	5.1	1.01	<0.025	<0.010
	Antimony (Sb)-Dissolved (mg/L)		<0.050	<0.10	<0.050	<0.0025	<0.0010
	Arsenic (As)-Dissolved (mg/L)		<0.050	<0.10	<0.050	<0.0025	0.0079
	Barium (Ba)-Dissolved (mg/L)		<0.040	<0.10	<0.10	0.055	0.146
	Beryllium (Be)-Dissolved (mg/L)		<0.10	<0.20	<0.10	<0.0050	<0.0020
	Boron (B)-Dissolved (mg/L)		<0.20	<0.50	<0.50	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)		0.0581	<0.0034	0.0201	<0.000085	0.000095
	Calcium (Ca)-Dissolved (mg/L)		428	405	452	434	156
	Chromium (Cr)-Dissolved (mg/L)		<0.10	<0.20	<0.10	<0.0050	<0.0020
	Cobalt (Co)-Dissolved (mg/L)		0.671	0.425	0.624	0.0118	0.00231
	Copper (Cu)-Dissolved (mg/L)		<0.10	<0.20	<0.10	<0.0050	<0.0020
	Iron (Fe)-Dissolved (mg/L)		814	4980	1550	19.7	0.775
	Lead (Pb)-Dissolved (mg/L)		<0.050	<0.10	<0.050	<0.0025	<0.0010
	Lithium (Li)-Dissolved (mg/L)		<0.50	<1.0	<0.50	<0.025	<0.010
	Magnesium (Mg)-Dissolved (mg/L)		729	642	666	78.4	66.7
	Manganese (Mn)-Dissolved (mg/L)		71.4	68.4	66.2	2.39	2.41
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)		<0.10	<0.20	<0.10	<0.0050	0.0139
	Nickel (Ni)-Dissolved (mg/L)		0.97	0.62	0.77	0.0147	0.0053
	Potassium (K)-Dissolved (mg/L)		13.7	11	11	3.6	2.1
	Selenium (Se)-Dissolved (mg/L)		<0.10	<0.20	<0.10	<0.0050	<0.0020
	Silver (Ag)-Dissolved (mg/L)		<0.0020	<0.0040	<0.0020	<0.00010	<0.000040
	Sodium (Na)-Dissolved (mg/L)		54.5	63	92	27.2	14.7
	Thallium (Tl)-Dissolved (mg/L)		<0.020	<0.040	<0.020	<0.0010	<0.00040
	Tin (Sn)-Dissolved (mg/L)		<0.050	<0.10	<0.050	<0.0025	<0.0010
	Titanium (Ti)-Dissolved (mg/L)		0.031	0.104	0.051	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)		<0.020	<0.040	<0.020	<0.0010	0.00543
	Vanadium (V)-Dissolved (mg/L)		<0.10	<0.20	<0.10	<0.0050	<0.0020
	Zinc (Zn)-Dissolved (mg/L)		495	666	490	7.98	0.012

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L566063-16	L566063-17	L566063-18	L566063-19	L566063-20
Grouping Analyte						
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	1380	1930	1350	1390	1420
	Conductivity (uS/cm)	2030	2680	1980	2040	2050
	pH (pH)	8.15	7.73	7.80	7.95	7.96
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)	352	735	558	362	348
	Sulfate (SO ₄) (mg/L)	916	1080	664	895	856
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.025	<0.050	<0.025	0.029	<0.025
	Antimony (Sb)-Dissolved (mg/L)	<0.0025	<0.0050	<0.0025	<0.0025	<0.0025
	Arsenic (As)-Dissolved (mg/L)	<0.0025	<0.0050	<0.0025	<0.0025	<0.0025
	Barium (Ba)-Dissolved (mg/L)	0.049	0.074	<0.020	0.068	0.075
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.010	<0.0050	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.000266	0.00030	<0.000085	0.000283	0.000268
	Calcium (Ca)-Dissolved (mg/L)	276	408	282	285	288
	Chromium (Cr)-Dissolved (mg/L)	<0.0050	<0.010	<0.0050	<0.0050	<0.0050
	Cobalt (Co)-Dissolved (mg/L)	<0.0015	0.0097	<0.0015	<0.0015	<0.0015
	Copper (Cu)-Dissolved (mg/L)	<0.0050	<0.010	<0.0050	<0.0050	<0.0050
	Iron (Fe)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030	<0.030
	Lead (Pb)-Dissolved (mg/L)	<0.0025	<0.0050	<0.0025	<0.0025	<0.0025
	Lithium (Li)-Dissolved (mg/L)	<0.025	<0.050	<0.025	<0.025	<0.025
	Magnesium (Mg)-Dissolved (mg/L)	169	221	156	165	169
	Manganese (Mn)-Dissolved (mg/L)	0.0035	0.692	0.0017	<0.0015	<0.0015
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0050	<0.010	<0.0050	<0.0050	<0.0050
	Nickel (Ni)-Dissolved (mg/L)	<0.0050	0.147	<0.0050	<0.0050	<0.0050
	Potassium (K)-Dissolved (mg/L)	3.6	3.6	<2.0	3.6	3.9
	Selenium (Se)-Dissolved (mg/L)	<0.0050	<0.010	<0.0050	<0.0050	<0.0050
	Silver (Ag)-Dissolved (mg/L)	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010
	Sodium (Na)-Dissolved (mg/L)	10.5	10.6	8.9	9.8	10.8
	Thallium (Tl)-Dissolved (mg/L)	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010
	Tin (Sn)-Dissolved (mg/L)	<0.0025	<0.0050	<0.0025	<0.0025	<0.0025
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.0319	0.0157	0.0181	0.0333	0.0330
	Vanadium (V)-Dissolved (mg/L)	<0.0050	<0.010	<0.0050	<0.0050	<0.0050
	Zinc (Zn)-Dissolved (mg/L)	0.0173	0.0269	0.0088	<0.0050	0.0143

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ALK-PCT-VA	Water	Alkalinity (Species) 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.			
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.			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.			
HG-DIS-CCME-CVAFS-VA	Water	Diss. Mercury in Water by CVAFS (CCME)	EPA 3005A/245.7
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 filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).			
MET-DIS-CCME-ICP-VA	Water	Diss. Metals in Water by ICPOES (CCME)	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 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 - optical emission spectrophotometry (EPA Method 6010B).			
MET-DIS-CCME-MS-VA	Water	Diss. Metals in Water by ICPMS (CCME)	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).			
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			
SO4-TUR-VA	Water	Sulphate(SO4) by Turbidity	APHA 4500-SO4 "Sulphate"
This analysis is carried out using procedures adapted from APHA Method 4500-SO4 "Sulphate". Sulphate is determined using the turbidimetric method.			

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA		

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

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.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.



Environmental Division

REPORT TO: Jennifer Furstner		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: Gaucher Inc		STANDARD ☒ OTHER ☐		☒ REGULAR SERVICE (DEFAULT)	
CONTACT: Natacha Markovic - Mine		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		☐ RUSH SERVICE (2-3 DAYS)	
ADDRESS: 2251 2nd Avenue		EMAIL 1: jfurstner@gartnerinc.com		☐ PRIORITY SERVICE (1 DAY or ASAP)	
Whitehorse Yukon Y1A 5V1		EMAIL 2:		☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
PHONE: 867-633-6474 FAX: 867-633-6321		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST	
INVOICE TO: SAME AS REPORT ? (YES / NO)		CLIENT / PROJECT INFORMATION: Faro Mine			
COMPANY:		JOB #: 70549			
ADDRESS:		PO / AFE: 70549			
PHONE:		Legal Site Description:			
FAX:		QUOTE #:			
Lab Work Order # (lab use only)		SAMPLE IDENTIFICATION		SAMPLER (Initials): KM, JF	
L566063		(This description will appear on the report)		DATE	
PO3-01-01		Oct 10, 2007		TIME	
PO3-01-02				SAMPLE TYPE	
PO3-01-03				X	
PO3-01-04				X	
PO3-01-05				X	
PO3-01-05-5				X	
PO3-01-06				X	
PO3-01-07				X	
PO3-01-08				X	
PO3-01-09				X	
GUIDELINES / REGULATIONS		SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS			
ACME Aquatic Life Metals		Please use Zn DL of 0.005 mg/L			
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.					
RELINQUISHED BY: gaucher		DATE & TIME: Oct 13, 2007		RECEIVED BY: JFD	
RELINQUISHED BY:		DATE & TIME:		RECEIVED BY:	
DATE & TIME:		DATE & TIME:		DATE & TIME:	
TEMPERATURE		SAMPLE CONDITION (lab use only)		SAMPLES RECEIVED IN GOOD CONDITION ? (YES / NO)	
S				YES / NO	

Environmental Division



www.alsenviro.com

REPORT TO: Jennifer Funston		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: Gartner Lee Limited		STANDARD ☒ EXCEL ☒ OTHER ☐ CUSTOM ☐ FAX ☐		☒ REGULAR SERVICE (DEFAULT)	
CONTACT: Natasha Markovic - Mirovic		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		☐ RUSH SERVICE (2-3 DAYS)	
ADDRESS: 2251 2nd Avenue		EMAIL 1: funstongartnerlee.com		☐ PRIORITY SERVICE (1 DAY or ASAP)	
Whitehorse, Yukon Y1A 5W1		EMAIL 2:		☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
PHONE: 867.633.6474 FAX: 867.633.6321		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST	
INVOICE TO: SAME AS REPORT? ☒ YES / NO		CLIENT / PROJECT INFORMATION: Faro Mine			
COMPANY:		JOB #: 70549			
CONTACT:		PO / AFE: 70549			
ADDRESS:		Legal Site Description:			
PHONE:		QUOTE #:			
Lab Work Order # (lab use only)		SAMPLE IDENTIFICATION		HAZARDOUS ?	
1566063		(This description will appear on the report)		HIGHLY CONTAMINATED ?	
Sample #	DATE	TIME	SAMPLE TYPE	HAZARDOUS ?	NUMBER OF CONTAINERS
SPK04-3A	Oct. 10, 2007	6:00			2
SPK04-3B					2
SPK05-ETA-BR1					2
SPK05-ETA-BR2					2
SPK05-05C	Oct. 12, 2007				2
SPK05-06					2
SPK05-07					2
SPK05-08					2
SPK05-09					2
SPK05-09-S					2
GUIDELINES / REGULATIONS				SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS	
CEME Aquatic Life Metals				Please use Zn DL of 0.005 mg/L	
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the reverse page of the white report copy.					
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	TEMPERATURE	SAMPLE CONDITION (lab use only)
Ken Munster	Oct. 13/2007	HD 0110115	10:20	5	SAMPLES RECEIVED IN GOOD CONDITION? (YES) NO
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:		

Project	70549 FARO MINE
Report To	JEN FUNSTON, GARTNER LEE LTD.
ALS File No.	L566063
Date Received	15-Oct-07
Date	22-Nov-07

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Anions and Nutrients											
L566063-3	Water	WG677495-3	Sulfate (SO4)	44.9	45.1	mg/L	0.52	20	-	-	-
Physical Tests											
L566063-7	Water	WG675714-6	Conductivity	965	962	uS/cm	0.31	20	-	-	-
L566063-7	Water	WG675714-6	pH	6.44	6.43	pH	0.14	20	-	-	-
Anions and Nutrients											
L566063-9	Water	WG676725-6	Alkalinity, Total (as CaCO3)	<2.0	<2.0	mg/L	N/A	20	-	-	RPD-NA
L566063-15	Water	WG677495-4	Sulfate (SO4)	372	370	mg/L	0.53	20	-	-	-
L566063-17	Water	WG677319-4	Alkalinity, Total (as CaCO3)	735	732	mg/L	0.36	20	-	-	-
Physical Tests											
L566063-18	Water	WG675714-7	Conductivity	1980	1980	uS/cm	0.051	20	-	-	-
L566063-18	Water	WG675714-7	pH	7.80	7.80	pH	0.011	20	-	-	-
Dissolved Metals											
L566063-18	Water	WG676711-8	Aluminum (Al)-Dissolved	<0.025	<0.025	mg/L	N/A	20	-	-	RPD-NA
L566063-18	Water	WG676711-8	Antimony (Sb)-Dissolved	<0.0025	<0.0025	mg/L	N/A	20	-	-	RPD-NA
L566063-18	Water	WG676711-8	Arsenic (As)-Dissolved	<0.0025	<0.0025	mg/L	N/A	20	-	-	RPD-NA
L566063-18	Water	WG676711-8	Barium (Ba)-Dissolved	<0.020	0.020	mg/L	N/A	20	-	-	RPD-NA
L566063-18	Water	WG676711-8	Beryllium (Be)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L566063-18	Water	WG676711-8	Boron (B)-Dissolved	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
L566063-18	Water	WG676711-8	Cadmium (Cd)-Dissolved	<0.000085	<0.000050	mg/L	N/A	20	-	-	RPD-NA
L566063-18	Water	WG676711-8	Calcium (Ca)-Dissolved	282	288	mg/L	2.1	20	-	-	-
L566063-18	Water	WG676711-8	Chromium (Cr)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L566063-18	Water	WG676711-8	Cobalt (Co)-Dissolved	<0.0015	<0.0015	mg/L	N/A	20	-	-	RPD-NA
L566063-18	Water	WG676711-8	Copper (Cu)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L566063-18	Water	WG676711-8	Iron (Fe)-Dissolved	<0.030	<0.030	mg/L	N/A	20	-	-	RPD-NA
L566063-18	Water	WG676711-8	Lead (Pb)-Dissolved	<0.0025	<0.0025	mg/L	N/A	20	-	-	RPD-NA
L566063-18	Water	WG676711-8	Lithium (Li)-Dissolved	<0.025	<0.025	mg/L	N/A	20	-	-	RPD-NA
L566063-18	Water	WG676711-8	Magnesium (Mg)-Dissolved	156	157	mg/L	0.70	20	-	-	-
L566063-18	Water	WG676711-8	Manganese (Mn)-Dissolved	0.0017	<0.0015	mg/L	N/A	20	-	-	RPD-NA
L566063-18	Water	WG676711-8	Mercury (Hg)-Dissolved	<0.000020	<0.000020	mg/L	N/A	20	-	-	RPD-NA

L566063-18	Water	WG676711-8	Molybdenum (Mo)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L566063-18	Water	WG676711-8	Nickel (Ni)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L566063-18	Water	WG676711-8	Potassium (K)-Dissolved	<2.0	<2.0	mg/L	N/A	20	-	-	RPD-NA
L566063-18	Water	WG676711-8	Selenium (Se)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L566063-18	Water	WG676711-8	Silver (Ag)-Dissolved	<0.00010	<0.00010	mg/L	N/A	20	-	-	RPD-NA
L566063-18	Water	WG676711-8	Sodium (Na)-Dissolved	8.9	9.0	mg/L	-	-	0.1	8	J
L566063-18	Water	WG676711-8	Thallium (Tl)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L566063-18	Water	WG676711-8	Tin (Sn)-Dissolved	<0.0025	<0.0025	mg/L	N/A	20	-	-	RPD-NA
L566063-18	Water	WG676711-8	Titanium (Ti)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L566063-18	Water	WG676711-8	Uranium (U)-Dissolved	0.0181	0.0179	mg/L	1.1	20	-	-	-
L566063-18	Water	WG676711-8	Vanadium (V)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L566063-18	Water	WG676711-8	Zinc (Zn)-Dissolved	0.0088	<0.025	mg/L	N/A	20	-	-	RPD-NA



Environmental Division

ANALYTICAL REPORT

GARTNER LEE LTD.

ATTN: JEN FUNSTON

2251 2ND AVENUE

WHITEHORSE YT Y1A 5W1

Reported On: 15-DEC-07 12:31 AM

Revision: 1

Lab Work Order #: **L575954**

Date Received: **08-NOV-07**

Project P.O. #:

Job Reference: 70546 FARO MINE

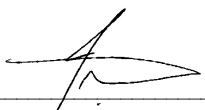
Legal Site Desc:

CofC Numbers: A014923, A014924

Other Information:

Comments: This revision of the report replaces and supersedes all previous revisions.
The Metals results for samples L575954-1 and 4 have been changed/corrected due to the manual sample switch.

Please note that certain metals detection limits have been increased for some of the samples due to the interferences encountered during the analysis.



Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

NATASHA MARKOVIC-MIROVIC

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L575954-1	L575954-2	L575954-3	L575954-4	L575954-5
		06-NOV-07	06-NOV-07	06-NOV-07	06-NOV-07	06-NOV-07
		X24A-96	X24D-96	X24D-96-S	X25A-96	X25B-96
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	1770	2060	2150	542	565
	Conductivity (uS/cm)	2710	3220	3260	1040	1140
	pH (pH)	7.52	7.38	7.36	7.93	8.04
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)	368	406	405	269	274
	Sulfate (SO ₄) (mg/L)	1510	1930	1970	334	378
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.025	<0.010
	Antimony (Sb)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0025	<0.0010
	Arsenic (As)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0025	0.0010
	Barium (Ba)-Dissolved (mg/L)	<0.020	<0.020	<0.020	0.040	0.024
	Beryllium (Be)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.0050	<0.0020
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.00087	0.00284	0.00303	0.000172	<0.000034
	Calcium (Ca)-Dissolved (mg/L)	512	593	629	152	177
	Chromium (Cr)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.0050	<0.0020
	Cobalt (Co)-Dissolved (mg/L)	0.0612	0.0570	0.0589	0.0036	<0.00060
	Copper (Cu)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.0050	<0.0020
	Iron (Fe)-Dissolved (mg/L)	1.94	<0.030	<0.030	<0.030	0.685
	Lead (Pb)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0025	<0.0010
	Lithium (Li)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.025	<0.010
	Magnesium (Mg)-Dissolved (mg/L)	120	140	141	39.2	30.0
	Manganese (Mn)-Dissolved (mg/L)	43.7	53.2	55.3	5.49	0.191
	Mercury (Hg)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.0050	<0.0020
	Nickel (Ni)-Dissolved (mg/L)	0.060	0.213	0.220	0.0053	<0.0020
	Potassium (K)-Dissolved (mg/L)	6.6	7.7	7.9	4.3	3.1
	Selenium (Se)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.0050	<0.0020
	Silver (Ag)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00010	<0.000040
	Sodium (Na)-Dissolved (mg/L)	35.7	47.9	45.9	27.4	43.6
	Thallium (Tl)-Dissolved (mg/L)	<0.0020	<0.0020	<0.0020	<0.0010	<0.00040
	Tin (Sn)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0025	<0.0010
	Titanium (Ti)-Dissolved (mg/L)	0.011	0.011	0.013	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.0084	0.0053	0.0056	0.0088	0.00545
	Vanadium (V)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.0050	<0.0020
	Zinc (Zn)-Dissolved (mg/L)	0.0199	0.076	0.081	0.0080	<0.0050

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L575954-6	L575954-7	L575954-8	L575954-9	L575954-10
		Description					
		Sampled Date	05-NOV-07	05-NOV-07	05-NOV-07	05-NOV-07	06-NOV-07
		Sampled Time					
		Client ID	P03-04-02	P03-04-04	P03-04-04-S	P03-04-06	P03-08-02
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO ₃) (mg/L)		1090	525	538	1700	305
	Conductivity (uS/cm)		1920	1260	1330	5350	563
	pH (pH)		7.33	7.93	7.91	5.93	8.04
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)		131	215	227	13.6	263
	Sulfate (SO ₄) (mg/L)		994	464	511	4150	60.8
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		<0.050	<0.010	<0.010	<0.10	0.0064
	Antimony (Sb)-Dissolved (mg/L)		<0.0050	<0.0010	<0.0010	<0.010	<0.00050
	Arsenic (As)-Dissolved (mg/L)		<0.0050	0.0060	0.0059	0.016	<0.00050
	Barium (Ba)-Dissolved (mg/L)		<0.020	0.056	0.059	<0.060	0.173
	Beryllium (Be)-Dissolved (mg/L)		<0.010	<0.0020	<0.0020	<0.020	<0.0010
	Boron (B)-Dissolved (mg/L)		<0.10	<0.10	<0.10	<0.30	<0.10
	Cadmium (Cd)-Dissolved (mg/L)		0.00298	<0.000034	<0.000034	<0.00034	0.000145
	Calcium (Ca)-Dissolved (mg/L)		312	169	172	477	83.0
	Chromium (Cr)-Dissolved (mg/L)		<0.010	<0.0020	<0.0020	<0.020	<0.0010
	Cobalt (Co)-Dissolved (mg/L)		0.136	0.00464	0.00450	0.0402	0.00055
	Copper (Cu)-Dissolved (mg/L)		<0.010	<0.0020	<0.0020	<0.020	0.0023
	Iron (Fe)-Dissolved (mg/L)		0.049	5.98	6.00	1560	<0.030
	Lead (Pb)-Dissolved (mg/L)		<0.0050	<0.0010	<0.0010	<0.010	<0.00050
	Lithium (Li)-Dissolved (mg/L)		<0.050	<0.010	<0.010	<0.10	<0.0050
	Magnesium (Mg)-Dissolved (mg/L)		74.9	25.0	26.2	124	23.8
	Manganese (Mn)-Dissolved (mg/L)		41.5	6.06	6.02	14.7	3.30
	Mercury (Hg)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Dissolved (mg/L)		<0.010	<0.0020	<0.0020	<0.020	0.0011
	Nickel (Ni)-Dissolved (mg/L)		0.203	0.0033	0.0034	0.093	0.0155
	Potassium (K)-Dissolved (mg/L)		4.2	3.2	3.3	12.3	<2.0
	Selenium (Se)-Dissolved (mg/L)		<0.010	<0.0020	<0.0020	<0.020	<0.0010
	Silver (Ag)-Dissolved (mg/L)		<0.00020	<0.000040	<0.000040	<0.00040	<0.000020
	Sodium (Na)-Dissolved (mg/L)		28.7	92.7	96.2	130	7.0
	Thallium (Tl)-Dissolved (mg/L)		<0.0020	<0.00040	<0.00040	<0.0040	<0.00020
	Tin (Sn)-Dissolved (mg/L)		<0.0050	<0.0010	<0.0010	<0.010	<0.00050
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.030	<0.010
	Uranium (U)-Dissolved (mg/L)		<0.0020	0.00242	0.00234	<0.0040	0.00293
	Vanadium (V)-Dissolved (mg/L)		<0.010	<0.0020	<0.0020	<0.020	<0.0010
	Zinc (Zn)-Dissolved (mg/L)		0.074	0.0062	0.010	4.53	0.0062

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L575954-11	L575954-12	L575954-13	L575954-14	L575954-15
Grouping Analyte						
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	421	673	1050	658	758
	Conductivity (uS/cm)	791	1280	2150	1270	1400
	pH (pH)	7.97	7.77	7.69	7.86	7.90
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	312	310	288	338	277
	Sulfate (SO4) (mg/L)	161	415	987	407	514
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.010	<0.010	0.028	<0.010	<0.010
	Antimony (Sb)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0025	<0.0010	<0.0010
	Arsenic (As)-Dissolved (mg/L)	<0.0010	0.0024	<0.0025	0.0015	<0.0010
	Barium (Ba)-Dissolved (mg/L)	0.144	0.038	<0.020	0.037	0.053
	Beryllium (Be)-Dissolved (mg/L)	<0.0020	<0.0020	<0.0050	<0.0020	<0.0020
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.000372	<0.000034	<0.000085	<0.000034	0.000341
	Calcium (Ca)-Dissolved (mg/L)	116	185	286	167	220
	Chromium (Cr)-Dissolved (mg/L)	<0.0020	<0.0020	<0.0050	<0.0020	<0.0020
	Cobalt (Co)-Dissolved (mg/L)	<0.00060	<0.00060	<0.0015	<0.00060	0.00346
	Copper (Cu)-Dissolved (mg/L)	0.0047	<0.0020	<0.0050	<0.0020	<0.0020
	Iron (Fe)-Dissolved (mg/L)	0.051	38.3	60.1	6.84	<0.030
	Lead (Pb)-Dissolved (mg/L)	<0.0010	0.0031	0.0047	<0.0010	<0.0010
	Lithium (Li)-Dissolved (mg/L)	<0.010	<0.010	<0.025	0.035	0.012
	Magnesium (Mg)-Dissolved (mg/L)	31.9	51.4	80.8	58.5	50.7
	Manganese (Mn)-Dissolved (mg/L)	6.96	2.94	6.33	0.359	6.49
	Mercury (Hg)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Dissolved (mg/L)	0.0042	0.0088	<0.0050	<0.0020	<0.0020
	Nickel (Ni)-Dissolved (mg/L)	0.0259	<0.0020	<0.0050	<0.0020	0.0097
	Potassium (K)-Dissolved (mg/L)	2.2	3.3	15.7	3.8	4.8
	Selenium (Se)-Dissolved (mg/L)	<0.0020	<0.0020	<0.0050	<0.0020	<0.0020
	Silver (Ag)-Dissolved (mg/L)	<0.000040	<0.000040	<0.00010	<0.000040	<0.000040
	Sodium (Na)-Dissolved (mg/L)	13.9	42.4	143	48.7	37.0
	Thallium (Tl)-Dissolved (mg/L)	<0.00040	<0.00040	<0.0010	<0.00040	<0.00040
	Tin (Sn)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0025	<0.0010	<0.0010
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.00416	0.00752	<0.0010	0.00158	0.00666
	Vanadium (V)-Dissolved (mg/L)	<0.0020	<0.0020	<0.0050	<0.0020	<0.0020
	Zinc (Zn)-Dissolved (mg/L)	0.0073	0.010	0.0094	0.0055	0.0064

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID			
		Description			
		Sampled Date			
		Sampled Time			
		Client ID			
Grouping	Analyte				
WATER					
Physical Tests	Hardness (as CaCO3) (mg/L)	762	870	845	
	Conductivity (uS/cm)	1470	1560	1520	
	pH (pH)	7.88	7.90	7.92	
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	298	286	294	
	Sulfate (SO4) (mg/L)	550	613	588	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.010	<0.025	<0.025	
	Antimony (Sb)-Dissolved (mg/L)	<0.0010	<0.0025	<0.0025	
	Arsenic (As)-Dissolved (mg/L)	<0.0010	<0.0025	<0.0025	
	Barium (Ba)-Dissolved (mg/L)	0.072	0.068	0.059	
	Beryllium (Be)-Dissolved (mg/L)	<0.0020	<0.0050	<0.0050	
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	
	Cadmium (Cd)-Dissolved (mg/L)	0.000328	0.000373	0.000208	
	Calcium (Ca)-Dissolved (mg/L)	219	254	248	
	Chromium (Cr)-Dissolved (mg/L)	<0.0020	<0.0050	<0.0050	
	Cobalt (Co)-Dissolved (mg/L)	0.00114	0.0015	0.0030	
	Copper (Cu)-Dissolved (mg/L)	<0.0020	<0.0050	<0.0050	
	Iron (Fe)-Dissolved (mg/L)	<0.030	<0.030	0.103	
	Lead (Pb)-Dissolved (mg/L)	<0.0010	<0.0025	<0.0025	
	Lithium (Li)-Dissolved (mg/L)	0.015	<0.025	<0.025	
	Magnesium (Mg)-Dissolved (mg/L)	52.3	57.3	54.8	
	Manganese (Mn)-Dissolved (mg/L)	7.46	9.37	9.04	
	Mercury (Hg)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0020	<0.0050	<0.0050	
	Nickel (Ni)-Dissolved (mg/L)	0.0090	0.0115	0.0114	
	Potassium (K)-Dissolved (mg/L)	4.7	4.9	4.7	
	Selenium (Se)-Dissolved (mg/L)	<0.0020	<0.0050	<0.0050	
	Silver (Ag)-Dissolved (mg/L)	<0.000040	<0.00010	<0.00010	
	Sodium (Na)-Dissolved (mg/L)	37.7	37.8	36.6	
	Thallium (Tl)-Dissolved (mg/L)	<0.00040	<0.0010	<0.0010	
	Tin (Sn)-Dissolved (mg/L)	<0.0010	<0.0025	<0.0025	
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	
	Uranium (U)-Dissolved (mg/L)	0.00577	0.0072	0.0072	
	Vanadium (V)-Dissolved (mg/L)	<0.0020	<0.0050	<0.0050	
	Zinc (Zn)-Dissolved (mg/L)	0.0062	0.0073	0.0068	

Reference Information

Qualifiers for Sample Submission Listed:

Qualifier	Description
ISCR:ST	Improper Sample Container Received: Subsamples Taken - samples #1-18 - Hg
SFPL	Sample was Filtered and Preserved at the laboratory - samples #1-18 - Dissolved Metals

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			

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.			

HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.			

HG-DIS-CVAFS-CL	Water	Dissolved Mercury in Water by CVAFS	EPA SW-846 3005A & EPA 245.7
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 filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).			

MET-DIS-CCME-ICP-VA	Water	Diss. Metals in Water by ICPOES (CCME)	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 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 - optical emission spectrophotometry (EPA Method 6010B).			

MET-DIS-CCME-MS-VA	Water	Diss. Metals in Water by ICPMS (CCME)	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).			

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			

SO4-TUR-VA	Water	Sulphate(SO4) by Turbidity	APHA 4500-SO4 "Sulphate"
This analysis is carried out using procedures adapted from APHA Method 4500-SO4 "Sulphate". Sulphate is determined using the turbidimetric method.			

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.
The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
CL	ALS LABORATORY GROUP - CALGARY, ALBERTA, CANADA	VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in enviromental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

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.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.



Environmental Division

REPORT TO: <u>Natasha Martovic - Mirvive</u>		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED																					
COMPANY: <u>Gartner Lee Limited</u>		STANDARD ☒ OTHER ☐		☒ REGULAR SERVICE (DEFAULT)																					
CONTACT: <u>Jennifer Funston</u>		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		☐ RUSH SERVICE (2-3 DAYS)																					
ADDRESS: <u>2251 2nd Avenue</u>		EMAIL 1: <u>jfunston@gartnerlee.com</u>		☐ PRIORITY SERVICE (1 DAY or ASAP)																					
<u>Whitehorse Yukon Y1A 5W1</u>		EMAIL 2: <u></u>		☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS																					
PHONE: <u>867.633.6474</u> FAX: <u>867.633.6321</u>		INDICATE BOTTLES: FILTERED / PRESERVED (F/P) ☐ ☐		ANALYSIS REQUEST																					
INVOICE TO: <u>SAME AS REPORT ? (YES) NO</u>		CLIENT / PROJECT INFORMATION: <u>Fura Mine</u>																							
COMPANY: <u></u>		JOB #: <u>70546</u>																							
CONTACT: <u></u>		PO / AFE: <u></u>																							
ADDRESS: <u></u>		Legal Site Description: <u></u>																							
PHONE: <u></u>		QUOTE #: <u></u>																							
Lab Work Order # (lab use only) <u>1575954</u>		SAMPLER (Initials): <u>JE, EC.</u>																							
Sample #	SAMPLE IDENTIFICATION (This description will appear on the report)	DATE	TIME	SAMPLE TYPE	HAZARDOUS ?																				
X24A-96		Nov. 6, 2007		GW																					
X24D-96																									
X24D-96-S																									
X25A-96																									
X25R-96																									
P03-04-02		Nov. 5, 2007																							
P03-04-04																									
P03-04-04-S																									
P03-04-06																									
<table border="1"> <tr> <td colspan="5">GUIDELINES / REGULATIONS</td> <td colspan="5">SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS</td> </tr> <tr> <td colspan="5">CCME Aquatic Life Metals</td> <td colspan="5">Please use Zn of 0.005 mg/L.</td> </tr> </table>						GUIDELINES / REGULATIONS					SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS					CCME Aquatic Life Metals					Please use Zn of 0.005 mg/L.				
GUIDELINES / REGULATIONS					SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS																				
CCME Aquatic Life Metals					Please use Zn of 0.005 mg/L.																				

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

RELINQUISHED BY: Open DATE & TIME: Nov. 7/07 RECEIVED BY: HD 07111102 DATE & TIME: 1:54

TEMPERATURE 3 SAMPLES RECEIVED IN GOOD CONDITION? (YES / NO) YES

REPORT TO: <u>Natasha Markovic - Minevic</u>		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED					
COMPANY: <u>Gautier Inc Limited</u>		STANDARD ☒ OTHER ☐		☒ REGULAR SERVICE (DEFAULT)					
CONTACT: <u>Jennifer Funston</u>		PDF ☒ EXCEL ☒ CUSTOM ☐ FAX ☐		☐ RUSH SERVICE (2-3 DAYS)					
ADDRESS: <u>2251 2nd Avenue</u>		EMAIL 1: <u>jfunston@gautierinc.com</u>		☐ PRIORITY SERVICE (1 DAY or ASAP)					
Whitehorse Yukon <u>Y1A 5W1</u>		EMAIL 2: <u></u>		☐ EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS					
PHONE: <u>867.638.4714</u> FAX: <u>867.633.6321</u>		INDICATE BOTTLES: FILTERED / PRESERVED (F/P)		ANALYSIS REQUEST					
INVOICE TO: <u>SAME AS REPORT ?</u> (YES / NO)		CLIENT / PROJECT INFORMATION: <u>Faro Mine</u>							
CONTACT: <u></u>		JOB #: <u>70546</u>							
ADDRESS: <u></u>		PO / A/E: <u></u>							
PHONE: <u></u> FAX: <u></u>		Legal Site Description: <u></u>							
QUOTE #: <u></u>		SAMPLER (Initials): <u>JE, EC</u>							
Lab Work Order # <u>1575054</u>		(lab use only)							
SAMPLE IDENTIFICATION		DATE		TIME					
(This description will appear on the report)		SAMPLE TYPE		HAZARDOUS ?					
P03-08-02		Nov. 6/07		GEO		HIGHLY CONTAMINATED ?		NUMBER OF CONTAINERS	
P03-08-03									
P03-08-04									
P03-08-05									
P03-09-02		Nov. 5/07							
P03-09-04									
P03-09-06									
P03-09-07									
P03-09-09									
GUIDELINES / REGULATIONS		SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS							
CCME Aquatic Life Metals		Please use Zn BL of 0.005 mg/L.							
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 reverse page of the white report copy.									
RELINQUISHED BY: <u>Don Munster</u>		DATE & TIME: <u>Nov. 7/07</u>		RECEIVED BY: <u>420 071111108</u>		DATE & TIME: <u>1.54</u>		TEMPERATURE <u>3</u>	
RELINQUISHED BY: <u></u>		DATE & TIME: <u></u>		RECEIVED BY: <u></u>		DATE & TIME: <u></u>		SAMPLE CONDITION (lab use only)	
								SAMPLES RECEIVED IN GOOD CONDITION ? (YES) NO	

Project	70546 FARO MINE
Report To	JEN FUNSTON, GARTNER LEE LTD.
ALS File No.	L575954
Date Received	08-Nov-07
Date	15-Dec-07

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Dissolved Metals											
L575954-1	Water	WG690022-11	Mercury (Hg)-Dissolved	<0.000050	<0.000050	mg/L	N/A	26	-	-	RPD-NA
Physical Tests											
L575954-7	Water	WG690248-5	Conductivity	1260	1260	uS/cm	0.079	20	-	-	-
L575954-7	Water	WG690248-5	pH	7.93	7.94	pH	0.087	20	-	-	-
Anions and Nutrients											
L575954-10	Water	WG690351-12	Alkalinity, Total (as CaCO3)	263	264	mg/L	0.29	20	-	-	-
Dissolved Metals											
L575954-11	Water	WG690022-12	Mercury (Hg)-Dissolved	<0.000050	<0.000050	mg/L	N/A	26	-	-	RPD-NA
Anions and Nutrients											
L575954-13	Water	WG691206-3	Sulfate (SO4)	987	986	mg/L	0.093	20	-	-	-
Physical Tests											
L575954-14	Water	WG690248-6	Conductivity	1270	1270	uS/cm	0.24	20	-	-	-
L575954-14	Water	WG690248-6	pH	7.86	7.86	pH	0.029	20	-	-	-
Dissolved Metals											
L575954-18	Water	WG689109-6	Aluminum (Al)-Dissolved	<0.025	<0.025	mg/L	N/A	20	-	-	RPD-NA
L575954-18	Water	WG689109-6	Antimony (Sb)-Dissolved	<0.0025	<0.0025	mg/L	N/A	20	-	-	RPD-NA
L575954-18	Water	WG689109-6	Arsenic (As)-Dissolved	<0.0025	<0.0025	mg/L	N/A	20	-	-	RPD-NA
L575954-18	Water	WG689109-6	Barium (Ba)-Dissolved	0.059	0.058	mg/L	-	-	0.001	0.08	J
L575954-18	Water	WG689109-6	Beryllium (Be)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L575954-18	Water	WG689109-6	Boron (B)-Dissolved	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
L575954-18	Water	WG689109-6	Cadmium (Cd)-Dissolved	0.000208	0.000198	mg/L	-	-	0.000009	0.0002	J
L575954-18	Water	WG689109-6	Calcium (Ca)-Dissolved	248	253	mg/L	2.0	20	-	-	-
L575954-18	Water	WG689109-6	Chromium (Cr)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L575954-18	Water	WG689109-6	Cobalt (Co)-Dissolved	0.0030	0.0030	mg/L	-	-	0.0000	0.006	J
L575954-18	Water	WG689109-6	Copper (Cu)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L575954-18	Water	WG689109-6	Iron (Fe)-Dissolved	0.103	0.103	mg/L	-	-	0.000	0.12	J
L575954-18	Water	WG689109-6	Lead (Pb)-Dissolved	<0.0025	<0.0025	mg/L	N/A	20	-	-	RPD-NA

L575954-18	Water	WG689109-6	Lithium (Li)-Dissolved	<0.025	<0.025	mg/L	N/A	20	-	-	RPD-NA
L575954-18	Water	WG689109-6	Magnesium (Mg)-Dissolved	54.8	53.6	mg/L	2.3	20	-	-	-
L575954-18	Water	WG689109-6	Manganese (Mn)-Dissolved	9.04	9.21	mg/L	1.8	20	-	-	-
L575954-18	Water	WG689109-6	Molybdenum (Mo)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L575954-18	Water	WG689109-6	Nickel (Ni)-Dissolved	0.0114	0.0116	mg/L	-	-	0.0002	0.02	J
L575954-18	Water	WG689109-6	Potassium (K)-Dissolved	4.7	4.7	mg/L	-	-	0.0	8	J
L575954-18	Water	WG689109-6	Selenium (Se)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L575954-18	Water	WG689109-6	Silver (Ag)-Dissolved	<0.00010	<0.00010	mg/L	N/A	20	-	-	RPD-NA
L575954-18	Water	WG689109-6	Sodium (Na)-Dissolved	36.6	35.8	mg/L	2.1	20	-	-	-
L575954-18	Water	WG689109-6	Thallium (Tl)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L575954-18	Water	WG689109-6	Tin (Sn)-Dissolved	<0.0025	<0.0025	mg/L	N/A	20	-	-	RPD-NA
L575954-18	Water	WG689109-6	Titanium (Ti)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L575954-18	Water	WG689109-6	Uranium (U)-Dissolved	0.0072	0.0074	mg/L	-	-	0.0002	0.004	J
L575954-18	Water	WG689109-6	Vanadium (V)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L575954-18	Water	WG689109-6	Zinc (Zn)-Dissolved	0.0068	<0.025	mg/L	N/A	20	-	-	RPD-NA

Appendix B

Appendix B. Quality Assurance (QA/QC) of Samples 2007

Appendix B. Summary of QA/QC Field Splits

May/June 2007 Sampling

ALS Report ID	L513918	L513918		L513920	L513920		L513921	L513921		L513925	L513925		L513926	L513926		L513926	L513926	
Date submitted	05-Jun-07	05-Jun-07		05-Jun-07	05-Jun-07		05-Jun-07	05-Jun-07		05-Jun-07	05-Jun-07		05-Jun-07	05-Jun-07		05-Jun-07	05-Jun-07	
Date of report	30-Nov-07	30-Nov-07		15-Dec-07	15-Dec-07		15-Dec-07	15-Dec-07		03-Dec-07	03-Dec-07		30-Nov-07	30-Nov-07		30-Nov-07	30-Nov-07	
RESULTS OF ANALYSIS	sample	split	RPD (%)	sample	split	RPD (%)	sample	split	RPD (%)	sample	split	RPD (%)	sample	split	RPD (%)	sample	split	RPD (%)
Sample ID	P2001-03	P2001-03-S		P03-03-04	P03-03-04-S		P03-04-03	P03-04-03-S		SRK05-SP-1B	SRK05-SP-1B-S		P03-05-06	P03-05-06-S		P03-06-04	P03-06-04-S	
Date Sampled	30-MAY-07	30-MAY-07		31-MAY-07	31-MAY-07		30-MAY-07	30-MAY-07		29-MAY-07	29-MAY-07		31-MAY-07	31-MAY-07		30-MAY-07	30-MAY-07	
ALS Sample ID	L513918-4	L513918-5		L513920-4	L513920-5		L513921-3	L513921-4		L513925-15	L513925-16		L513926-6	L513926-7		L513926-13	L513926-14	
Physical Tests																		
Hardness CaCO3	514	511	0.6	302	295	2.3	893	875	2.0	562	601	6.7	1930	1720	11.5	867	883	1.8
Conductivity (uS/cm)	929	923	0.6	639	641	0.3	1340	1340	0.0	945	947	0.2	2900	2880	0.7	1390	1550	10.9
pH	8.15	8.14	0.1	6.64	6.75	1.6	7.18	7.43	3.4	6.89	6.83	0.9	6.19	6.22	0.5	7.45	7.38	0.9
Dissolved Anions																		
Alkalinity-Total CaCO3	440	446	1.4	23.3	24.5	5.0	98.8	96.9	1.9	196	364	60.0	19.8	19.8	0.0	176	172	2.3
Bromide Br	-	-		<0.050	<0.050		-	-		-	-		<0.50	<0.50		-	-	
Sulphate SO4	124	126	1.6	-	316		835	796	4.8	276	280	1.4	2770	2820	1.8	904	890	1.6
Dissolved Metals																		
Aluminum D-Al	0.0048	0.0023	70.4	<0.025	<0.025		0.031	0.07	77.2	0.016	0.013	20.7	<0.050	<0.050		0.064	<0.025	
Antimony D-Sb	<0.00020	<0.00020		<0.0025	<0.0025		<0.0025	<0.0050		<0.0010	<0.0010		<0.0050	<0.0050		<0.0025	<0.0025	
Arsenic D-As	0.00372	0.00369	0.8	<0.0025	<0.0025		<0.0025	<0.0050		0.0062	0.0061	1.6	<0.0050	<0.0050		<0.0025	<0.0025	
Barium D-Ba	0.0309	0.0305	1.3	0.04	0.04	0.0	<0.020	<0.020		<0.020	<0.020		<0.020	<0.020		0.041	0.046	11.5
Beryllium D-Be	<0.0010	<0.0010		<0.0050	<0.0050		<0.0050	<0.010		<0.0020	<0.0020		<0.010	<0.010		<0.0050	<0.0050	
Bismuth D-Bi	<0.0010	<0.0010		-	-		-	-		-	-		-	-		-	-	
Boron D-B	0.023	0.024	4.3	<0.10	<0.10		<0.10	<0.10		<0.10	<0.10		<0.10	<0.10		<0.10	<0.10	
Cadmium D-Cd	0.000888	0.000847	4.7	0.00324	0.00306	5.7	0.00161	0.00181	11.7	0.000312	0.000298	4.6	<0.00017	<0.00017		0.000407	0.000402	1.2
Calcium D-Ca	99.8	98.3	1.5	93.2	90.2	3.3	263	257	2.3	144	153	6.1	313	280	11.1	244	248	1.6
Chromium D-Cr	<0.0010	<0.0010		<0.0050	<0.0050		<0.0050	<0.010		<0.0020	<0.0020		<0.010	<0.010		<0.0050	<0.0050	
Cobalt D-Co	0.00077	0.00078	1.3	0.113	0.113	0.0	0.0655	0.0741	12.3	0.00486	0.00487	0.2	<0.0030	<0.0030		0.0596	0.0587	1.5
Copper D-Cu	0.00233	0.00233	0.0	<0.0050	<0.0050		<0.0050	<0.010		<0.0020	<0.0020		<0.010	<0.010		<0.0050	<0.0050	
Iron D-Fe	<0.030	<0.030		18.4	18.2	1.1	0.196	0.175	11.3	7.69	8.27	7.3	97.9	87.6	11.1	21	21.3	1.4
Lead D-Pb	<0.00010	<0.00010		<0.0025	<0.0025		<0.0025	<0.0050		<0.0010	<0.0010		<0.0050	<0.0050		<0.0025	<0.0025	
Lithium D-Li	0.011	0.011	0.0	0.03	0.029	3.4	<0.025	<0.050		0.043	0.042	2.4	<0.050	<0.050		<0.025	<0.025	
Magnesium D-Mg	64.4	64.5	0.2	16.7	16.9	1.2	57.3	56.9	0.7	49.2	52.8	7.1	278	247	11.8	62.7	64	2.1
Manganese D-Mn	0.593	0.591	0.3	15	14.5	3.4	26.8	30.1	11.6	0.861	0.859	0.2	2.75	2.72	1.1	19.9	19.6	1.5
Mercury D-Hg	-	-		<0.000020	<0.000020		<0.000020	<0.000020		<0.000020	<0.000020		<0.000020	<0.000020		<0.000020	<0.000020	
Molybdenum D-Mo	0.0165	0.0163	1.2	<0.0050	<0.0050		<0.0050	<0.010		<0.0020	<0.0020		<0.010	<0.010		<0.0050	<0.0050	
Nickel D-Ni	0.0018	0.0018	0.0	0.122	0.122	0.0	0.0905	0.104	13.9	0.0145	0.0144	0.7	<0.010	<0.010		0.0659	0.0645	2.1
Phosphorus D-P	<0.30	<0.30		-	-		-	-		-	-		-	-		-	-	
Potassium D-K	3.2	3.2	0.0	2.7	2.7	0.0	3.6	3.6	0.0	3.9	4.1	5.0	41	36	13.0	2.3	2.5	8.3
Selenium D-Se	<0.0020	<0.0020		<0.0050	<0.0050		<0.0050	<0.010		<0.0020	<0.0020		<0.010	<0.010		<0.0050	<0.0050	
Silicon D-Si	6.12	6.1	0.3	<0.00010	<0.00010		-	-		-	-		-	-		-	-	
Silver D-Ag	<0.000020	<0.000020					<0.00010	<0.00020		<0.000040	<0.000040		<0.00020	<0.00020		<0.00010	<0.00010	
Sodium D-Na	42.1	41.2	2.2	11.9	12.2	2.5	24.7	24.3	1.6	8.6	9.3	7.8	203	180	12.0	16.7	18.4	9.7
Strontium D-Sr	0.613	0.604	1.5	<0.0010	<0.0010		-	-		-	-		-	-		-	-	
Thallium D-Tl	<0.00020	<0.00020					<0.0010	<0.0020		<0.00040	<0.00040		<0.0020	<0.0020		<0.0010	<0.0010	
Tin D-Sn	<0.00020	<0.00020		<0.0025	<0.0025		<0.0025	<0.0050		<0.0010	<0.0010		<0.0050	<0.0050		<0.0025	<0.0025	
Titanium D-Ti	<0.010	<0.010		<0.010	<0.010		<0.010	<0.010		<0.010	<0.010		<0.010	<0.010		<0.010	<0.010	
Uranium D-U	0.0128	0.0125	2.4	<0.0010	<0.0010		<0.0010	<0.0020		0.00209	0.00212	1.4	<0.0020	<0.0020		0.0361	0.0364	0.8
Vanadium D-V	<0.0020	<0.0020		<0.030	<0.030		<0.030	<0.030		<0.030	<0.030		<0.030	<0.030		<0.030	<0.030	
Zinc D-Zn	0.0089	0.0094	5.5	4.18	4.07	2.7	0.0571	0.0581	1.7	0.278	0.295	5.9	<0.0050	<0.0050		3.22	3.26	1.2

does not satisfy PQL, therefore RPD not useful

PQL satisfied

Appendix B. Summary of QA/QC Field Splits

May/June 2007 Sampling

ALS Report ID	L513944	L513944		L513944	L513944		L514372	L514372		L514372	L514372		L514598	L514598	
Date submitted	05-Jun-07	05-Jun-07		05-Jun-07	05-Jun-07		05-Jun-07	05-Jun-07		05-Jun-07	05-Jun-07		06-Jun-07	06-Jun-07	
Date of report	15-Dec-07	15-Dec-07		15-Dec-07	15-Dec-07		15-Dec-07	15-Dec-07		15-Dec-07	15-Dec-07		30-Nov-07	30-Nov-07	
RESULTS OF ANALYSIS															
	sample	split	RPD (%)	sample	split	RPD (%)	sample	split	RPD (%)	sample	split	RPD (%)	sample	split	RPD (%)
Sample ID	P03-01-03	P03-01-03-S		P03-02-05	P03-02-05-S		SRK05-SP-4A	SRK05-SP-4A-S		X21C-96	X25C-96-S		P03-08-01	P03-08-01-S	
Date Sampled	01-JUN-07	01-JUN-07		01-JUN-07	01-JUN-07		28-MAY-07	28-MAY-07		01-JUN-07	01-JUN-07		29-MAY-07	29-MAY-07	
ALS Sample ID	L513944-3	L513944-4		L513944-15	L513944-16		L514372-1	L514372-2		L514372-14	L514372-17		L514598-1	L514598-1	
Physical Tests															
Hardness CaCO ₃	148	147	0.7	2010	1960	2.5	523	548	4.7	203	198	2.5	303	302	0.3
Conductivity (uS/cm)	255	255	0.0	4830	6120	23.6	915	877	4.2	335	327	2.4	548	547	0.2
pH	7.85	7.91	0.8	4.9	4.52	8.1	6.94	7.2	3.7	8.11	8.4	3.5	8.16	8.18	0.2
Dissolved Anions															
Alkalinity-Total CaCO ₃	98.9	94.9	4.1	20.7	21.3	2.9	251	251	0.0	180	173	4.0	275	272	1.1
Bromide Br	-	-		-	-		-	-		-	-		-	-	
Sulphate SO ₄	40.5	40.9	1.0	6540	6650	1.7	292	288	1.4	12	11.5	4.3	53.6	52.7	1.7
Dissolved Metals															
Aluminum D-Al	<0.0050	<0.0050		<0.10	<0.10		<0.025	0.031		0.0114	<0.0050		0.0051	0.0056	9.3
Antimony D-Sb	<0.00050	<0.00050		<0.010	<0.010		<0.0025	<0.0010		<0.00050	<0.00050		<0.00050	<0.00050	
Arsenic D-As	<0.00050	<0.00050		<0.010	<0.010		0.0029	0.0046	45.3	0.02	0.0262	26.8	<0.00050	<0.00050	
Barium D-Ba	0.088	0.088	0.0	<0.040	<0.040		0.026	0.03	14.3	0.174	0.177	1.7	0.07	0.069	1.4
Beryllium D-Be	<0.0010	<0.0010		<0.020	<0.020		<0.0050	<0.0020		<0.0010	<0.0010		<0.0010	<0.0010	
Bismuth D-Bi	-	-		-	-		-	-		-	-		-	-	
Boron D-B	<0.10	<0.10		<0.20	<0.20		<0.10	<0.10		<0.10	<0.10		<0.10	<0.10	
Cadmium D-Cd	0.000038	0.000042	10.0	<0.00034	<0.00034		<0.000085	<0.000034		0.000038	<0.000017		0.000024	<0.000017	
Calcium D-Ca	47	46.6	0.9	335	329	1.8	132	137	3.7	65.1	63.3	2.8	75.9	76.6	0.9
Chromium D-Cr	<0.0010	<0.0010		<0.020	<0.020		<0.0050	<0.0020		<0.0010	<0.0010		<0.0010	<0.0010	
Cobalt D-Co	<0.00030	<0.00030		<0.0060	<0.0060		0.0262	0.00948	93.7	<0.00030	<0.00030		<0.00030	<0.00030	
Copper D-Cu	<0.0010	<0.0010		<0.020	<0.020		<0.0050	<0.0020		0.001	<0.0010		<0.0010	<0.0010	
Iron D-Fe	<0.030	<0.030		1930	1890	2.1	8.95	21.3	81.7	<0.030	0.384		<0.030	<0.030	
Lead D-Pb	<0.00050	<0.00050		<0.010	<0.010		<0.0025	<0.0010		0.0019	<0.00050		<0.00050	<0.00050	
Lithium D-Li	<0.0050	<0.0050		0.17	0.17	0.0	0.151	0.054	94.6	<0.0050	<0.0050		0.009	0.0091	1.1
Magnesium D-Mg	7.43	7.47	0.5	285	277	2.8	46.9	49.9	6.2	9.71	9.75	0.4	27.4	27	1.5
Manganese D-Mn	0.0049	0.00403	19.5	22.8	23	0.9	2.92	1.09	91.3	0.206	0.217	5.2	0.0466	0.0469	0.6
Mercury D-Hg	<0.000020	<0.000020		<0.000020	<0.000020		<0.000020	<0.000020		<0.000020	<0.000020		<0.000020	<0.000020	
Molybdenum D-Mo	<0.0010	<0.0010		<0.020	<0.020		<0.0050	<0.0020		0.0041	0.004	2.5	<0.0010	<0.0010	
Nickel D-Ni	0.001	0.0012	18.2	<0.020	<0.020		0.0535	0.0194	93.6	<0.0010	<0.0010		0.0023	0.0022	4.4
Phosphorus D-P	-	-		-	-		-	-		-	-		-	-	
Potassium D-K	<2.0	<2.0		49.9	49.3	1.2	4.5	4.7	4.3	2	2	0.0	<2.0	<2.0	
Selenium D-Se	<0.0010	<0.0010		<0.020	<0.020		<0.0050	<0.0020		<0.0010	<0.0010		<0.0010	<0.0010	
Silicon D-Si	-	-		-	-		-	-		-	-		-	-	
Silver D-Ag	<0.000020	<0.000020		<0.00040	<0.00040		<0.00010	<0.000040		<0.000020	<0.000020		<0.000020	<0.000020	
Sodium D-Na	2.8	2.8	0.0	329	325	1.2	9.7	10.2	5.0	2.9	3.1	6.7	2.3	2.3	0.0
Strontium D-Sr	-	-		-	-		-	-		-	-		-	-	
Thallium D-Tl	<0.00020	<0.00020		<0.0040	<0.0040		<0.0010	<0.00040		<0.00020	<0.00020		<0.00020	<0.00020	
Tin D-Sn	<0.00050	<0.00050		<0.010	<0.010		<0.0025	<0.0010		<0.00050	<0.00050		<0.00050	<0.00050	
Titanium D-Ti	<0.010	<0.010		<0.020	<0.020		<0.010	<0.010		<0.010	<0.010		<0.010	<0.010	
Uranium D-U	0.001	0.00104	3.9	<0.0040	<0.0040		0.0015	0.00071	71.5	0.00028	<0.00020		0.00405	0.00413	2.0
Vanadium D-V	<0.030	<0.030		0.128	0.124	3.2	<0.030	<0.030		<0.030	<0.030		<0.030	<0.030	
Zinc D-Zn	<0.0050	<0.0050		0.018	0.011	48.3	0.951	1.05	9.9	<0.0050	<0.0050		0.0055	0.007	24.0

does not satisfy PQL, therefore RPD not useful

PQL satisfied

Appendix B. Summary of QA/QC Field Splits

August 2007 Sampling

ALS Report ID	L538657	L538657		L538657	L538657	
Date submitted	07-Aug-07	07-Aug-07		07-Aug-07	07-Aug-07	
Date of report	15-Dec-07	15-Dec-07		15-Dec-07	15-Dec-07	
RESULTS OF ANALYSIS						
	sample	split	RPD(%)	sample	split	RPD(%)
Sample ID	P03-04-02	P03-04-02-S		P03-08-03	P03-08-03-S	
Date Sampled	02-AUG-07	02-AUG-07		02-AUG-07	02-AUG-07	
ALS Sample ID	L538657-5	L538657-6		L538657-10	L538657-11	
Physical Tests						
Hardness CaCO3	1130	1100	2.7	351	354	0.9
Conductivity (uS/cm)	1840	1830	0.5	747	747	0.0
pH	7.16	7.09	1.0	8	8.03	0.4
Dissolved Anions						
Alkalinity-Total CaCO3	120	125	4.1	284	285	0.4
Sulphate SO4	1010	1000	1.0	144	143	0.7
Dissolved Metals						
Aluminum D-Al	0.107	<0.050		0.0056	<0.010	
Antimony D-Sb	<0.0050	<0.0050		<0.00050	<0.0010	
Arsenic D-As	<0.0050	<0.0050		<0.00050	<0.0010	
Barium D-Ba	<0.020	<0.020		0.1	0.098	2.0
Beryllium D-Be	<0.010	<0.010		<0.0010	<0.0020	
Boron D-B	<0.10	<0.10		<0.10	<0.10	
Cadmium D-Cd	0.00312	0.00306	1.9	0.000288	0.000316	9.3
Calcium D-Ca	328	323	1.5	101	102	1.0
Chromium D-Cr	<0.010	<0.010		<0.0010	<0.0020	
Cobalt D-Co	0.131	0.133	1.5	<0.00030	<0.00060	
Copper D-Cu	<0.010	<0.010		0.0039	0.0043	9.8
Iron D-Fe	0.086	0.086	0.0	0.104	0.076	31.1
Lead D-Pb	<0.0050	<0.0050		<0.00050	<0.0010	
Lithium D-Li	<0.050	<0.050		<0.0050	<0.010	
Magnesium D-Mg	74.5	71.5	4.1	24.3	24	1.2
Manganese D-Mn	38.1	38.7	1.6	5.87	6.2	5.5
Mercury D-Hg	<0.000020	<0.000020		<0.000020	<0.000020	
Molybdenum D-Mo	<0.010	<0.010		0.0041	0.0044	7.1
Nickel D-Ni	0.203	0.205	1.0	0.0226	0.0244	7.7
Potassium D-K	4	3.8	5.1	<2.0	<2.0	
Selenium D-Se	<0.010	<0.010		<0.0010	<0.0020	
Silver D-Ag	<0.00020	<0.00020		<0.000020	<0.000040	
Sodium D-Na	28.7	27.8	3.2	10.9	10.8	0.9
Thallium D-Tl	<0.0020	<0.0020		<0.00020	<0.00040	
Tin D-Sn	<0.0050	<0.0050		<0.00050	<0.0010	
Titanium D-Ti	<0.010	<0.010		<0.010	<0.010	
Uranium D-U	<0.0020	<0.0020		0.00391	0.0041	4.7
Vanadium D-V	<0.030	<0.030		<0.030	<0.030	
Zinc D-Zn	0.0643	0.0648	0.8	0.006	0.0098	48.1

Appendix B. Summary of QA/QC Field Splits

October 2007 Sampling

ALS Report ID	L563837	L563837		L563837	L563837		L563837	L563837		L563840	L563840		L563854	L563854		L563854	L563854	
Date submitted	09-Oct-07	09-Oct-07		09-Oct-07	09-Oct-07		09-Oct-07	09-Oct-07		09-Oct-07	09-Oct-07		09-Oct-07	09-Oct-07		09-Oct-07	09-Oct-07	
Date of report	03-Dec-07	03-Dec-07		03-Dec-07	03-Dec-07		03-Dec-07	03-Dec-07		15-Dec-07	15-Dec-07		22-Nov-07	22-Nov-07		22-Nov-07	22-Nov-07	
RESULTS OF ANALYSIS																		
	sample	split	RPD (%)	sample	split	RPD (%)	sample	split	RPD (%)	sample	split	RPD (%)	sample	split	RPD (%)	sample	split	RPD (%)
Sample ID	P03-05-03	P03-05-03-S		P96-6	P96-6-S		P03-06-05	P03-06-05-S		P03-02-03	P03-02-03-S		P03-03-03	P03-03-03-S		P03-04-01	P03-04-01-S	
Date Sampled	02-OCT-07	02-OCT-07		02-OCT-07	02-OCT-07		02-OCT-07	02-OCT-07		05-OCT-07	05-OCT-07		05-OCT-07	05-OCT-07		04-OCT-07	04-OCT-07	
ALS Sample ID	L563837-3	L563837-4		L563837-10	L563837-17		L563837-15	L563837-16		L563840-9	L563840-10		L563854-3	L563854-4		L563854-10	L563854-11	
Physical Tests																		
Hardness CaCO ₃	481	480	0.2	527	520	1.3	611	609	0.3	184	180	2.2	232	231	0.4	1050	1050	0.0
Conductivity (uS/cm)	935	922	1.4	924	927	0.3	1510	1520	0.7	382	382	0.0	585	584	0.2	2010	2010	0.0
pH	7.49	7.19	4.1	6.85	6.9	0.7	5.78	5.74	0.7	7.59	7.56	0.4	5.78	5.85	1.2	7.57	7.61	0.5
Dissolved Anions																		
Alkalinity-Total CaCO ₃	157	163	3.8	271	271	0.0	14.5	14.3	1.4	114	112	1.8	9.7	9.7	0.0	285	289	1.4
Bromide Br	<0.050	<0.050	-	-	-	-	-	-	-	-	-	-	<0.050	<0.050	-	-	-	-
Sulphate SO ₄	331	328	0.9	268	269	0.4	878	886	0.9	83.4	82.3	1.3	264	263	0.4	900	904	0.4
Dissolved Metals																		
Aluminum D-Al	<0.010	<0.010		<0.010	<0.010		<0.025	<0.025		0.0093	0.0077	18.8	0.117	0.116	0.9	<0.025	<0.025	
Antimony D-Sb	<0.0010	<0.0010		<0.0010	<0.0010		<0.0025	<0.0025		<0.00050	<0.00050		<0.0010	<0.0010		<0.0025	<0.0025	
Arsenic D-As	<0.0010	<0.0010		<0.0010	<0.0010		0.0059	0.006	1.7	<0.00050	<0.00050		<0.0010	<0.0010		<0.0025	<0.0025	
Barium D-Ba	0.168	0.165	1.8	<0.020	<0.020		<0.020	<0.020		0.118	0.115	2.6	<0.020	<0.020		<0.020	<0.020	
Beryllium D-Be	<0.0020	<0.0020		<0.0020	<0.0020		<0.0050	<0.0050		<0.0010	<0.0010		<0.0020	<0.0020		<0.0050	<0.0050	
Boron D-B	<0.10	<0.10		<0.10	<0.10		<0.10	<0.10		<0.10	<0.10		<0.10	<0.10		<0.10	<0.10	
Cadmium D-Cd	0.000049	<0.000034		0.000096	0.000121	23.0	<0.000085	<0.000085		0.000037	0.000049	27.9	0.00571	0.00556	2.7	<0.000085	<0.000085	
Calcium D-Ca	148	147	0.7	138	136	1.5	113	112	0.9	56	54.9	2.0	71	70.9	0.1	330	334	1.2
Chromium D-Cr	<0.0020	<0.0020		<0.0020	<0.0020		<0.0050	<0.0050		<0.0010	<0.0010		<0.0020	<0.0020		<0.0050	<0.0050	
Cobalt D-Co	0.00509	0.00538	5.5	<0.00060	<0.00060		0.012	0.0122	1.7	<0.00030	<0.00030		0.105	0.105	0.0	<0.0015	<0.0015	
Copper D-Cu	<0.0020	<0.0020		<0.0020	<0.0020		<0.0050	<0.0050		<0.0010	<0.0010		<0.0020	<0.0020		<0.0050	<0.0050	
Iron D-Fe	1.39	1.37	1.4	<0.030	0.235		180	180	0.0	<0.030	<0.030		17.8	17.4	2.3	15.1	6.4	80.9
Lead D-Pb	<0.0010	<0.0010		<0.0010	<0.0010		<0.0025	<0.0025		<0.00050	<0.00050		<0.0010	<0.0010		<0.0025	<0.0025	
Lithium D-Li	<0.010	<0.010		0.03	0.03	0.0	<0.025	<0.025		0.0051	0.0052	1.9	0.025	0.027	7.7	<0.025	<0.025	
Magnesium D-Mg	27.2	27.2	0.0	44.4	43.9	1.1	79.8	79.7	0.1	10.6	10.5	0.9	13.3	13.1	1.5	54.1	53.5	1.1
Manganese D-Mn	8.94	9.22	3.1	0.0022	0.00484	75.0	16	16.1	0.6	0.00066	0.00064	3.1	8.31	8.24	0.8	1.61	1.65	2.5
Mercury D-Hg	<0.000020	<0.000020		<0.000020	<0.000020		<0.000020	<0.000020		<0.000020	<0.000020		<0.000020	<0.000020		<0.000020	<0.000020	
Molybdenum D-Mo	<0.0020	<0.0020		<0.0020	<0.0020		<0.0050	<0.0050		<0.0010	<0.0010		<0.0020	<0.0020		<0.0050	<0.0050	
Nickel D-Ni	0.0024	0.0025	4.1	0.0078	0.0078	0.0	0.0276	0.0285	3.2	<0.0010	<0.0010		0.121	0.12	0.8	<0.0050	<0.0050	
Potassium D-K	2.4	2.4	0.0	3.4	3.6	5.7	2.9	3	3.4	<2.0	<2.0		2.5	2.4	4.1	5.4	5.4	0.0
Selenium D-Se	<0.0020	<0.0020		0.0033	0.0034	3.0	<0.0050	<0.0050		<0.0010	<0.0010		<0.0020	<0.0020		<0.0050	<0.0050	
Silver D-Ag	<0.000040	<0.000040		<0.000040	<0.000040		<0.00010	<0.00010		<0.000020	<0.000020		<0.000040	<0.000040		<0.00010	<0.00010	
Sodium D-Na	11.8	11.6	1.7	5.1	4.9	4.0	23.7	24.3	2.5	2.9	2.9	0.0	6.1	5.9	3.3	97.8	96.9	0.9
Thallium D-Tl	<0.00040	<0.00040		<0.00040	<0.00040		<0.0010	<0.0010		<0.00020	<0.00020		<0.00040	<0.00040		<0.0010	<0.0010	
Tin D-Sn	<0.0010	<0.0010		<0.0010	<0.0010		<0.0025	<0.0025		<0.00050	<0.00050		<0.0010	<0.0010		<0.0025	<0.0025	
Titanium D-Ti	<0.010	<0.010		<0.010	<0.010		<0.010	<0.010		<0.010	<0.010		<0.010	<0.010		<0.010	<0.010	
Uranium D-U	0.00499	0.00516	3.3	0.0162	0.016	1.2	0.0046	0.0046	0.0	0.00171	0.00171	0.0	<0.00040	<0.00040		0.0074	0.0074	0.0
Vanadium D-V	<0.0020	<0.0020		<0.0020	<0.0020		<0.0050	<0.0050		<0.0010	<0.0010		<0.0020	<0.0020		<0.0050	<0.0050	
Zinc D-Zn	0.0092	0.0055	50.3	0.239	0.241	0.8	16.2	16.3	0.6	0.0071	0.0131	59.4	6.37	6.43	0.9	0.0181	0.0195	7.4

does not satisfy PQL, therefore RPD not useful

PQL satisfied

Appendix B. Summary of QA/QC Field Splits

October 2007 Sampling

ALS Report ID	L563872	L563872		L563872	L563872		L563873	L563873		L566058	L566058		L566063	L566063		L566063	L566063	
Date submitted	09-Oct-07	09-Oct-07		09-Oct-07	09-Oct-07		09-Oct-07	09-Oct-07		15-Oct-07	15-Oct-07		15-Oct-07	15-Oct-07		15-Oct-07	15-Oct-07	
Date of report	22-Nov-07	22-Nov-07		22-Nov-07	22-Nov-07		24-Dec-07	24-Dec-07		27-Nov-07	27-Nov-07		22-Nov-07	22-Nov-07		22-Nov-07	22-Nov-07	
RESULTS OF ANALYSIS																		
	sample	split	RPD (%)	sample	split	RPD (%)	sample	split	RPD (%)	sample	split	RPD (%)	sample	split	RPD (%)	sample	split	RPD (%)
Sample ID	P05-01-02	P05-01-02-S		SRK05-SP-1A	SRK05-SP-1A-S		P01-02A	P01-02A-S		X21B	X21B-S		P03-01-05	P03-01-05-S		SRK05-09	SRK05-09-S	
Date Sampled	02-OCT-07	02-OCT-07		03-OCT-07	03-OCT-07		04-OCT-07	04-OCT-07		10-OCT-07	10-OCT-07		10-OCT-07	10-OCT-07		12-OCT-07	12-OCT-07	
ALS Sample ID	L563872-2	L563872-3		L563872-8	L563872-9		L563873-8	L563873-9		L566058-12	L566058-13		L566063-5	L566063-6		L566063-19	L566063-20	
Physical Tests																		
Hardness CaCO ₃	1400	1380	1.4	697	696	0.1	365	363	0.5	911	907	0.4	168	168	0.0	1390	1420	2.1
Conductivity (uS/cm)	2280	2290	0.4	1340	1330	0.7	645	638	1.1	1780	1780	0.0	366	365	0.3	2040	2050	0.5
pH	7.44	7.49	0.7	6.14	6.15	0.2	7.92	7.94	0.3	6.73	6.76	0.4	7.2	7.16	0.6	7.95	7.96	0.1
Dissolved Anions																		
Alkalinity-Total CaCO ₃	334	332	0.6	261	259	0.8	254	263	3.5	165	172	4.2	37.2	36.3	2.4	362	348	3.9
Bromide Br	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate SO ₄	1120	1110	0.9	460	448	2.6	123	116	5.9	947	941	0.6	134	132	1.5	895	856	4.5
Dissolved Metals																		
Aluminum D-Al	<0.025	<0.025		0.088	0.086	2.3	<0.010	<0.010		<0.025	<0.025		0.0117	0.0063	60.0	0.029	<0.025	
Antimony D-Sb	<0.0025	<0.0025		<0.0010	<0.0010		<0.0010	<0.0010		<0.0025	<0.0025		<0.00050	<0.00050		<0.0025	<0.0025	
Arsenic D-As	<0.0025	<0.0025		0.0056	0.0051	9.3	<0.0010	<0.0010		0.0065	0.0064	1.6	<0.00050	<0.00050		<0.0025	<0.0025	
Barium D-Ba	0.033	0.033	0.0	<0.020	<0.020		0.06	0.06	0.0	0.021	0.02	4.9	0.037	0.036	2.7	0.068	0.075	9.8
Beryllium D-Be	<0.0050	<0.0050		0.0022	0.0021	4.7	<0.0020	<0.0020		<0.0050	<0.0050		<0.0010	<0.0010		<0.0050	<0.0050	
Boron D-B	<0.10	<0.10		<0.10	<0.10		<0.10	<0.10		<0.10	<0.10		<0.10	<0.10		<0.10	<0.10	
Cadmium D-Cd	<0.000085	<0.000085		0.000041	0.000057	32.7	0.000081	0.000075	7.7	0.000111	<0.000085		0.0005	0.000508	1.6	0.000283	0.000268	5.4
Calcium D-Ca	432	427	1.2	173	173	0.0	105	104	1.0	274	273	0.4	52.9	53	0.2	285	288	1.0
Chromium D-Cr	<0.0050	<0.0050		<0.0020	<0.0020		<0.0020	<0.0020		<0.0050	<0.0050		<0.0010	<0.0010		<0.0050	<0.0050	
Cobalt D-Co	<0.0015	<0.0015		0.00587	0.00581	1.0	<0.00060	<0.00060		0.0117	0.0113	3.5	0.0016	0.00168	4.9	<0.0015	<0.0015	
Copper D-Cu	<0.0050	<0.0050		<0.0020	<0.0020		<0.0020	<0.0020		<0.0050	<0.0050		<0.0010	<0.0010		<0.0050	<0.0050	
Iron D-Fe	13.8	13.8	0.0	47.3	47.5	0.4	<0.030	0.037		79.6	72.9	8.8	0.049	0.046	6.3	<0.030	<0.030	
Lead D-Pb	<0.0025	<0.0025		<0.0010	<0.0010		<0.0010	<0.0010		<0.0025	<0.0025		<0.00050	<0.00050		<0.0025	<0.0025	
Lithium D-Li	0.026	<0.025		0.069	0.068	1.5	<0.010	<0.010		<0.025	<0.025		0.0192	0.0231	18.4	<0.025	<0.025	
Magnesium D-Mg	77.1	77.5	0.5	64.2	64	0.3	24.9	24.8	0.4	55.2	54.7	0.9	8.72	8.62	1.2	165	169	2.4
Manganese D-Mn	18.6	17.7	5.0	1.6	1.59	0.6	0.943	0.943	0.0	27.6	26.9	2.6	0.664	0.722	8.4	<0.0015	<0.0015	
Mercury D-Hg	<0.000020	<0.000020		<0.000020	<0.000020		<0.000020	<0.000020		<0.000020	<0.000020		<0.000020	<0.000020		<0.000020	<0.000020	
Molybdenum D-Mo	<0.0050	<0.0050		<0.0020	<0.0020		<0.0020	<0.0020		<0.0050	<0.0050		<0.0010	<0.0010		<0.0050	<0.0050	
Nickel D-Ni	<0.0050	<0.0050		0.0198	0.0196	1.0	<0.0020	0.0021		0.0163	0.0159	2.5	0.0211	0.0243	14.1	<0.0050	<0.0050	
Potassium D-K	6.2	6.3	1.6	4.4	4.5	2.2	2.8	2.8	0.0	4.5	4.3	4.5	<2.0	<2.0		3.6	3.9	8.0
Selenium D-Se	<0.0050	<0.0050		<0.0020	<0.0020		<0.0020	<0.0020		<0.0050	<0.0050		<0.0010	<0.0010		<0.0050	<0.0050	
Silver D-Ag	<0.00010	<0.00010		<0.000040	<0.000040		<0.000040	<0.000040		<0.00010	<0.00010		<0.000020	<0.000020		<0.00010	<0.00010	
Sodium D-Na	41.8	43.1	3.1	14.5	14.8	2.0	9.7	9.5	2.1	63.4	62.3	1.8	5.1	5	2.0	9.8	10.8	9.7
Thallium D-Tl	<0.0010	<0.0010		<0.00040	<0.00040		<0.00040	<0.00040		<0.0010	<0.0010		<0.00020	<0.00020		<0.0010	<0.0010	
Tin D-Sn	<0.0025	<0.0025		<0.0010	<0.0010		<0.0010	<0.0010		<0.0025	<0.0025		<0.00050	<0.00050		<0.0025	<0.0025	
Titanium D-Ti	<0.010	<0.010		<0.010	<0.010		<0.010	<0.010		<0.010	<0.010		<0.010	<0.010		<0.010	<0.010	
Uranium D-U	0.0016	0.0016	0.0	<0.00040	<0.00040		0.0025	0.00248	0.8	0.0036	0.0036	0.0	<0.00020	<0.00020		0.0333	0.033	0.9
Vanadium D-V	<0.0050	<0.0050		<0.0020	<0.0020		<0.0020	<0.0020		<0.0050	<0.0050		<0.0010	<0.0010		<0.0050	<0.0050	
Zinc D-Zn	0.0065	0.0085	26.7	1.46	1.36	7.1	0.0053	0.0056	5.5	0.321	0.318	0.9	0.0264	0.0315	17.6	<0.0050	0.0143	

does not satisfy PQL, therefore RPD not useful

PQL satisfied

Appendix B. Summary of QA/QC Field Splits

November 2007 Sampling

ALS Report ID	L575954	L575954		L575954	L575954	
Date submitted	08-Nov-07	08-Nov-07		08-Nov-07	08-Nov-07	
Date of report	15-Dec-07	15-Dec-07		15-Dec-07	15-Dec-07	
RESULTS OF ANALYSIS						
	sample	split	RPD (%)	sample	split	RPD (%)
Sample ID	X24D-96	X24D-96-S		P03-04-04	P03-04-04-S	
Date Sampled	06-NOV-07	06-NOV-07		05-NOV-07	05-NOV-07	
ALS Sample ID	L575954-2	L575954-3		L575954-7	L575954-8	
Physical Tests						
Hardness CaCO3	2060	2150	4.3	525	538	2.4
Conductivity (uS/cm)	3220	3260	1.2	1260	1330	5.4
pH	7.38	7.36	0.3	7.93	7.91	0.3
Dissolved Anions						
Alkalinity-Total CaCO3	406	405	0.2	215	227	5.4
Sulphate SO4	1930	1970	2.1	464	511	9.6
Dissolved Metals						
Aluminum D-Al	<0.050	<0.050		<0.010	<0.010	
Antimony D-Sb	<0.0050	<0.0050		<0.0010	<0.0010	
Arsenic D-As	<0.0050	<0.0050		0.006	0.0059	1.7
Barium D-Ba	<0.020	<0.020		0.056	0.059	5.2
Beryllium D-Be	<0.010	<0.010		<0.0020	<0.0020	
Boron D-B	<0.10	<0.10		<0.10	<0.10	
Cadmium D-Cd	0.00284	0.00303	6.5	<0.000034	<0.000034	
Calcium D-Ca	593	629	5.9	169	172	1.8
Chromium D-Cr	<0.010	<0.010		<0.0020	<0.0020	
Cobalt D-Co	0.057	0.0589	3.3	0.00464	0.0045	3.1
Copper D-Cu	<0.010	<0.010		<0.0020	<0.0020	
Iron D-Fe	<0.030	<0.030		5.98	6	0.3
Lead D-Pb	<0.0050	<0.0050		<0.0010	<0.0010	
Lithium D-Li	<0.050	<0.050		<0.010	<0.010	
Magnesium D-Mg	140	141	0.7	25	26.2	4.7
Manganese D-Mn	53.2	55.3	3.9	6.06	6.02	0.7
Mercury D-Hg	<0.000050	<0.000050		<0.000050	<0.000050	
Molybdenum D-Mo	<0.010	<0.010		<0.0020	<0.0020	
Nickel D-Ni	0.213	0.22	3.2	0.0033	0.0034	3.0
Potassium D-K	7.7	7.9	2.6	3.2	3.3	3.1
Selenium D-Se	<0.010	<0.010		<0.0020	<0.0020	
Silver D-Ag	<0.00020	<0.00020		<0.000040	<0.000040	
Sodium D-Na	47.9	45.9	4.3	92.7	96.2	3.7
Thallium D-Tl	<0.0020	<0.0020		<0.00040	<0.00040	
Tin D-Sn	<0.0050	<0.0050		<0.0010	<0.0010	
Titanium D-Ti	0.011	0.013	16.7	<0.010	<0.010	
Uranium D-U	0.0053	0.0056	5.5	0.00242	0.00234	3.4
Vanadium D-V	<0.010	<0.010		<0.0020	<0.0020	
Zinc D-Zn	0.076	0.081	6.4	0.0062	0.01	46.9

Appendix C

Appendix C. Well Maintenance and Issue Memos



to: Memo to File
from: Jennifer Funston
date: January 17, 2008
ref: 70549
re: Status of BH7 S/D Wells

In 2006, an investigation of BH7 S/D wells was completed in September during the routine groundwater sampling event. It was found that BH7S had been subject to frost-jacking as identified through annual ground-staining rings on the outer surface of the PVC piping. BH7D well was found to be compromised with the top section of PVC piping detached from the remaining depth of well. These wells were therefore recommended to be decommissioned and no future monitoring conducted (GLL, 2007).

The routine groundwater event conducted in October 2007 allowed for an update of the condition of these wells to be completed. As expected, new evidence of frost-jacking was apparent on BH7S (Photo 1), as compared to marking identified on the well from the previous year. Frost-jacking is not apparent on BH7D as it is expected that the detached piece of PVC piping is allowing simultaneous movement with ground fluctuations. However, a marking of ground surface in May '07 was made on the well (Photo 2).

Frost-heaving within the localized area is apparent. This was also observed through measurements made on BH6 where approximately 1.8 cm of upward heave was noted in May '07 from the previous year (Photo 3). BH6 should be further monitored and investigated with a downhole camera to determine if the well has been damaged.

It is recommended that BH7 S/D wells be decommissioned, with additional information regarding their condition documented using a downhole camera prior to decommissioning.

JF:jf



Photograph 1. Evidence of frost-jacking at BH7S over winter 2006-2007.



Photograph 2. BH7D lacking annual rings as observed at BH7S.



Photograph 3. Ground surface (g.s.) representing September 2006 ground elevation at BH6.



to: Memo to File
from: Jennifer Funston
date: January 17, 2008
ref: 70549
re: Hydrocarbon Analysis at ETA-05-4

In September 2006, GLL field staff noted a distinct hydrocarbon smell in groundwater samples ETA-05-4 and P96-8A. As a follow-up measure, hydrocarbon samples were collected from both wells in October 2007 and shipped to ALS Environmental for analysis, along with the standard routine groundwater samples. The hydrocarbon analysis of P96-8A was overlooked however and analysis not conducted. It is therefore recommended that this well be again targeted for hydrocarbon sampling in 2008 with a note of attention placed on the COC as a reminder to the additional analysis requested. As such, this memo will detail results of the hydrocarbon analysis carried out for ETA-05-4.

The hydrocarbon sample was collected in two 500 mL glass amber sample bottles and two 40 mL glass vials preserved with copper sulphate. The samples were then shipped to ALS Environmental in Vancouver for analysis. Table 1. outlines the results of the analysis, where it is noted no accedence's of the Yukon Contaminated Sites Regulation (YCSR) were encountered.

It is recommended that this well continue as part of the routine event analysis with any changes to surface sheening and/or odour intensity documented.

JF:jf

Attach: Table 1.

Table 1. Hydrocarbon Analysis Results for Well ETA-05-4

Location	Standard	ETA05-04
Date		10-OCT-07
ALS ID	YCSR ^a	L566058-4
Non-Halogenated Volatiles		
Benzene	4	0.0115
Ethylbenzene	2	0.00244
Methyl t-butyl ether (MTBE)		<0.0010
Styrene		<0.00050
Toluene	0.39	0.0392
meta- & para-Xylene		0.00706
ortho-Xylene		0.00231
Xylenes		0.0094
Volatile Hydrocarbons (VH6-10)	15	0.11
VPH (C6-C10)	1.5	<0.10
Polycyclic Aromatic Hydrocarbons		
Acenaphthene	0.06	<0.00020
Acenaphthylene		<0.000050
Acridine	0.0005	<0.000050
Anthracene	0.001	<0.000050
Benz(a)anthracene	0.001	<0.000050
Benzo(a)pyrene	0.0001	<0.000010
Benzo(b)fluoranthene		<0.000050
Benzo(k)fluoranthene		<0.000050
Benzo(g,h,i)perylene		<0.000050
Chrysene	0.001	<0.000050
Dibenz(a,h)anthracene		<0.000050
Fluoranthene	0.002	<0.000050
Fluorene	0.12	0.000332
Indeno(1,2,3-c,d)pyrene		<0.000050
Naphthalene	0.01	<0.0010
Phenanthrene	0.003	0.000119
Pyrene	0.0002	<0.000050
Quinoline	0.034	<0.00010
Extractable Hydrocarbons		
EPH10-19	5	0.31
EPH19-32		<0.25
LEPH	0.5	0.31
HEPH		<0.25

Footnotes:

^a Yukon Contaminated Sites Regulation, Generic Numeric Water Standards Aquatic Life (2007)

Results are expressed as milligrams per liter

< = Less than the detection limit indicated.

VPH = Volatile Petroleum Hydrocarbons in water.

EPH = Extractable Petroleum Hydrocarbons

LEPH & HEPH = Light and Heavy Extractable Petroleum Hydrocarbons



Environmental Division

December 21, 2007

Gartner Lee Limited
2251-22nd Avenue
Whitehorse, Yukon
Y1A 5W1

ATTENTION: Mr. Martin Guilbeault

Dear Mr. Guilbeault

RE: Faro Mine Project

This letter is in response to the concerns raised by Gartner Lee with respect to ALS Environmental data reported over the last year for the Faro Mine Project (project # 60601).

The concerns and ALS Environmental responses are summarized below.

1. Detection limits were raised sporadically for Total Zinc (Zn), and other metals, and they were not always the lowest that could have been achieved. There are a several factors that can lead to an increased detection limit, most notably is sample dilution during analysis. Unfortunately during our switch over to our new Laboratory Information Management System (LIMS), we lost some important information and the ability to recognize these samples as samples that require a low level Zn detection limit of 0.005 mg/L for the pristine samples belonging to this project.

Now recognizing the special need for these samples, we will create a new "product group" for the Metals analysis to be requested when submitting these samples. This will enable the analyst to recognize these samples as samples with a special need and they will not increase the Zn detection limit unless there is a direct analytical interference with the Zn.

Additionally, if possible, ALS Environmental would like to request that Gartner Lee submit the highly contaminated samples within the Faro Mine Project on a separate Chain of Custody from the pristine water samples from the same project. This will reduce the likelihood of having to re-analyse some of the pristine water samples due to the potential for carryover contamination produced by the highly contaminated samples.

2. ALS Environmental incorrectly reported some Sulfate results for samples analysed in 2007 for the Faro Mine project. Specifically, for the three samples identified by Gartner Lee with imbalanced anions and cations and another four identified by ALS Environmental. When



the Sulfate results for the first three samples were questioned and the imbalanced ions were brought to our attention, we re-checked the data and identified that the bench level dilution factors were missed during the sulfate data calculations. Subsequently, ALS Environmental has carried out an ion balance for all samples submitted for this project in the year 2007 and identified seven other samples with imbalanced anions and cations. Of these seven samples, four had incorrect sulfate results reported, two had had their metals results flipped (due to a labeling error) and for the last one no identifiable error could be identified. In all of these instances, except the last, the data was corrected and the reports were re-issued.

Unfortunately, these samples were analyzed for only one major anion (i.e. sulfate) and as a result an ion balance could not be automatically preformed. To address and resolve this issue, ALS Environmental will manually calculate the ion balance on all future submissions and provide Gartner Lee with the ion balance reports in an e-mail to the applicable Gartner Lee Project Manager.

Further more, a Corrective Action Report (CAR) has been initiated for the errors in reporting and these are the actions ALS Environmental is taking to prevent these kinds of errors occurring in the future:

- Peer review for all bench level dilution factors being manually transferred into the database (i.e. LIMS).
- Revised work sheets that will include a designated space for bench level dilution factors.
- Improving the Sulfate method to reduce the number of the bench level dilutions required.

With all these steps taken we would like to ensure you that these issues have been resolved. We apologize for the inconvenience our errors and omissions have caused, and we look forward to providing the quality of service you expect from us.

We value your business and appreciate you bringing these issues to our attention.

Should you have any questions, please do not hesitate to contact any of our staff members.

Yours sincerely,

Natasha Markovic-Mirovic
Account Manager

Blair Easton
Laboratory Manager



to: Memo to File
from: Jennifer Funston
date: January 11, 2008
ref: 70549
re: Status of P01-04 A/B Wells

In 2006 it was suspected that samples collected from wells P01-04 A/B were switched with one another. The findings were flagged in the database, with original chemistry entered left unchanged to avoid future confusion. In 2007, this was confirmed through the analysis of sulphate values recorded at these wells since 2001 through 2007 (Table 1.)

Table 1. P01-04 A/B Sulphate Values; 2001-2007

Station	Date	SO4-D (mg/L)	Station	Date	SO4-D (mg/L)
P01-04A	10-Sep-01	331	P01-04B	10-Sep-01	30
P01-04A	12-Jun-02	377	P01-04B	12-Jun-02	46
P01-04A	27-Sep-02	338	P01-04B	24-Sep-02	44
P01-04A	06-Jun-03	191	P01-04B	03-Jun-03	50
P01-04A	23-Sep-03	399	P01-04B	23-Sep-03	43
P01-04A	30-Sep-04	460	P01-04B	30-Sep-04	26.7
P01-04A	21-Jul-05	31.8	P01-04B	21-Jul-05	494
P01-04A	10-Sep-05	26	P01-04B	10-Sep-05	463
P01-04A	21-Sep-06	34	P01-04B	21-Sep-06	555
P01-04A	31-May-07	34.3	P01-04B	31-May-07	613
P01-04A	04-Oct-07	31.2	P01-04B	04-Oct-07	543

The table above shows a substantial decrease in sulphate values beginning in 2005 at well P01-04A and a substantial increase in sulphate values at P01-04B wells also in 2005. It can then be assumed that the well ID's at this location became switched either during the close of the 2004 or beginning of the 2005 sampling season.

It is therefore recommended that the labelling of these wells be further investigated prior to their sampling in 2008. This can be done by comparing the measured depth to bottom of the wells with their corresponding construction details. The total depth to bottom of the wells are as follows: P01-04A = 34.56 mbTOC (metres below top of casing) and P01-04B = 53.91 mbTOC. The wells should be re-labelled as appropriate with a follow-up analysis completed of the sulphate values for each well.



to: Memo to File
from: Jennifer Funston
date: August 14, 2007
ref: 70549
re: Faro Spring Routine Sampling

The spring routine groundwater sampling event at the Faro Mine site was conducted by Kai Woloshyn, Marcia Wilson (Burnaby office), Jonathan Kerr, Eric Cleveland and Jennifer Funston. Work on-site was conducted from May 28th through June 3rd, 2007. As a result of limited resources and busy schedules, Eric relieved Jonathan halfway through the sampling period. Eric and Marcia returned to Whitehorse the morning of June 2nd, while Kai and Jen returned to the mine to conduct maintenance activities and collect surface water samples for the "Town of Faro Water Wells" project, returning to Whitehorse June 3rd. Gartner Lee staff resided at the mine guesthouse for the duration of their stay. Two ATV's were rented for the week from MacPherson Rentals in Whitehorse.

Conditions at Site

The weather in Faro was generally dry with temperatures averaging approximately 18°C through the duration of the week. The tailings were mainly dry and easily accessible by truck. Some wells were found to be frozen which are identified under "Field Site and Sampling Issues".

Conventional and Multilevel Wells

A list of conventional and multilevel wells, as well as their corresponding field measurements can be found in Tables 1 and 2 respectively. Water analysis was completed by ALS Laboratories in Vancouver, for general chemistry (500 mL) and dissolved metals (150 mL).

QA/QC Samples

Split samples were collected at approximately 10% of the sampling locations. QA/QC samples are summarized in Table 3.

Field Site and Sampling Issues

Conventional Wells

BH05-01	dry
BH13B	dry
BH6	evidence of new frost jacking (1.8 cm)
DP6	drive point may be clogged, no sample collected; review installation notes
P01-02B	riser pipe not present
P01-11	cut 73 cm off riser pipe to bring flush to casing



P01-51 total depth is 63 m btoc
P2001-02A jk tool needed to retrieve tubing down well
S3 new stickup 1.12 m as of September 2006
SRK05-06 replace sample tubing
SRK05-SP-6 dry

Multilevel Wells

P03-04-09 did not recharge after sampling of dissolved metals; no general chemistry sample
P03-05 many points of resistance encountered while feeding sample tubing down wells
P03-06-06 insufficient volume for collection of general chemistry sample
P03-06-07 dry
P03-07 collected water levels from all wells however most wells were constricted between 7-8 m btoc not allowing sample tubing past and thus unable to collect a sample (P03-07-05 only well able to be sampled; P03-07-08 contained insufficient volume to push water up and out sample tubing)

Frozen Wells

Conventional wells which were found to be frozen during the June sampling event included the following wells: ETA05-4, P01-02A, P01-03, P05-02, P96-8A/B, X24A/D-96, BH4, BH12A/B (seep glacier), BH13, SRK04-5 (seep glacier), SRK05-05C.

Multilevel well P05-01 (points 1 through 5) was frozen during the June sampling event. P05-01-06 was the only point open and able to be sampled.

June 2007 Well Maintenance Activities

The following well maintenance activities were performed in June:

- P03-02-06 was capped and labelled not to be sampled due to degassing of well
- P03-03-07 was capped and labelled not to be sampled due to degassing of well
- Area around P03-09 was cleared
- Trail leading to X18A/B was cleared and flagged; wells were covered with sampling glove and secured with electrical tape
- Trail leading to X17A/B was cleared and well flagged

JF:jf

Table 1. Wells Sampled in June 2007

Monitor	Date Collected	Time of Sampling	Water Level From Top of Casing (m)	Total Purge Volume (L)	pH	Conductivity (µS/cm)	Temperature (°C)	Sample Notes	Samplers
BH05-9B-R	05/29/2007	16:30	0.000	170.0	8.02	603	3.2	artesian leaking out of PVC slits into protective steel casing; dry @ 170 L	kw, jk
BH1	05/28/2007	12:56	3.350	2.0	6.13	359	3.6	ice on tubing, dry twice, sampled on third dry, manual	jf, mw
BH14A	05/28/2007	14:50	3.948	14.0	7.04	3490	1.0	replaced wattera tubing; cold water compared to "B" well	kw, jk
BH14B	05/28/2007	14:50	4.545	18.0	7.22	3430	4.6	replaced tubing	kw, jk
BH2	05/28/2007	13:45	4.720	9.0	6.47	373	4.0	good recharge, turbid, brown, manual purge	jf, mw
BH6	05/28/2007	11:07	3.235	38.0	6.13	582	5.5	1.8 cm of frost jacking, good yield, slightly cloudy brwn	jf, mw
DP4	05/29/2007	10:40	1.930	1.50	7.82	72	3.0	length of tube sticking above casing = 45 cm	kw, jk
P01-01A	05/30/2007	14:02	3.720	180.0	7.15	1485	2.5	manual	kw, jk
P01-01B	05/30/2007	14:06	3.786	300.0	7.36	1106	2.6	honda	kw, jk
P01-02B	05/30/2007	17:00	0.634	300.0	7.75	520	3.8	riser pipe not present	kw, jk
P01-04A	05/31/2007	12:56	1.685	350.0	6.61	1020	3.3	sulfur smell, hydrolift/honda, 25 m new tubing and foot-valve installed	kw, ec
P01-04B	05/31/2007	12:42	2.143	500.0	7.17	1448	3.1	honda pump and no assist	kw, ec
P01-11	05/30/2007	16:12	0.890	110.0	7.08	2170	3.8	honda pump no assist, light brown water	kw, jk
P03-01-01	06/01/2007	14:20	5.75	6.0	6.82	426	5.3	clear, good yield	jf, ec
P03-01-02	06/01/2007	14:17	5.80	5.0	6.43	356	5.4	clear, good yield	jf, ec
P03-01-03	06/01/2007	14:41	5.85	4.0	6.84	271	5.9	clear, good yield	jf, ec
P03-01-04	06/01/2007	14:36	5.89	3.0	6.68	573	5.4	clear, good yield	jf, ec
P03-01-05	06/01/2007	15:00	5.92	2.0	6.37	606	6.1	clear, good yield	jf, ec
P03-01-06	06/01/2007	14:54	5.93	2.0	6.26	1038	4.7	clear, good yield	jf, ec
P03-01-07	06/01/2007	15:18	5.97	1.0	6.13	9110	7.6	light grey, poor yield, sulphur odour	jf, ec
P03-01-08	06/01/2007	15:12	5.99	0.5	5.25	25000	6.0	light grey, poor yield	jf, ec
P03-01-09	06/01/2007	15:26	6.13	0.3	3.45	33300	7.3	medium grey, poor yield	jf, ec
P03-02-01	06/01/2007	10:45	5.87	5.0	7.10	351	4.5	clear, good yield	jf, ec
P03-02-02	06/01/2007	10:50	5.87	5.0	7.01	283	4.4	clear, good yield	jf, ec
P03-02-03	06/01/2007	11:06	5.92	3.0	6.78	269	4.8	clear to light brown @ approx 4L, good yield	jf, ec
P03-02-04	06/01/2007	11:17	5.94	2.5	6.25	408	5.8	clear, good yield	jf, ec
P03-02-05	06/01/2007	11:26	6.05	1.5	6.38	7960	5.7	light grey; odour present; moderate yield	jf, ec
P03-02-07	06/01/2007	11:38	5.88	1.0	6.11	12290	8.1	light grey (transparent), purged dry with slow recharge	jf, ec
P03-02-08	06/01/2007	11:55	5.87	0.5	4.20	19020	8.3	medium grey (trans), poor yield	jf, ec
P03-02-09	06/01/2007	12:05	5.89	0.5	3.71	22000	8.6	medium grey (trans), poor yield	jf, ec
P03-03-01	05/31/2007	16:20	7.055	6.0	6.44	485	4.3	good yield, clear, extra litres purged to confirm field chemistry, chem stable	jf, mw
P03-03-02	05/31/2007	16:36	7.114	5.0	4.79	1013	4.8	good yield, clear, extra litres purged to confirm field chemistry, chem stable	jf, mw
P03-03-03	05/31/2007	16:45	7.146	3.0	5.82	466	4.6	clear, good yield	jf, mw
P03-03-04	05/31/2007	16:56	7.180	3.0	5.76	684	4.0	clear, good yield	jf, mw
P03-03-05	05/31/2007	17:05	7.197	2.0	6.28	920	4.5	clear, good yield	jf, mw
P03-03-06	05/31/2007	17:15	7.216	2.0	6.45	1884	4.8	clear, good yield	jf, mw
P03-03-08	05/31/2007	17:28	7.320	0.2	5.59	2200	6.5	used purge water to get field chem readings, light grey (trans) to black @ 0.2 L	jf, mw
P03-03-09	05/31/2007	17:42	7.258	0.2	5.37	2290	9.2	used purge water to get field chem readings, black, opaque, 1-2 mm of tailings on filter	jf, mw
P03-04-01	05/30/2007	10:45	12.402	6.0	7.12	1987	6.3	clear, good yield	jf, mw
P03-04-02	05/30/2007	11:16	12.470	4.0	6.39	1661	7.8	slightly cloudy, low yield	jf, mw
P03-04-03	05/30/2007	11:40	12.350	4.0	6.27	1463	5.3	clear, moderate yield	jf, mw
P03-04-04	05/30/2007	11:47	12.820	3.0	7.12	1212	7.3	yellow, moderate yield	jf, mw
P03-04-05	05/30/2007	12:08	12.850	2.0	6.68	1669	5.6	greyish-brown, good yield	jf, mw
P03-04-06	05/30/2007	12:15	12.844	1.5	6.36	5590	5.7	clear, good yield	jf, mw
P03-04-07	05/30/2007	12:31	12.868	0.5	6.36	5490	6.2	yellow, good yield	jf, mw
P03-04-08	05/30/2007	12:50	12.925	0.5	5.74	7890	6.6	grey, slightly translucent, purged dry, recharge okay, moderate yield	jf, mw

Table 1. Wells Sampled in June 2007

Monitor	Date Collected	Time of Sampling	Water Level From Top of Casing (m)	Total Purge Volume (L)	pH	Conductivity (µS/cm)	Temperature (°C)	Sample Notes	Samplers
P03-04-09	05/30/2007	13:03	12.953	0.1	3.26	5760	10.5	dry x3, only ~100 mL yield, no recharge, dark grey/opaque, no gen chem sample	jf, mw
P03-05-01	05/31/2007	11:30	8.620	5.0	6.84	1669	5.2	clear, good yield	jf, mw
P03-05-02	05/31/2007	11:19	8.610	4.0	6.70	989	5.7	clear, good yield, blockage @ ~11m, could not get tubing past however into water column so able to sample	jf, mw
P03-05-03	05/31/2007	11:49	8.672	3.0	6.91	903	6.2	clear, good yield	jf, mw
P03-05-04	05/31/2007	11:44	8.820	2.0	7.00	904	5.1	clear, good yield	jf, mw
P03-05-05	05/31/2007	12:09	8.855	2.0	6.76	1610	5.8	clear, good yield	jf, mw
P03-05-06	05/31/2007	12:26	8.753	2.0	7.05	3990	6.5	mainly clear with v. slight grey tinge, moderate yield	jf, mw
P03-05-07	05/31/2007	12:40	8.805	1.2	6.09	7340	9.0	clear, moderate to poor yield	jf, mw
P03-05-08	05/31/2007	12:48	8.690	0.7	6.05	6580	8.8	medium grey, good yield	jf, mw
P03-06-01	05/30/2007	16:05	12.457	2.0	6.09	2740	5.6	clear, good yield	jf, mw
P03-06-02	05/30/2007	15:55	12.493	2.0	6.38	2140	7.5	yellowish tinge, good yield, v. high cond (double checked with calibration solution / ok), rechecked cond after sample; still in same general area	jf, mw
P03-06-03	05/30/2007	16:30	12.510	1.5	6.33	2780	6.5	slight grey tinge, good yield	jf, mw
P03-06-04	05/30/2007	16:23	12.550	1.0	6.70	1656	5.7	clear, good yield	jf, mw
P03-06-05	05/30/2007	16:30	12.573	0.5	6.56	4160	5.5	dark grey, good yield	jf, mw
P03-06-06	05/30/2007	16:45	12.560	0.2	6.09	7720	11.8	purged dry x2, recharge ok to poor, insufficient vol for gen chem sample	jf, mw
P03-07-05	06/01/2007	17:15	13.280	1.0	6.79	1366	6.0	open / able to sample	jf, ec
P03-08-01	05/29/2007	15:05	8.508	4.0	7.45	569	6.0	clear, good yield	jf, mw
P03-08-02	05/29/2007	14:55	8.525	3.0	7.17	720	6.3	clear, good yield	jf, mw
P03-08-03	05/29/2007	15:20	8.367	2.5	7.28	732	5.3	clear	jf, mw
P03-08-04	05/29/2007	15:30	8.380	2.0	7.16	1131	9.1	cloudy to dark grey	jf, mw
P03-08-05	05/29/2007	16:15	8.218	1.0	7.26	2380	8.4	purged dry twice	jf, mw
P03-08-06	05/29/2007	16:00	7.925	1.6	7.15	2240	7.2	dark grey, recharge okay	jf, mw
P03-08-07	05/29/2007	16:30	6.270	1.2	7.37	1364	8.4	dark grey, purged dry x3	jf, mw
P03-08-08	05/29/2007	16:55	6.175	0.8	7.41	506	7.3	light grey, purged dry x3	jf, mw
P03-09-01	05/29/2007	11:18	2.540	5.0	7.04	1369	5.5	clear, moderate yield	jf, mw
P03-09-02	05/29/2007	11:27	2.915	5.0	7.10	1325	6.8	clear, good yield	jf, mw
P03-09-03	05/29/2007	11:34	3.040	3.5	7.15	1149	4.7	clear, good yield	jf, mw
P03-09-04	05/29/2007	11:54	3.330	3.5	7.19	1138	5.3	clear, good yield	jf, mw
P03-09-05	05/29/2007	12:12	3.388	3.5	7.15	1135	4.5	clear, good yield	jf, mw
P03-09-06	05/29/2007	12:10	3.415	2.5	7.09	1274	5.0	clear, good yield	jf, mw
P03-09-07	05/29/2007	12:25	3.570	2.0	7.10	1326	4.8	clear, good yield	jf, mw
P03-09-08	05/29/2007	12:30	3.641	1.0	7.42	1311	6.6	clear, moderate yield	jf, mw
P03-09-09	05/29/2007	12:38	3.945	1.2	7.16	1313	5.4	very cloudy, good yield	jf, mw
P05-01-06	05/29/2007	9:46	2.353	1.0	6.88	2150	4.9	only well unfrozen in June	jf, mw
P05-03	05/30/2007	17:30	4.620	45.0	7.23	1363	3.2	honda pump plus assist, clear water	kw, jk
P05-04	05/28/2007	11:35	2.970	44.0	6.11	376	5.2	manual purge, cloudy, light brown	jf, mw
P2001-02A	05/29/2007	15:35	5.110	28.0	7.42	1211	3.1	dry @ 21L and 7L; tube needs to be retrieved with JK tool; honda plus assist	kw, jk
P2001-02B	05/29/2007	16:02	5.140	48.0	7.42	1118	3.2	dry @ 48L and 50L; honda plus assist; wait to recover then sampled	kw,jk
P2001-03	05/29/2007	11:08	38.360	165.0	7.53	922	3.0	hydrolift plus honda; pumped @ 1.5 L/min from 9:37 to 11:07	kw, jk
P96-6	05/28/2007	12:40	9.594	90.0	6.22	1145	4.1	sandy brown water; stick-up broken (can be removed) but unfixable in casing	kw, jk
P96-7	05/29/2007	11:50	8.922	3.0	7.21	2530	2.5	dry @ 2L and 3L, replaced tubing, brown and turbid	kw, jk
P96-9A	05/29/2007	10:10	5.411	60.0	6.82	2720	0.8	honda pump plus assist; fuel left out by pump for seeps --bear hazard, Dana informed of this via daily act. Log	kw, jk
S1A	05/28/2007	18:00	3.938	32.0	6.93	1738	3.6	dry @ 2L	kw, jk
S1B	05/28/2007	18:00	4.174	100.0	6.42	6430	2.0		kw, jk
S2A	05/28/2007	16:50	4.543	21.0	6.49	5200	3.2	dry @ 8L and 11L, brown turbid	kw, jk

Table 1. Wells Sampled in June 2007

Monitor	Date Collected	Time of Sampling	Water Level From Top of Casing (m)	Total Purge Volume (L)	pH	Conductivity (µS/cm)	Temperature (°C)	Sample Notes	Samplers
S2B	05/28/2007	17:00	4.710	12.0	6.59	6020	3.0	dry @ 7L and 10L, orangey brown FeOH solid	kw, jk
S3	05/29/2007	10:55	2.024	45.0	6.01	5960	1.2	honda pump no assist, brown turbid	kw, jk
SRK04-3A	05/31/2007	17:30	7.095	55.0	5.72	6260	2.2	honda pump plus assist, clear water	kw, ec
SRK04-3B	05/31/2007	17:50	7.118	4.0	5.77	8150	4.7	manual, dry @ 2L	kw, ec
SRK05-06	05/30/2007	11:52	1.270	3.0	7.67	1142	2.3	small ice layer; able to remove and let well equilibrate for approx 30 min before sampling; dry @ 2L and 3L; trail well flagged; replace tubing in September	kw, jk
SRK05-07	05/30/2007	10:55	6.158	1.5				dry @ 1L and 1.5L; grey turbid water; most likely mud/bentonite; replaced ~7m tubing; insufficient volume for field chemistry	kw, jk
SRK05-08	05/30/2007	10:45	5.669	19.0	7.09	1779	2.9	dry @ 14L and 5L; manual purge; brown and turbid	kw, jk
SRK05-09	05/30/2007	11:47	1.179	9.0	7.67	1010	0.9	dry @ 4.5L and 9L; brown turbid, trace sand and fine sand; tubing found in tree with waterra foot-valve; replace tubing next trip; garbage left at site by past consultant; 1" well	kw, jk
SRK05-ETA-BR1	05/31/2007	16:45	7.956	55.0	5.58	6050	3.4	honda pump plus assist, brown turbid	kw, ec
SRK05-ETA-BR2	06/01/2007	10:30	5.936	-	6.96	2020	3.6	1" well; honda pump and assist	kw, mw
SRK05-SP-1A	05/29/2007	9:15	6.685	135.0	5.69	1289	1.6	honda pump plus assist	kw, jk
SRK05-SP-1B	05/29/2007	9:40	6.915	65.0	6.10	1055	1.2	honda pump no assist	kw, jk
SRK05-SP-2	05/29/2007	10:00	1.710	110.0	6.52	320	1.6	honda pump no assist, clear	kw, jk
SRK05-SP-3A	05/28/2007	17:49	4.450	213.0	6.01	1048	3.8	clear to cloudy, honda plus assist, good yield	jf, mw
SRK05-SP-3B	05/28/2007	17:28	3.520	105.0	5.97	957	4.6	clear, good yield, manual purge	jf, mw
SRK05-SP-4A	05/28/2007	16:56	3.890	203.0	6.06	965	4.8	water turned rusty colour @ approx 110L for ~5L then cleared, honda pump	jf, mw
SRK05-SP-4B	05/28/2007	16:32	1.780	35.0	6.06	5080	4.0	manual purge, orangey-brown, good yield	jf, mw
SRK05-SP-5	05/28/2007	16:45	6.090	90.0	6.21	6580	2.5	honda pump with no assist	kw
TH86-17	06/01/2007	11:50	8.170	75.0	7.40	213	1.9	honda pump, no assist; light grey water changing to dark grey to black @ ~78L (both colours having similar physical parameters), changing back to light grey @ 80L; foot-valve hit bottom briefly, pumping agitation	kw, mw
V34	05/29/2007	14:02	6.520	17.0	7.51	962	3.2	dry @ 12L and 26L	kw, jk
V35	05/29/2007	14:25	9.160	16.0	7.13	3310	3.0	honda pump; dry @ 13L and 29L	kw, jk
V36	05/29/2007	14:20	9.989	8.0	7.26	1710	2.6	dry @ 3L and 7L; manual purge	kw, jk
V37	06/03/2007	13:22	9.275	14.0	7.80	750	3.1	manual purge; dry @ 10L and 14L; clear	kw, jf
X16A	05/31/2007	14:30	3.422	38.0	7.60	303	2.3	manual, clear	kw, mw, ec
X16B	05/31/2007	14:51	3.543	350.0	7.68	399	3.0	honda pump, no assist, clear	kw, mw, ec
X17A	05/30/2007	14:42	2.280	55.0	7.58	574	2.2	manual	kw, jk
X17B	05/30/2007	14:56	2.823	240.0	7.21	852	3.0	honda pump, no assist	kw, jk
X18A	05/30/2007	15:48	4.501	31.0	7.17	1430	3.4	P1=23L (dry), P2=8L, clear, manual	kw, jk
X18B	05/30/2007	15:45	-	150.0	7.05	1435	3.2	clear, honda pump, no assist; not possible to get wL reading due to a layer of ice	kw, jk
X21A-96	06/01/2007	14:30	5.293	25.0	5.89	15380	2.1	manual pump, dark grey water, checked cond with EC test strip	kw, mw
X21B-96	06/01/2007	14:40	5.265	90.0	6.87	1692	3.0	honda pump	kw, mw
X21C-96	06/01/2007	14:55	5.300	275.0	7.17	351	3.1	honda pump and assist	kw, mw
X25A-96	05/31/2007	11:21	3.470	65.0	7.13	961	3.4	manual purge, clear	kw, ec
X25B-96	05/31/2007	11:15	2.957	180.0	7.27	1075	3.3	honda pump no assist, clear	kw, ec

Table 2. Summary of Quality Control Samples, June 2007

Monitor	Date Collected	Time of Sampling	Time of Water Level	Water Level From Top of Casing (m btoc)	Total Purge Volume (L)	pH	Conductivity ($\mu\text{S/cm}$)	Temperature ($^{\circ}\text{C}$)	Samplers	Sample Type
P03-01-03	06/01/2007	14:41	13:52	5.85	4.0	6.84	271	5.9	jf, ec	split sample
P03-02-05	06/01/2007	11:26	10:12	6.05	1.5	6.38	7960	5.7	jf, ec	split sample
P03-03-04	05/31/2007	16:56	15:55	7.180	3.0	5.76	684	4.0	jf, mw	split sample
P03-04-03	05/30/2007	11:40	9:23	12.350	4.0	6.27	1463	5.3	jf, mw	split sample
P03-05-06	05/31/2007	12:26	10:39	8.753	2.0	7.05	3990	6.5	jf, mw	split sample
P03-06-04	05/30/2007	16:23	14:33	12.550	1.0	6.70	1656	5.7	jf, mw	split sample
P03-08-01	05/29/2007	15:05	14:02	8.508	4.0	7.45	569	6.0	jf, mw	split sample
P2001-03	05/29/2007	11:08	14:32	38.360	165.0	7.53	922	3.0	kw, jk	split sample
SRK05-SP-1B	05/29/2007	9:40	8:45	6.915	65.0	6.10	1055	1.2	kw, jk	split sample
SRK05-SP-4A	05/28/2007	16:56	16:11	3.890	203.0	6.06	965	4.8	jf, mw	split sample
X21C-96	06/01/2007	14:55	13:32	5.300	275.0	7.17	351	3.1	kw, mw	split sample

Table 3. Summary of Water Levels Collected in June 2007

Monitor	Date of Water Level	Time of Water Level	Water Level (m btoc)
BH05-01	05/28/2007		dry
BH05-9B-R	05/29/2007	16:50	0.000
BH1	05/28/2007	12:45	3.350
BH12A	05/28/2007		frozen
BH12B	05/28/2007		frozen
BH13A	05/28/2007		frozen
BH13B	05/28/2007		dry
BH14A	05/28/2007	13:50	3.948
BH14B	05/28/2007	13:50	4.545
BH2	05/28/2007	13:29	4.720
BH4	05/28/2007		frozen
BH6	05/28/2007	10:41	3.235
DP4	05/29/2007	10:15	1.930
DP6	05/29/2007		0.108
ETA-05-4	05/31/2007		frozen
P01-01A	05/30/2007	12:30	3.720
P01-01B	05/30/2007	12:32	3.786
P01-02A	05/30/2007		frozen
P01-02B	05/30/2007	16:30	0.634
P01-03	05/31/2007		frozen
P01-04A	05/31/2007	11:31	1.685
P01-04B	05/31/2007	11:30	2.143
P01-11	05/30/2007	16:03	0.890
P03-01-01	06/01/2007	13:50	5.75
P03-01-02	06/01/2007	13:51	5.80
P03-01-03	06/01/2007	13:52	5.85
P03-01-04	06/01/2007	13:53	5.89
P03-01-05	06/01/2007	13:55	5.92
P03-01-06	06/01/2007	13:56	5.93
P03-01-07	06/01/2007	13:57	5.97
P03-01-08	06/01/2007	13:57	5.99
P03-01-09	06/01/2007	13:58	6.13
P03-02-01	06/01/2007	10:08	5.87
P03-02-02	06/01/2007	10:09	5.87
P03-02-03	06/01/2007	10:10	5.92
P03-02-04	06/01/2007	10:11	5.94
P03-02-05	06/01/2007	10:12	6.05
P03-02-07	06/01/2007	10:14	5.88
P03-02-08	06/01/2007	10:15	5.87
P03-02-09	06/01/2007	10:16	5.89
P03-03-01	05/31/2007	15:51	7.055
P03-03-02	05/31/2007	15:52	7.114
P03-03-03	05/31/2007	15:53	7.146
P03-03-04	05/31/2007	15:55	7.180
P03-03-05	05/31/2007	15:56	7.197
P03-03-06	05/31/2007	15:57	7.216
P03-03-08	05/31/2007	15:58	7.320
P03-03-09	05/31/2007	16:00	7.258
P03-04-01	05/30/2007	9:21	12.402
P03-04-02	05/30/2007	9:22	12.470
P03-04-03	05/30/2007	9:23	12.350
P03-04-04	05/30/2007	9:24	12.820
P03-04-05	05/30/2007	9:25	12.850

Table 3. Summary of Water Levels Collected in June 2007

Monitor	Date of Water Level	Time of Water Level	Water Level (m btoc)
P03-04-06	05/30/2007	9:26	12.844
P03-04-07	05/30/2007	9:27	12.868
P03-04-08	05/30/2007	9:28	12.925
P03-04-09	05/30/2007	9:29	12.953
P03-05-01	05/31/2007	10:33	8.620
P03-05-02	05/31/2007	10:34	8.610
P03-05-03	05/31/2007	10:35	8.672
P03-05-04	05/31/2007	10:36	8.820
P03-05-05	05/31/2007	10:37	8.855
P03-05-06	05/31/2007	10:39	8.753
P03-05-07	05/31/2007	10:40	8.805
P03-05-08	05/31/2007	10:41	8.690
P03-06-01	05/30/2007	14:29	12.457
P03-06-02	05/30/2007	14:28	12.493
P03-06-03	05/30/2007	14:30	12.510
P03-06-04	05/30/2007	14:32	12.550
P03-06-05	05/30/2007	14:34	12.573
P03-06-06	05/30/2007	14:35	12.560
P03-06-07	05/30/2007		dry
P03-07-01	06/01/2007	16:04	13.152
P03-07-02	06/01/2007	16:06	13.235
P03-07-03	06/01/2007	16:07	13.265
P03-07-04	06/01/2007	16:08	13.278
P03-07-05	06/01/2007	16:09	13.280
P03-07-06	06/01/2007	16:10	13.225
P03-07-07	06/01/2007	16:11	13.320
P03-07-08	06/01/2007	16:12	13.076
P03-08-01	05/29/2007	14:02	8.508
P03-08-02	05/29/2007	14:03	8.525
P03-08-03	05/29/2007	14:05	8.367
P03-08-04	05/29/2007	14:06	8.380
P03-08-05	05/29/2007	14:08	8.218
P03-08-06	05/29/2007	14:09	7.925
P03-08-07	05/29/2007	14:11	6.270
P03-08-08	05/29/2007	14:12	6.175
P03-09-01	05/29/2007	10:01	2.540
P03-09-02	05/29/2007	10:02	2.915
P03-09-03	05/29/2007	10:03	3.040
P03-09-04	05/29/2007	10:04	3.330
P03-09-05	05/29/2007	10:06	3.388
P03-09-06	05/29/2007	10:07	3.415
P03-09-07	05/29/2007	10:07	3.570
P03-09-08	05/29/2007	10:08	3.641
P03-09-09	05/29/2007	10:09	3.945
P05-01-01	05/29/2007	9:04	frozen
P05-01-02	05/29/2007	9:06	frozen
P05-01-03	05/29/2007	9:07	frozen
P05-01-04	05/29/2007	9:08	frozen
P05-01-05	05/29/2007	9:09	frozen
P05-01-06	05/29/2007	9:10	2.353
P05-02	05/31/2007		frozen
P05-03	05/30/2007	17:11	4.620
P05-04	05/28/2007	11:15	2.970

Table 3. Summary of Water Levels Collected in June 2007

Monitor	Date of Water Level	Time of Water Level	Water Level (m btoc)
P2001-02A	05/29/2007	15:15	5.110
P2001-02B	05/29/2007	15:16	5.140
P2001-03	05/29/2007	14:32	38.360
P96-6	05/28/2007	12:15	9.594
P96-7	05/29/2007	11:22	8.922
P96-8A	06/01/2007		frozen
P96-8B	06/01/2007		frozen
P96-9A	05/29/2007	16:55	5.411
S1A	05/28/2007	17:10	3.938
S1B	05/28/2007	17:12	4.174
S2A	05/28/2007	14:36	4.543
S2B	05/28/2007	14:38	4.710
S3	05/29/2007	10:15	2.024
SRK04-3A	05/31/2007	17:10	7.095
SRK04-3B	05/31/2007	17:07	7.118
SRK04-5A	05/29/2007		frozen
SRK05-05C	05/29/2007		frozen
SRK05-06	05/30/2007	11:40	1.270
SRK05-07	05/30/2007	10:17	6.158
SRK05-08	05/30/2007	10:30	5.669
SRK05-09	05/30/2007	11:35	1.179
SRK05-ETA-BR1	05/31/2007	16:17	7.956
SRK05-ETA-BR2	06/01/2007	9:58	5.936
SRK05-SP-1A	05/29/2007	8:45	6.685
SRK05-SP-1B	05/29/2007	8:45	6.915
SRK05-SP-2	05/29/2007	9:45	1.710
SRK05-SP-3A	05/28/2007	16:49	4.450
SRK05-SP-3B	05/28/2007	16:50	3.520
SRK05-SP-4A	05/28/2007	16:11	3.890
SRK05-SP-4B	05/28/2007	16:11	1.780
SRK05-SP-5	05/28/2007	16:15	6.090
SRK05-SP-6	05/28/2007		dry
TH86-17	06/01/2007	11:22	8.170
V34	05/29/2007	13:50	6.520
V35	05/29/2007	14:13	9.160
V36	05/29/2007	14:10	9.989
V37	06/03/2007	13:03	9.275
X16A	05/31/2007	13:56	3.422
X16B	05/31/2007	14:01	3.543
X17A	05/30/2007	14:24	2.280
X17B	05/30/2007	14:22	2.823
X18A	05/30/2007	13:21	4.501
X18B	05/30/2007	13:23	ice layer
X21A-96	06/01/2007	13:40	5.293
X21B-96	06/01/2007	13:33	5.265
X21C-96	06/01/2007	13:32	5.300
X24A-96	05/31/2007		frozen
X24D-96	05/31/2007		frozen
X25A-96	05/31/2007	10:48	3.470
X25B-96	05/31/2007	10:50	2.957



to: Memo to File
from: Jennifer Funston
date: August 14, 2007
ref: 70546
re: Faro Summer AMP Sampling

The August Adaptive Management Plan (AMP) sampling event was completed by Jennifer Funston and Kirby Nelson of Gartner Lee Limited, with sampling conducted on August 1st and 2nd, 2007. All wells that are part of the AMP sampling regime were sampled. Details concerning conventional and multilevel wells sampled during the August event can be found in Table 1.

Conditions at Site

The weather in Faro was warm and mainly sunny during the August sampling period. Daytime high temperatures reached approximately 20°C. The tailings were dry and all wells easily accessible by truck.

AMP Sampling

The following wells were sampled as part of the AMP summer sampling event:

- P03-04-02, P03-04-04, P03-04-06
- P03-08-02, P03-08-03, P03-08-04, P03-08-05
- P03-09-02, P03-09-04, P03-09-06, P03-09-07, P03-09-09
- X24A-96, X24D-96
- X25A, X25B

Quality Assessment and Quality Control (QAQC)

Split samples were collected for approximately 10% of the samples in order to ensure QAQC, as outlined in Table 2. Splits were collected at the following monitors:

- P03-04-02
- P03-08-03

Sampling Issues

During the sampling of P03-08-02 the sampling tubing was lost down the well. The tubing is approximately 20m below top of casing (TOC). As the water level is about 7.5 m below TOC, this does not interfere with sampling of the well; however, a tool should be constructed to remove the tubing if possible during the next field visit in September.



Other Site Activities

Water levels were collected for all points at each multilevel and conventional/nested well sampled. A complete record of water levels collected can be found in Table 3.

Field supplies stored at the Dawson guesthouse from the spring sampling were utilized for the AMP event. The inventory was updated upon completion of sampling with sufficient supplies remaining to aid in the fall routine sampling event.

Follow-Up Activities

- Construct tool for removing tubing in multilevel well P03-08-02.
- Review all 2007 field memos for any outstanding maintenance/rehabilitation issues prior to the last major sampling event for 2007.
- Prepare for final surface water sampling for the "Town of Faro Water Wells" project in September.

JF:jf

Table 1. Wells Sampled in August 2007

Monitor	Date Collected	Time of Sampling	Water Level From Top of Casing (m)	Total Purge Volume (L)	pH	Conductivity (uS/cm)	Temperature (°C)	Sample Notes	Samplers
X24A-96	08/01/2007	17:25	4.16	35	6.58	2695	8.2	manual purge, cloudy	jf, kn
X24D-96	08/01/2007	18:15	3.93	275	6.52	3134	10.9	manual purge (honda not working), clear	jf, kn
X25A-96	08/01/2007	18:45	3.28	70	7.21	960	9.3	manual, clear	jf, kn
X25B-96	08/01/2007	19:20	3.18	183	7.52	1118	7.2	manual (honda not working), clear	jf, kn
P03-04-02	08/02/2007	14:40	12.28	4	6.51	1738	11.5	moderate yield, light brown, split sample taken	jf, kn
P03-04-04	08/02/2007	14:30	12.53	3	7.3	1177	13	moderate yield, light grey	jf, kn
P03-04-06	08/02/2007	15:05	12.67	1.5	-	-	-	moderate yield, light greyish-brown; field chem not collected	jf, kn
P03-08-02	08/02/2007	10:50	7.66	3	7.13	516	11.6	good yield, clear	jf, kn
P03-08-03	08/02/2007	11:00	7.56	3	7.38	726	10.7	good yield, clear, split sample taken	jf, kn
P03-08-04	08/02/2007	11:30	7.47	1	7.35	1107	14.9	blockage (ice ?) ~ 13m, goes dry, slow recharge	jf, kn
P03-08-05	08/02/2007	12:20	7.29	1	7.34	2183	13.3	only purged half then sampled	jf, kn
P03-09-02	08/02/2007	9:22	2.59	5	7.09	1166	7.3	good yield, clear	jf, kn
P03-09-04	08/02/2007	9:18	3.05	4	7.2	1217	8	good yield, clear	jf, kn
P03-09-06	08/02/2007	9:40	3.11	2.5	7.21	1181	6.9	good yield, clear	jf, kn
P03-09-07	08/02/2007	9:35	3.31	2.5	7.18	1269	6.4	good yield, clear	jf, kn
P03-09-09	08/02/2007	9:50	3.72	1.5	7.17	1279	6.2	good yield, cloudy grey to clear	jf, kn

Table 2. Summary of Quality Control Samples, August 2007

Monitor	Date Collected	Time of Sampling	Time of Water Level	Water Level From Top of Casing (m)	Total Purge Volume (L)	pH	Conductivity ($\mu\text{S}/\text{cm}$)	Temperature ($^{\circ}\text{C}$)	Samplers	Sample Type
P03-04-02	08/02/2007	14:40	13:27	12.28	4	6.51	1738	11.5	jf, kn	split sample
P03-08-03	08/02/2007	11:00	10:18	7.56	3	7.38	726	10.7	jf, kn	split sample

Table 3. Summary of Water Levels Collected in August 2007

Monitor	Date of Water Level	Time of Water Level	Water Level (m btoc)
X24A-96	08/01/2007	16:38	4.16
X24B-96	08/01/2007	16:39	dry
X24C-96	08/01/2007	16:39	4.07
X24D-96	08/01/2007	16:40	3.93
X25A-96	08/01/2007	18:23	3.28
X25B-96	08/01/2007	18:24	3.18
P03-04-01	08/02/2007	13:25	12.22
P03-04-02	08/02/2007	13:27	12.28
P03-04-02	08/02/2007	13:27	12.28
P03-04-03	08/02/2007	13:28	12.19
P03-04-04	08/02/2007	13:30	12.53
P03-04-05	08/02/2007	13:32	12.59
P03-04-06	08/02/2007	13:33	12.67
P03-04-07	08/02/2007	13:38	12.69
P03-04-08	08/02/2007	13:39	12.73
P03-04-09	08/02/2007	13:41	12.73
P03-08-01	08/02/2007	10:15	7.62
P03-08-02	08/02/2007	10:15	7.66
P03-08-03	08/02/2007	10:18	7.56
P03-08-03	08/02/2007	10:18	7.56
P03-08-04	08/02/2007	10:19	7.47
P03-08-05	08/02/2007	10:21	7.29
P03-08-06	08/02/2007	10:23	6.95
P03-08-07	08/02/2007	10:24	5.28
P03-08-08	08/02/2007	10:25	5.22
P03-09-01	08/02/2007	8:47	2.096
P03-09-02	08/02/2007	8:48	2.59
P03-09-03	08/02/2007	8:49	2.67
P03-09-04	08/02/2007	8:50	3.05
P03-09-05	08/02/2007	8:51	3.10
P03-09-06	08/02/2007	8:52	3.11
P03-09-07	08/02/2007	8:53	3.31
P03-09-08	08/02/2007	8:54	3.38
P03-09-09	08/02/2007	8:55	3.72



to: Memo to File
from: Jennifer Funston
date: January 7, 2008
ref: 70549
re: Faro Fall Routine Sampling

The fall routine groundwater sampling event at the Faro Mine site was conducted by Chad Davey, Jennifer Funston, Marcia Wilson (Burnaby office), and Kai Woloshyn. Work on-site was conducted from October 2nd through October 12th, 2007. Field staff worked onsite the morning and early afternoon of October 5th and returned to Whitehorse that evening. Kai and Jen returned to Faro October 9th (following the end of season Klondike Star trip) and began work the following day. Kai and Jen sampled remaining wells and collected surface water samples for the "Town of Faro Water Wells" project, returning to Whitehorse October 12th. Gartner Lee staff resided at the mine guesthouse for the duration of their stay. Two ATV's were rented for the first week from MacPherson Rentals in Whitehorse.

Conditions at Site

The weather in Faro was cold during sampling in October. Precipitation varied from rain to snow within town to strictly snow at the minesite. Approximately six inches of snow covered the ground within the Faro pit area and 1.5-2 feet at the Grum and Vangorda sites.

Conventional and Multilevel Wells

A list of conventional and multilevel wells, as well as their corresponding field measurements can be found in Tables 1 and 2 respectively. Water analysis was completed by ALS Laboratories in Vancouver, for general chemistry (500 mL) and dissolved metals (150 mL).

QA/QC Samples

Split samples were collected at approximately 10% of the sampling locations. QA/QC samples are summarized in Table 3.

Field Site and Sampling Issues

Conventional Wells

BH05-01	dry
BH5	well found with cap off / replaced
ETA05-4	sampled for hydrocarbons
P2001-03	attached hydrolift and Honda pump to well; water would not daylight from tubing
P96-8A	sampled for hydrocarbons



Multilevel Wells

P03-04-05	blocked @ approximately the water table; no sample collected
P03-06-06	blocked
P03-06-07	dry
P03-07	collected water levels from all wells however most wells were constricted at around 7m btoc not allowing the passage of sample tubing. Water samples were therefore unable to be collected. PVC shavings were noted on the water level tape for wells P03-07-01 through P03-07-04.
P03-08-02	blocked
P03-08-06	would not recharge

Frozen Wells

Conventional wells found to be frozen during the October sampling event included the following: BH05-9B-R, P01-02B, SRK04-5A/B.

October 2007 Well Maintenance Activities

The following well maintenance activities were performed in October:

- BH1 stick-up found to be broken @ 5.26m (fix spring 2008; requires 1" coupling).
- P03-09 steel casing was spray-painted.
- P96-6 stick-up piece was attempted to be re-glued; however field staff reported site to be glued was too deep within steel casing to be accessible.
- SRK05-09 stick-up piece was found to be cut-off near well. Old stick-up = 99.01cm; new stick-up = 36.50cm.
- X17B well was open to atmosphere; well covered with red plastic pail.
- X18A/B covered with orange plastic well caps.

Other Site Issues

- The gas station in Faro recently closed due to a fire, so a tidy-tank was rented for the sampling period from Versatile Rentals Plus Ltd. in Whitehorse.
- Jen and Marcia got truck stuck in snow and tailings at P03-08. Dan pulled truck out easily using chains and a pick-up truck.
- Chad and Kai got truck stuck in snow on upper tier road of the Vangorda rock dumps (road was not plowed). Ken assisted and removed truck. Due to the large amounts of snow in the Vangorda area, Chad and Kai sampled at Faro for remainder of day.
- Drive point wells not sampled (excessive snow inhibiting access).

Table 1. Wells Sampled in October 2007

Monitor	Date Collected	Time of Sampling	Water Level From Top of Casing (m)	Total Purge Volume (L)	pH	Conductivity (µS/cm)	Temperature (°C)	Sample Notes	Samplers
BH1	10/02/2007	9:45	3.420	3.0	6.15	-	4.7	dry @ 2L, 3L, brown and turbid; stickup = 8.5 cm	kw, cd
BH12A	10/02/2007	14:43	2.333	2.5	7.64	893	2.6	clear	kw, cd
BH12B	10/02/2007	14:40	2.811	2.5	7.61	1160	2.6	brown and turbid	kw, cd
BH13A	10/02/2007	14:15	2.634	7.0	7.74	436	1.6	dry @ 7L	kw, cd
BH13B	10/02/2007	14:20	3.220	4.0	7.4	1407	1.6	clear	kw, cd
BH14A	10/02/2007	14:15	3.515	9.0	7.09	2450	4.4	clear, manual	kw, cd
BH14B	10/02/2007	14:05	4.15	16.0	7.06	2228	4.1	clear, manual	kw, cd
BH2	10/02/2007	12:10	4.835	2.0	6.38	428	3.4	dry @ 1L, dry @ 2L	kw, cd
BH4	10/02/2007	10:20	2.495	3.0	6.12	454	2.8	dry @ 1L, 2L, clear (brown and sandy up to 1L purged)	kw, cd
BH5	10/02/2007	11:40	2.135	60.0	5.86	599	2.5	well found with cap off/replaced; brown turbid water	kw, cd
BH6	10/02/2007	11:05	3.444	38.0	6.16	418	2.4	honda pump, no assist, slightly cloudy	kw, cd
ETA-05-4	10/10/2007	17:55	2.514	85.0	5.83	5760	3.6	honda, clear, sampled for hydrocarbons	kw, jf
P01-01A	10/03/2007	10:35	3.775	180.0	7.68	1443	1.5	hydrolift, clear	kw, cd
P01-01B	10/03/2007	10:45	3.810	300.0	7.86	1053	1.6	honda and assist, clear	kw, cd
P01-02A	10/04/2007	12:30	2.133	-	-	-	-		kw, cd
P01-02A	10/04/2007	12:30	2.133	-	-	-	-	split sample	kw, cd
P01-03	10/04/2007	16:00	3.590	60.0	6.82	2666	1.9	clear, honda pump/assist	kw, cd
P01-04A	10/04/2007	9:40	2.249	350.0	7.09	971	2.4	honda pump no assist, clear	kw, cd
P01-04B	10/04/2007	9:45	2.811	500.0	7.41	1374	2.3	hydrolift, clear	kw, cd
P01-11	10/04/2007	11:16	0.988	110.0	7.37	2120	4.8	honda pump no assist, clear	kw, cd
P03-01-01	10/10/2007	10:00	5.83	5.5	7.32	396	3.5	clear, good yield; w/L taken Oct. 4	jf, kw
P03-01-02	10/10/2007	10:10	5.91	4.5	7.59	360	3.6	clear, good yield; w/L taken Oct. 4	jf, kw
P03-01-03	10/10/2007	10:28	5.94	4.0	7.25	274	3.5	clear, good yield; w/L taken Oct. 4	jf, kw
P03-01-04	10/10/2007	10:23	5.99	2.5	7.06	162	3.3	clear, good yield; w/L taken Oct. 4	jf, kw
P03-01-05	10/10/2007	10:45	6.02	2.5	6.50	327	3.6	clear, good yield; w/L taken Oct. 4	jf, kw
P03-01-05	10/10/2007	10:45	6.02	2.5	6.50	327	3.6	split sample	jf, kw
P03-01-06	10/10/2007	10:37	6.04	1.5	6.65	887	3.5	clear, good yield; w/L taken Oct. 4	jf, kw
P03-01-07	10/10/2007	11:00	6.02	1.0	6.45	>20000	2.9	clear, moderate yield; w/L taken Oct. 4	jf, kw
P03-01-08	10/10/2007	10:58	6.04	0.5	5.22	>20000	3.2	cloudy green, moderate yield; w/L taken Oct. 4	jf, kw
P03-01-09	10/10/2007	11:08	6.18	0.3	4.21	>20000	2.7	grey, poor yield (do not purge); w/L taken Oct. 4	jf, kw
P03-02-01	10/05/2007	12:06	5.98	4.0	7.33	334	3.7	clear, good yield; w/L taken Oct. 3	jf, mw
P03-02-02	10/05/2007	12:01	6.01	4.0	6.57	276	3.6	clear, good yield; w/L taken Oct. 3	jf, mw
P03-02-03	10/05/2007	12:27	6.02	2.5	7.20	325	4.0	clear, good yield; w/L taken Oct. 3	jf, mw
P03-02-03	10/05/2007	12:27	6.02	2.5	7.20	325	4.0	split sample	jf, mw
P03-02-04	10/05/2007	12:22	6.06	1.5	6.84	475	4.0	clear, good yield; w/L taken Oct. 3	jf, mw
P03-02-05	10/05/2007	12:50	6.13	1.5	6.72	9260	4.0	clear, moderate yield, sulphur odour; w/L taken Oct. 3	jf, mw
P03-02-07	10/05/2007	12:54	5.82	1.0	6.38	12950	4.4	blue tinge, poor yield, purged dry; w/L taken Oct. 3	jf, mw
P03-02-08	10/05/2007	13:15	5.79	0.5	4.39	19650	5.0	cloudy, purged dry x2; w/L taken Oct. 3	jf, mw
P03-02-09	10/05/2007	13:30	5.77	0.3	4.32	22800	4.7	slightly cloudy, purged dry; w/L taken Oct. 3	jf, mw
P03-03-01	10/05/2007	9:35	7.44	5.0	6.98	446	3.5	clear, good yield; w/L taken Oct. 3	jf, mw
P03-03-02	10/05/2007	9:25	7.49	3.6	5.10	1722	3.7	clear, good yield; w/L taken Oct. 3	jf, mw
P03-03-03	10/05/2007	9:50	7.52	3.0	5.68	509	3.2	clear, good yield; w/L taken Oct. 3	jf, mw
P03-03-03	10/05/2007	9:50	7.52	3.0	5.68	509	3.2	split sample	jf, mw
P03-03-04	10/05/2007	9:52	7.56	2.0	6.18	679	3.2	clear, good yield; w/L taken Oct. 3	jf, mw
P03-03-05	10/05/2007	10:05	7.59	1.5	6.74	954	3.3	clear, good yield; w/L taken Oct. 3	jf, mw
P03-03-06	10/05/2007	10:09	7.58	1.5	6.91	1809	3.7	slightly cloudy, good yield; w/L taken Oct. 3	jf, mw
P03-03-08	10/05/2007	10:22	7.67	0.5	5.12	22400	4.0	dark grey, opaque, poor yield; w/L taken Oct. 3	jf, mw
P03-03-09	10/05/2007	10:29	7.53	0.4	4.27	25300	4.3	dark grey, opaque, poor yield; w/L taken Oct. 3	jf, mw
P03-04-01	10/04/2007	10:38	12.21	6.0	7.40	1814	3.5	clear, good yield; w/L taken Oct. 3	jf, mw
P03-04-01	10/04/2007	10:38	12.21	6.0	7.40	1814	3.5	split sample	jf, mw
P03-04-02	10/04/2007	10:20	12.28	4.5	6.54	1706	3.0	clear, moderate yield; w/L taken Oct. 3	jf, mw
P03-04-03	10/04/2007	10:59	12.18	4.0	6.49	1536	3.4	clear, good yield, sulphur odour; w/L taken Oct. 3	jf, mw

Table 1. Wells Sampled in October 2007

Monitor	Date Collected	Time of Sampling	Water Level From Top of Casing (m)	Total Purge Volume (L)	pH	Conductivity (µS/cm)	Temperature (°C)	Sample Notes	Samplers
P03-04-04	10/04/2007	11:12	12.18	3.0	7.60	1084	4.3	cloudy, good yield; wL taken Oct. 3	jf, mw
P03-04-06	10/04/2007	11:35	12.63	1.0	6.70	5640	4.0	yellow, moderate yield; wL taken Oct. 3	jf, mw
P03-04-07	10/04/2007	11:45	12.64	0.5	6.72	5450	4.5	yellow tinge, good yield; wL taken Oct. 3	jf, mw
P03-04-08	10/04/2007	12:06	12.57	0.1	6.38	6790	5.4	yellowish-orange, poor yield; wL taken Oct. 3	jf, mw
P03-04-09	10/04/2007	12:10	12.71	0.1	4.10	8170	5.8	dark grey/black, poor yield; wL taken Oct. 3	jf, mw
P03-05-01	10/02/2007	15:19	8.56	5.0	7.13	1708	5.0	clear, good yield, max depth of tubing = 10m (blockage)	jf, mw
P03-05-02	10/02/2007	15:13	8.57	4.0	6.94	985	6.1	clear, good yield, max depth of tubing = 10m (blockage)	jf, mw
P03-05-03	10/02/2007	15:44	8.63	3.0	6.78	913	5.0	clear, good yield	jf, mw
P03-05-03	10/02/2007	15:44	8.63	3.0	6.78	913	5.0	split sample	jf, mw
P03-05-04	10/02/2007	15:38	3.77	2.0	6.83	928	5.0	clear, good yield	jf, mw
P03-05-05	10/02/2007	16:34	8.81	2.0	6.90	1665	4.4	clear, good yield	jf, mw
P03-05-06	10/02/2007	17:15	8.69	1.5	6.63	4580	5.3	clear, poor yield	jf, mw
P03-05-07	10/02/2007	17:05	8.74	1.0	6.42	8230	4.9	clear, moderate yield	jf, mw
P03-05-08	10/02/2007	17:26	8.69	0.5	6.31	7170	4.2	cloudy grey, good yield	jf, mw
P03-06-01	10/04/2007	14:31	12.38	2.0	6.60	2061	5.7	clear, good yield; wL taken Oct. 3	jf, mw
P03-06-02	10/04/2007	14:27	12.40	1.5	6.27	2300	5.9	clear, moderate yield; wL taken Oct. 3	jf, mw
P03-06-03	10/04/2007	15:05	12.43	1.2	6.47	2760	6.0	clear, good yield; wL taken Oct. 3	jf, mw
P03-06-04	10/04/2007	15:00	12.45	1.0	7.01	1397	6.6	clear, good yield; wL taken Oct. 3	jf, mw
P03-06-05	10/04/2007	15:43	12.44	0.5	6.91	1449	5.8	grey, poor yield; wL taken Oct. 3	jf, mw
P03-06-05	10/04/2007	15:43	12.44	0.5	6.91	1449	5.8	split sample	jf, mw
P03-08-01	10/03/2007	10:30	7.76	3.5	8.09	522	3.5	clear, good yield	jf, mw
P03-08-03	10/03/2007	11:00	7.63	2.5	7.76	753	3.8	clear, poor yield	jf, mw
P03-08-04	10/03/2007	11:29	7.64	2.2	7.00	1323	3.8	dark grey, moderate yield	jf, mw
P03-08-05	10/03/2007	12:00	7.42	2.0	7.52	2226	4.6	dark grey, poor yield	jf, mw
P03-08-07	10/03/2007	13:00	5.19	0.5	8.68	1230	4.1	mainly clear, dry	jf, mw
P03-08-08	10/03/2007	12:40	5.10	0.1	8.98	448	3.6	no purge, immediate chem and sampled, light grey	jf, mw
P03-09-01	10/02/2007	9:50	2.49	4.0	8.02	1288	3.8	clear, good yield	jf, mw
P03-09-02	10/02/2007	9:53	2.90	4.0	7.39	1432	3.9	clear, good yield, sulphur odour	jf, mw
P03-09-03	10/02/2007	10:11	2.965	4.0	8.22	1422	3.8	clear, good yield, ants in well	jf, mw
P03-09-04	10/02/2007	10:15	2.97	3.0	8.23	1378	3.8	clear, good yield, sulphur odour, ants in well	jf, mw
P03-09-05	10/02/2007	10:25	3.32	2.8	8.23	1353	3.8	clear, good yield, ants in well	jf, mw
P03-09-06	10/02/2007	10:32	3.34	2.0	8.27	1347	3.8	clear, good yield, ants in well	jf, mw
P03-09-07	10/02/2007	10:45	3.50	1.5	8.27	1476	3.8	clear, good yield	jf, mw
P03-09-08	10/02/2007	10:50	3.59	1.0	8.25	1443	3.9	clear, moderate yield	jf, mw
P03-09-09	10/02/2007	11:00	3.88	1.0	8.25	1439	3.8	cloudy, good yield	jf, mw
P05-01-01	10/02/2007	12:17	2.15	3.0	6.91	1679	4.9	clear, good yield	jf, mw
P05-01-02	10/02/2007	12:15	2.17	2.5	7.00	1246	5.9	clear, good yield	jf, mw
P05-01-02	10/02/2007	12:15	2.17	2.5	7.00	1246	5.9	split sample	jf, mw
P05-01-03	10/02/2007	12:28	3.24	2.0	7.09	2220	4.2	clear, good yield	jf, mw
P05-01-04	10/02/2007	12:30	1.91	1.5	7.00	2282	4.1	clear, moderate yield; DTW double checked	jf, mw
P05-01-05	10/02/2007	12:42	2.40	1.0	6.92	2000	4.1	clear, good yield	jf, mw
P05-01-06	10/02/2007	12:45	2.31	0.8	6.89	1989	4.4	cloudy grey, good yield	jf, mw
P05-02	10/04/2007	11:35	0.995	60.0	7.40	2002	3.3	clear, honda pump no assist	kw, cd
P05-03	10/04/2007	11:48	4.570	45.0	7.64	1120	2.1	honda pump no assist, clear	kw, cd
P05-04	10/02/2007	10:45	3.179	45.0	6.2	416	2.2	manual, light brown and sandy	kw, cd
P2001-02A	10/11/2007	14:22	4.940	29.0	7.59	1093	2.5	dry @ 29L	kw, cd
P2001-02B	10/11/2007	14:30	4.985	57.0	7.87	1065	1.2	dry @ 57L	kw, cd
P96-6	10/02/2007	13:20	12.549	60.0	6.68	922	2.0	honda pump and assist, clear	kw, cd
P96-6	10/02/2007	13:20	12.549	60.0	6.68	922	2.0	split sample	kw, cd
P96-7	10/03/2007	11:59	4.500	38.0	-	-	-	P1 = dry @ 23L, P2 = dry @ 15L	kw, cd
P96-8A	10/05/2007	13:15	2.810	60.0	6.44	74000	5.1	hydrocarbon smell (sampled for HC's), clear, honda no assist	kw, cd
P96-8B	10/05/2007	13:10	2.899	20.0	6.63	74000	5.4	manual, clear	kw, cd
P96-9A	10/12/2007	9:25	5.870	25.0	7.11	2844	4.3	dry @ 13L, dry @ 12L, manual, clear	kw, jf

Table 1. Wells Sampled in October 2007

Monitor	Date Collected	Time of Sampling	Water Level From Top of Casing (m)	Total Purge Volume (L)	pH	Conductivity (µS/cm)	Temperature (°C)	Sample Notes	Samplers
S1A	10/03/2007	11:10	4.277	4.0	6.51	-	1.8	dry @ 3L, manual	kw, cd
S1B	10/03/2007	11:20	3.544	100.0	-	-	-	honda pump, no assist	kw, cd
S2A	10/03/2007	10:25	4.666	24.0	6.31	6680	2.3	P1 = dry @ 16L, P2 = dry @ 8L, clear	kw, cd
S2B	10/03/2007	10:20	4.901	12.0	6.77	5600	2.3	P1 = dry @ 8L, P2 = dry @ 4L, turbid	kw, cd
S3	10/03/2007	10:43	2.000	45.0	6.11	7010	3.1	honda pump and assist, grey water	kw, cd
SRK04-3A	10/10/2007	17:10	6.355	55.0	5.82	7290	4.0	clear, foamy with odour	kw, jf
SRK04-3B	10/10/2007	17:15	6.310	20.0	5.52	11480	4.3	rusty to clear	kw, jf
SRK05-05C	10/12/2007	8:51	1.785	6.0	7.64	915	2.3	brown and turbid, silty, dry several times	kw, jf
SRK05-06	10/12/2007	11:08	1.912	2.5	8.15	1766	2.5	2L purged then dry; pulled tubing to purge and sample	kw, jf
SRK05-07	10/12/2007	10:04	6.216	na	7.38	2250	1.8	brown and turbid, insuff. Vol to purge, pulled tubing to sample	kw, jf
SRK05-08	10/12/2007	9:52	5.945	11.0	7.50	1755	2.0	dry at 2L & 9L; light brown, turbid	kw, jf
SRK05-09	10/12/2007	11:14	2.225	2.0	7.66	1766	3.7	dry @ 1.5L, 0.5L, then purged; stick-up cut, new = 36.50 cm	kw, jf
SRK05-09	10/12/2007	11:14	2.225	2.0	7.66	1766	3.7	split sample	kw, jf
SRK05-ETA-BR1	10/10/2007	16:20	7.188	55.0	5.87	8050	1.5	milky, slight sheening, honda pump	kw, jf
SRK05-ETA-BR2	10/10/2007	17:05	5.182	50.0	6.98	2330	3.2	clear, slight odour	kw, jf
SRK05-SP-1A	10/03/2007	16:25	7.348	120.0	-	-	-	honda pump and assist, clear	kw, cd
SRK05-SP-1A	10/03/2007	16:25	7.348	120.0	-	-	-	split sample	kw, cd
SRK05-SP-1B	10/03/2007	16:15	7.465	70.0	-	-	-	honda pump and assist, clear	kw, cd
SRK05-SP-2	10/03/2007	0:00	2.190	-	-	-	-		kw, cd
SRK05-SP-3A	10/03/2007	15:20	4.822	195.0	-	-	-	clear, honda and no assist	kw, cd
SRK05-SP-3B	10/03/2007	15:30	4.055	96.0	-	-	-	clear, honda plus assist	kw, cd
SRK05-SP-4A	10/03/2007	14:45	4.170	205.0	-	-	-	honda pump plus assist	kw, cd
SRK05-SP-4B	10/03/2007	14:15	1.905	36.0	-	-	-	honda pump no assist	kw, cd
SRK05-SP-5	10/03/2007	9:55	6.155	90.0	6.19	6780	2.1	honda pump no assist, clear	kw, cd
SRK05-SP-6	10/03/2007	9:20	11.055	2.5	7.07	2150	0.4	dry @ 200 mL, dry @ 2L	kw, cd
TH86-17	10/02/2007	17:25	8.211	75.0	7.82	171	5.1	honda pump and assist, clear after 10L	kw, cd
V34	10/11/2007	10:23	6.210	30.0	7.68	943	0.7	dry @ 30L, manual	kw, jf
V35	10/11/2007	13:35	6.200	21.0	7.48	1862	2.5	dry @ 17L and 4L	kw, jf
V36	10/11/2007	15:18	9.060	9.0	7.55	1357	1.6	dry after 9L, manual	kw, jf
V37	10/11/2007	15:40	8.820	9.0	7.81	714	1.8	dry @ 9L, manual, clear	kw, jf
X16A	10/04/2007	13:40	3.680	36.0	8.11	316	3.2	clear, manual	kw, cd
X16B	10/04/2007	14:22	3.720	300.0	8.23	363	2.9	clear, honda pump no assist	kw, cd
X17A	10/10/2007	13:10	2.214	55.0	7.24	426	2.7	manual, cloudy, hydrocarbon sheen and smell	kw, jf
X17B	10/10/2007	13:25	2.775	240.0	7.73	489	3.1	clear, honda pump no assist; covered well with red plastic pail	kw, jf
X18A	10/05/2007	11:47	4.657	20.0	7.61	1310	1.8	P1=12L, P2=8L, clear, manual	kw, cd
X18B	10/05/2007	12:05	4.421	180.0	7.00	1265	2.0	honda pump no assist, clear	kw, cd
X21A-96	10/10/2007	14:20	4.604	30.0	6.07	1781	3.4	dark grey (filtered water has blue tinge), manual, good yield	kw, jf
X21B-96	10/10/2007	14:27	4.742	90.0	6.97	1676	3.1	clear, honda pump, good yield	kw, jf
X21B-96	10/10/2007	14:27	4.742	90.0	6.97	1676	3.1	split sample	kw, jf
X21C-96	10/10/2007	15:05	4.786	275.0	7.97	310	2.6	clear, hydrolift	kw, jf
X24A-96	10/04/2007	15:06	4.714	36.0	6.95	7587	2.5	clear, manual, cloudy	kw, cd
X24D-96	10/04/2007	15:50	4.505	250.0	7.00	2888	1.6	clear, honda pump no assist	kw, cd
X25A-96	10/04/2007	16:25	3.845	65.0	7.60	980	2.0	honda pump no assist, clear	kw, cd
X25B-96	10/04/2007	16:40	3.744	160.0	7.97	1072	1.9	honda pump and assist, clear	kw, cd

Table 2. Summary of Quality Control Samples, October 2007

Monitor	Date Collected	Time of Sampling	Time of Water Level	Water Level From Top of Casing (m btoc)	Total Purge Volume (L)	pH	Conductivity (µS/cm)	Temperature (°C)	Samplers	Sample Type
P01-02A	10/04/2007	12:30	11:56	2.133	-	-	-	-	kw, cd	split sample
P03-01-05	10/10/2007	10:45	16:19	6.02	2.5	6.50	327	3.6	jf, kw	split sample
P03-02-03	10/05/2007	12:27	17:06	6.02	2.5	7.20	325	4.0	jf, mw	split sample
P03-03-03	10/05/2007	9:50	16:35	7.52	3.0	5.68	509	3.2	jf, mw	split sample
P03-04-01	10/04/2007	10:38	14:42	12.21	6.0	7.40	1814	3.5	jf, mw	split sample
P03-05-03	10/02/2007	15:44	14:15	8.63	3.0	6.78	913	5.0	jf, mw	split sample
P03-06-05	10/04/2007	15:43	16:45	12.44	0.5	6.91	1449	5.8	jf, mw	split sample
P05-01-02	10/02/2007	12:15	11:43	2.17	2.5	7.00	1246	5.9	jf, mw	split sample
P96-6	10/02/2007	13:20	13:03	12.549	60.0	6.68	922	2.0	kw, cd	split sample
SRK05-09	10/12/2007	11:14	11:02	2.225	2.0	7.66	1766	3.7	kw, jf	split sample
SRK05-SP-1A	10/03/2007	16:25	15:36	7.348	120.0	-	-	-	kw, cd	split sample
X21B-96	10/10/2007	14:27	14:06	4.742	90.0	6.97	1676	3.1	kw, jf	split sample

Table 3. Summary of Water Levels Collected in October 2007

Monitor	Date of Water Level	Time of Water Level	Water Level (m btoc)
BH05-01	10/02/2007	10:00	dry
BH05-9B-R	10/12/2007	8:25	frozen
BH1	10/02/2007	9:20	3.420
BH12A	10/02/2007	14:24	2.333
BH12B	10/02/2007	14:25	2.811
BH13A	10/02/2007	14:00	2.634
BH13B	10/02/2007	14:01	3.220
BH14A	10/02/2007	13:45	3.515
BH14B	10/02/2007	13:43	4.15
BH2	10/02/2007	11:52	4.835
BH4	10/02/2007	10:15	2.495
BH5	10/02/2007	11:00	2.135
BH6	10/02/2007	10:55	3.444
ETA-05-4	10/10/2007	17:38	2.514
P01-01A	10/03/2007	10:00	3.775
P01-01B	10/03/2007	10:01	3.810
P01-02A	10/04/2007	11:56	2.133
P01-02B	10/04/2007	11:58	0.444
P01-03	10/04/2007	15:10	3.590
P01-04A	10/04/2007	16:50	2.249
P01-04B	10/04/2007	16:51	2.811
P01-11	10/04/2007	11:00	0.988
P03-01-01	10/10/2007	16:15	5.83
P03-01-02	10/10/2007	16:16	5.91
P03-01-03	10/10/2007	16:17	5.94
P03-01-04	10/10/2007	16:18	5.99
P03-01-05	10/10/2007	16:19	6.02
P03-01-06	10/10/2007	16:20	6.04
P03-01-07	10/10/2007	16:21	6.02
P03-01-08	10/10/2007	16:24	6.04
P03-01-09	10/10/2007	16:25	6.18
P03-02-01	10/05/2007	17:04	5.98
P03-02-02	10/05/2007	17:05	6.01
P03-02-03	10/05/2007	17:06	6.02
P03-02-04	10/05/2007	17:07	6.06
P03-02-05	10/05/2007	17:08	6.13
P03-02-07	10/05/2007	17:11	5.82
P03-02-08	10/05/2007	17:12	5.79
P03-02-09	10/05/2007	17:13	5.77
P03-03-01	10/05/2007	16:31	7.44
P03-03-02	10/05/2007	16:33	7.49
P03-03-03	10/05/2007	16:35	7.52
P03-03-04	10/05/2007	16:36	7.56
P03-03-05	10/05/2007	16:38	7.59
P03-03-06	10/05/2007	16:39	7.58
P03-03-08	10/05/2007	16:43	7.67
P03-03-09	10/05/2007	16:45	7.53
P03-04-01	10/04/2007	14:42	12.21
P03-04-02	10/04/2007	14:46	12.28
P03-04-03	10/04/2007	14:51	12.18
P03-04-04	10/04/2007	14:54	12.18
P03-04-05	10/04/2007	14:55	12.62
P03-04-06	10/04/2007	15:02	12.63

Table 3. Summary of Water Levels Collected in October 2007

Monitor	Date of Water Level	Time of Water Level	Water Level (m btoc)
P03-04-07	10/04/2007	15:04	12.64
P03-04-08	10/04/2007	15:07	12.57
P03-04-09	10/04/2007	15:09	12.71
P03-05-01	10/02/2007	14:12	8.56
P03-05-02	10/02/2007	14:13	8.57
P03-05-03	10/02/2007	14:15	8.63
P03-05-04	10/02/2007	14:17	3.77
P03-05-05	10/02/2007	14:19	8.81
P03-05-06	10/02/2007	14:26	8.69
P03-05-07	10/02/2007	14:29	8.74
P03-05-08	10/02/2007	14:32	8.69
P03-06-01	10/04/2007	16:38	12.38
P03-06-02	10/04/2007	16:40	12.40
P03-06-03	10/04/2007	16:41	12.43
P03-06-04	10/04/2007	16:44	12.45
P03-06-05	10/04/2007	16:45	12.44
P03-06-06	10/04/2007	16:48	blocked
P03-06-07	10/04/2007	16:49	dry
P03-07-01	10/03/2007	15:36	13.030
P03-07-02	10/03/2007	15:38	11.913
P03-07-03	10/03/2007	15:44	11.214
P03-07-04	10/03/2007	15:47	13.157
P03-07-05	10/03/2007	15:50	13.157
P03-07-06	10/03/2007	15:53	13.183
P03-07-07	10/03/2007	15:55	13.170
P03-07-08	10/03/2007	15:56	13.170
P03-08-01	10/03/2007	9:30	7.76
P03-08-02	10/03/2007	9:32	blocked
P03-08-03	10/03/2007	9:34	7.63
P03-08-04	10/03/2007	9:36	7.64
P03-08-05	10/03/2007	9:37	7.42
P03-08-06	10/03/2007	9:38	7.07
P03-08-07	10/03/2007	9:40	5.19
P03-08-08	10/03/2007	9:41	5.10
P03-09-01	10/02/2007	9:25	2.49
P03-09-02	10/02/2007	9:26	2.90
P03-09-03	10/02/2007	9:28	2.965
P03-09-04	10/02/2007	9:27	2.97
P03-09-05	10/02/2007	9:29	3.32
P03-09-06	10/02/2007	9:30	3.34
P03-09-07	10/02/2007	9:30	3.50
P03-09-08	10/02/2007	9:31	3.59
P03-09-09	10/02/2007	9:32	3.88
P05-01-01	10/02/2007	11:41	2.15
P05-01-02	10/02/2007	11:43	2.17
P05-01-03	10/02/2007	11:44	3.24
P05-01-04	10/02/2007	11:44	1.91
P05-01-05	10/02/2007	11:46	2.40
P05-01-06	10/02/2007	11:48	2.31
P05-02	10/04/2007	11:25	0.995
P05-03	10/04/2007	11:39	4.570
P05-04	10/02/2007	10:30	3.179
P2001-02A	10/11/2007	14:10	4.940

Table 3. Summary of Water Levels Collected in October 2007

Monitor	Date of Water Level	Time of Water Level	Water Level (m btoc)
P2001-02B	10/11/2007	14:11	4.985
P2001-03	10/11/2007	9:30	>30 m
P96-6	10/02/2007	13:03	12.549
P96-7	10/03/2007	11:39	4.500
P96-8A	10/05/2007	12:55	2.810
P96-8B	10/05/2007	12:54	2.899
P96-9A	10/12/2007	9:15	5.870
S1A	10/03/2007	10:56	4.277
S1B	10/03/2007	10:55	3.544
S2A	10/03/2007	10:02	4.666
S2B	10/03/2007	10:01	4.901
S3	10/03/2007	10:28	2.000
SRK04-3A	10/10/2007	16:43	6.355
SRK04-3B	10/10/2007	16:42	6.310
SRK05-05C	10/12/2007	8:39	1.785
SRK05-06	10/12/2007	10:45	1.912
SRK05-07	10/12/2007	9:59	6.216
SRK05-08	10/12/2007	9:36	5.945
SRK05-09	10/12/2007	11:02	2.225
SRK05-ETA-BR1	10/10/2007	15:50	7.188
SRK05-ETA-BR2	10/10/2007	15:53	5.182
SRK05-SP-1A	10/03/2007	15:36	7.348
SRK05-SP-1B	10/03/2007	15:37	7.465
SRK05-SP-2	10/03/2007	16:38	2.190
SRK05-SP-3A	10/03/2007	14:38	4.822
SRK05-SP-3B	10/03/2007	14:39	4.055
SRK05-SP-4A	10/03/2007	13:43	4.170
SRK05-SP-4B	10/03/2007	13:45	1.905
SRK05-SP-5	10/03/2007	9:32	6.155
SRK05-SP-6	10/03/2007	8:55	11.055
TH86-17	10/02/2007	17:20	8.211
V34	10/11/2007	9:57	6.210
V35	10/11/2007	13:04	6.200
V36	10/11/2007	15:02	9.060
V37	10/11/2007	15:27	8.820
X16A	10/04/2007	13:12	3.680
X16B	10/04/2007	13:13	3.720
X17A	10/10/2007	12:51	2.214
X17B	10/10/2007	12:50	2.775
X18A	10/05/2007	11:16	4.657
X18B	10/05/2007	11:15	4.421
X21A-96	10/10/2007	14:07	4.604
X21B-96	10/10/2007	14:06	4.742
X21C-96	10/10/2007	14:05	4.786
X24A-96	10/04/2007	14:50	4.714
X24D-96	10/04/2007	14:45	4.505
X25A-96	10/04/2007	18:08	3.845
X25B-96	10/04/2007	18:09	3.744



to: Memo to File
from: Jennifer Funston
date: December 10, 2007
ref: 70546
re: Faro Winter AMP Sampling

The November Adaptive Management Plan (AMP) sampling event was completed by Jennifer Funston and Eric Cleveland of Gartner Lee Limited, with sampling conducted on November 5th and 6th, 2007. All wells that are part of the AMP sampling regime were sampled. Details concerning conventional and multilevel wells sampled during the August event can be found in Table 1.

Conditions at Site

The weather in Faro was cold with partly sunny skies during the November sampling period. Daytime high temperatures reached approximately -12°C. The tailings were snow covered and overall snow depth was about 2 feet.

AMP Sampling

The following wells were sampled as part of the AMP winter sampling event:

- P03-04-02, P03-04-04, P03-04-06
- P03-08-02, P03-08-03, P03-08-04, P03-08-05
- P03-09-02, P03-09-04, P03-09-06, P03-09-07, P03-09-09
- X24A-96, X24D-96
- X25A-96, X25B-96

Quality Assessment and Quality Control (QAQC)

Split samples were collected for approximately 10% of the samples in order to ensure QAQC, as outlined in Table 2. Splits were collected at the following monitors:

- P03-04-04
- X24D-96

Sampling Issues

Only the main roads are ploughed at the mine during the winter due to equipment incompatibility with ploughing of the dam roads, etc. The snow was too deep in 2007 to access any wells off the main road by truck. The mine snowmobile was utilized to sample X24D-96 and X25D-96; however, would not restart upon completion of sampling. Glen Craig and a mechanic came to assist and got the snowmobile running, and Eric drove it back to the mine bay. Sampling



equipment was hand-ferried to P03-08 and P03-09. A snowmobile should be rented in Whitehorse to assist with the November AMP sampling event. If there is little snow in Whitehorse at this time, a call should be made to inquire about snow conditions at the mine site.

Other Site Activities

Water levels were collected for all points at each multilevel and conventional/nested well sampled. A complete record of water levels collected can be found in Table 3.

Field supplies stored at the Dawson guesthouse for the 2007 season were brought back to GLL Whitehorse, except for conventional (5/8") and multilevel (1/4") tubing, which can be used for the Spring 2008 sampling event.

Follow-Up Activities

- Preparation and submittal of draft "Anvil Range Mine 2007 Groundwater Monitoring Report"

JF:jf

Table 1. Wells Sampled in November 2007

Monitor	Date Collected	Time of Sampling	Water Level From Top of Casing (m)	Total Purge Volume (L)	pH	Conductivity (uS/cm)	Temperature (°C)	Sample Notes	Samplers
X24A-96	11/06/2007	10:02	4.55	36	6.88	2717	2.9	manual, slightly cloudy	jf, ec
X24D-96	11/06/2007	10:37	4.33	275	6.87	3203	1.4	honda + assist	jf, ec
X25A-96	11/06/2007	12:15	3.67	70	7.76	1055	0.5	manual, clear	jf, ec
X25B-96	11/06/2007	12:25	3.565	180	8.48	1104	1.4	honda + assist, clear	jf, ec
P03-04-02	11/05/2007	14:50	12.42	4.0	6.83	1670	4.5	poor yield	jf, ec
P03-04-04	11/05/2007	14:40	12.67	3.0	7.77	1079	6.9	yellow, sulphide odour	jf, ec
P03-04-06	11/05/2007	15:00	12.66	1.5	6.73	4830	3.7		jf, ec
P03-08-02	11/05/2007	15:15	-	3.0	7.74	540	2.7	could not get mini-dipper down tubing (used prev wL for calc of purge vol); strong sulphur smell	jf, ec
P03-08-03	11/05/2007	15:20	7.705	3.0	7.77	756	2.7		jf, ec
P03-08-04	11/05/2007	15:35	7.715	1.0	7.66	1319	2.5		jf, ec
P03-08-05	11/05/2007	15:35	7.435	1.0	7.90	2216	2.4		jf, ec
P03-09-02	11/05/2007	11:07	3.01	5.0	7.39	1154	2.9	clear	jf, ec
P03-09-04	11/05/2007	11:00	3.35	3.5	7.54	1271	0.6	clear	jf, ec
P03-09-06	11/05/2007	11:21	3.38	3.5	7.60	1263	3.5	clear	jf, ec
P03-09-07	11/05/2007	11:15	3.52	2.0	7.67	1394	3.2	clear, sulphur odour	jf, ec
P03-09-09	11/05/2007	11:27	3.88	1.0	7.54	1348	3.6	slightly milky	jf, ec

Table 2. Summary of Quality Control Samples, November 2007

Monitor	Date Collected	Time of Sampling	Time of Water Level	Water Level From Top of Casing (m)	Total Purge Volume (L)	pH	Conductivity ($\mu\text{S}/\text{cm}$)	Temperature ($^{\circ}\text{C}$)	Samplers	Sample Type
P03-04-04	11/05/2007	14:40	14:33	12.67	3.0	7.77	1079	6.9	jf, ec	split sample
X24D-96	11/06/2007	10:37	9:37	4.33	275	6.87	3203	1.4	jf, ec	split sample

Table 3. Summary of Water Levels Collected in November 2007

Monitor	Date of Water Level	Time of Water Level	Water Level (m btoc)
X24A-96	11/06/2007	9:35	4.55
X24C-96	11/06/2007	9:36	4.47
X24D-96	11/06/2007	9:37	4.33
X24D-96	11/06/2007	9:37	4.33
X25A-96	11/06/2007	11:20	3.67
X25B-96	11/06/2007	11:20	3.565
P03-04-01	11/05/2007	14:30	12.38
P03-04-02	11/05/2007	14:31	12.42
P03-04-03	11/05/2007	14:32	12.31
P03-04-04	11/05/2007	14:33	12.67
P03-04-04	11/05/2007	14:33	12.67
P03-04-05	11/05/2007	14:34	12.68
P03-04-06	11/05/2007	14:35	12.66
P03-04-07	11/05/2007	14:36	12.65
P03-04-08	11/05/2007	14:37	12.66
P03-04-09	11/05/2007	14:38	12.67
P03-08-01	11/05/2007	14:38	7.86
P03-08-02	11/05/2007	14:39	-
P03-08-03	11/05/2007	14:40	7.705
P03-08-04	11/05/2007	14:41	7.715
P03-08-05	11/05/2007	14:42	7.435
P03-08-06	11/05/2007	14:43	7.095
P03-08-07	11/05/2007	14:44	5.20
P03-08-08	11/05/2007	14:45	5.095
P03-09-01	11/05/2007	10:30	2.62
P03-09-02	11/05/2007	10:32	3.01
P03-09-03	11/05/2007	10:34	3.06
P03-09-04	11/05/2007	10:35	3.35
P03-09-05	11/05/2007	10:34	3.37
P03-09-06	11/05/2007	10:35	3.38
P03-09-07	11/05/2007	10:36	3.52
P03-09-08	11/05/2007	10:37	3.58
P03-09-09	11/05/2007	10:37	3.88