

Anvil Range Mine 2006 Groundwater Monitoring Report



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

Submitted by
Gartner Lee Limited

March 2007



Gartner Lee

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Gartner Lee



Gartner Lee Limited

March 30, 2007

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

Dear Ms. Chort:

**Re: 60-601 – Anvil Range Mine, Rose Creek Tailings Facility, 2006 Groundwater
Monitoring Report, Final Report**

We are pleased to present you with a copy of our final report. Please do not hesitate to contact me at extension 5732, should you have any questions. We thank you for the opportunity to work on this project and look forward to the upcoming 2007 field season.

Yours very truly,
GARTNER LEE LIMITED

Jennifer Funston, B.Sc.
Hydrogeologist

JAF:jaf

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Executive Summary

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 (June and September) 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.

The summary results of the 2006 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 for 2007 recommended (Section 6.1);
- Various observations were recorded regarding the physical condition of the wells; and
- Several items are recommended for 2007, which include general maintenance of the physicals condition of the wells, surveying, and follow up to QA/QC results.

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 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 2004 and 2005, new groundwater monitoring wells were installed by others (SRK and Robertson GeoConsultants) 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 2006 are specifically listed in Table 1 and their locations are shown on Figure 2, Figure 3 and Figure 4.

In 2006, routine Water License groundwater sampling occurred during two field visits: one between June 5th and June 16th and the other between Sept 17th to 24th. 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 2006: June, August, September 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. The summer AMP sampling occurred from August 1st to 3rd and the “winter/fall” sampling was done between October 31st and November 2nd. 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 2006 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.

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 2006 field program consist of the following:

- Field Replicate – assessment of field variability in co-located samples
- Field Split – assessment of laboratory repeatability
- Laboratory Duplicates – assessment of analytical precision

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

2.1 General QA/QC Measures

The following quality assurance and quality control (QA/QC) procedures were incorporated into the 2006 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 replicates and split samples were collected. Replicates were collected by using the same sampling procedures in addition to clean and new sampling equipment such as filters and bottles. Results from replicate samples can be used to assess field variability. 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 numbers, 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 Replicates and Split Samples

Field replicates and 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 each 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 2006 season is summarized below:

- During the June 2006 (spring) groundwater sampling event, 145 samples including 10 replicate samples were collected from 135 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 2006 (summer AMP) groundwater sampling event, 23 samples including 1 split sample were collected from 22 monitors, some of which could not be sampled in June.
- During the September 2006 (fall) groundwater sampling event, a total of 153 samples including 10 split samples were collected from 143 monitors. The sample set during the fall 2006 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 2006 (fall/winter AMP) groundwater sampling, 25 samples including 2 split samples were collected from 23 monitors. This also included P03-05, which was not sampled during the fall routine event.

2.2.2 Laboratory Duplicates

One or two groundwater samples from each analytical laboratory report were analysed in duplicate by the laboratory. Laboratory duplicates are samples analysed 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 duplicated data for groundwater samples are summarized in Appendix B and includes the determination of Relative Percent Difference (RPD) between samples (a discussion of these results can be found in section 2.3.2).

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 B contains quality assurance data collected during each field episode. As shown in Appendix B, of the twenty three field QA/QC samples only 3 reported RPD results greater than 50%. These samples were collected in June at P96-9A and P03-01-01 and split sample P03-08-08 collected in September. Of these, the concentrations under consideration were less than PQL, therefore further analysis is not required.

In 2005, an RPD value of greater than 50% was calculated for either sulfate or alkalinity in replicate samples collected at BH12A and BH14B in May. Values of alkalinity in May 2005 for BH12A were 67 mg/L and 200 mg/L for the sample and replicate respectively. In September 2006, alkalinity values at BH12A were reported as 188 mg/L and 178 mg/L in the split sample. This coincides with the replicate sample concentration of 200 mg/L collected the previous spring. May 2005 values for sulfate at BH14B (20 mg/L and 1570 mg/L in split sample) varied more than 2 orders of magnitude. The sulfate concentrations reported at BH14B in September 2006 were 1760 mg/L and 1790 mg/L in the sample and split sample respectively. The 2004 result was also greater than 1000 mg/L.

2.3.2 Relative Percent Difference – Lab QA/QC Samples

An outline of Laboratory QA/QC analysis can also be found in Appendix B. Of the 39 samples analyzed, 2 contained RPD values of greater than 50%. Both of these samples were collected during the September sampling event. The sulphate concentrations for X21A-96 were both greater than PQL, therefore further investigation is considered warranted. This monitor should be targeted for replicate sampling in the spring of 2007 to investigate any consistency to this finding. Monitor P03-02-03 contained an RPD for zinc concentrations of greater than 50%. However, both concentrations under analysis were less than PQL, rendering the RPD value to be insignificant (ie. further investigation is not necessary).

3. 2006 Water Levels

All water level data available to Gartner Lee at the time of writing of this report are included in Table 4 and Table 5. Gartner Lee collected most of these data during routine and AMP sampling; however, other data were also collected by Environment Canada during other sampling events. All water levels were measured prior to sampling of the wells.

4. 2006 Groundwater Quality Data

Analytical results, including field parameters for 2006 groundwater sampling are presented in Table 6. In 2006, Environment Canada continued monitoring of a conservative bromide tracer injection at location P01-09. As part of this study, Gartner Lee and Environment Canada collected samples from surrounding multi-level wells throughout 2006. Samples collected by Gartner Lee as part of the tracer study monitoring are presented in this report.

5. Field Logistics and Sampling Issues

The following provides a summary of 2006 major observations and maintenance activities. In addition, more detailed information is provided in memos found in Appendix C. A map showing the location of the current network monitored by Gartner Lee is presented in Figure 2, Figure 3 and Figure 4.

5.1 Original Tailings Impoundment

The wells which were monitored in the original tailings impoundment are P03-07 and NA05-11A (Figure 2). Well NA05-11A was monitored in September 2006 as requested by SRK personnel and is not proposed to be included in future routine monitoring. TH86-17 is located directly to the east of the original tailings impoundment. Conditions in 2006 were as follows:

- **P03-07** – As recommended in the 2005 Faro Groundwater Monitoring Report, the physical condition of the well was investigated in 2006. These observations are summarized in a memo in Appendix C. In summary, points P03-07-02 and P03-07-05 were sampled in 2006. All other monitors are suspected to be permanently frozen. The condition of each monitor at this location is described in Appendix C. It is recommended that water levels be routinely verified at this well and that any non-frozen monitoring point be sampled.

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. In addition, well NA05-9S and NA05-9D were also sampled in September as a special request from SRK personnel. Groundwater quality at P03-03 is currently under review for possible effects from P01-09 wells which were decommissioned in the fall of 2005 and this should be considered when using this data. Wells P03-01, P03-02 and P03-03 were sampled in June and September of 2006. Wells P03-03 and P01-09 were also sampled throughout 2006 by Environment Canada to monitor the evolution of a bromide tracer experiment. Sampling data from Environment Canada was not available at the time of writing this report.

- **P03-01-07** – Well was sampled in both June and September; however, chemical analysis was not completed for the June sample. Field chemistry was collected and recorded and is included in this report (Table 6).
- **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 and it is recommended that this monitor not be sampled in the future.

- **P03-02-06** - degassing of the formation or production of gas also occurred at this location during sampling in June. Bubbling of gas up the sample tube caused airlifting of groundwater to the top of the tube and out of the protective steel casing. As recommended for P03-03-07, this well should not be sampled in the future or at least until the cause of gas production has been determined.
- **NA05-9S** – well was targeted for sampling in September at the request of SRK; however, it was dry.

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.

- **P03-04-09** – this point is screened in the tailings and has slow recharge and therefore yielded enough volume for general chemistry analysis only (no dissolved metals analysis) in September.
- **P03-05** – This multilevel was not sampled during the September field program due to time constraints. It was therefore sampled during the following event (fall/winter AMP) in November.
- **P03-05-04** – this monitoring point could not be sampled as plastic shavings from the sampling tube clogged the foot valve.
- **P03-06-06** – a sample could not be collected during the September sampling event due to problems lowering the sample tubing into the well. This was possibly due to a constriction or frozen conditions in the well.
- **P03-06-07** – This point was dry during the June sampling event and was dry during the September event.

5.4 Intermediate Impoundment

The monitoring wells in the Intermediate Impoundment are X21-96 A/B/C, and multi-level well P03-08.

- **X21C-96** – It was noted in 2004, 2005 and again in 2006 that this well produces tailings. (see memo in Appendix C). This issue was brought to the attention of the Faro Closure Office by Gartner Lee Ltd during a meeting on October 20th, 2006. A technical determination should now be made of the appropriateness of continued monitoring of this well. Data for this well should be applied with caution until such a determination is finalized. We note that this well is listed in the Water License. Further issues are discussed in a memo in Appendix C.
- **P03-08-07** – monitoring point is screened in the tailings and has slow recharge; it is usually purged dry prior to sampling.

- **P03-08-08** - monitoring point is screened in the tailings and has slow recharge; it is usually purged dry prior to sampling.

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. All wells were targeted for sampling in June and September 2006. Wells X24-96 and X25-96 were also sampled in August and November for the AMP program.

- **X24-96 A/B/C** – Details of well maintenance issues at this location are listed in a memo in Appendix C. Below is a summary of major observations and recommendations.
- **X24A-96** – (see memo in Appendix C). Well was sampled in June, September and November. The well has a 1 m thick sand layer at the bottom and the foot valve sometimes gets clogged. This occurred in August.
- **X24B-96** - (see memo in Appendix C). Sand has accumulated in the well to 3.7 m below top of casing (above the water table), which was confirmed by down-hole video camera in 2005 and in August 2006. It is not known what mechanism has caused sand to accumulate to above the screen. Consequently, the well could not be sampled in 2005 or 2006. Data collected to date for this well should be applied with caution until it is determined what has caused sand to accumulate in the well. It is recommended that this well be removed from the routine groundwater monitoring program and that the AMP be modified accordingly. We note that this well is listed in the Water License. Investigative activities at this location are described in a memo in Appendix C.
- **X24C-96** – (see memo in Appendix C). Well was blocked at a depth of approximately 12 m (bottom of well should be approx. 17 m). Foot valve quickly gets clogged with sand preventing collection of a sample. It was not possible to sample this well in 2006. Data collected to date for this well should be applied with caution until it is determined what has caused sand to accumulate in the well. It is recommended that this well be removed from the routine groundwater monitoring program and that the AMP be modified accordingly. We note that this well is listed in the Water License. Investigative activities at this location are described in a memo in Appendix C.
- **X25-96 A/B** – Details of well maintenance issues at this location are listed in a memo in Appendix C. Below is a summary of observations and recommendations.
- **X25A-96** – (see memo in Appendix C). The stickup at this location was shortened by 11.5 cm to facilitate sampling by allowing use of the Hydrolift system. It is recommended that all well construction details and modifications be included in the well geological database (to complete in 2006/2007) to account for the change in casing height. Water levels should be re-surveyed and referenced accordingly.



- **X25B-96** - (see memo in Appendix C). The stickup at this location was shortened by 5.5 cm to facilitate sampling by allowing use of the Hydrolift system. It is recommended that all well construction details and modifications be included in the well geological database (to complete in 2006/2007) to account for the change in casing height. Water levels should be re-surveyed and referenced accordingly.
- **P01-04 A/B** – Both wells were frozen in June. The wells were sampled in September.

5.6 Down Gradient of the Cross Valley Dam

The following wells are located downgradient of the Cross-Valley dam (down-gradient of the entire tailings impoundment): P01-01 A/B, P01-02 A/B, P03-09, P01-11, X16 A/B, X17 A/B and X18 A/B. In addition, a series of new wells (P05-01, P05-02, P05-03, MW1, MW2, PW1 and PW2) were installed in August 2005 by RGC at the toe of the dam (Figure 2). These wells were originally installed as pumping wells and monitoring wells for a long-term pumping test. Gartner Lee designed and installed multi-level well P05-01 and assisted RGC during the installation of some of the other wells. Wells P05-01, P05-02 and P05-03 were sampled in 2006.

- **P01-01 A/B** – (see memo in Appendix C). The stickup on well P01-01A was shortened by 0.30 m to 0.74 m above ground surface. A protective steel casing was installed around the nested wells.
- **P01-11** – (see memo in Appendix C). The concrete at the base of the protective steel casing is cracked and the steel casing can be moved back and forth manually. The ground around the well also appears to be eroding here, likely due to surface runoff from the Dam. The PVC well extends above the protective steel casing, therefore the steel cover does not close to prevent meteoric water from entering the casing. The well stickup should be shortened to allow the steel lid to close, and it should also be determined if the well was originally completed in this manner or if modifications or ground movement has resulted in the present state of the protective steel casing.
- **X18A** – (see memo in Appendix C). A down-hole camera was used in 2005 to identify a piece of sampling tubing at approximately 9.5 m btoc. This does not interfere with sampling, however it should be removed if possible.
- **P05-01** – Points 1 through 5 (of a total of six points) were frozen in June. All monitoring points were sampled during the summer AMP and again in September.

5.7 Faro Rock Dump Area

The wells located at the base of the Faro Rock Dumps (Figure 3) are P96-6, P96-7, P96-8 A/B, P05-04, S1 A/B, S2 A/B, S3, BH1, BH2, BH4, BH5, BH6, BH7 S/D, BH10 A/B, BH12 A/B, BH13 A/B, BH14 A/B, BH05-01 and DP1 through DP6. New wells (SRK04-2 A/B, SRK04-3 A/B, SRK04-4, SRK05-ETA-BR 1/2, and ETA-05-04) were installed by SRK in 2004 and 2005 to supplement the monitoring

network associated with the Faro Rock Dump area. Wells SRK04-2 A/B are nested wells which are inoperable and were suspected to be broken. These wells should have since been decommissioned, however, this was not confirmed by Gartner Lee. A new transect of wells (SRK-SP-1 to SRK-SP-6) were also installed in 2005 in the vicinity of the "S" series wells (Figure 3).

- **P96-8 A/B** – Both wells were frozen in June.
- **S2A** – (see memo in Appendix C). Well has a joint with a coupling at ground surface which can be removed. It is not known whether the well was originally completed in this manner or if the top stickup portion of the well has become loose. Although this facilitates sampling, it also provides a possible pathway for infiltration of surface runoff into the well. It is recommended that this coupling be glued and sealed.
- **S3** – (see memo in Appendix C). An extra stickup piece sits on top of this well and protects the sampling tubing. The top of the well casing reference point is taken to be the bottom of the casing extension (stickup = 1.12 m above ground surface). The casing extension was labeled and clearly marked to avoid future confusion. The area around the well is usually wet suggesting an area of groundwater discharge.
- **BH1** – (see memo in Appendix C). Well is broken as a result of shearing at ground surface. The stickup of the 1" diameter well is currently only 7 cm. A steel drum covers the well for protection, but it should be properly fixed by installing a surface stickup in 2007.
- **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. Details of well maintenance issues at this location are listed in a memo in Appendix C. Below is a summary of major observations and recommendations.
- **BH7S** – (see memo in Appendix C). Well appeared to be in good condition but well is slightly inclined away from waste rock slope. Frost-jacking marks are evident at the base of the well where a black line depicts the current (September 2006) elevation of ground surface.
- **BH7D** – (see memo in Appendix C). The PVC well appears slightly brittle and cracked and is slightly inclined away from the waste rock slope. Evidence suggests that the well may have been compromised by frost jacking and ground movement and as such currently provides a possible pathway for potentially contaminated soil and/or groundwater to flow from the shallow zone near the compromised/open joint, to the deeper groundwater system below the shallow waste soil material. This could affect data from wells downgradient. Both wells at BH7 should be decommissioned in 2007.
- **BH10 A/B** – (see memo in Appendix C). Protective steel casing and wells are inclined at ground surface at an angle of approximately 34 degrees (from vertical). If the wells are inclined due to frost/ground movement issues they should be removed from the monitoring network and properly decommissioned. A sample could not be collected from either of these wells in September.
- **BH13 A/B** – Both wells were frozen in June. In September, BH13A was purged dry and was not sampled due to very slow recharge.

- **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.
- **DP3** – Drive point piezometer was installed by SRK in 2005 and is currently angled.
- **DP4** – Drive point piezometer was installed by SRK in 2005 and is angled.
- **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 and fall sampling events.
- **SRK04-3A** – This well was sampled in both June and September. During the September sampling, the foot-valve came off during purging and was lost down the well. Although this does not interfere with sampling of the well, the foot-valve should be retrieved if possible.
- **SRK05-SP-6** – Well was dry in both June and September.

5.8 Vangorda Rock Dump Area

The wells located near the Vangorda Rock Dump (Figure 4) are P01-51 and P01-52 A/B (previously referred to as P2001-01A and P2001-02A/B respectively), V34, V35, V36 and V37.

There were no sampling or maintenance issues with any of the Vangorda wells during the 2006 monitoring period. All wells in this area were flagged, labeled, repainted with red marking paint and photographed in September 2006.

5.9 Grum Rock Dump Area

The wells located near the Vangorda 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 2006 season:

- **P96-9A** – (see memo in Appendix C). In August 2006, sample tubing was removed from the well and the foot-valve was clogged with what appeared to be silica sand. This well could still be sampled in both June and September 2006. The protective steel casing and well stickup at P96-9A and P96-9B is slightly tilted.
- **P96-9B** – (see memo in Appendix C). The down-hole camera was used to examine an obstruction at 2.40 m btoc. The well is completely pinched shut and therefore inoperable.
- **SRK04-5 A/B** – These wells are artesian and mechanical packers have been installed by SRK to prevent overflow of water. These packers are removed and reinstalled each time the wells are sampled. In September 2006, both packers were reinstalled a few meters deeper in each well to allow field staff to reach the top of the packers without having to back-up a vehicle close to the well for higher access.

- **SRK05-05C** – This well was not sampled during the June event due to erroneous survey coordinates.
- **SRK05-07** – Well yielded insufficient volume for a sample to be collected in June 2006.
- **BH05-9B-R** – This well was frozen in June.

6. Recommendations

Various recommendations for implementation in 2007 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:

- **BH1** – fix well by installing small diameter PVC stickup and a protective steel casing if necessary
- **BH7 D/S** - document any changes in position and elevation of wells relative to ground surface and 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** should be removed from the monitoring network and properly decommissioned. It is currently not recommended that these wells be sampled or measured for water levels to prevent field equipment from getting stuck in the inclined well.
- **P01-11** - stickup should be shortened to allow the steel lid to close. It should also be determined if possible whether the well was originally completed in this manner or if modifications or ground movement has affected the protective steel casing.
- **P96-9A** - 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 m btoc which sometimes prevents sampling tubing from extending to bottom of well. This could be further investigated with a down-hole camera.
- **X17 A/B** - flagging and brushing the access trail to the well and perhaps completing an ATV access trail
- **X18A** - efforts should be made to remove section of tubing stuck at 9.5 m depth

- **X21A-96** – This well should be targeted for replicate sampling in spring 2007 to verify sulfate concentrations at this location.
- **X24A-96** - The condition of this well should be investigated further in 2007 and purging and sampling efforts should attempt to remove sediment from the well.

6.2 Surveying

- it is recommended that surveying be completed at the following wells (as convenient when surveyors are on-site) in 2007: BH1, P01-01 A/B, P01-02 A/B, P01-11, S2A, S3, X16B and X25-96 A/B, wells at the Vangorda and Grum site which have not been surveyed and any other well which is identified as part of an on-going review of site data by Gartner Lee.
- Once finalized, the database containing well location and construction details should be updated with the latest well construction details and modifications and new survey data once a recent survey has been completed.

6.3 Decommissioning of Wells

The following wells are recommended for decommissioning in 2007 due to observations noted herein:

- BH7 D/S (wells are suspected to be impacted by frost jacking)
- BH10 A/B (wells and casing are angled and suspected to be compromised)
- P96-9B (pinched shut near top, condition of entire well not known)
- SRK04-02 A/B (if it has not been completed to date)

6.4 Discontinue Sampling

Sampling should be discontinued at the following locations based on observations listed herein: BH7 D, BH7 S, BH10 A, BH10B, X24-96 B, X24-96 C, P03-03-07 , P03-02-06

We note that some wells which are recommended for action are included in the current water license. Should these wells be removed from the routine groundwater monitoring program, the water license references should be updated accordingly. We also note that wells at X24-96 are recommended for action and are included in the site Adaptive Management Plan (AMP). Consequently, the AMP should be updated to reflect any changes made to the site sampling program and account for potentially inoperable wells at location X24-96

It was noted during a meeting on October 20th, 2006 with the Faro Closure Office to review the groundwater monitoring program that data from BH7 S/D and BH10 A/B wells may have been used by

other consultants to interpret hydrogeological conditions in the area. Possible conclusions and recommendations based on this data should be reviewed and re-evaluated based on these findings to ensure accuracy of the conclusions.

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:

- BH2 and BH12 A/B exhibited significant variable concentrations of dissolved metals, anions and general chemistry parameters between sampling episodes. In general, concentrations were frequently higher during the spring (May) as compared to the fall (September).
- P96-9A, P03-01-01 and P03-08-08 replicates provide RPD values (aluminum, lead and zinc respectively) of >50%; however, all concentrations were lower than the PQL and therefore no further investigation is warranted. (Appendix B)
- Odours were noted at the following wells:
 - sulphur odour: BH13A, P01-04A and P03-08-03
 - hydrocarbon odour: P96-8A and ETA-05-4
- P03-02-04 and P03-02-05 are screened in the aquifer; however, sample water was noted to be black in colour (June) or dark grey (September), it was not confirmed whether the sediment was natural or tailings material.
- X21-96 C has tailings in monitoring well

7. Closure

The report is meant to provide a summary of 2006 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. 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, Faro Mine Closure Planning Office, and Environment Canada (Environmental Protection Branch).

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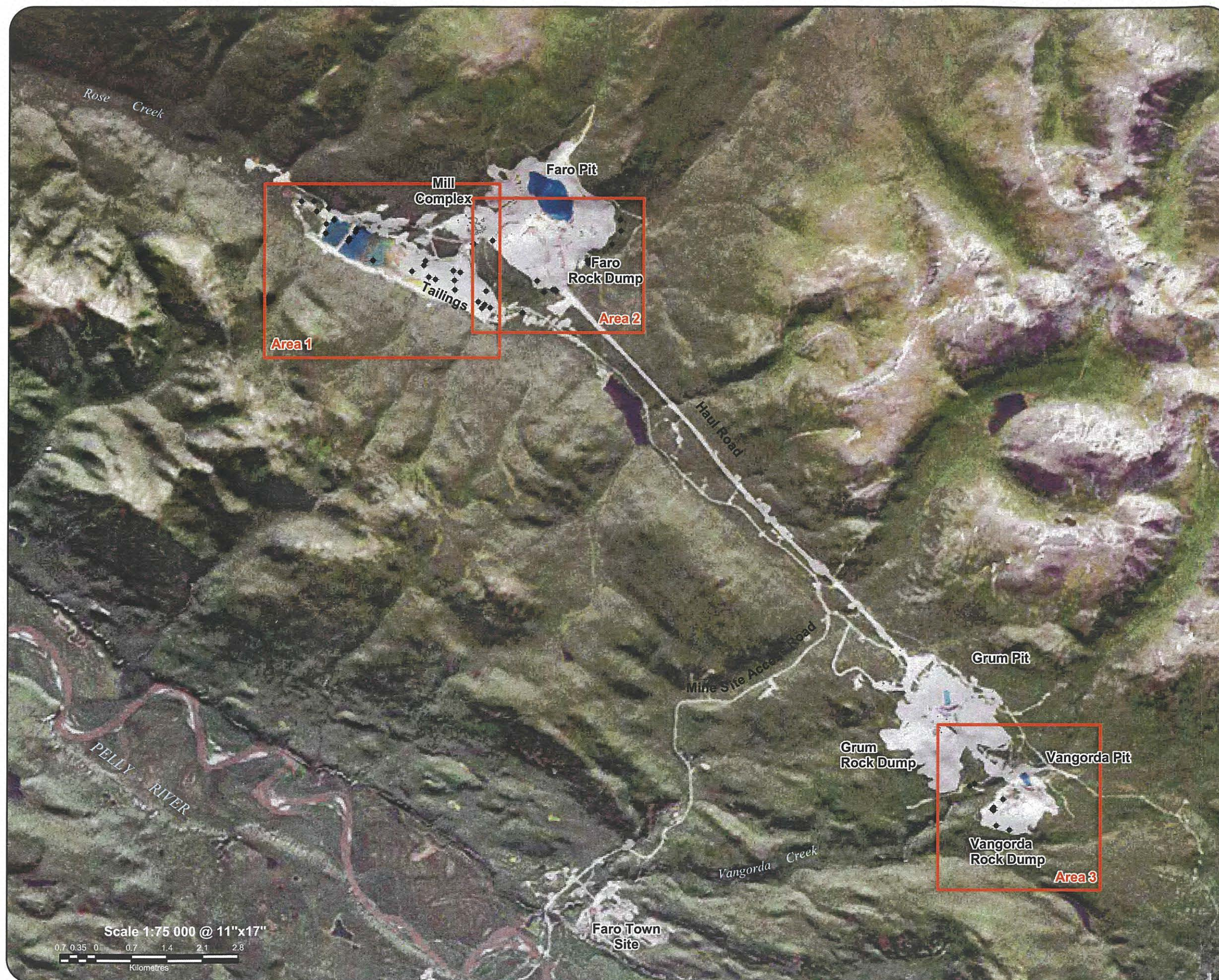
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Figures





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 2006

Project Number: 60601

File Name: Fig1_60601_rpt_Dec13_2006.mxd

Revision: 0

Deloitte & Touche Inc.
2006 Groundwater Sampling

Faro Mine Site
Faro, Yukon



Legend

- ◆ Drive Points
- ◆ Conventional Well (2005)
- ◆ Conventional Well (<2005)
- ◆ Decommissioned (2005)
- ◆ Multilevel Well (2005)
- ◆ Multilevel Well (<2005)

Well Access Routes

- Foot
- - - - - ATV
- Truck
- Index Contours (10m)
- - - - - Impoundment (original)

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 2006

Project Number: 60601

File Name: Fig2_60601_rpt_Dec13_2006.mxd

Revision: 0

Deloitte & Touche Inc.
2006 Groundwater Sampling

Area 2 – Faro Rock Dump Area
Faro, Yukon



Legend

- ◆ Drive Points
- ◆ Conventional Well (2005)
- ◆ Conventional Well (<2005)
- ◆ Decommissioned (2005)
- ◆ Multilevel Well (2005)
- ◆ Multilevel Well (<2005)

Well Access Routes

- Foot
- - - - - ATV
- Truck
- Index Contours (10m)
- - - - - Impoundment (original)

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 2006

Project Number: 60601

File Name: Fig3_60601_rpt_Dec13.mxd

Revision: 1

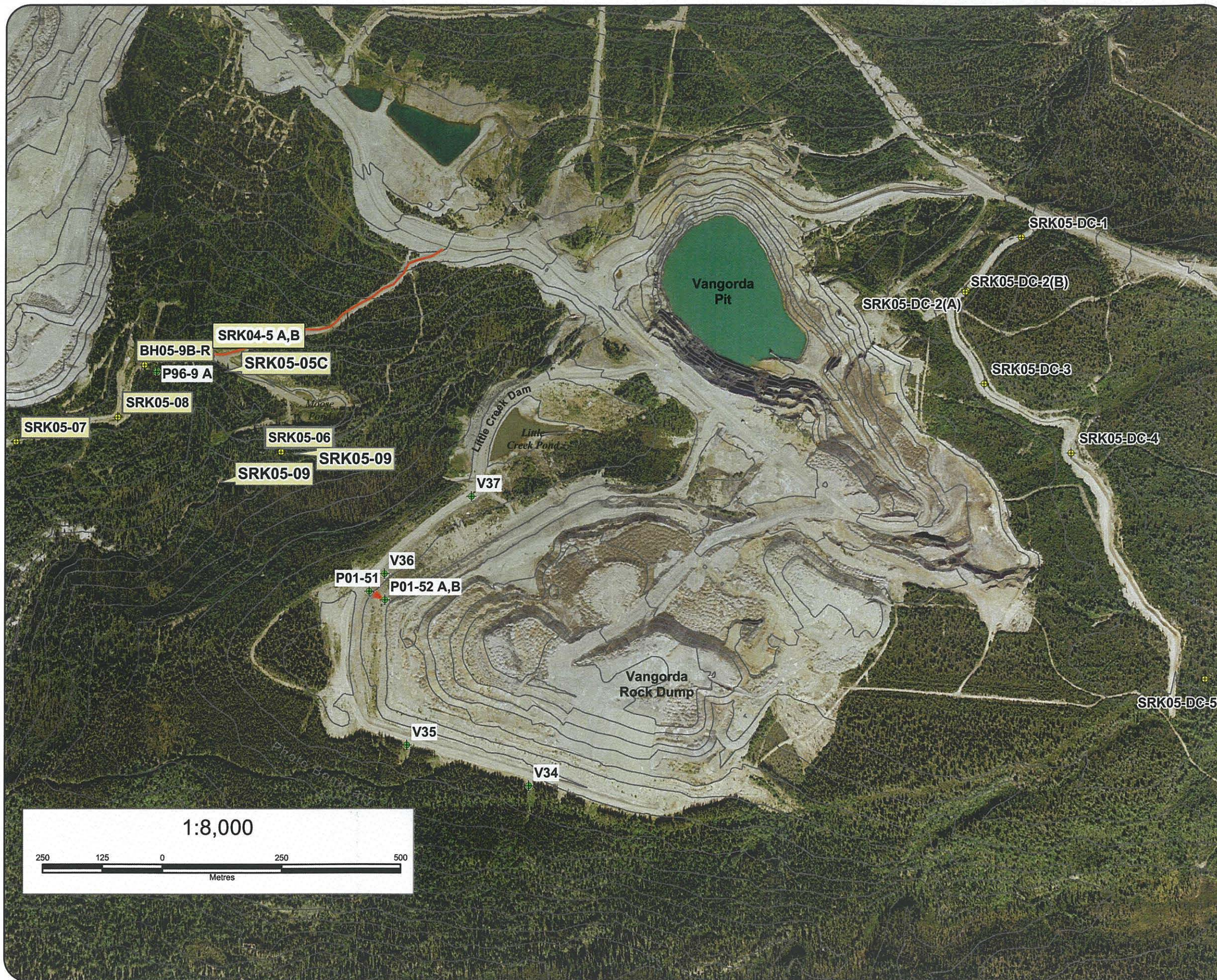
Deloitte & Touche Inc.
2006 Groundwater Sampling

Area 2 – Faro Rock Dump Area
Faro, Yukon

 Gartner Lee

Figure No.

3



Legend

- Drive Points
- Conventional Well (2005)
- Conventional Well (<2005)
- Decommissioned (2005)
- Multilevel Well (2005)
- Multilevel Well (<2005)

Well Access Routes

- Foot
- ATV
- Truck
- Index Contours (10m)
- Impoundment (original)

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 2006

Project Number: 60601

File Name: Fig4_60601_rpt_Dec13.mxd

Revision: 1

Deloitte & Touche Inc.
2006 Groundwater Sampling

Area 3 – Grum and Vangorda Area
Faro, Yukon

Tables



Table 1. Summary of 2006 Sampling Activities

Sampling Date Well ID	June June 5 - 16	August * August 1 - 3	September Sept 17 - 24	November * Oct 31 - Nov 2
P01-01A	X		X	
P01-01B	X		X	
P01-02A	X		X	
P01-02B	X		X	
P01-03	X		X - S	
P01-04A	frozen		X	
P01-04B	frozen		X	
P01-11	X		X	
P01-51	X		X	
P01-52A	X		X	
P01-52B	X		X	
X16A	X		X	
X16B	X		X	
X17A	X		X	
X17B	X - R		X	
X18A	X		X	
X18B	X		X	
X21A-96	X		X	
X21B-96	X		X	
X21C-96	X		X	
X24A-96	X	NS - clogged ft-valve	X	X
X24B-96	NS - sand heave	NS - sand heave	NS - sand heave	NS - sand heave
X24C-96	NS - blocked	NS - blocked	NS - blocked	NS - water froze in tube
X24D-96	X - R	X	X	X
X25A	X	X	X	X
X25B	X	X	X	X
BH1	X		X	
BH2	X		X	
BH4	X		X	
BH6			X	
BH7S			X - casing shifting	
BH7D			NS - blocked	
BH10A			NS - angled, valve clog	
BH10B			NS - angled, valve clog	
BH12A	X		X - S	
BH12B	X		X	
BH13A	frozen		NS - no recharge	
BH13B	frozen		X	
BH14A	X		X	
BH14B	X		X - S	
BH05-01	dry		dry	
BH05-9B-R	frozen	X	X	
P96-6	X		X	
P96-7	X		X	
P96-8A	frozen		X	
P96-8B	frozen		X	
P96-9A	X - R		X - S	
P96-9B	X			
V34	X		X	
V35	X		X	
V36	X		X	
V37	X		X	

Table 1. Summary of 2006 Sampling Activities

Sampling Date Well ID	June June 5 - 16	August * August 1 - 3	September Sept 17 - 24	November * Oct 31 - Nov 2
S1A	X		X	
S1B	X		X	
S2A	X		X	
S2B	X		X	
S3	X		X	
TH86-17	X		X	
P05-02	X		X	
P05-03	X		X	
P05-04	X - R		X	
SRK04-3A	X - R		X - S - valve in well	
SRK04-3B	X		X	
SRK04-05A	X - artesian		X - artesian	
SRK04-05B	X - artesian		X - artesian	
SRK05-SP-1A	X		X	
SRK05-SP-1B	X		X	
SRK05-SP-2	X		X	
SRK05-SP-3A	X - R		X	
SRK05-SP-3B	X		X	
SRK05-SP-4A	X		X	
SRK05-SP-4B	X		X - S	
SRK05-SP-5	X		X	
SRK05-SP-6	dry		dry	
SRK05-ETA-BR1	X		X	
SRK05-ETA-BR2	X		X	
ETA-05-4	X		X	
SRK05-05C	NS		X	
SRK05-06	X		X	
SRK05-07	insuff. Volume		X	
SRK05-08	X		X	
SRK05-09	X		X	
NA05-2S			X	
NA05-2D			X	
NA05-9S			dry	
NA05-9D			X	
NA05-11A			X	
DP4	X		X	
DP5	X		X	
DP6			NS - wL's only	
P03-01-01	X - R		X	
P03-01-02	X		X	
P03-01-03	X		X	
P03-01-04	X		X	
P03-01-05	X		X	
P03-01-06	X		X	
P03-01-07	X - no chem. analysis		X - S	
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	
P03-02-04	X		X	
P03-02-05	X		X	

Table 1. Summary of 2006 Sampling Activities

Sampling Date Well ID	June June 5 - 16	August * August 1 - 3	September Sept 17 - 24	November * Oct 31 - Nov 2
P03-02-06	X - chemical rxn		NS	
P03-02-07	X		X	
P03-02-08	X		X	
P03-02-09	X		X	
P03-03-01	X - R		X	
P03-03-02	X		X	
P03-03-03	X		X - S	
P03-03-04	X		X	
P03-03-05	X		X	
P03-03-06	X		X	
P03-03-07	NS - previous chem rxn		NS	
P03-03-08	X		X	
P03-03-09	X		X	
P03-04-01	X		X	
P03-04-02	X	X	X	X
P03-04-03	X		X	
P03-04-04	X	X	X	X - S
P03-04-05	X		X	
P03-04-06	X	X	X	X
P03-04-07	X		X	
P03-04-08	X		X	
P03-04-09	X		X - GC only (~250 mL)	
P03-05-01	X		NS	X
P03-05-02	X		NS	X
P03-05-03	X		NS	X
P03-05-04	X		NS	NS
P03-05-05	X		NS	X
P03-05-06	X		NS	X
P03-05-07	X		NS	X
P03-05-08	X		NS	X
P03-06-01	X		X	
P03-06-02	X - R		X	
P03-06-03	X		X	
P03-06-04	X		X	
P03-06-05	X		X	
P03-06-06	X		NS - water blocked	
P03-06-07	frozen/dry?		dry	
P03-07-01	NS		NS	
P03-07-02	X		X	
P03-07-03	NS		NS	
P03-07-04	NS		NS	
P03-07-05	NS		X - S	
P03-07-06	NS		NS	
P03-07-07	NS		NS	
P03-07-08	NS		NS	
P03-08-01	X		X	
P03-08-02	X	X	X	X
P03-08-03	X	X - S	X	X - S
P03-08-04	X	X	X	X
P03-08-05	X	X	X	X
P03-08-06	X		X	
P03-08-07	X		X	

Table 1. Summary of 2006 Sampling Activities

Sampling Date Well ID	June June 5 - 16	August * August 1 - 3	September Sept 17 - 24	November * Oct 31 - Nov 2
P03-08-08	X		X - S	
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 - R		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	X	
P05-01-02	frozen	X	X	
P05-01-03	frozen	X	X	
P05-01-04	frozen	X	X	
P05-01-05	frozen	X	X	
P05-01-06	X	X	X	

* = sampling for adaptive management plan (AMP)

X = well was sampled

NS = well not sampled

Bold = well screened in tailings

R = replicate sample

S = split sample

Table 2. Summary of Available Conventional and Multi-Level Well Construction Details

Well ID	Northing	Easting	Material	Stickup (m)	Total Depth (m btoc)	Ground Elevation (m asl)	Top of Screen (m asl)	Bottom of Screen (m asl)	Top of Screen (m bgs)	Bottom of Screen (m bgs)	Formation
BH05-01				0.91	4.72				1.83	3.81	
BH05-9B-R	6903172.00	592747.00	2" PVC	1.08	19.68	1099.98	1084.48	1081.38	15.5	18.6	
BH1			1" PVC	0.08	5.28						
BH10A	6913532.57	585190.39	1" PVC	0.86	37.44	1100.97	1076.61	1064.39	24.36	36.58	
BH10B	6913532.58	585190.50	1" PVC	0.86	55.72	1100.97	1058.30	1046.13	42.67	54.84	
BH12A			2" PVC	0.67	3.72				1.53	3.05	BR
BH12B			2" PVC	0.78	9.01				6.71	8.23	BR
BH13A			2" PVC	0.41	4.22				2.29	3.81	A
BH13B			2" PVC	0.68	8.91				6.71	8.23	BR
BH14A			2" PVC	0.19	20.69				18.98	20.5	BR
BH14B			2" PVC	0.83	33.22				28.98	30.5	BR
BH2	6913522.66	585205.87	1" PVC	0.66	5.49						
BH4	6913467.09	585247.14	1" PVC	0.72	3.19						
BH5	6913377.02	585194.00	2" PVC	0.46	7.5	1095.11	1089.62	1087.49	5.49	7.62	A
BH6	6913466.28	585198.23	2" PVC	0.76	6.7	1097.08	1092.81	1090.83	4.27	6.25	A
BH7D	6913538.98	585232.07	2" PVC	0.94	9.28	1099.76	1093.05	1090.92	6.71	8.84	BR
BH7S	6913539.83	585232.14	2" PVC	1.35	6.95	1099.81	1095.54	1093.41	4.27	6.4	A
DP1	6912887.00	584630.00							1.14	1.14	
DP2	6912904.00	584554.00							0.53	0.53	
DP3	6912901.00	584514.00							0.75	0.75	
DP4	6912911.00	584535.00	1" teflon/steel						0.94	0.94	
DP5	6913450.41	585260.21	1/2" teflon/steel								
DP6	6913354.72	585214.41	steel								
ETA-05-4	6913858.00	583045.00	2" PVC			1104.51			2.6		
MW1	6914282.40	580153.58	2" PVC	0.66	18.33	1016.31	1014.36/1004.12	1006.57/998.64	1.95/12.19	9.74/17.67	
MW2	6914200.09	580100.05	2" PVC	0.78	15.67	1017.45	1015.26	1002.56	2.19	14.89	
NA05-11A			2" PVC								
NA05-2D	6913517.85	581860.11	2" PVC	0.31		1051.82					
NA05-2S	6913522.39	581860.30	2" PVC	0.22		1051.89					
NA05-9D	6912640.91	582920.89	2" PVC	0.83		1059.99					
NA05-9S	6912642.49	582918.45	2" PVC	0.62		1059.95					
P01-01A	6914675.00	579819.30	2" PVC	0.48	21.84	1015.38	995.58	994.02	19.8	21.36	A
P01-01B	6914675.00	579819.30	2" PVC	0.48	35.78	1015.38	981.60	980.08	33.78	35.3	A
P01-02A	6914044.00	580050.70	2" PVC	0.7	14.76	1019.03	1006.49	1004.97	12.54	14.06	A
P01-02B	6914044.00	580050.70	2" PVC	0.68	29.08	1019.03	992.15	990.63	26.88	28.4	A
P01-03	6914071.00	580638.70	2" PVC	0.56	9.86	1031.65	1023.87	1022.35	7.78	9.3	A
P01-04A	6913893.00	580495.80	2" PVC	0.51	34.56	1031.39	998.86	997.34	32.53	34.05	A
P01-04B	6913893.00	580495.80	2" PVC	0.5	53.91	1031.39	979.50	977.98	51.89	53.41	A
P01-11	6914306.00	580214.40	2" PVC	0.55	11.22	1017.28	1008.13	1006.61	9.15	10.67	A
P03-01-01	6912580.29	583301.28	5/8" OD HDPE	0.53	47.31	1060.58	1014.099	1013.7942	46.48	46.79	A

Table 2. Summary of Available Conventional and Multi-Level Well Construction Details

Well ID	Northing	Easting	Material	Stickup (m) [*]	Total Depth (m btoc)	Ground Elevation (m asl)	Top of Screen (m asl)	Bottom of Screen (m asl)	Top of Screen (m bgs)	Bottom of Screen (m bgs)	Formation
P03-01-02	6912580.29	583301.28	5/8" OD HDPE	0.53	39.39	1060.59	1022.03	1021.82	38.56	38.86	A
P03-01-03	6912580.29	583301.28	5/8" OD HDPE	0.53	31.16	1060.58	1030.2534	1029.9486	30.33	30.63	A
P03-01-04	6912580.29	583301.28	5/8" OD HDPE	0.53	25.06	1060.58	1036.3494	1036.0446	24.23	24.54	A
P03-01-05	6912580.29	583301.28	5/8" OD HDPE	0.53	18.97	1060.58	1042.4454	1042.1406	18.14	18.44	A
P03-01-06	6912580.29	583301.28	5/8" OD HDPE	0.53	13.78	1060.58	1047.627	1047.3222	12.95	13.26	A
P03-01-07	6912580.29	583301.28	5/8" OD HDPE	0.53	11.35	1060.58	1050.0654	1049.7606	10.52	10.82	A
P03-01-08	6912580.29	583301.28	5/8" OD HDPE	0.53	9.82	1060.58	1051.5894	1051.2846	8.99	9.30	T
P03-01-09	6912580.29	583301.28	5/8" OD HDPE	0.53	8.30	1060.58	1053.1134	1052.8086	7.47	7.77	T
P03-02-01	6912572.26	583134.72	5/8" OD HDPE	0.69	34.52	1059.91	1026.377	1026.0722	33.53	33.83	A
P03-02-02	6912572.26	583134.72	5/8" OD HDPE	0.69	31.17	1059.91	1029.7298	1029.425	30.18	30.48	A
P03-02-03	6912572.26	583134.72	5/8" OD HDPE	0.69	23.55	1059.91	1037.3498	1037.045	22.56	22.86	A
P03-02-04	6912572.26	583134.72	5/8" OD HDPE	0.69	17.46	1059.91	1043.4458	1043.141	16.46	16.76	A
P03-02-05	6912572.26	583134.72	5/8" OD HDPE	0.69	14.41	1059.91	1046.4938	1046.189	13.41	13.72	A
P03-02-06	6912572.26	583134.72	5/8" OD HDPE	0.69	13.49	1059.91	1047.4082	1047.1034	12.50	12.80	A
P03-02-07	6912572.26	583134.72	5/8" OD HDPE	0.69	12.58	1059.91	1048.3226	1048.0178	11.58	11.89	T
P03-02-08	6912572.26	583134.72	5/8" OD HDPE	0.69	9.53	1059.91	1051.3706	1051.0658	8.53	8.84	T
P03-02-09	6912572.26	583134.72	5/8" OD HDPE	0.69	8.31	1059.91	1052.5898	1052.285	7.32	7.62	T
P03-03-01	6912698.18	583068.11	5/8" OD HDPE	0.82	43.79	1060.67	1018	1017.6952	42.67	42.98	A
P03-03-02	6912698.18	583068.11	5/8" OD HDPE	0.82	34.04	1060.67	1027.7536	1027.4488	32.92	33.22	A
P03-03-03	6912698.18	583068.11	5/8" OD HDPE	0.82	27.94	1060.67	1033.8496	1033.5448	26.82	27.13	A
P03-03-04	6912698.18	583068.11	5/8" OD HDPE	0.82	23.07	1060.67	1038.7264	1038.4216	21.95	22.25	A
P03-03-05	6912698.18	583068.11	5/8" OD HDPE	0.82	19.41	1060.67	1042.384	1042.0792	18.29	18.59	A
P03-03-06	6912698.18	583068.11	5/8" OD HDPE	0.82	17.89	1060.67	1043.908	1043.6032	16.76	17.07	A
P03-03-07	6912698.18	583068.11	5/8" OD HDPE	0.82	16.06	1060.67	1045.7368	1045.432	14.94	15.24	T
P03-03-08	6912698.18	583068.11	5/8" OD HDPE	0.82	13.01	1060.67	1048.7848	1048.48	11.89	12.19	T
P03-03-09	6912698.18	583068.11	5/8" OD HDPE	0.82	9.96	1060.67	1051.8328	1051.528	8.84	9.14	T
P03-04-01	6913185.77	582084.65	5/8" OD HDPE	0.78	58.99	1060.43	1002.517	1002.2122	57.91	58.22	A
P03-04-02	6913185.77	582084.65	5/8" OD HDPE	0.78	48.33	1060.43	1013.185	1012.8802	47.24	47.55	A
P03-04-03	6913185.77	582084.65	5/8" OD HDPE	0.78	42.23	1060.43	1019.281	1018.9762	41.15	41.45	A
P03-04-04	6913185.77	582084.65	5/8" OD HDPE	0.78	35.83	1060.43	1025.6818	1025.377	34.75	35.05	A
P03-04-05	6913185.77	582084.65	5/8" OD HDPE	0.78	26.84	1060.43	1034.6734	1034.3686	25.76	26.06	A
P03-04-06	6913185.77	582084.65	5/8" OD HDPE	0.78	18.15	1060.43	1043.3602	1043.0554	17.07	17.37	A
P03-04-07	6913185.77	582084.65	5/8" OD HDPE	0.78	16.32	1060.43	1045.189	1044.8842	15.24	15.54	A
P03-04-08	6913185.77	582084.65	5/8" OD HDPE	0.78	14.49	1060.43	1047.0178	1046.713	13.41	13.72	T
P03-04-09	6913185.77	582084.65	5/8" OD HDPE	0.78	13.58	1060.43	1047.9322	1047.6274	12.50	12.80	T
P03-05-01	6912934.16	582604.60	5/8" OD HDPE	0.84	45.34	1059.59	1015.392	1015.0872	44.20	44.50	A
P03-05-02	6912934.16	582604.60	5/8" OD HDPE	0.84	37.72	1059.59	1023.012	1022.7072	36.58	36.88	A
P03-05-03	6912934.16	582604.60	5/8" OD HDPE	0.84	28.58	1059.59	1032.156	1031.8512	27.43	27.74	A
P03-05-04	6912934.16	582604.60	5/8" OD HDPE	0.84	24.31	1059.59	1036.4232	1036.1184	23.16	23.47	A
P03-05-05	6912934.16	582604.60	5/8" OD HDPE	0.84	22.48	1059.59	1038.252	1037.9472	21.34	21.64	A

Table 2. Summary of Available Conventional and Multi-Level Well Construction Details

Well ID	Northing	Easting	Material	Stickup (m)*	Total Depth (m btoc)	Ground Elevation (m asl)	Top of Screen (m asl)	Bottom of Screen (m asl)	Top of Screen (m bgs)	Bottom of Screen (m bgs)	Formation
P03-05-06	6912934.16	582604.60	5/8" OD HDPE	0.84	19.44	1059.59	1041.3	1040.9952	18.29	18.59	T
P03-05-07	6912934.16	582604.60	5/8" OD HDPE	0.84	14.86	1059.59	1045.872	1045.5672	13.72	14.02	T
P03-05-08	6912934.16	582604.60	5/8" OD HDPE	0.84	11.82	1059.59	1048.92	1048.6152	10.67	10.97	T
P03-06-01	6913308.75	582572.89	5/8" OD HDPE	0.87	26.77	1061.93	1036.3218	1036.017	25.60	25.91	A
P03-06-02	6913308.75	582572.89	5/8" OD HDPE	0.87	23.73	1061.93	1039.3698	1039.065	22.56	22.86	A
P03-06-03	6913308.75	582572.89	5/8" OD HDPE	0.87	20.68	1061.93	1042.4178	1042.113	19.51	19.81	A
P03-06-04	6913308.75	582572.89	5/8" OD HDPE	0.87	17.33	1061.93	1045.7706	1045.4658	16.15	16.46	A
P03-06-05	6913308.75	582572.89	5/8" OD HDPE	0.87	15.19	1061.93	1047.9042	1047.5994	14.02	14.33	A
P03-06-06	6913308.75	582572.89	5/8" OD HDPE	0.87	13.36	1061.93	1049.733	1049.4282	12.19	12.50	T
P03-06-07	6913308.75	582572.89	5/8" OD HDPE	0.87	11.84	1061.93	1051.257	1050.9522	10.67	10.97	T
P03-07-01	6913278.55	582710.26	5/8" OD HDPE	0.78	39.18	1064.21	1026.107	1025.8022	38.10	38.40	A
P03-07-02	6913278.55	582710.26	5/8" OD HDPE	0.78	34.61	1064.21	1030.679	1030.3742	33.53	33.83	A
P03-07-03	6913278.55	582710.26	5/8" OD HDPE	0.78	29.73	1064.21	1035.5558	1035.251	28.65	28.96	A
P03-07-04	6913278.55	582710.26	5/8" OD HDPE	0.78	22.42	1064.21	1042.871	1042.5662	21.34	21.64	A
P03-07-05	6913278.55	582710.26	5/8" OD HDPE	0.78	20.89	1064.21	1044.395	1044.0902	19.81	20.12	A
P03-07-06	6913278.55	582710.26	5/8" OD HDPE	0.78	19.06	1064.21	1046.2238	1045.919	17.98	18.29	T
P03-07-07	6913278.55	582710.26	5/8" OD HDPE	0.78	17.54	1064.21	1047.7478	1047.443	16.46	16.76	T
P03-07-08	6913278.55	582710.26	5/8" OD HDPE	0.78	14.49	1064.21	1050.7958	1050.491	13.41	13.72	T
P03-08-01	6913514.31	580980.35	5/8" OD HDPE	0.88	33.49	1047.47	1015.1652	1014.8604	32.31	32.61	A
P03-08-02	6913514.31	580980.35	5/8" OD HDPE	0.88	29.22	1047.47	1019.4324	1019.1276	28.04	28.35	A
P03-08-03	6913514.31	580980.35	5/8" OD HDPE	0.88	25.57	1047.47	1023.09	1022.7852	24.38	24.69	A
P03-08-04	6913514.31	580980.35	5/8" OD HDPE	0.88	24.04	1047.47	1024.614	1024.3092	22.86	23.16	A
P03-08-05	6913514.31	580980.35	5/8" OD HDPE	0.88	22.52	1047.47	1026.138	1025.8332	21.34	21.64	A
P03-08-06	6913514.31	580980.35	5/8" OD HDPE	0.88	20.99	1047.47	1027.662	1027.3572	19.81	20.12	T
P03-08-07	6913514.31	580980.35	5/8" OD HDPE	0.88	17.95	1047.47	1030.71	1030.4052	16.76	17.07	T
P03-08-08	6913514.31	580980.35	5/8" OD HDPE	0.88	14.90	1047.47	1033.758	1033.4532	13.72	14.02	T
P03-09-01	6914228.89	580065.39	5/8" OD HDPE	0.69	35.74	1017.82	983.0748	982.77	34.75	35.05	A
P03-09-02	6914228.89	580065.39	5/8" OD HDPE	0.69	33.00	1017.82	985.818	985.5132	32.00	32.31	A
P03-09-03	6914228.89	580065.39	5/8" OD HDPE	0.69	27.82	1017.82	990.9996	990.6948	26.82	27.13	A
P03-09-04	6914228.89	580065.39	5/8" OD HDPE	0.69	24.46	1017.82	994.3524	994.0476	23.47	23.77	A
P03-09-05	6914228.89	580065.39	5/8" OD HDPE	0.69	22.63	1017.82	996.1812	995.8764	21.64	21.95	A
P03-09-06	6914228.89	580065.39	5/8" OD HDPE	0.69	19.59	1017.82	999.2292	998.9244	18.59	18.90	A
P03-09-07	6914228.89	580065.39	5/8" OD HDPE	0.69	14.10	1017.82	1004.7156	1004.4108	13.11	13.41	A
P03-09-08	6914228.89	580065.39	5/8" OD HDPE	0.69	10.14	1017.82	1008.678	1008.3732	9.14	9.45	A
P03-09-09	6914228.89	580065.39	5/8" OD HDPE	0.69	8.31	1017.82	1010.5068	1010.202	7.32	7.62	A
P05-01-01	6914334.95	580165.03	5/8" OD HDPE	0.68	26.13	1017.32	992.17	991.87	25.15	25.45	A
P05-01-02	6914334.95	580165.03	5/8" OD HDPE	0.68	20.50	1017.32	997.65	997.50	19.67	19.82	A
P05-01-03	6914334.95	580165.03	5/8" OD HDPE	0.68	17.45	1017.32	1000.70	1000.55	16.62	16.77	A
P05-01-04	6914334.95	580165.03	5/8" OD HDPE	0.68	11.96	1017.32	1006.19	1006.04	11.13	11.28	A
P05-01-05	6914334.95	580165.03	5/8" OD HDPE	0.68	6.16	1017.32	1011.99	1011.84	5.33	5.48	A

Table 2. Summary of Available Conventional and Multi-Level Well Construction Details

Well ID	Northing	Easting	Material	Stickup (m)*	Total Depth (m btoc)	Ground Elevation (m asl)	Top of Screen (m asl)	Bottom of Screen (m asl)	Top of Screen (m bgs)	Bottom of Screen (m bgs)	Formation
P05-01-06	6914334.95	580165.03	5/8" OD HDPE	0.68	4.03	1017.32	1014.12	1013.97	3.20	3.35	A
P05-02	6914264.65	580143.50	2" PVC	0.93	6.11	1015.74					
P05-03	6914171.02	580087.57	2" PVC	0.85	8.47	1018.94	1015.50	1011.32	3.44	7.62	
P05-04	6913474.89	585223.74	2" PVC	0.67	7.01	1097.03	1094.84	1090.69	2.19	6.34	
P96-6			2" PVC	0.68	17.53						
P96-7			2" PVC	0.71	9.88						
P96-8A			2" PVC								
P96-8B			2" PVC								
P96-9A			2" PVC		9.32						
P2001-02A			2" PVC	0.32	13.93						
P2001-02B			2" PVC	0.32	27.32						
P2001-03			2" PVC	0.67							
RGC-PW1	6914285.84	580156.72	8.25" steel	0.91	21.99	1016.40	1012.21/1000.02	1010.61/996.81	4.19/16.38	5.79/19.59	
RGC-PW2	6914195.07	580097.78	8.25" steel	0.77	17.68	1017.87	1013.68	1002.48	4.19	15.39	
RGC-PW3	6913471.37	585218.51	6" steel	0.95		1096.97					
S1A			2" PVC	1.14	13.1						
S1B			2" PVC	1.31	5.1						
S2A			2" PVC	1.3	12.53						
S2B			2" PVC	1.58	8.6						
S3			2" PVC	1.74	6.57						
SRK04-4	6913837.52	582977.50	4" PVC	0.51	12.11	1104.29	1096.65	1092.69	7.64	11.6	
SRK04-3A	6913824.00	582977.00	2" PVC								
SRK04-3B	6913824.00	582977.00	2" PVC								
SRK04-5A											
SRK04-5B											
SRK05-05C	6903208.47	592872.92	1.5" PVC	0.94	3.94	1103.14	1101.64	1100.14	1.5	3	
SRK05-06	6902990.75	593032.12	1.5" PVC	0.76	3.46	1073.07	1072.37	1070.37	0.7	2.7	
SRK05-07	6903011.39	592477.21	2" PVC	0.78	6.58	1106.52	1105.77	1100.72	0.75	5.8	
SRK05-08	6903063.17	592690.13	2" PVC	0.77	8.37	1104.48	1102.38	1096.88	2.1	7.6	
SRK05-09	6902985.94	593058.50	1.5" PVC						0.5	3.5	
SRK05-ETA-BR1	6913846.00	582972.00	1" PVC						9	12	
SRK05-ETA-BR2	6913825.00	582987.00	1" PVC						14.6	18.9	
SRK05-SP-1A	6912901.00	584727.00	2" PVC	0.85	20.05	1091.13	1104.83	1110.33	13.7	19.2	
SRK05-SP-1B	6912901.00	584726.00	2" PVC	0.9	13.2	1091.04	1100.04	1103.34	9	12.3	
SRK05-SP-2	6912861.00	584791.00	2" PVC	0.7	11.7	1086.01	1078.11	1075.01	7.9	11	
SRK05-SP-3A	6912924.00	584651.00	2" PVC	0.9	23.8	1087.60	1070.20	1065.70	17.4	21.9	
SRK05-SP-3B	6912924.00	584652.00	2" PVC	0.79	13.09	1087.62	1079.32	1076.22	8.3	11.4	
SRK05-SP-4A	6912939.00	584612.00	2" PVC	0.75	22.35	1086.51	1070.01	1065.51	16.5	21	
SRK05-SP-4B	6912939.00	584611.00	2" PVC	0.93	4.93	1086.51	1085.91	1083.01	0.6	3.5	
SRK05-SP-5	6912956.00	584576.00	2" PVC		14	1086.57	1077.17	1074.07	9.4	12.5	

Table 2. Summary of Available Conventional and Multi-Level Well Construction Details

Well ID	Northing	Easting	Material	Stickup (m)*	Total Depth (m btoc)	Ground Elevation (m asl)	Top of Screen (m asl)	Bottom of Screen (m asl)	Top of Screen (m bgs)	Bottom of Screen (m bgs)	Formation
SRK05-SP-6	6912975.00	584492.00	2" PVC	0.86	11.86	1096.88	1093.78	1085.88	3.1	11	
TH86-17	6912488.55	583943.22	2" steel	1.06	14.93						
V34	6909782.32	588945.53	2" PVC	0.58	13.08	1116.87					BR
V35	6910008.16	58810.97	2" PVC	0.53	16.03	1116.88					A
V36	6910306.67	589020.49	2" PVC	0.63	12.53	1117.80					A
V37	6910310.05	599261.93	2" PVC	0.69	14.79	1115.48					A
X16A	6914672.23	579573.93		0.5	6.5	1015.91	1012.91	1009.91	3	6	A
X16B	6914672.23	579573.93	4" dia.	0.1	34.1	1015.91	995.91	981.91	20	34	A
X17A	6914474.54	579874.27		1.15	7.35	1014.30	1009.80	1008.10	4.5	6.2	A
X17B	6914474.54	579874.27	4" dia.	0.59	25.59	1014.30	997.30	989.30	17	25	A
X18A	6914539.11	580105.49	ABS riser	0.62	11.22	1018.97	1010.17	1008.37	8.8	10.6	A
X18B	6914539.11	580105.49	ABS riser	0.68	23.48	1018.97	1002.37	996.17	16.6	22.8	A
X21A-96	6913416.70	581989.30	1" PVC	0.69	9.22	1051.40	1048.97	1042.87	2.43	8.53	T
X21B-96	6913416.70	581989.30	2" PVC	0.74	15.43	1051.40	1039.76	1036.71	11.64	14.69	A
X21C-96	6913416.70	581989.30	2" PVC	0.81	30.18	1051.40	1023.54	1022.03	27.86	29.37	A
X24A-96	6914123.80	580654.80	2"/no screen	0.8	7.28	1032.30	1025.88	1025.82	6.46	6.48	A
X24B-96	6914123.80	580654.80	2" PVC	0.75	12.05	1032.30	1022.50	1021.00	9.8	11.3	A
X24C-96	6914123.80	580654.80	1" PVC	0.7	17.17	1032.30	1017.33	1015.83	14.97	16.47	A
X24D-96	6914123.80	580654.80	2" PVC	0.7	29.04	1032.20	1005.46	1003.96	26.84	28.34	A
X25A-96	6913945.40	580519.30	2" PVC	0.68		1031.40	1023.96	1022.43	7.44	8.97	A
X25B-96	6913945.40	580519.30	2" PVC	0.63		1031.40	1013.70	1012.23	17.7	19.17	A

notes:

* for multi-level wells, this corresponds to the elevation of the PVC centre stalk

A = aquifer or natural soil, BR = bedrock, T = tailings

blank spaces indicate relevant information was not found in reviewed documents

Table 3. Summary of 2006 Quality Assurance (QA/QC) Samples

Sample ID	Sampling Date	Sampling Time	pH	Specific Conductance (uS/cm)	Temp C	Sample Type
X17B-R	08-Jun-06	17:14	6.98	918	4.2	Replicate
X24D-96-R	09-Jun-06	11:47	6.56	2825	5.5	Replicate
P96-9A-R	07-Jun-06	16:50	6.86	2518	7.2	Replicate
SRK05-SP-3A-R	06-Jun-06	13:00	5.92	562	2.2	Replicate
P05-04-R	05-Jun-06	12:18	5.94	163	1.2	Replicate
SRK-04-3A-R	14-Jun-06	9:30	5.8	6600	6.1	Replicate
P03-01-01	09-Jun-06	9:30	7.05	362.1	7.4	Replicate
P03-03-01	15-Jun-06	13:55	6.74	2466	11.1	Replicate
P03-06-02	07-Jun-06	15:31	7.00	1663	7.5	Replicate
P03-09-05	06-Jun-06	12:30	6.92	546	5.9	Replicate
P03-08-03	02-Aug-06	10:20	7.22	339	5.4	Split
P01-03-S	21-Sep-06	14:53	6.73	2680	6.8	Split
BH12A-S	18-Sep-06	14:51	7.51	467.1	3.6	Split
BH14B-S	18-Sep-06	13:25	7.12	3283	7.8	Split
P96-9A-S	19-Sep-06	14:47	6.72	2870	7.5	Split
SRK-04-3A-S	22-Sep-06	16:05	6.85	706	5.7	Split
SRK05-SP4B-S	20-Sep-06	13:30	5.84	5370	5.7	Split
P03-01-07-S	21-Sep-06	15:20	6.72	1303	6.2	Split
P03-03-03-S	22-Sep-06	12:15	6.70	317.9	4.6	Split
P03-07-05-S	20-Sep-06	12:40	6.61	654	5.7	Split
P03-08-08-S	20-Sep-06	10:15	7.14	420.5	5.8	Split
P03-04-04-S	02-Nov-06	15:00	7.45	1220	1.9	Split
P03-08-03-S	01-Nov-06	16:25	7.40	730	1.4	Split

Notes:

* a replicate sample is collected as a separate sample immediately after the original sample and using new filtering equipment

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

Table 4. Summary of 2006 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	09/06/2006	8:30	5.84	1054.74
P03-01-01	0.53	1060.581	21/09/2006	16:00	6.11	1054.47
P03-01-02	0.53	1060.5872	09/06/2006	8:31	5.89	1054.70
P03-01-02	0.53	1060.5872	21/09/2006	16:01	6.145	1054.44
P03-01-03	0.53	1060.581	09/06/2006	8:32	5.88	1054.70
P03-01-03	0.53	1060.581	21/09/2006	16:02	6.135	1054.45
P03-01-04	0.53	1060.581	09/06/2006	8:33	5.89	1054.69
P03-01-04	0.53	1060.581	21/09/2006	16:03	6.15	1054.43
P03-01-05	0.53	1060.581	09/06/2006	8:34	5.91	1054.67
P03-01-05	0.53	1060.581	21/09/2006	16:05	6.16	1054.42
P03-01-06	0.53	1060.581	09/06/2006	8:35	5.88	1054.70
P03-01-06	0.53	1060.581	21/09/2006	16:06	6.145	1054.44
P03-01-07	0.53	1060.581	21/09/2006	16:07	6.13	1054.45
P03-01-08	0.53	1060.581	09/06/2006	8:37	5.98	1054.60
P03-01-08	0.53	1060.581	21/09/2006	16:08	5.99	1054.59
P03-01-09	0.53	1060.581	09/06/2006	8:38	6.00	1054.58
P03-01-09	0.53	1060.581	21/09/2006	16:10	6.01	1054.57
P03-02-01	0.69	1059.905	08/06/2006	14:05	6.01	1053.90
P03-02-01	0.69	1059.905	21/09/2006	14:30	6.24	1053.67
P03-02-02	0.69	1059.905	08/06/2006	14:06	6.01	1053.90
P03-02-02	0.69	1059.905	21/09/2006	14:30	6.23	1053.68
P03-02-03	0.69	1059.905	08/06/2006	14:07	6.01	1053.90
P03-02-03	0.69	1059.905	22/09/2006	14:31	6.24	1053.67
P03-02-04	0.69	1059.905	08/06/2006	14:08	6.02	1053.89
P03-02-04	0.69	1059.905	22/09/2006	14:32	6.24	1053.67
P03-02-05	0.69	1059.905	08/06/2006	14:09	6.07	1053.84
P03-02-05	0.69	1059.905	22/09/2006	14:33	6.31	1053.60
P03-02-06	0.69	1059.905	08/06/2006	14:10	6.07	1053.84
P03-02-07	0.69	1059.905	08/06/2006	14:11	5.57	1054.34
P03-02-07	0.69	1059.905	22/09/2006	14:34	5.78	1054.13
P03-02-08	0.69	1059.905	08/06/2006	14:12	5.63	1054.28
P03-02-08	0.69	1059.905	22/09/2006	14:35	5.68	1054.23
P03-02-09	0.69	1059.905	08/06/2006	14:13	5.63	1054.28
P03-02-09	0.69	1059.905	22/09/2006	14:35	5.64	1054.27
P03-03-01	0.82	1060.672	15/06/2006	10:50	7.10	1053.57
P03-03-01	0.82	1060.672	22/09/2006	14:38	7.36	1053.31
P03-03-02	0.82	1060.672	15/06/2006	10:51	7.20	1053.47
P03-03-02	0.82	1060.672	22/09/2006	14:39	7.465	1053.21
P03-03-03	0.82	1060.672	15/06/2006	10:52	7.15	1053.52
P03-03-03	0.82	1060.672	22/09/2006	14:40	7.40	1053.27
P03-03-04	0.82	1060.672	15/06/2006	10:53	7.16	1053.51
P03-03-04	0.82	1060.672	22/09/2006	14:41	7.40	1053.27
P03-03-05	0.82	1060.672	15/06/2006	10:54	7.16	1053.51
P03-03-05	0.82	1060.672	22/09/2006	14:43	7.42	1053.26
P03-03-06	0.82	1060.672	15/06/2006	10:55	7.19	1053.48
P03-03-06	0.82	1060.672	22/09/2006	14:45	7.41	1053.26
P03-03-08	0.82	1060.672	15/06/2006	10:57	7.00	1053.67

Table 4. Summary of 2006 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	22/09/2006	14:49	7.13	1053.54
P03-03-09	0.82	1060.672	15/06/2006	10:58	6.98	1053.69
P03-03-09	0.82	1060.672	22/09/2006	14:52	7.135	1053.54
P03-04-01	0.78	1060.429	07/06/2006	8:30	12.57	1047.86
P03-04-01	0.78	1060.429	20/09/2006	14:20	12.47	1047.96
P03-04-02	0.78	1060.429	07/06/2006	8:31	12.52	1047.91
P03-04-02	0.78	1060.429	02/08/2006	11:37	12.460	1047.97
P03-04-02	0.78	1060.429	20/09/2006	14:22	12.51	1047.92
P03-04-02	0.78	1060.429	02/11/2006	13:54	12.600	1047.83
P03-04-03	0.78	1060.429	07/06/2006	8:32	12.47	1047.96
P03-04-03	0.78	1060.429	20/09/2006	14:23	12.39	1048.04
P03-04-04	0.78	1060.429	07/06/2006	8:33	12.89	1047.54
P03-04-04	0.78	1060.429	02/08/2006	11:40	12.770	1047.66
P03-04-04	0.78	1060.429	20/09/2006	14:24	12.77	1047.66
P03-04-04	0.78	1060.429	02/11/2006	13:58	12.890	1047.54
P03-04-05	0.78	1060.429	07/06/2006	8:34	12.87	1047.56
P03-04-05	0.78	1060.429	20/09/2006	14:26	12.76	1047.67
P03-04-06	0.78	1060.429	07/06/2006	8:35	12.99	1047.44
P03-04-06	0.78	1060.429	02/08/2006	11:42	12.800	1047.63
P03-04-06	0.78	1060.429	21/09/2006	14:27	12.72	1047.71
P03-04-06	0.78	1060.429	02/11/2006	14:02	12.830	1047.60
P03-04-07	0.78	1060.429	07/06/2006	8:36	13.00	1047.43
P03-04-07	0.78	1060.429	21/09/2006	14:28	12.72	1047.71
P03-04-08	0.78	1060.429	07/06/2006	8:37	13.00	1047.43
P03-04-08	0.78	1060.429	21/09/2006	14:30	12.75	1047.68
P03-04-09	0.78	1060.429	07/06/2006	8:38	13.00	1047.43
P03-04-09	0.78	1060.429	21/09/2006	14:31	12.74	1047.69
P03-05-01	0.84	1059.588	15/06/2006	8:23	8.67	1050.92
P03-05-01	0.84	1059.588	02/11/2006	9:05	8.850	1050.74
P03-05-02	0.84	1059.588	15/06/2006	8:24	8.66	1050.93
P03-05-02	0.84	1059.588	02/11/2006	9:07	8.840	1050.75
P03-05-03	0.84	1059.588	15/06/2006	8:26	8.71	1050.88
P03-05-03	0.84	1059.588	02/11/2006	9:08	8.860	1050.73
P03-05-04	0.84	1059.588	15/06/2006	8:28	8.85	1050.74
P03-05-05	0.84	1059.588	15/06/2006	8:30	8.85	1050.74
P03-05-05	0.84	1059.588	02/11/2006	9:12	9.000	1050.59
P03-05-06	0.84	1059.588	15/06/2006	8:31	8.73	1050.86
P03-05-06	0.84	1059.588	02/11/2006	9:13	8.85	1050.74
P03-05-07	0.84	1059.588	15/06/2006	8:33	8.77	1050.82
P03-05-07	0.84	1059.588	02/11/2006	9:15	8.79	1050.80
P03-05-08	0.84	1059.588	15/06/2006	8:34	8.66	1050.93
P03-05-08	0.84	1059.588	02/11/2006	9:16	8.720	1050.87
P03-06-01	0.87	1061.925	07/06/2006	14:27	12.55	1049.38
P03-06-01	0.87	1061.925	21/09/2006	11:11	12.53	1049.40
P03-06-02	0.87	1061.925	07/06/2006	14:28	12.56	1049.37
P03-06-02	0.87	1061.925	21/09/2006	11:12	12.50	1049.43
P03-06-03	0.87	1061.925	07/06/2006	14:29	12.54	1049.39

Table 4. Summary of 2006 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)
P03-06-03	0.87	1061.925	21/09/2006	11:14	12.53	1049.40
P03-06-04	0.87	1061.925	07/06/2006	14:30	12.54	1049.39
P03-06-04	0.87	1061.925	21/09/2006	11:15	12.55	1049.38
P03-06-05	0.87	1061.925	07/06/2006	14:31	12.54	1049.39
P03-06-05	0.87	1061.925	21/09/2006	11:16	12.51	1049.42
P03-06-06	0.87	1061.925	07/06/2006	14:32	12.58	1049.35
P03-07-02	0.78	1064.207	07/06/2006	16:44	13.290	1050.92
P03-07-02	0.78	1064.207	20/09/2006	11:16	13.290	1050.92
P03-07-05	0.78	1064.207	20/09/2006	11:21	13.290	1050.92
P03-08-01	0.88	1047.474	06/06/2006	15:31	8.62	1038.85
P03-08-01	0.88	1047.474	19/09/2006	15:15	8.33	1039.14
P03-08-02	0.88	1047.474	06/06/2006	15:33	8.62	1038.85
P03-08-02	0.88	1047.474	02/08/2006	9:16	8.380	1039.09
P03-08-02	0.88	1047.474	19/09/2006	15:17	8.33	1039.14
P03-08-02	0.88	1047.474	01/11/2006	15:32	8.450	1039.02
P03-08-03	0.88	1047.474	06/06/2006	15:35	8.44	1039.03
P03-08-03	0.88	1047.474	02/08/2006	9:18	8.150	1039.32
P03-08-03	0.88	1047.474	19/09/2006	15:18	8.12	1039.35
P03-08-03	0.88	1047.474	01/11/2006	15:34	8.260	1039.21
P03-08-04	0.88	1047.474	06/06/2006	15:37	8.44	1039.03
P03-08-04	0.88	1047.474	02/08/2006	9:20	7.930	1039.54
P03-08-04	0.88	1047.474	19/09/2006	15:19	8.12	1039.35
P03-08-04	0.88	1047.474	01/11/2006	15:36	8.260	1039.21
P03-08-05	0.88	1047.474	06/06/2006	15:38	8.21	1039.26
P03-08-05	0.88	1047.474	02/08/2006	9:23	7.920	1039.55
P03-08-05	0.88	1047.474	19/09/2006	15:20	7.92	1039.55
P03-08-05	0.88	1047.474	01/11/2006	15:37	8.080	1039.39
P03-08-06	0.88	1047.474	06/06/2006	15:39	7.79	1039.68
P03-08-06	0.88	1047.474	19/09/2006	15:22	7.51	1039.96
P03-08-07	0.88	1047.474	06/06/2006	15:40	5.70	1041.77
P03-08-07	0.88	1047.474	20/09/2006	15:24	5.68	1041.79
P03-08-08	0.88	1047.474	06/06/2006	15:42	5.53	1041.94
P03-08-08	0.88	1047.474	20/09/2006	15:21	5.56	1041.91
P03-09-01	0.69	1017.822	06/06/2006	10:27	4.65	1013.17
P03-09-01	0.69	1017.822	19/09/2006	12:33	2.78	1015.04
P03-09-02	0.69	1017.822	06/06/2006	10:30	6.48	1011.34
P03-09-02	0.69	1017.822	02/08/2006	15:48	3.000	1014.82
P03-09-02	0.69	1017.822	19/09/2006	12:34	3.09	1014.73
P03-09-02	0.69	1017.822	01/11/2006	12:56	3.080	1014.74
P03-09-03	0.69	1017.822	06/06/2006	10:31	3.47	1014.35
P03-09-03	0.69	1017.822	19/09/2006	12:35	3.15	1014.67
P03-09-04	0.69	1017.822	06/06/2006	10:32	4.28	1013.54
P03-09-04	0.69	1017.822	02/08/2006	15:50	3.360	1014.46
P03-09-04	0.69	1017.822	19/09/2006	12:36	3.42	1014.40
P03-09-04	0.69	1017.822	01/11/2006	12:58	3.440	1014.38
P03-09-05	0.69	1017.822	06/06/2006	10:33	4.24	1013.58
P03-09-05	0.69	1017.822	19/09/2006	12:37	3.45	1014.37
P03-09-06	0.69	1017.822	06/06/2006	10:36	4.57	1013.25

Table 4. Summary of 2006 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)
P03-09-06	0.69	1017.822	02/08/2006	15:52	3.405	1014.42
P03-09-06	0.69	1017.822	19/09/2006	12:38	3.47	1014.35
P03-09-06	0.69	1017.822	01/11/2006	13:01	3.490	1014.33
P03-09-07	0.69	1017.822	06/06/2006	10:38	6.71	1011.11
P03-09-07	0.69	1017.822	02/08/2006	15:53	3.560	1014.26
P03-09-07	0.69	1017.822	19/09/2006	12:39	3.62	1014.20
P03-09-07	0.69	1017.822	01/11/2006	13:02	3.620	1014.20
P03-09-08	0.69	1017.822	06/06/2006	10:40	5.36	1012.46
P03-09-08	0.69	1017.822	19/09/2006	12:40	3.67	1014.15
P03-09-09	0.69	1017.822	06/06/2006	10:42	5.75	1012.07
P03-09-09	0.69	1017.822	02/08/2006	15:54	3.960	1013.86
P05-01-01	0.68	1017.32	02/08/2006	14:21	3.150	1014.17
P05-01-01	0.68	1017.32	19/09/2006	9:30	1.81	1015.51
P05-01-02	0.68	1017.32	02/08/2006	14:23	3.335	1013.99
P05-01-02	0.68	1017.32	19/09/2006	9:31	1.78	1015.54
P05-01-03	0.68	1017.32	02/08/2006	14:24	3.300	1014.02
P05-01-03	0.68	1017.32	19/09/2006	9:31	1.92	1015.40
P05-01-04	0.68	1017.32	02/08/2006	14:25	3.250	1014.07
P05-01-04	0.68	1017.32	19/09/2006	9:32	1.97	1015.35
P05-01-05	0.68	1017.32	02/08/2006	14:26	3.690	1013.63
P05-01-05	0.68	1017.32	19/09/2006	9:34	2.27	1015.05
P05-01-06	0.68	1017.32	14/06/2006	13:40	3.09	1014.23
P05-01-06	0.68	1017.32	02/08/2006	14:26	2.330	1014.99
P05-01-06	0.68	1017.32	19/09/2006	9:34	2.33	1014.99

Table 5. Summary of 2006 Water Levels for Conventional Wells, Faro Mine, Yukon

Well ID	Date	Time	Water Level Below Top of Casing (m)
BH1	05/06/2006	11:56	3.18
BH1	18/09/2006	13:50	3.50
BH2	05/06/2006	10:54	4.62
BH2	18/09/2006	15:37	4.93
BH4	05/06/2006	13:52	2.35
BH4	18/09/2006	13:10	2.54
BH6	18/09/2006	12:15	3.52
BH7S	18/09/2006	14:20	5.99
BH12A	05/06/2006	13:00	2.91
BH12A	18/09/2006	14:32	2.65
BH12B	05/06/2006	13:10	3.43
BH12B	18/09/2006	14:20	2.62
BH13B	18/09/2006	15:10	3.21
BH14A	05/06/2006	12:00	4.00
BH14A	18/09/2006	13:37	4.19
BH14B	05/06/2006	11:45	4.17
BH14B	18/09/2006	13:13	4.48
BH05-9B-R	03/08/2006	10:20	frozen
BH05-9B-R	19/09/2006	14:19	0.70
DP4	05/06/2006	12:00	-
DP5	05/06/2006	12:00	-
ETA-05-4	14/06/2006	11:16	2.90
ETA-05-4	22/09/2006	16:05	2.63
NA05-11A	23/09/2006	11:46	13.09
NA05-2D	23/09/2006	10:16	5.37
NA05-2S	23/09/2006	10:15	5.49
NA05-9D	23/09/2006	10:45	6.80
P01-01A	08/06/2006	15:15	3.93
P01-01A	22/09/2006	9:40	3.88
P01-01B	08/06/2006	15:16	3.65
P01-01B	22/09/2006	9:17	3.78
P01-02A	09/06/2006	9:49	0.85
P01-02A	22/09/2006	12:11	2.28
P01-02B	09/06/2006	9:48	2.43
P01-02B	22/09/2006	12:13	0.72
P01-03	08/06/2006	12:00	-
P01-03	21/09/2006	14:35	4.32
P01-04A	21/09/2006	9:30	3.41
P01-04B	21/09/2006	9:35	3.63
P01-11	09/06/2006	9:20	1.08
P01-11	21/09/2006	15:53	1.12
P01-51	07/06/2006	10:17	>30 m
P01-51	19/09/2006	11:20	>30 m
P01-52A	07/06/2006	10:21	4.74
P01-52A	19/09/2006	10:40	4.87
P01-52B	07/06/2006	10:23	4.83
P01-52B	19/09/2006	10:45	4.96

Table 5. Summary of 2006 Water Levels for Conventional Wells, Faro Mine, Yukon

Well ID	Date	Time	Water Level Below Top of Casing (m)
P05-02	13/06/2006	15:26	1.93
P05-02	22/09/2006	12:00	1.93
P05-03	09/06/2006	8:43	4.72
P05-03	21/09/2006	16:17	4.66
P05-04	05/06/2006	11:45	2.91
P05-04	18/09/2006	11:30	3.24
P96-6	05/06/2006	10:25	9.82
P96-7	05/06/2006	15:51	8.50
P96-7	20/09/2006	9:40	6.21
P96-8A	22/09/2006	14:03	2.87
P96-8B	22/09/2006	14:01	2.97
P96-9A	07/06/2006	16:06	5.35
P96-9A	19/09/2006	14:24	5.74
S1A	05/06/2006	17:00	3.91
S1A	20/09/2006	11:45	4.30
S1B	05/06/2006	17:47	3.53
S1B	20/09/2006	11:48	3.86
S2A	06/06/2006	9:20	4.40
S2A	20/09/2006	11:00	4.64
S2B	06/06/2006	9:20	4.48
S2B	20/09/2006	11:00	4.89
S3	05/06/2006	18:10	2.46
S3	20/09/2006	11:28	1.96
SRK04-05A	19/09/2006	17:11	artesian
SRK04-05B	19/09/2006	17:12	artesian
SRK04-3A	14/06/2006	8:57	6.85
SRK04-3A	22/09/2006	15:44	6.35
SRK04-3B	14/06/2006	8:59	6.90
SRK04-3B	22/09/2006	15:46	6.42
SRK04-5A	07/06/2006	17:15	flowing over t.o.p. @ 0.76 m
SRK04-5B	07/06/2006	17:30	flowing over t.o.p. @ 0.78 m
SRK05-05C	21/09/2006	9:45	2.00
SRK05-06	08/06/2006	10:14	1.54
SRK05-06	19/09/2006	15:36	2.35
SRK05-07	19/09/2006	13:33	6.19
SRK05-08	07/06/2006	14:52	5.41
SRK05-08	19/09/2006	13:36	5.92
SRK05-09	08/06/2006	10:36	2.10
SRK05-09	19/09/2006	16:15	3.38
SRK05-ETA-BR1	14/06/2006	12:02	7.74
SRK05-ETA-BR1	22/09/2006	14:47	6.62
SRK05-ETA-BR2	14/06/2006	10:41	5.74
SRK05-ETA-BR2	22/09/2006	15:15	4.00
SRK05-SP-1A	06/06/2006	10:40	6.80
SRK05-SP-1A	20/09/2006	13:02	7.12
SRK05-SP-1B	06/06/2006	10:40	6.98
SRK05-SP-1B	20/09/2006	15:20	7.29

Table 5. Summary of 2006 Water Levels for Conventional Wells, Faro Mine, Yukon

Well ID	Date	Time	Water Level Below Top of Casing (m)
SRK05-SP-2	06/06/2006	10:50	1.75
SRK05-SP-2	20/09/2006	15:45	2.03
SRK05-SP-3A	06/06/2006	10:30	4.47
SRK05-SP-3A	20/09/2006	13:56	4.82
SRK05-SP-3B	06/06/2006	10:30	3.67
SRK05-SP-3B	20/09/2006	13:57	4.00
SRK05-SP-4A	06/06/2006	10:20	3.84
SRK05-SP-4A	20/09/2006	13:22	4.20
SRK05-SP-4B	06/06/2006	10:20	1.35
SRK05-SP-4B	20/09/2006	13:20	1.73
SRK05-SP-5	05/06/2006	16:15	5.79
SRK05-SP-5	20/09/2006	10:20	6.17
TH86-17	06/06/2006	18:30	7.00
TH86-17	20/09/2006	16:36	8.24
V34	07/06/2006	9:01	6.46
V34	19/09/2006	9:45	6.31
V35	07/06/2006	9:33	8.88
V35	18/09/2006	10:17	8.42
V36	07/06/2006	10:27	8.81
V36	19/09/2006	11:51	9.31
V37	07/06/2006	14:16	9.05
V37	19/09/2006	12:06	8.72
X16A	08/06/2006	13:50	3.50
X16A	21/09/2006	13:12	3.66
X16B	08/06/2006	13:51	3.86
X16B	21/09/2006	13:10	3.72
X17A	08/06/2006	16:37	2.21
X17A	22/09/2006	10:44	2.24
X17B	08/06/2006	16:38	2.75
X17B	22/09/2006	10:42	2.79
X18A	08/06/2006	17:56	4.53
X18A	22/09/2006	11:26	4.64
X18B	08/06/2006	17:58	4.29
X18B	22/09/2006	11:28	4.41
X21A-96	13/06/2006	16:40	5.02
X21A-96	23/09/2006	9:11	4.90
X21B-96	13/06/2006	16:38	5.04
X21B-96	23/09/2006	9:08	4.96
X21C-96	13/06/2006	16:37	5.09
X21C-96	23/09/2006	9:05	5.01
X24A-96	09/06/2006	11:01	5.21
X24A-96	21/09/2006	15:04	5.48
X24A-96	01/11/2006	8:55	4.710
X24D-96	09/06/2006	11:00	5.01
X24D-96	02/08/2006	14:55	5.040
X24D-96	21/09/2006	15:00	5.27
X24D-96	01/11/2006	9:00	4.520

Table 5. Summary of 2006 Water Levels for Conventional Wells, Faro Mine, Yukon

Well ID	Date	Time	Water Level Below Top of Casing (m)
X25A-96	09/06/2006	12:32	4.47
X25A-96	02/08/2006	17:32	4.520
X25A-96	21/09/2006	10:47	4.76
X25A-96	01/11/2006	11:08	3.840
X25B-96	09/06/2006	12:33	4.29
X25B-96	02/08/2006	17:34	4.330
X25B-96	21/09/2006	10:44	4.54
X25B-96	01/11/2006	11:10	3.74

Notes:

t.o.p. = top of PVC pipe

Table 6. 2006 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 (CaCO ₃)	Alkalinity (Total) as CaCO ₃	Bromide	Sulphate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt
BH1	05/06/2006	10:00	M	6.19	7.37	3.6	389	7.1	200	142		51.3	0.0884	<0.0050	<0.0050	0.047	<0.0010	<0.10	0.00443	56.7	<0.0010	0.00284
BH11	18/09/2006	14:05	M	5.64	6.84	341.3	341	4.2	175	152		20.5	0.0652	<0.0050	<0.0050	0.043	<0.0010	<0.10	0.00559	49.1	<0.0010	0.00238
BH12	05/06/2006	11:10	M	5.83	6.83	805	767	2.2	415	918		21.0	0.047	<0.0025	<0.0025	0.074	<0.0050	<0.10	0.0412	112	<0.0050	0.0046
BH12	18/09/2006	16:00	M	5.81	6.81	393.1	399	4.9	189	117		94.6	0.133	<0.0050	<0.0050	0.058	<0.0010	<0.10	0.0102	475	<0.0010	0.00071
BH14	05/06/2006	10:37	M	5.52	7.04	213.4	432	1.4	222	139		261	0.289	<0.0050	<0.0050	0.050	<0.0010	<0.10	0.00451	64.4	<0.0010	0.0144
BH14	18/09/2006	13:39	M	5.63	6.68	395.4	387	4.8	226	183		108	0.218	<0.0050	<0.0050	0.022	<0.0010	<0.10	0.00452	64.4	<0.0010	0.00928
BH16	05/06/2006	12:35	M	5.96	6.63	422.1	426	3.3	225	102		129	0.0454	<0.0050	<0.0050	0.043	<0.0010	<0.10	0.00193	59.6	<0.0010	0.0452
BH17	18/09/2006	15:25	M	6.03	7.06	297.5	289	4.6	165	140		25.6	0.0187	<0.0050	<0.0050	0.020	<0.0010	<0.10	0.00213	46.1	<0.0010	<0.00030
BH17A	05/06/2006	13:20	M	7.32	12.36	255.0	33	3.3	1650	230		135	0.174	<0.0050	<0.0050	0.084	<0.0010	<0.10	0.00095	408	<0.0010	<0.00030
BH17A	18/09/2006	14:51	M	7.51	7.62	467.1	917	3.6	565	188		307	<0.0010	<0.0010	<0.0010	0.036	<0.0010	<0.10	0.000198	124	<0.0010	<0.00030
BH17A	18/09/2006	14:51	SP	7.63	7.63		919		541	178		303	<0.0010	<0.0010	<0.0010	0.036	<0.0010	<0.10	0.000226	119	<0.0010	<0.00030
BH12B	05/06/2006	13:30	M	7.64	7.50	1065	2490	3.8	1620	210		133	0.201	<0.0050	<0.0050	0.079	<0.0010	<0.10	0.00081	391	<0.0010	<0.00030
BH12B	18/09/2006	15:00	M	7.27	7.67	388.5	871	4.3	506	187		285	<0.0010	<0.0010	<0.0010	0.036	<0.0010	<0.10	0.000272	110	<0.0010	<0.00030
BH13B	18/09/2006	15:30	M	6.43	7.45	1233.0	1310	7.12	819	93.5		584	0.012	<0.0050	<0.0050	0.042	<0.0010	<0.10	0.000990	211	<0.0010	0.00124
BH14A	05/06/2006	13:45	M	7.40	7.65	761	3700	2.9	2750	411		201	0.202	<0.0050	<0.0050	0.020	<0.0010	<0.10	<0.00017	706	<0.0010	<0.00030
BH14A	18/09/2006	13:45	M	6.98	7.65	3466.0	3730	5.7	2430	422		1970	<0.0050	<0.0050	<0.0050	0.020	<0.0010	<0.10	0.00031	508	<0.0010	<0.00030
BH14B	05/06/2006	12:30	M	7.40	7.77	1311	2440	3.7	2130	393		182	0.100	<0.0050	<0.0050	0.020	<0.0010	<0.10	<0.00017	553	<0.0010	<0.00030
BH14B	18/09/2006	13:25	M	7.12	7.70	3283.0	3510	7.8	2100	441		1760	<0.0050	<0.0050	<0.0050	0.020	<0.0010	<0.10	0.00018	509	<0.0010	<0.00030
BH14B	18/09/2006	13:25	SP	7.70	7.70	3580	3580	2.6	2080	419		1790	<0.0050	<0.0050	<0.0050	0.020	<0.0010	<0.10	0.00018	504	<0.0010	<0.00030
BH105-9B-R	05/06/2006	11:10	M	7.80	8.21	584	617	5.0	226	149		160	0.0119	<0.0050	0.0186	0.022	<0.0010	<0.10	<0.00017	50.9	<0.0010	<0.00030
BH105-9B-R	18/09/2006	15:12	M	8.13	8.13	555	602	6.3	213	155		161	0.0230	0.00653	0.0471	0.022	<0.0010	<0.10	0.000070	46.4	<0.0010	0.00067
DF4	05/06/2006	12:00	M	6.90	6.90	6510	6510		198			5390										
ETA-05-A	14/06/2006	11:55	M	5.5	6.05	6470	6360	5.2	3890	46.8		80.5	0.0324	<0.0050	0.00230	0.106	<0.0010	<0.10	0.000663	90.3	<0.0010	0.00433
ETA-05-A	21/09/2006	16:36	M	6.93	5.76	714	6430	6.0	3440	120		5390	1.13	<0.0050	<0.0050	<0.0050	<0.0050	<0.10	0.0323	411	<0.10	0.030
NA05-11A	21/09/2006	10:00	M	-	7.27	1254	1220	5.3	693	256		487	<0.025	<0.0025	<0.0025	0.041	<0.0050	<0.10	0.00452	137	<0.0050	0.00632
NA05-2D	21/09/2006	10:40	M	-	6.74	382	2140	3.4	1230	168		1230	<0.025	<0.0025	0.0029	0.028	<0.0050	<0.10	0.000100	330	<0.0050	0.0444
NA05-2S	21/09/2006	10:42	M	-	3.76	840	17400	3.0	9300	13.6		18100	<0.50	<0.0050	<0.0050	<0.0050	<0.10	<0.10	<0.0017	412	<0.10	<0.030
NA05-2D	21/09/2006	11:07	M	-	6.33	1537	1360	3.3	375	643		7850	<0.50	<0.0025	0.0026	<0.020	<0.0050	<0.10	0.000186	110	<0.0050	0.0187
P01-01A	08/06/2006	15:40	M	7.31	7.96	1352	1360	5.9	759	250		565	<0.025	<0.0025	<0.0025	0.090	<0.0050	<0.10	0.000403	224	<0.0050	<0.0015
P01-01A	21/09/2006	10:23	M	7.86	7.84	1180	1510	3.4	850	256		617	<0.025	<0.0025	<0.0025	0.102	<0.0050	<0.10	0.000551	254	<0.0050	<0.0015
P01-01B	08/06/2006	16:30	M	7.35	8.02	1070	1070	5.0	601	242		289	<0.025	<0.0025	0.0015	0.074	<0.0050	<0.10	<0.00035	170	<0.0050	<0.0015
P01-01B	21/09/2006	10:07	M	7.53	8.02	1556	1110	3.2	588	246		367	0.025	<0.0010	0.0037	0.080	<0.0050	<0.10	<0.00034	177	<0.0050	<0.00030
P01-02A	08/06/2006	10:30	M	7.70	8.14	499	621	4.9	324	215		124	<0.0050	<0.0050	0.0063	0.060	<0.0010	<0.10	0.000085	923	<0.0010	0.00048
P01-02A	21/09/2006	12:25	M	7.40	8.17	645	628	4.7	333	184		124	<0.0050	<0.0050	0.0066	0.065	<0.0010	<0.10	0.000067	95.5	<0.0010	0.00042
P01-02B	08/06/2006	10:49	M	7.64	8.15	626	495	4.8	263	195		94.6	<0.0050	<0.0050	0.0089	0.033	<0.0010	<0.10	<0.000017	64.2	<0.0010	<0.00030
P01-02B	21/09/2006	12:43	M	7.40	8.17	524	507	4.1	262	189		1990	<0.0050	<0.0050	0.00426	0.035	<0.0010	<0.10	<0.000017	64.4	<0.0010	<0.00030
P01-03	08/06/2006	12:00	M	7.52	7.52	2500	2500	15.20	351			1090	<0.050	<0.0050	<0.0050	<0.020	<0.0010	<0.10	0.00208	445	<0.0010	0.0583
P01-03	21/09/2006	14:53	M	6.73	7.43	6.8	2620	2680	1540	358		1570	0.227	<0.0025	<0.0050	<0.020	<0.0050	<0.10	0.00167	446	<0.0025	0.0568
P01-04	21/09/2006	14:53	SP	7.47	7.47		2620		1400	354		1570	<0.050	<0.0025	<0.0050	<0.020	<0.0050	<0.10	0.00174	403	<0.0025	0.0574
P01-04B	21/09/2006	11:20	M	6.95	7.49	1346	1090	3.4	467	643		34.0	<0.020	<0.0010	<0.0020	0.425	<0.0050	<0.10	<0.00010	118	<0.0010	<0.0010
P01-04B	21/09/2006	10:34	M	7.21	7.86	1283	1380	3.8	682	299		555	0.052	<0.0010	<0.0020	0.029	<0.0050	<0.10	<0.00010	217	<0.0010	<0.0010
P01-11	08/06/2006	9:38	M	7.15	7.88	2065	2010	4.7	1120	334		941	<0.025	<0.0025	0.0318	0.051	<0.0050	<0.10	<0.00085	347	<0.0025	0.0027
P01-11	21/09/2006	16:05	M	6.56	7.69	6.0	2010	2180	1000	305		983	0.189	<0.0025	<0.0025	0.043	<0.0050	<0.10	<0.00025	305	<0.0025	0.0026
P01-51	07/06/2006	11:35	M	8.06	8.17	988	1050	10.6	406	335		288	0.016	<0.0010	0.0174	0.033	<0.0010	<0.10	<0.00034	93.6	<0.0010	<0.00060
P01-51	18/09/2006	11:45	M	7.77	8.12	956	1040	3.9	459	313		291	0.075	<0.0010	0.0154	0.039	<0.0010	<0.10	<0.00034	106	<0.0010	<0.00060
P01-52A	07/06/2006	12:30	M	7.93	7.93	1321	1320	7.1	805	489		349	0.043	<0.0010	0.0291	<0.020	<0.0010	<0.10	<0.00034	174	<0.0010	<0.00060
P01-52A	18/09/2006	10:55	M	7.39	7.95	1248	1340	3.6	848	475		364	<0.010	<0.0010	0.0119	0.039	<0.0010	<0.10	<0.00034	185	<0.0010	<0.00060
P01-52B	07/06/2006	12:54	M	7.51	8.05	1226	1230	7.9	731	493		394	<0.010	<0.0010	0.0119	0.039	<0.0010	<0.10	<0.00034	154	<0.0010	<0.00060
P01-52B	18/09/2006	11:10	M	7.54	7.90	1101	1270	4.2	841	455		313	<0.010	<0.0010	0.0126	0.031	<0.0010	<0.10	<0.00034	177	<0.0010	<0.00060
P01-01-01	08/06/2006	9:30	M	7.05	8.14	362.1	417	7.4	222	218		204	<0.0050	<0.0050	0.00524	0.113	<0.0010	<0.10	<0.00017	66.0	<0.0010	<0.00030
P01-01-01	21/09/2006	9:30	REP	8.12	8.12	236.5	418	5.5	204	219		22.6	0.0107	<0.0050	0.00480	0.109	<0.0010					

Table 6. 2006 Ground Water Quality Data, Faro Mine, Yukon

Well ID	Sample Date	Sample Time	Sample Class ¹	Copper	Iron	Lead	Lithium	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc
BH1	05/06/2006	10:00	M	0.0044	<0.030	0.00379	0.0156	14.3	0.516	<0.00020	<0.0010	0.0093	<2.0	<0.010	<0.00020	4.7	<0.0020	<0.0050	<0.010	0.00998	<0.030	1.37
BH11	18/09/2006	14:05	M	0.0051	<0.030	0.00141	0.0148	12.8	0.558	<0.00020	<0.0010	0.0126	<2.0	<0.010	<0.00020	3.8	<0.0020	<0.0050	<0.010	0.00836	<0.030	2.09
BH12	05/06/2006	11:10	M	<0.0050	<0.030	<0.0025	0.0125	32.7	0.478	<0.00020	<0.0010	0.0116	2.8	<0.010	<0.00020	6.2	<0.0020	<0.0050	<0.010	<0.0010	<0.030	24.0
BH12	18/09/2006	16:00	M	0.0022	0.0060	0.00198	0.0116	15.9	0.497	<0.00020	<0.0010	0.0410	<2.0	<0.010	<0.00020	4.0	<0.0020	<0.0050	<0.010	<0.0020	<0.030	10.5
BH14	05/06/2006	10:27	M	0.0133	0.036	<0.0050	0.0212	14.9	0.189	<0.00020	<0.0010	0.0138	<2.0	<0.010	<0.00020	4.8	<0.0020	<0.0050	<0.010	<0.0020	<0.030	2.37
BH14	18/09/2006	13:30	M	0.0096	0.050	0.00662	0.0212	15.9	0.105	<0.00020	<0.0010	0.0165	<2.0	<0.010	<0.00020	4.6	<0.0020	<0.0050	<0.010	<0.0020	<0.030	1.32
BH16	18/09/2006	12:35	M	<0.0010	8.36	0.00077	0.0154	18.4	1.54	<0.00020	<0.0010	0.0426	<2.0	<0.010	<0.00020	3.9	<0.0020	<0.0050	<0.010	0.00025	<0.030	5.51
BH17S	18/09/2006	15:25	M	0.0010	0.129	0.00094	0.0154	11.4	0.0475	<0.00020	<0.0010	0.0023	<2.0	<0.010	<0.00020	4.4	<0.0020	<0.0050	<0.010	<0.0020	<0.030	0.593
BH17A	05/06/2006	13:20	M	<0.010	<0.030	<0.0050	<0.050	15.4	<0.0030	<0.00020	<0.0010	0.028	4.7	<0.010	<0.00020	10.9	<0.0020	<0.0050	<0.010	0.0092	<0.030	0.558
BH17A	18/09/2006	14:51	M	0.0020	<0.030	<0.0010	0.018	61.7	0.155	<0.00020	<0.0010	0.0077	2.4	<0.010	<0.00020	5.6	<0.0020	<0.0050	<0.010	0.00451	<0.030	0.150
BH17A	18/09/2006	14:51	SP	0.0021	<0.030	<0.0010	0.018	58.9	0.156	<0.00020	<0.0010	0.0080	2.4	<0.010	<0.00020	5.4	<0.0020	<0.0050	<0.010	0.00443	<0.030	0.155
BH112B	05/06/2006	13:30	M	<0.010	<0.030	<0.0050	<0.050	156	<0.0030	<0.00020	<0.0010	0.031	4.8	<0.010	<0.00020	10.9	<0.0020	<0.0050	<0.010	0.0092	<0.030	0.683
BH112B	18/09/2006	15:00	M	0.0021	<0.030	<0.0010	0.017	56.0	0.0737	<0.00020	<0.0010	0.0088	2.4	<0.010	<0.00020	5.7	<0.0020	<0.0050	<0.010	0.00469	<0.030	0.175
BH112B	18/09/2006	15:30	M	0.0046	<0.030	<0.0010	0.011	70.9	0.101	<0.00020	<0.0010	0.0088	2.8	<0.010	<0.00020	6.2	<0.0020	<0.0050	<0.010	0.00469	<0.030	0.175
BH114A	05/06/2006	12:06	M	<0.010	<0.030	<0.0050	0.058	240	<0.0030	<0.00020	<0.0010	<0.010	4.3	<0.010	<0.00020	10.7	<0.0020	<0.0050	<0.010	0.139	<0.030	0.097
BH14A	18/09/2006	13:45	M	<0.010	<0.030	<0.0050	0.058	234	<0.0030	<0.00020	<0.0010	<0.010	3.5	<0.010	<0.00020	10.7	<0.0020	<0.0050	<0.010	0.143	<0.030	0.550
BH14B	05/06/2006	12:25	M	<0.010	<0.030	<0.0050	0.058	192	<0.0030	<0.00020	<0.0010	<0.010	4.6	<0.010	<0.00020	10.7	<0.0020	<0.0050	<0.010	0.146	<0.030	0.155
BH14B	18/09/2006	13:25	M	<0.010	<0.030	<0.0050	<0.050	201	<0.0030	<0.00020	<0.0010	<0.010	3.3	<0.010	<0.00020	14.4	<0.0020	<0.0050	<0.010	0.156	<0.030	0.186
BH14B	18/09/2006	13:25	SP	<0.010	<0.030	<0.0050	<0.050	199	<0.0030	<0.00020	<0.0010	<0.010	3.3	<0.010	<0.00020	14.4	<0.0020	<0.0050	<0.010	0.147	<0.030	0.391
BH15-95-R	05/06/2006	11:20	M	<0.0010	0.738	0.00572	0.0191	24.0	0.103	<0.00020	0.0112	<0.010	2.2	<0.010	<0.00020	51.6	<0.0020	<0.0050	<0.010	0.00085	<0.030	0.0051
BH15-95-R	18/09/2006	15:12	M	<0.0020	0.510	0.0146	0.0214	23.6	0.0993	<0.00020	0.0120	<0.010	<2.0	<0.010	<0.00020	50.0	<0.0020	<0.0050	<0.010	0.00175	<0.030	0.0072
DP4	05/06/2006	12:00	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DP5	05/06/2006	12:00	M	<0.0010	2.83	<0.0050	0.0308	23.3	0.376	<0.00020	<0.0010	0.0091	2.5	<0.010	<0.00020	7.4	<0.0020	<0.0050	<0.010	0.00779	<0.030	0.420
ETA-05-A	14/06/2006	11:55	M	<0.10	502	0.062	<0.50	695	74.6	<0.00020	<0.0010	1.06	11.4	<0.10	<0.0020	55.3	<0.020	<0.050	<0.020	0.065	<0.30	393
ETA-05-A	22/09/2006	16:26	M	<0.10	852	0.089	<0.50	533	73.6	0.000206	<0.0010	1.06	11.4	<0.10	<0.0020	55.3	<0.020	<0.050	<0.020	0.065	<0.30	393
NA05-11A	21/09/2006	12:00	M	<0.0050	20.4	<0.0025	<0.025	94.3	26.6	<0.00020	<0.0050	0.246	2.7	<0.050	<0.0010	10.6	<0.010	<0.025	<0.010	0.0658	<0.25	22.6
NA05-25	21/09/2006	10:40	M	<0.0050	107	<0.0025	<0.025	99.3	34.4	<0.00020	<0.0050	0.182	4.9	<0.050	<0.0010	44.4	<0.010	<0.025	<0.010	0.0659	<0.25	33.3
NA05-25	21/09/2006	10:42	M	<0.10	7700	0.483	<0.025	20.0	485	<0.00020	<0.0010	<0.10	<2.0	<0.10	<0.0020	28	<0.020	<0.050	<0.010	<0.20	2.09	8.68
NA05-30	21/09/2006	11:07	M	<0.0050	373	<0.0025	<0.025	24.3	8.81	<0.00020	<0.0050	0.0217	3.9	<0.050	<0.0010	14.0	<0.010	<0.025	<0.010	0.0613	<0.25	16.2
P01-01A	08/06/2006	15:40	M	<0.0050	<0.030	<0.0025	<0.025	48.2	3.36	<0.00020	<0.0050	0.0051	4.8	<0.050	<0.0010	21.7	<0.010	<0.025	<0.010	0.0676	<0.30	0.062
P01-01A	18/09/2006	10:23	M	<0.0050	<0.030	<0.0025	<0.025	52.2	4.72	<0.00020	<0.0050	0.0059	5.6	<0.050	<0.0010	24.7	<0.010	<0.025	<0.010	0.0686	<0.30	0.062
P01-01B	08/06/2006	16:30	M	<0.0050	0.721	<0.0025	<0.025	36.8	0.103	<0.00020	<0.0050	<0.050	3.4	<0.050	<0.0010	24.3	<0.010	<0.025	<0.010	0.0661	<0.30	0.061
P01-01B	18/09/2006	10:30	M	<0.0050	0.774	<0.0025	<0.025	35.4	0.119	<0.00020	<0.0050	<0.050	3.4	<0.050	<0.0010	24.3	<0.010	<0.025	<0.010	0.0661	<0.30	0.061
P01-02A	08/06/2006	10:30	M	<0.0010	<0.030	<0.0050	0.060	22.7	1.01	<0.00020	0.0017	0.0021	2.2	<0.010	<0.00020	11.8	<0.0020	<0.0050	<0.010	0.06516	<0.30	<0.010
P01-02A	18/09/2006	12:25	M	<0.0010	<0.030	<0.0050	0.0662	25.1	0.925	<0.00020	0.0018	0.0019	2.3	<0.010	<0.00020	11.8	<0.0020	<0.0050	<0.010	0.06516	<0.30	<0.010
P01-02B	08/06/2006	10:49	M	<0.0010	0.499	<0.0050	0.0662	24.9	0.444	<0.00020	0.0018	0.0019	<2.0	<0.010	<0.00020	11.8	<0.0020	<0.0050	<0.010	0.06516	<0.30	0.0054
P01-02B	18/09/2006	12:00	M	<0.0010	0.672	<0.0050	0.0657	24.5	0.137	<0.00020	<0.0010	<0.010	<2.0	<0.010	<0.00020	10.5	<0.0020	<0.0050	<0.010	0.06516	<0.30	0.0056
P01-03	08/06/2006	14:53	M	<0.010	0.277	<0.0050	<0.050	98.7	46.7	<0.00020	<0.0010	0.125	5.2	<0.010	<0.00020	39.3	<0.0020	<0.0050	<0.010	0.0671	<0.30	0.335
P01-03	18/09/2006	14:53	M	<0.0050	0.236	<0.0050	<0.050	103	48.4	<0.00020	<0.0010	0.116	<2.0	<0.010	<0.00020	41.1	<0.0020	<0.0050	<0.010	0.0671	<0.30	0.175
P01-03	21/09/2006	14:53	SP	<0.0050	0.225	<0.0050	<0.050	94.9	48.6	<0.00020	<0.0010	0.117	<2.0	<0.010	<0.00020	41.1	<0.0020	<0.0050	<0.010	0.0671	<0.30	0.175
P01-04A	21/09/2006	11:20	M	<0.0020	0.610	<0.0020	0.146	42.1	0.223	<0.00020	<0.0010	<0.010	<2.0	<0.010	<0.00020	71.4	<0.0020	<0.0050	<0.010	<0.0640	<0.30	<0.0650
P01-04A	18/09/2006	10:54	M	<0.0020	0.495	<0.0020	<0.025	34.3	1.35	<0.00020	<0.0010	<0.010	<2.0	<0.010	<0.00020	43.2	<0.0020	<0.0050	<0.010	<0.0640	<0.30	<0.0650
P01-11	08/06/2006	9:38	M	<0.0050	22.5	<0.0025	<0.025	61.9	14.7	<0.00020	<0.0050	<0.050	6.1	<0.050	<0.0010	48.9	<0.010	<0.025	<0.010	0.0648	<0.30	0.064
P01-11	18/09/2006	16:05	M	<0.0050	22.3	<0.0025	<0.025	57.8	15.5	<0.00020	<0.0050	<0.050	<0.025	<0.050	<0.0010	44.6	<0.010	<0.025	<0.010	0.0647	<0.30	0.064
P01-51	07/06/2006	11:35	M	<0.0020	<0.030	<0.0010	0.011	41.8	0.0679	<0.00020	0.0719	<0.020	2.7	<0.010	<0.00020	100	<0.0020	<0.0050	<0.010	0.0607	<0.30	0.0053
P01-51A	18/09/2006	11:45	M	0.0069	0.178	0.0024	0.012	47.0	0.137	<0.00020	0.0768	0.0031	3.2	<0.010	<0.00020	120	<0.0020	<0.0050	<0.010	0.0607	<0.30	0.0053
P01-52A	07/06/2006	12:30	M	<0.0020	1.71	<0.0010	0.028	89.8	0.136	<0.00020	0.0037	<0.020	3.6	<0.010	<0.00020	7.5	<0.0020	<0.0050	<0.010	0.06		

Table 6. 2006 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. (Lab)	Sp. Cond. (Lab)	Temp. (Field)	Hardness (CaCO ₃)	Alkalinity (Total) as CaCO ₃	Bromide	Sulphate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt
P03-01-08	09/06/2006	10:10	M	5.69	3.46	1388	19300	6.8	2560	16.2		21000	<2.5	<0.25	<0.25	<0.40	<0.50	<2.0	<0.0005	302	<0.50	<0.15
P03-01-08	21/09/2006	15:30	M	6.00	3.31	2760	25800	9.6	3710	<2.0		32400	<5.0	<0.25	<0.50	<0.50	<0.12	<0.12	<0.0005	429	<0.25	<0.15
P03-01-09	09/06/2006	11:00	M	4.61	3.04	1907	31400	13.5	4020	<2.0		46300	<5.0	<0.50	<0.50	<1.0	<1.0	<5.0	<0.017	475	<1.0	<0.30
P03-01-09	21/09/2006	15:40	M	5.59	2.97	3178	32900	9.2	4100	<2.0		51900	<5.0	<0.25	<0.50	<0.60	<0.15	<3.0	<0.025	441	<0.25	<0.25
P03-02-01	08/06/2006	15:30	M	6.81	7.98	4601	350	7.1	187	16.4		38.4	0.0084	<0.00050	0.00061	0.089	<0.0010	<0.10	<0.00017	58.9	<0.0010	0.00048
P03-02-01	21/09/2006	16:00	M	7.18	7.34	415.0	407	5.2	198	16.8		36.9	<0.010	<0.00050	<0.0010	0.097	<0.0010	<0.10	<0.00017	62.6	<0.0010	0.00050
P03-02-02	08/06/2006	15:35	M	6.65	7.86	219.1	266	6.7	136	10.4		31.8	0.0063	<0.00050	<0.00050	0.094	<0.0010	<0.10	0.00029	41.6	<0.0010	<0.00030
P03-02-02	21/09/2006	16:10	M	7.29	7.48	297.5	368	4.8	102	10.2		10.2	<0.010	<0.00050	<0.0010	0.125	<0.0010	<0.10	0.00029	50.5	<0.0010	<0.00030
P03-02-03	08/06/2006	16:00	M	6.97	7.87	297.5	355	7.6	127	97.9		30.4	0.0141	<0.00050	<0.00050	0.099	<0.0010	<0.10	<0.00017	38.7	<0.0010	<0.00030
P03-02-03	21/09/2006	9:55	M	7.01	7.56	202.8	399	4.2	198	97.4		125	<0.010	<0.00050	<0.0010	0.147	<0.0010	<0.10	<0.00017	60.1	<0.0010	<0.00030
P03-02-04	08/06/2006	16:35	M	7.02	7.28	292	386	7.3	155	42.7		136	0.0213	0.00100	0.00374	0.044	<0.0010	<0.10	0.00112	48.2	<0.0010	0.00367
P03-02-04	21/09/2006	9:50	M	7.20	6.95	275	653	4.2	304	43.4		295	<0.010	<0.00050	<0.0010	0.056	<0.0010	<0.10	0.00107	93.8	<0.0010	0.00496
P03-02-05	08/06/2006	15:30	M	5.77	5.01	5005	6960	15.6	2710	21.2		5350	<0.10	<0.10	0.021	<0.10	<0.020	<0.10	<0.0034	367	<0.020	0.0005
P03-02-05	21/09/2006	10:10	M	6.98	4.00	791	8290	5.0	2460	10.8		7160	<0.10	<0.10	<0.025	<0.10	<0.025	<0.10	<0.0034	400	<0.025	0.0035
P03-02-06	08/06/2006	16:10	M	6.45	4.15	2164	8120	8.4	2520	17.0		6570	<0.25	<0.25	<0.10	<0.10	<0.050	<0.10	<0.0005	397	<0.050	<0.012
P03-02-07	08/06/2006	17:10	M	6.28	3.70	2238	10300	15.1	2790	15.2		9250	<0.25	<0.25	<0.10	<0.10	<0.050	<0.10	<0.0005	404	<0.050	<0.015
P03-02-07	21/09/2006	10:15	M	6.85	3.72	795	10500	4.8	3860	13.0		10300	17.8	<0.025	<0.050	<0.10	<0.025	<0.10	<0.0005	455	<0.025	<0.025
P03-02-08	08/06/2006	17:00	M	5.60	3.41	3157	15300	14.1	2720	11.0		16100	<0.50	<0.50	<0.10	<0.10	<0.050	<0.10	<0.0017	399	<0.10	<0.030
P03-02-08	21/09/2006	10:30	M	6.58	3.27	1087	16300	5.1	2690	<2.0		18700	<1.0	<0.50	<0.10	<0.10	<0.050	<0.10	<0.0017	373	<0.050	<0.050
P03-02-09	08/06/2006	17:25	M	6.13	3.27	2250	19200	18.0	2030	2.6		21000	<1.0	<0.50	<0.10	<0.10	<0.050	<0.10	<0.0017	396	<0.10	<0.060
P03-02-09	21/09/2006	10:45	M	5.94	3.17	1171	20900	4.5	2340	<2.0		29500	<1.0	<0.50	<0.10	<0.10	<0.050	<0.10	<0.0017	392	<0.050	<0.050
P03-03-01	15/06/2006	13:55	M	6.74	8.08	2466	495	11.1	270	28.7		3.46	<0.0050	<0.00050	0.00055	0.254	<0.0010	<0.10	<0.00017	78.6	<0.0010	0.00151
P03-03-01	15/06/2006	13:55	REP	8.01	8.01	493	493	257	284	28.7		3.33	<0.0050	<0.00050	0.00038	0.255	<0.0010	<0.10	<0.00017	76.5	<0.0010	0.00153
P03-03-01	22/09/2006	11:50	M	7.73	8.03	269.5	483	4.9	282	28.2		5.3	-	-	-	-	-	-	-	-	-	-
P03-03-02	15/06/2006	13:40	M	4.52	4.46	2484	2710	12.4	556	6.9		2010	2.90	<0.025	<0.025	<0.020	<0.020	<0.10	0.0143	133	<0.050	0.179
P03-03-03	22/09/2006	11:45	M	6.63	5.12	586	2710	5.3	436	7.7		1470	2.09	<0.010	<0.010	<0.020	<0.020	<0.10	0.0131	107	<0.010	0.157
P03-03-03	15/06/2006	15:50	M	5.29	5.94	596	751	10.0	320	6.6		<0.050	0.30	<0.025	<0.025	<0.020	<0.020	<0.10	0.00792	93.7	<0.050	0.172
P03-03-03	22/09/2006	12:15	M	6.70	5.63	317.9	906	4.6	405	8.2		469	0.100	<0.010	<0.010	<0.020	<0.020	<0.10	0.0111	122	<0.020	0.311
P03-03-03	22/09/2006	12:15	SP	5.59	5.59	906	906	4.6	412	9.0		466	0.101	<0.010	<0.010	<0.020	<0.020	<0.10	0.0111	124	<0.020	0.311
P03-03-04	15/06/2006	14:30	M	6.29	6.40	535	776	10.0	318	21.3		<0.050	<0.025	<0.025	0.0027	0.056	<0.050	<0.10	0.00252	93.7	<0.050	0.133
P03-03-04	22/09/2006	12:00	M	7.08	6.25	326.6	994	4.6	451	30.9		409	0.010	<0.010	0.0030	0.070	<0.020	<0.10	0.00354	136	<0.020	0.147
P03-03-05	15/06/2006	14:55	M	6.19	7.08	482.5	987	12.7	451	87.5		457	0.051	<0.050	0.0101	0.133	<0.010	<0.10	<0.0017	133	<0.010	0.0369
P03-03-05	22/09/2006	12:30	M	7.34	6.75	358.1	1100	4.3	557	78.0		550	<0.010	<0.010	0.0092	<0.020	<0.050	<0.10	0.00043	168	<0.020	0.472
P03-03-06	15/06/2006	15:05	M	6.37	6.11	1174	2520	12.1	1060	14.6		1800	<0.025	<0.025	<0.025	<0.020	<0.050	<0.10	<0.00085	281	<0.050	<0.015
P03-03-06	22/09/2006	12:35	M	7.09	6.09	418.3	970	4.6	801	17.4		1990	<0.025	<0.025	<0.025	<0.020	<0.050	<0.10	<0.00085	217	<0.050	<0.015
P03-03-06	15/06/2006	15:30	M	3.66	3.66	9780	9780	11.50	1150	3.0		10300	<0.50	<0.50	<0.10	<0.10	<0.050	<0.10	<0.0017	101	<0.10	<0.030
P03-03-08	22/09/2006	12:45	M	-	3.56	-	9190	-	2010	2.4		8640	<0.25	<0.25	<0.10	<0.10	<0.050	<0.10	<0.00085	262	<0.050	<0.015
P03-03-09	15/06/2006	15:25	M	3.62	3.62	7860	7860	-	1420	<2.0		7230	<0.25	<0.25	<0.10	<0.10	<0.050	<0.10	<0.00085	150	<0.050	<0.015
P03-03-09	22/09/2006	12:50	M	-	3.35	-	17300	-	3490	<2.0		21900	<0.50	<0.50	<0.10	<0.10	<0.050	<0.10	<0.0017	347	<0.10	<0.030
P03-04-01	07/06/2006	10:30	M	7.26	7.86	896	1870	6.3	905	27.8		894	0.097	<0.025	<0.025	<0.020	<0.050	<0.10	<0.00085	285	<0.050	<0.015
P03-04-01	20/09/2006	16:10	M	6.93	7.73	1034	1860	6.9	994	28.6		912	<0.025	<0.025	<0.025	<0.020	<0.050	<0.10	<0.00085	321	<0.050	<0.015
P03-04-02	07/06/2006	10:35	M	6.19	7.26	715	1490	7.8	780	10.7		696	0.027	<0.025	<0.025	<0.020	<0.050	<0.10	0.000181	227	<0.050	0.0093
P03-04-02	20/09/2006	12:55	M	6.28	7.30	798	1640	6.1	838	11.7		978	<0.025	<0.025	<0.025	<0.020	<0.050	<0.10	0.00277	237	<0.050	0.0036
P03-04-02	20/09/2006	15:40	M	6.08	7.10	766	1720	6.0	1640	135		999	<0.025	<0.025	<0.025	<0.020	<0.050	<0.10	0.00277	306	<0.050	0.0090
P03-04-02	02/11/2006	14:40	M	6.46	6.78	1830	1750	1.3	996	135		1040	<0.10	<0.10	<0.010	<0.040	<0.020	<0.10	0.000334	293	<0.020	0.111
P03-04-03	07/06/2006	11:10	M	6.27	7.19	667	1410	6.2	725	124		667	0.025	<0.025	<0.025	0.072	<0.050	<0.10	0.000307	210	<0.050	0.0096
P03-04-03	20/09/2006	16:20	M	6.04	6.92	748	1520	5.7	896	95.8		863	<0.025	<0.025	<0.025	0.072	<0.050	<0.10	0.00150	256	<0.050	0.0090
P03-04-04	07/06/2006	11:05	M	7.08	7.04	637	1660	6.7	407	95.8		356	0.011	<0.010	0.0056	0.063	<0.020	<0.10	<0.00034	134	<0.020	0.00109
P03-04-04	20/09/2006	12:30	M	7.20	7.06	597	1130	5.8	420	202		394	<0.010	<0.010	0.0052	0.052	<0.020	<0.10	<0.00034	136	<0.020	0.00208
P03-04-04	02/11/2006	17:10	M	6.75	7.84	607	1120	4.8	467	234		404	<0.025	<0.025	0.0054	0.053	<0.050	<0.10	<0.00085	153	<0.050	0.0029
P03-04-04	20/09/2006	15:00	M	7.45	7.56	1220	1180	1.9	503	222		459	<0.025	<0.025	0.0056	0.064	<0.050	<0.1				

Table 6. 2006 Ground Water Quality Data, Faro Mine, Yukon

Well ID	Sample Date	Sample Class ¹	Copper	Iron	Lead	Lithium	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc
P03-01-08	09/06/2006	10:10	M	12200	<0.25	<1.5	456	75.7	<0.000020	<0.50	<0.50	70	<0.50	<0.010	654	<0.10	<0.25	<0.20	<0.10	<0.60	1250
P03-01-08	21/09/2006	15:30	M	17500	0.59	<1.2	694	115	<0.00020	<0.50	<2.5	<100	<1.0	<0.025	576	<0.10	<0.25	<0.20	<0.10	0.91	2850
P03-01-09	09/06/2006	11:00	M	24000	1.48	<1.0	687	178	<0.00020	<1.0	<1.0	<100	<1.0	<0.025	290	<0.10	<0.50	<0.50	<0.10	<1.5	3550
P03-01-09	21/09/2006	15:40	M	26400	1.63	<1.5	729	189	<0.00020	<0.50	<2.5	<100	<1.0	<0.025	298	<0.10	<0.50	<0.50	<0.10	<1.5	3750
P03-02-01	08/06/2006	16:30	M	<0.0010	0.133	0.00102	9.56	0.184	<0.00020	0.0021	0.0011	<2.0	<0.010	<0.00020	3.0	<0.0020	<0.0050	<0.050	0.00174	<0.030	<0.050
P03-02-01	21/09/2006	15:30	M	<0.0010	0.308	<0.0010	10.22	0.186	<0.00020	<0.0010	<0.0010	<2.0	<0.010	<0.00020	3.4	<0.0020	<0.0050	<0.050	0.00174	<0.030	<0.050
P03-02-02	08/06/2006	15:35	M	<0.0010	0.308	0.00068	7.94	0.00119	<0.00020	<0.0010	<0.0010	<2.0	<0.010	<0.00020	2.4	<0.0020	<0.0050	<0.050	0.00080	<0.030	<0.050
P03-02-02	21/09/2006	16:10	M	<0.0010	<0.030	0.00068	7.94	0.00119	<0.00020	<0.0010	<0.0010	<2.0	<0.010	<0.00020	2.4	<0.0020	<0.0050	<0.050	0.00080	<0.030	<0.050
P03-02-03	08/06/2006	16:00	M	<0.0010	0.308	0.00068	7.94	0.00119	<0.00020	<0.0010	<0.0010	<2.0	<0.010	<0.00020	2.4	<0.0020	<0.0050	<0.050	0.00080	<0.030	<0.050
P03-02-03	21/09/2006	16:00	M	<0.0010	0.308	0.00068	7.94	0.00119	<0.00020	<0.0010	<0.0010	<2.0	<0.010	<0.00020	2.4	<0.0020	<0.0050	<0.050	0.00080	<0.030	<0.050
P03-02-04	08/06/2006	16:00	M	<0.0010	0.308	0.00068	7.94	0.00119	<0.00020	<0.0010	<0.0010	<2.0	<0.010	<0.00020	2.4	<0.0020	<0.0050	<0.050	0.00080	<0.030	<0.050
P03-02-04	21/09/2006	16:00	M	<0.0010	0.308	0.00068	7.94	0.00119	<0.00020	<0.0010	<0.0010	<2.0	<0.010	<0.00020	2.4	<0.0020	<0.0050	<0.050	0.00080	<0.030	<0.050
P03-02-05	08/06/2006	16:35	M	<0.0010	0.308	0.00068	7.94	0.00119	<0.00020	<0.0010	<0.0010	<2.0	<0.010	<0.00020	2.4	<0.0020	<0.0050	<0.050	0.00080	<0.030	<0.050
P03-02-05	21/09/2006	16:35	M	<0.0010	0.308	0.00068	7.94	0.00119	<0.00020	<0.0010	<0.0010	<2.0	<0.010	<0.00020	2.4	<0.0020	<0.0050	<0.050	0.00080	<0.030	<0.050
P03-02-06	08/06/2006	16:10	M	<0.0010	0.308	0.00068	7.94	0.00119	<0.00020	<0.0010	<0.0010	<2.0	<0.010	<0.00020	2.4	<0.0020	<0.0050	<0.050	0.00080	<0.030	<0.050
P03-02-06	21/09/2006	17:10	M	<0.0010	0.308	0.00068	7.94	0.00119	<0.00020	<0.0010	<0.0010	<2.0	<0.010	<0.00020	2.4	<0.0020	<0.0050	<0.050	0.00080	<0.030	<0.050
P03-02-07	08/06/2006	16:10	M	<0.0010	0.308	0.00068	7.94	0.00119	<0.00020	<0.0010	<0.0010	<2.0	<0.010	<0.00020	2.4	<0.0020	<0.0050	<0.050	0.00080	<0.030	<0.050
P03-02-07	21/09/2006	16:10	M	<0.0010	0.308	0.00068	7.94	0.00119	<0.00020	<0.0010	<0.0010	<2.0	<0.010	<0.00020	2.4	<0.0020	<0.0050	<0.050	0.00080	<0.030	<0.050
P03-02-08	08/06/2006	16:30	M	<0.0010	0.308	0.00068	7.94	0.00119	<0.00020	<0.0010	<0.0010	<2.0	<0.010	<0.00020	2.4	<0.0020	<0.0050	<0.050	0.00080	<0.030	<0.050
P03-02-08	21/09/2006	17:00	M	<0.0010	0.308	0.00068	7.94	0.00119	<0.00020	<0.0010	<0.0010	<2.0	<0.010	<0.00020	2.4	<0.0020	<0.0050	<0.050	0.00080	<0.030	<0.050
P03-02-09	08/06/2006	17:15	M	<0.0010	0.308	0.00068	7.94	0.00119	<0.00020	<0.0010	<0.0010	<2.0	<0.010	<0.00020	2.4	<0.0020	<0.0050	<0.050	0.00080	<0.030	<0.050
P03-02-09	21/09/2006	17:15	M	<0.0010	0.308	0.00068	7.94	0.00119	<0.00020	<0.0010	<0.0010	<2.0	<0.010	<0.00020	2.4	<0.0020	<0.0050	<0.050	0.00080	<0.030	<0.050
P03-03-01	15/06/2006	13:55	M	<0.0010	0.308	0.00068	7.94	0.00119	<0.00020	<0.0010	<0.0010	<2.0	<0.010	<0.00020	2.4	<0.0020	<0.0050	<0.050	0.00080	<0.030	<0.050
P03-03-01	15/06/2006	13:55	REP	<0.0010	0.308	0.00068	7.94	0.00119	<0.00020	<0.0010	<0.0010	<2.0	<0.010	<0.00020	2.4	<0.0020	<0.0050	<0.050	0.00080	<0.030	<0.050
P03-03-01	22/09/2006	11:50	M	<0.0010	0.308	0.00068	7.94	0.00119	<0.00020	<0.0010	<0.0010	<2.0	<0.010	<0.00020	2.4	<0.0020	<0.0050	<0.050	0.00080	<0.030	<0.050
P03-03-02	15/06/2006	13:40	M	0.050	644	<0.025	54.6	17.0	<0.00020	<0.50	0.242	4.7	<0.050	<0.010	14.4	<0.010	<0.25	<0.010	<0.010	<0.30	135
P03-03-02	22/09/2006	11:45	M	0.036	511	<0.010	41.0	15.3	<0.00020	<0.20	0.211	5.1	<0.020	<0.0040	12.4	<0.010	<0.10	<0.010	<0.010	<0.30	122
P03-03-03	15/06/2006	15:50	M	<0.0050	22.3	0.0030	21.0	11.4	<0.00020	<0.050	0.200	2.5	<0.050	<0.0050	7.4	<0.010	<0.025	<0.010	<0.010	<0.30	9.28
P03-03-03	22/09/2006	12:15	M	<0.0020	40.7	<0.0010	0.134	24.5	<0.00020	<0.020	0.243	3.5	<0.020	<0.0040	9.1	<0.010	<0.010	<0.010	<0.010	<0.30	14.6
P03-03-04	15/06/2006	12:15	SP	<0.0020	41.5	<0.0010	0.134	24.5	<0.00020	<0.020	0.243	3.6	<0.020	<0.0040	9.2	<0.010	<0.010	<0.010	<0.010	<0.30	14.7
P03-03-04	22/09/2006	14:20	M	<0.0050	29.6	<0.0015	0.134	20.3	<0.00020	<0.050	0.134	2.5	<0.050	<0.0040	13.6	<0.010	<0.025	<0.010	<0.010	<0.30	4.89
P03-03-04	22/09/2006	12:00	M	<0.0020	39.8	<0.0010	0.134	20.3	<0.00020	<0.020	0.147	3.6	<0.020	<0.0040	18.1	<0.010	<0.010	<0.010	<0.010	<0.30	4.19
P03-03-05	15/06/2006	14:55	M	<0.010	24.8	<0.0050	0.050	30.7	<0.00020	<0.010	0.030	2.9	<0.010	<0.0020	31.6	<0.020	<0.050	<0.010	<0.020	<0.30	0.202
P03-03-05	22/09/2006	12:30	M	<0.0020	29.8	<0.0010	0.035	33.3	<0.00020	<0.020	0.0345	<2.0	<0.020	<0.0040	30	<0.010	<0.010	<0.010	<0.010	<0.30	0.03
P03-03-06	15/06/2006	15:05	M	<0.0050	287	<0.0015	0.032	85.9	<0.00020	<0.050	0.050	5.7	<0.050	<0.0010	91.6	<0.010	<0.025	<0.010	<0.010	<0.30	0.025
P03-03-06	22/09/2006	12:35	M	<0.0050	195	<0.0015	0.029	62.8	<0.00020	<0.050	0.050	5.7	<0.050	<0.0010	75.9	<0.010	<0.025	<0.010	<0.010	<0.30	0.044
P03-03-08	15/06/2006	15:30	M	<0.10	4240	1.11	<0.50	718	<0.00020	<0.10	<0.10	<10	<0.10	<0.020	68	<0.020	<0.50	<0.010	<0.010	<0.15	360
P03-03-08	22/09/2006	12:45	M	<0.050	3499	<0.025	<0.25	339	<0.00020	<0.050	<0.050	50	<0.050	<0.0010	399	<0.010	<0.025	<0.010	<0.010	<0.15	145
P03-03-09	15/06/2006	15:25	M	<0.050	3199	0.071	<0.25	254	<0.00020	<0.050	<0.050	21	<0.050	<0.0010	164	<0.010	<0.025	<0.010	<0.010	<0.15	145
P03-03-09	22/09/2006	12:50	M	<0.10	9340	7.23	<0.50	637	<0.00020	<0.10	<0.10	55	<0.10	<0.020	191	<0.020	<0.50	<0.010	<0.010	<0.15	619
P03-04-01	20/09/2006	10:30	M	<0.0050	4.63	<0.0025	<0.025	47.0	<0.00020	<0.050	<0.050	4.2	<0.050	<0.0010	99.4	<0.010	<0.025	<0.010	<0.010	<0.30	<0.025
P03-04-02	02/06/2006	10:35	M	<0.0050	0.252	<0.0025	<0.025	51.6	<0.00020	<0.050	0.140	3.1	<0.050	<0.0010	33.5	<0.010	<0.025	<0.010	<0.010	<0.30	<0.025
P03-04-02	02/06/2006	12:55	M	<0.0050	0.075	<0.0025	<0.025	59.8	<0.00020	<0.050	0.139	3.3	<0.050	<0.0010	32.5	<0.010	<0.025	<0.010	<0.010	<0.30	0.066
P03-04-03	02/06/2006	15:40	M	<0.0050	0.075	<0.0025	<0.025	68.9	<0.00020	<0.050	0.170	4.4	<0.050	<0.0010	35.8	<0.010	<0.025	<0.010	<0.010	<0.30	0.079
P03-04-03	02/06/2006	15:40	M	<0.0050	0.075	<0.0025	<0.025	68.9	<0.00020	<0.050	0.170	4.4	<0.050	<0.0010	35.8	<0.010	<0.025	<0.010	<0.010	<0.30	0.079
P03-04-04	02/06/2006	15:40	M	<0.0050	0.075	<0.0025	<0.025	68.9	<0.00020	<0.050	0.170	4.4	<0.050	<0.0010	35.8	<0.010	<0.025	<0.010	<0.010	<0.30	0.079
P03-04-04	02/06/2006	15:40	M	<0.0050	0.075	<0.0025	<0.025	68.9	<0.00020	<0.050	0.170	4.4	<0.050	<0.0010	35.8	<0.010	<0.025	<0.010	<0.010	<0.30	0.079
P03-04-05	02/06/2006	15:40	M	<0.0050	0.075	<0.0025	<0.025	68.9	<0.00020	<0.050	0.170	4.4	<0.050	<0.0010	35.8	<0.010	<0.025	<0.010	<0.010	<0.30	

Table 6. 2006 Ground Water Quality Data, Faro Mine, Yukon

Well ID	Sample Date	Sample Time	Sample Class ^(a)	pH (field)	pH (lab)	Sp. Cond. (field)	Sp. Cond. (lab)	Temp. (field)	Hardness (CaCO ₃)	Alkalinity (Total) as CaCO ₃	Bromide	Sulphate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt
P03-05-01	02/11/2006	10:10	M	7.19	7.52	1500	1570	1.2	195	835	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	296	<0.010	<0.030
P03-05-02	15/06/2006	9:27	M	6.97	7.56	1115	1100	13.1	615	513	<0.025	<0.025	<0.025	<0.025	<0.025	<0.010	<0.010	<0.010	<0.00085	186	<0.050	<0.105
P03-05-03	02/11/2006	9:55	M	7.32	7.22	860	1040	0.4	967	474	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	160	<0.010	<0.139
P03-05-04	15/06/2006	10:10	M	7.13	7.40	930	930	10.9	808	410	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00085	161	<0.050	<0.051
P03-05-05	02/11/2006	11:45	M	6.33	6.33	1594	1790	6.14	633	881	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	192	<0.010	<0.119
P03-05-06	02/11/2006	11:57	M	8.07	7.37	2780	2620	9.6	740	1010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	128	<0.030	<0.060
P03-05-07	15/06/2006	11:15	M	5.86	4.24	6540	7700	2.2	9.9	18.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	332	<0.030	<0.060
P03-05-08	02/11/2006	11:21	M	6.17	4.21	6310	6770	2.3	12.6	19.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	322	<0.030	<0.060
P03-05-09	15/06/2006	12:20	M	5.89	4.46	6840	6770	2.3	12.6	19.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	322	<0.030	<0.060
P03-06-01	07/06/2006	15:05	M	7.30	7.61	1475	1810	7.7	999	181	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	271	<0.050	<0.049
P03-06-02	21/09/2006	12:15	M	6.53	7.45	503	1850	920	188	881	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	251	<0.050	<0.037
P03-06-03	07/06/2006	15:31	REP	7.61	7.61	1760	1930	5.9	991	128	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	268	<0.050	<0.035
P03-06-04	21/09/2006	13:45	M	6.94	7.19	1017	1190	8.8	631	118	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	176	<0.050	<0.0254
P03-06-05	07/06/2006	15:31	M	6.67	6.44	1477	1600	10.5	600	809	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	181	<0.010	<0.185
P03-06-06	21/09/2006	12:00	M	6.32	6.11	519	2400	10.7	849	1340	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	127	<0.050	<0.093
P03-06-07	07/06/2006	15:31	M	6.67	6.44	1477	1600	10.5	600	809	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	181	<0.010	<0.185
P03-06-08	21/09/2006	13:45	M	6.94	7.19	1017	1190	8.8	631	118	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	176	<0.050	<0.0254
P03-06-09	07/06/2006	15:30	M	6.62	6.70	672	2310	5.3	83	115	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	350	<0.050	<0.369
P03-06-10	21/09/2006	13:45	M	7.00	7.11	1458	1890	8.3	631	118	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	293	<0.010	<0.216
P03-06-11	07/06/2006	15:30	M	6.62	7.00	518	1930	5.9	991	128	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	268	<0.050	<0.035
P03-06-12	07/06/2006	15:31	REP	7.61	7.61	1760	1930	5.9	991	128	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	277	<0.050	<0.035
P03-06-13	21/09/2006	12:15	M	6.53	7.45	503	1850	920	188	881	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	251	<0.050	<0.037
P03-06-14	07/06/2006	15:05	M	7.30	7.61	1475	1810	7.7	999	181	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	271	<0.050	<0.049
P03-06-15	02/11/2006	12:20	M	5.89	4.46	6840	6770	2.3	12.6	19.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	322	<0.030	<0.060
P03-06-16	07/06/2006	15:05	M	6.67	6.44	1477	1600	10.5	600	809	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	181	<0.010	<0.185
P03-06-17	21/09/2006	13:45	M	6.94	7.19	1017	1190	8.8	631	118	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	176	<0.050	<0.0254
P03-06-18	07/06/2006	15:30	M	6.62	6.70	672	2310	5.3	83	115	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	350	<0.050	<0.369
P03-06-19	21/09/2006	13:45	M	7.00	7.11	1458	1890	8.3	631	118	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	293	<0.010	<0.216
P03-06-20	07/06/2006	15:30	M	6.62	7.00	518	1930	5.9	991	128	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	268	<0.050	<0.035
P03-06-21	07/06/2006	15:31	REP	7.61	7.61	1760	1930	5.9	991	128	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	277	<0.050	<0.035
P03-06-22	21/09/2006	12:15	M	6.53	7.45	503	1850	920	188	881	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	251	<0.050	<0.037
P03-06-23	07/06/2006	15:05	M	7.30	7.61	1475	1810	7.7	999	181	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	271	<0.050	<0.049
P03-06-24	02/11/2006	12:20	M	5.89	4.46	6840	6770	2.3	12.6	19.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	322	<0.030	<0.060
P03-06-25	07/06/2006	15:05	M	6.67	6.44	1477	1600	10.5	600	809	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	181	<0.010	<0.185
P03-06-26	21/09/2006	13:45	M	6.94	7.19	1017	1190	8.8	631	118	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	176	<0.050	<0.0254
P03-06-27	07/06/2006	15:30	M	6.62	6.70	672	2310	5.3	83	115	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	350	<0.050	<0.369
P03-06-28	21/09/2006	13:45	M	7.00	7.11	1458	1890	8.3	631	118	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	293	<0.010	<0.216
P03-06-29	07/06/2006	15:30	M	6.62	7.00	518	1930	5.9	991	128	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	268	<0.050	<0.035
P03-06-30	07/06/2006	15:31	REP	7.61	7.61	1760	1930	5.9	991	128	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	277	<0.050	<0.035
P03-06-31	21/09/2006	12:15	M	6.53	7.45	503	1850	920	188	881	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	251	<0.050	<0.037
P03-06-32	07/06/2006	15:05	M	7.30	7.61	1475	1810	7.7	999	181	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	271	<0.050	<0.049
P03-06-33	02/11/2006	12:20	M	5.89	4.46	6840	6770	2.3	12.6	19.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	322	<0.030	<0.060
P03-06-34	07/06/2006	15:05	M	6.67	6.44	1477	1600	10.5	600	809	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	181	<0.010	<0.185
P03-06-35	21/09/2006	13:45	M	6.94	7.19	1017	1190	8.8	631	118	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	176	<0.050	<0.0254
P03-06-36	07/06/2006	15:30	M	6.62	6.70	672	2310	5.3	83	115	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	350	<0.050	<0.369
P03-06-37	21/09/2006	13:45	M	7.00	7.11	1458	1890	8.3	631	118	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	293	<0.010	<0.216
P03-06-38	07/06/2006	15:30	M	6.62	7.00	518	1930	5.9	991	128	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	268	<0.050	<0.035
P03-06-39	07/06/2006	15:31	REP	7.61	7.61	1760	1930	5.9	991	128	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.010	<0.00017	277	<0.050	<0.035
P03-06-40	21/09/2006																					

Table 6. 2006 Ground Water Quality Data, Faro Mine, Yukon

Well ID	Sample Date	Sample Class ¹	Copper	Iron	Lead	Lithium	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc
P03-05-01	02/11/2006	10:10	M	5.82	<0.010	<0.050	56.5	0.714	<0.00020	<0.010	<0.010	<0.010	<0.010	<0.00020	31.0	<0.0020	<0.050	<0.020	<0.030	<0.060	<0.050
P03-05-02	15/06/2006	9:27	M	7.98	<0.025	<0.025	36.3	13.5	<0.00020	<0.010	0.0193	2.1	<0.010	<0.00020	12.9	<0.0020	<0.025	<0.010	0.0039	<0.030	<0.025
P03-05-03	02/11/2006	9:55	M	7.81	<0.050	<0.050	32.8	16.8	<0.00020	<0.010	0.025	<0.010	<0.010	<0.00020	12.3	<0.0020	<0.025	<0.010	0.0039	<0.060	<0.050
P03-05-04	15/06/2006	10:14	M	1.36	<0.025	<0.025	30.7	11.0	<0.00020	<0.010	<0.050	<0.010	<0.010	<0.00020	12.3	<0.0020	<0.025	<0.010	0.0052	<0.030	<0.025
P03-05-05	02/11/2006	10:15	M	1.22	<0.050	<0.050	26.3	10.9	<0.00020	<0.010	<0.010	<0.010	<0.010	<0.00020	12.1	<0.0020	<0.025	<0.010	0.0049	<0.060	<0.050
P03-05-06	15/06/2006	10:16	M	0.8850	<0.025	<0.025	29.6	12.5	<0.00020	<0.010	<0.050	<0.010	<0.010	<0.00020	11.9	<0.0020	<0.025	<0.010	0.0052	<0.030	<0.025
P03-05-07	15/06/2006	10:43	M	<0.050	<0.025	<0.025	57.3	16.4	<0.00020	<0.010	<0.010	5.8	<0.010	<0.00020	39.1	<0.0020	<0.025	<0.010	0.0015	<0.030	<0.025
P03-05-08	15/06/2006	11:45	M	167	<0.050	<0.050	59.6	22.0	<0.00020	<0.010	<0.010	5.1	<0.010	<0.00020	38.6	<0.0020	<0.025	<0.010	0.0020	<0.060	<0.050
P03-05-09	15/06/2006	10:47	M	6.16	<0.010	<0.010	107	0.6855	<0.00020	0.0047	<0.010	31.4	<0.010	<0.00020	305	<0.0020	<0.025	<0.010	<0.0040	0.043	<0.010
P03-05-10	02/11/2006	11:57	M	9.25	<0.050	<0.050	127	0.111	<0.00020	<0.010	<0.010	33.9	<0.010	<0.00020	300	<0.0020	<0.025	<0.010	<0.0040	<0.060	<0.050
P03-05-11	15/06/2006	11:15	M	<0.020	0.021	0.11	492	32.1	<0.00020	<0.010	<0.020	57	<0.020	<0.00020	252	<0.0020	<0.025	<0.010	<0.0040	<0.15	<0.10
P03-05-12	02/11/2006	11:15	M	<0.050	0.021	<0.025	452	39.4	<0.00020	<0.010	<0.020	62.1	<0.020	<0.00020	224	<0.0020	<0.025	<0.010	<0.0040	<0.15	<0.10
P03-05-13	15/06/2006	11:12	M	<0.020	0.040	0.10	439	27.4	<0.00020	<0.010	<0.020	56	<0.020	<0.00020	252	<0.0020	<0.025	<0.010	<0.0040	<0.15	<0.10
P03-05-14	02/11/2006	12:20	M	<0.050	0.160	0.26	431	31.6	<0.00020	<0.010	<0.020	61.0	<0.020	<0.00020	226	<0.0020	<0.025	<0.010	<0.0040	<0.15	<0.10
P03-05-15	07/06/2006	15:05	M	<0.050	2.00	<0.025	0.015	78.3	<0.00020	<0.010	0.0402	2.4	<0.050	<0.00020	38.6	<0.0020	<0.025	<0.010	0.0132	<0.030	1.55
P03-05-16	12/15	M	<0.050	0.788	<0.025	<0.025	71.1	36.5	<0.00020	<0.010	0.0547	2.3	<0.050	<0.00020	35.6	<0.0020	<0.025	<0.010	0.0128	0.034	0.900
P03-05-17	21/09/2006	15:31	M	<0.050	0.549	<0.025	75.9	23.8	<0.00020	<0.010	0.0307	2.4	<0.050	<0.00020	39.4	<0.0020	<0.025	<0.010	0.0129	<0.030	0.358
P03-05-18	07/06/2006	15:31	M	<0.050	0.655	<0.025	74.4	23.6	<0.00020	<0.010	0.0307	2.3	<0.050	<0.00020	36.2	<0.0020	<0.025	<0.010	0.0127	<0.030	0.357
P03-05-19	21/09/2006	13:40	M	<0.050	31.5	<0.025	78.3	30.6	<0.00020	<0.010	0.0307	2.3	<0.050	<0.00020	36.2	<0.0020	<0.025	<0.010	0.0127	<0.030	0.357
P03-05-20	07/06/2006	15:05	M	<0.010	45.4	<0.050	89.9	31.3	<0.00020	<0.010	0.0339	3.1	<0.010	<0.00020	29.8	<0.0020	<0.025	<0.010	0.0069	0.030	0.731
P03-05-21	21/09/2006	13:30	M	<0.050	91.9	<0.025	103	49.7	<0.00020	<0.010	0.0339	3.1	<0.010	<0.00020	29.8	<0.0020	<0.025	<0.010	0.0074	<0.030	0.93
P03-05-22	07/06/2006	15:05	M	<0.050	42.1	<0.025	46.5	12.2	<0.00020	<0.010	0.0406	2.1	<0.050	<0.00020	25.0	<0.0020	<0.025	<0.010	0.0045	<0.030	1.81
P03-05-23	21/09/2006	13:45	M	<0.020	<0.010	0.011	46.7	14.1	<0.00020	0.0031	0.0318	2.1	<0.020	<0.00020	19.2	<0.0040	<0.010	0.0296	<0.030	0.030	3.36
P03-05-24	07/06/2006	15:31	M	<0.010	22.8	<0.050	96.4	24.0	<0.00020	<0.010	0.080	2.5	<0.010	<0.00020	26.2	<0.0020	<0.025	<0.010	0.0325	<0.030	2.11
P03-05-25	21/09/2006	12:00	M	<0.050	240	0.025	0.029	32.0	<0.00020	<0.010	0.0364	2.4	<0.050	<0.00020	27.9	<0.0020	<0.025	<0.010	0.0041	<0.030	4.23
P03-05-26	07/06/2006	15:45	M	<0.20	42.8	0.55	<0.10	1790	391	<0.00020	<0.010	1.58	16	<0.20	<0.0040	11.0	<0.040	<0.050	<0.040	<0.15	7.55
P03-05-27	07/06/2006	17:20	M	<0.010	42.7	<0.050	113	49.1	<0.00020	<0.010	0.350	4.7	<0.010	<0.00020	26.2	<0.0020	<0.025	<0.010	0.0045	<0.030	0.678
P03-05-28	20/09/2006	12:30	M	<0.050	48.5	<0.025	0.020	37.1	<0.00020	<0.010	0.371	5.2	<0.050	<0.00020	26.8	<0.0020	<0.025	<0.010	0.0049	0.051	0.644
P03-05-29	07/06/2006	12:40	M	<0.020	19.5	<0.010	50.8	5.18	<0.00020	0.0059	<0.020	3.2	<0.020	<0.00020	33.0	<0.0040	<0.010	0.0081	<0.030	<0.030	0.010
P03-05-30	20/09/2006	12:40	M	<0.020	19.9	<0.010	51.2	5.28	<0.00020	0.0070	<0.020	3.4	<0.020	<0.00020	34.7	<0.0040	<0.010	0.0083	<0.030	<0.030	0.011
P03-05-31	19/09/2006	16:40	M	<0.010	0.171	<0.0050	0.0088	24.1	0.042	<0.00020	<0.010	0.0023	<0.010	<0.00020	2.3	<0.0020	<0.0050	<0.010	0.00344	<0.030	<0.0050
P03-05-32	06/06/2006	16:53	M	0.028	0.096	<0.050	25.4	4.58	<0.00020	<0.010	0.0248	<0.010	<0.010	<0.00020	2.1	<0.0020	<0.0050	<0.010	0.00342	<0.030	<0.0070
P03-05-33	06/06/2006	9:50	M	0.026	0.034	<0.050	22.8	3.92	<0.00020	<0.010	0.0192	<0.010	<0.010	<0.00020	11.5	<0.0020	<0.0050	<0.010	0.00281	<0.030	0.062
P03-05-34	07/07/2006	15:05	M	0.028	0.045	<0.050	22.7	4.10	<0.00020	<0.010	0.0201	<0.010	<0.010	<0.00020	7.8	<0.0020	<0.0050	<0.010	0.00259	<0.030	0.059
P03-05-35	07/07/2006	16:00	M	<0.050	0.094	<0.025	23.3	4.17	<0.00020	<0.010	0.0223	<0.010	<0.010	<0.00020	9.3	<0.0020	<0.0050	<0.010	0.00259	<0.030	0.077
P03-05-36	06/06/2006	17:14	M	0.027	0.104	0.104	26.9	5.88	<0.00020	0.0044	0.0254	<0.010	<0.010	<0.00020	12.2	<0.0040	<0.010	0.00423	<0.030	<0.030	0.075
P03-05-37	02/08/2006	10:20	M	0.026	0.030	<0.010	23.0	3.88	<0.00020	<0.010	0.0194	<0.010	<0.010	<0.00020	7.9	<0.0040	<0.010	0.00423	<0.030	<0.030	0.075
P03-05-38	02/08/2006	10:20	M	0.025	<0.030	<0.010	21.8	3.83	<0.00020	<0.010	0.0197	<0.010	<0.010	<0.00020	7.4	<0.0040	<0.010	0.00423	<0.030	<0.030	0.075
P03-05-39	02/08/2006	16:25	M	0.024	0.136	<0.010	28.6	6.68	<0.00020	0.0040	0.0231	<0.010	<0.010	<0.00020	11.6	<0.0040	<0.010	0.00423	<0.030	<0.030	0.075
P03-05-40	01/11/2006	16:25	M	<0.050	0.088	<0.025	28.7	6.68	<0.00020	<0.010	0.0265	<0.010	<0.010	<0.00020	13.0	<0.0040	<0.025	<0.010	0.00425	<0.030	0.019
P03-05-41	06/06/2006	17:30	M	<0.050	0.076	<0.025	28.8	6.73	<0.00020	<0.010	0.0262	<0.010	<0.010	<0.00020	13.0	<0.0040	<0.025	<0.010	0.0044	<0.060	<0.025
P03-05-42	02/08/2006	16:40	M	<0.020	36.9	0.024	44.8	2.66	<0.00020	0.0121	<0.020	2.8	<0.020	<0.00020	40.5	<0.0040	<0.010	0.00732	<0.030	0.0202	0.020
P03-05-43	19/09/2006	16:45	M	<0.020	38.7	<0.010	49.5	2.89	<0.00020	0.0184	<0.020	3.0	<0.020	<0.00020	45.5	<0.0040	<0.010	0.00767	<0.030	0.013	0.013
P03-05-44	01/11/2006	16:55	M	<0.050	34.6	<0.025	45.9	2.82	<0.00020	0.0099	<0.050	<0.010	<0.010	<0.00020	47.7	<0.0040	<0.025	<0.010	0.00822	<0.030	0.023
P03-05-45	06/06/2006	18:00	M	<0.050	43.7	0.069	72.9	5.88	<0.00020	<0.010	<0.050	13.9	<0.050	<0.00020	40.8	<0.0020	<0.025	<0.010	0.0075	<0.060	<0.025
P03-05-46	02/08/2006	10:40	M	<0.050	57.4	<0.025	84.5	7.32	<0.00020	<0.010	<0.050	13.5	<0.050	<0.00020	145	<0.0020	<0.025	<0.010	0.0075	<0.060	<0.025
P03-05-47	19/09/2006	15:15	M	<0.050	54.0	0.111	89.7	7.55	<0.00020	<0.010	<0.050	15.3	<0.050	<0.00020	126	<0.0020	<0.025	<0.010	0.0075	<0.060	<0.025
P03-05-48	06/06/2006	17:15	M	<0.010	61.1	<0.050	80.0	7.25	<0.00020	<0.010	<0.050	15.3	<0.050	<0.00020	126	<0.0020	<0.025	<0.010	0.0075	<0.060	<0.025
P03-05-49	19/09/2006	15:20	M	<0.050	0.405	0.027	80.8	0.542	<0.00020												

Table 6. 2006 Ground Water Quality Data, Faro Mine, Yukon

Well ID	Sample Date	Sample Time	Sample Class ¹	General Chemistry				Anions				Metals										Cobalt mg/L
				pH (Field)	pH (Lab)	Sp. Cond. (Field)	Sp. Cond. (Lab)	Temp. (Field)	Hardness (CaCO ₃)	Alkalinity (Field) as CaCO ₃	Bromide	Sulphate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	
P03-09-04	06/06/2006	12:10	M	6.85	7.99	574	1010	7.6	515	262	286	406	<0.10	<0.010	<0.010	0.019	<0.020	<0.10	0.00037	156	<0.020	0.00397
P03-09-04	02/06/2006	16:10	M	6.33	7.90	603	1180	5.6	601	263	406	406	<0.10	<0.010	<0.010	0.049	<0.020	<0.10	0.00384	189	<0.020	0.00343
P03-09-04	19/09/2006	13:30	M	6.93	8.10	985	699	5.4	699	281	447	447	<0.10	<0.010	<0.010	0.055	<0.020	<0.10	0.00362	208	<0.020	0.00393
P03-09-04	01/11/2006	13:45	M	7.22	7.60	1280	1220	5.3	663	284	458	458	<0.25	<0.025	<0.025	0.046	<0.050	<0.20	0.00413	205	<0.050	0.00353
P03-09-05	06/06/2006	12:30	M	6.92	7.99	546	1010	5.9	505	261	272	272	0.014	<0.010	<0.010	0.039	<0.020	<0.10	0.00034	152	<0.020	0.00411
P03-09-05	06/06/2006	12:30	REP	7.97	7.99	546	1010	5.9	505	259	270	270	<0.10	<0.010	<0.010	0.039	<0.020	<0.10	0.00034	152	<0.020	0.00411
P03-09-05	19/09/2006	14:05	M	6.91	8.11	991	1278	6.0	714	277	454	454	0.013	<0.010	<0.010	0.058	<0.020	<0.10	0.00066	217	<0.020	0.00487
P03-09-06	06/06/2006	13:00	M	7.12	8.02	623	1110	9.4	572	277	355	355	0.015	<0.010	<0.010	0.062	<0.020	<0.10	0.00034	171	<0.020	0.00097
P03-09-06	02/06/2006	16:40	M	7.02	7.90	311	1890	4.6	598	267	331	331	<0.10	<0.010	<0.010	0.074	<0.020	<0.10	0.00039	197	<0.020	0.00100
P03-09-06	19/09/2006	13:55	M	6.85	8.12	966	1220	5.1	668	279	416	416	<0.10	<0.010	<0.010	0.065	<0.050	<0.20	0.000325	185	<0.050	<0.015
P03-09-06	01/11/2006	14:15	M	7.17	7.60	1280	1250	1.6	662	295	382	382	<0.10	<0.010	<0.010	0.069	<0.020	<0.10	0.00034	185	<0.020	0.00132
P03-09-07	06/06/2006	12:50	M	7.04	7.98	624	1150	6.1	609	183	392	392	<0.10	<0.010	<0.010	0.060	<0.020	<0.10	0.000208	198	<0.020	0.00134
P03-09-07	02/06/2006	16:40	M	7.01	7.90	548	1170	5.2	655	260	405	405	<0.10	<0.010	<0.010	0.073	<0.020	<0.10	0.000175	224	<0.020	0.00139
P03-09-07	19/09/2006	14:15	M	6.87	8.09	1035	1340	4.8	735	274	488	488	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00019	234	<0.020	0.00139
P03-09-07	01/11/2006	14:25	M	7.15	7.55	1420	1360	1.4	764	298	544	544	<0.10	<0.010	<0.010	0.074	<0.020	<0.10	0.00037	164	<0.020	0.00249
P03-09-08	06/06/2006	13:12	M	6.91	7.95	493	799	7.7	540	198	248	248	<0.10	<0.010	<0.010	0.074	<0.020	<0.10	0.00037	164	<0.020	0.00249
P03-09-08	06/06/2006	14:40	M	6.98	7.88	1047	1280	6.2	690	289	471	471	<0.10	<0.010	<0.010	0.074	<0.020	<0.10	0.00037	164	<0.020	0.00249
P03-09-09	06/06/2006	13:50	M	6.96	8.03	3128	802	12.0	341	176	250	250	<0.10	<0.010	<0.010	0.080	<0.020	<0.10	0.00086	200	<0.020	0.00175
P03-09-09	02/06/2006	16:55	M	7.02	7.89	549	1170	4.8	660	281	379	379	<0.10	<0.010	<0.010	0.087	<0.020	<0.10	0.00086	200	<0.020	0.00175
P03-09-09	19/09/2006	14:30	M	6.87	7.84	1030	1280	4.6	662	280	474	474	<0.10	<0.010	<0.010	0.072	<0.020	<0.10	0.000116	208	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0.00240
P03-09-09	01/11/2006	14:45	M	7.17	7.58	1370	1350	1.0	743	297	532	532	<0.10	<0.010	<0.010	0.066	<0.020	<0.10	0.00017	228	<0.020	0

Table 6. 2006 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 (CaCO ₃)	Alkalinity (Total) as CaCO ₃	Bromide	Sulphate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	
SRK04-3A	21/09/2006	16:05	SP	7.78	7.78	7150	7150	6.1	4000	114	5930	358	3.58	<0.050	<0.050	0.045	<0.10	<0.10	0.0327	417	<0.10	<0.10	0.650
SRK04-3B	21/09/2006	16:10	M	4.13	3.56	4940	15100	6.1	4020	<20	18500	6.3	18500	<0.10	<0.10	<0.20	<0.20	<0.10	<0.0334	420	<0.10	<0.10	0.258
SRK04-3B	21/09/2006	16:10	M	6.75	4.40	918	11000	6.7	3650	22.8	10500	5.47	10500	<0.050	<0.050	<0.10	<0.10	<0.10	0.0057	420	<0.10	<0.10	0.523
SRK04-5A	21/09/2006	17:48	M	8.00	8.00	448	448	3.9	197	144	98.4	0.0120	0.0120	<0.0050	0.0126	0.056	<0.0010	<0.10	0.00024	55.5	<0.0010	<0.00030	
SRK04-5B	21/09/2006	17:30	M	7.75	8.06	219.8	438	4.8	206	140	89.0	<0.0050	<0.0050	0.0053	0.031	0.031	<0.0010	<0.10	0.00021	55.5	<0.0010	0.00033	
SRK05-05C	21/09/2006	17:10	M	6.81	7.94	1175	1640	5.9	292	240	387	<0.010	0.0053	0.170	0.0053	0.170	<0.0050	<0.10	<0.00018	143	<0.0010	0.0037	
SRK05-06	06/06/2006	10:38	M	7.61	8.13	1453	1260	4.3	790	246	450	<0.025	<0.0025	<0.0025	0.044	0.044	<0.0050	<0.10	0.00045	163	<0.0050	<0.0015	
SRK05-06	19/09/2006	15:58	M	7.48	-	1531	-	8.4	-	-	-	-	-	<0.0025	<0.0025	0.055	<0.0050	<0.10	0.000425	226	<0.0050	<0.0015	
SRK05-07	19/09/2006	15:58	M	7.79	7.79	2580	2580	6.2	1790	765	1080	0.033	0.033	0.032	0.0256	0.141	<0.0050	<0.10	0.00042	348	<0.0050	0.0146	
SRK05-08	07/06/2006	15:25	M	7.04	7.04	876	1510	4.5	916	500	458	0.016	0.016	0.032	0.0256	0.141	<0.0050	<0.10	0.00042	194	<0.0050	0.0128	
SRK05-09	19/09/2006	13:36	M	7.78	7.78	1501	1600	5.2	975	519	494	<0.025	<0.0025	<0.0025	0.032	0.032	<0.0050	<0.10	0.00042	212	<0.0050	0.0115	
SRK05-09	09/06/2006	10:50	M	7.44	8.06	1312	1310	3.1	830	239	480	<0.025	<0.0025	<0.0025	0.061	0.061	<0.0050	<0.10	0.00042	171	<0.0050	<0.0015	
SRK05-09	19/09/2006	16:35	M	7.12	7.86	1576	1630	5.7	1030	332	676	<0.025	<0.0025	<0.0025	0.082	0.082	<0.0050	<0.10	0.00042	224	<0.0050	<0.0015	
SRK05-09	19/09/2006	12:30	M	5.58	5.98	6280	6230	6.1	3560	46.9	5750	<0.050	<0.0050	<0.0050	0.059	0.059	<0.0050	<0.10	0.00042	418	<0.10	0.610	
SRK05-09A-BR1	21/09/2006	15:06	M	7.05	5.63	698	6750	5.5	3480	114	5750	1.68	1.68	<0.050	<0.050	<0.10	<0.10	<0.10	0.0368	412	<0.10	0.723	
SRK05-09A-BR2	21/09/2006	15:02	M	6.82	7.00	2183	2130	7.1	1260	119	1360	<0.025	<0.0025	<0.0025	0.065	0.065	<0.0050	<0.10	0.00042	358	<0.0050	0.0189	
SRK05-09A-BR2	21/09/2006	15:37	M	7.43	6.71	4495	2250	5.5	1460	112	446	<0.025	<0.0025	<0.0025	0.065	0.065	<0.0050	<0.10	0.00042	444	<0.0050	0.0255	
SRK05-09A-BR2	21/09/2006	16:05	M	3.00	6.59	1221	1190	2.1	595	263	457	0.096	0.096	<0.0010	0.0049	0.028	0.0028	<0.10	0.00048	147	<0.0020	0.00574	
SRK05-09A-BR2	21/09/2006	13:25	M	5.73	6.37	1996	1160	3.1	668	249	457	0.096	0.096	<0.0010	0.0049	0.028	0.0028	<0.10	0.00048	166	<0.0020	0.00574	
SRK05-09A-BR2	21/09/2006	16:35	M	6.12	7.07	1146	1110	2.3	638	405	276	0.022	<0.0010	0.0094	0.038	0.038	<0.0020	<0.10	0.00048	164	<0.0020	0.00574	
SRK05-09A-BR2	21/09/2006	16:35	M	6.23	6.85	898	959	2.8	593	354	217	0.015	<0.0010	0.0113	0.049	0.049	<0.0020	<0.10	0.00048	150	<0.0020	0.00391	
SRK05-09A-BR2	21/09/2006	16:35	M	6.25	7.23	331	333	3.0	167	141	40.4	0.014	<0.0050	<0.0050	0.055	0.055	<0.0010	<0.10	0.00042	46.1	<0.0010	0.00233	
SRK05-09A-BR2	21/09/2006	16:00	M	6.21	6.96	315.1	339	2.5	192	156	44.6	0.014	<0.0050	<0.0050	0.062	0.062	<0.0010	<0.10	0.00042	51.5	<0.0010	0.00216	
SRK05-09A-BR2	21/09/2006	13:00	M	5.92	7.01	562	960	2.2	505	316	268	0.046	<0.0010	0.0021	0.027	0.027	<0.0020	<0.10	0.00042	118	<0.0020	0.00404	
SRK05-09A-BR2	21/09/2006	14:33	M	5.97	6.65	920	958	2.2	611	324	239	0.039	<0.0010	0.0021	0.033	0.033	<0.0020	<0.10	0.00042	143	<0.0020	0.00332	
SRK05-09A-BR2	21/09/2006	15:20	M	5.86	6.97	530	920	2.0	511	283	263	0.037	<0.0010	0.0021	0.033	0.033	<0.0020	<0.10	0.00042	124	<0.0020	0.00332	
SRK05-09A-BR2	21/09/2006	14:42	M	5.86	6.93	886	945	2.4	610	332	257	0.027	<0.0010	0.0021	0.033	0.033	<0.0020	<0.10	0.00042	148	<0.0020	0.00332	
SRK05-09A-BR2	21/09/2006	11:30	M	5.96	6.63	758	730	3.1	382	254	179	0.045	<0.0010	0.0050	0.038	0.038	<0.0020	<0.10	0.00042	93.7	<0.0020	0.00976	
SRK05-09A-BR2	21/09/2006	14:00	M	5.97	6.61	723	723	3.4	518	254	173	0.033	<0.0010	0.0050	0.037	0.037	<0.0020	<0.10	0.00042	127	<0.0020	0.00855	
SRK05-09A-BR2	21/09/2006	11:50	M	5.92	6.84	3690	6350	2.4	4520	171	4790	<0.050	<0.0050	<0.0050	<0.10	<0.10	<0.10	<0.10	0.00042	406	<0.10	0.830	
SRK05-09A-BR2	21/09/2006	13:30	M	5.84	6.66	5370	6160	5.7	4830	283	3660	<0.050	<0.0050	<0.0050	<0.10	<0.10	<0.10	<0.10	0.00042	497	<0.10	0.830	
SRK05-09A-BR2	21/09/2006	13:30	SP	6.72	6.72	6160	6160	6.72	4830	283	3660	<0.050	<0.0050	<0.0050	<0.10	<0.10	<0.10	<0.10	0.00042	497	<0.10	0.830	
SRK05-09A-BR2	21/09/2006	16:35	M	6.83	6.66	2103	6170	5.7	4510	285	3800	<0.050	<0.0050	<0.0050	<0.10	<0.10	<0.10	<0.10	0.00042	500	<0.10	0.830	
SRK05-09A-BR2	21/09/2006	10:45	M	5.86	6.93	5650	6080	3.3	4840	248	480	0.01	<0.025	<0.025	<0.10	<0.10	<0.10	<0.10	0.00042	511	<0.10	0.830	
SRK05-09A-BR2	21/09/2006	18:55	M	7.23	7.82	166.5	166	2.5	85.6	73.8	13.6	0.051	<0.0050	<0.0050	0.046	0.046	<0.0010	<0.10	0.00042	581	<0.050	0.020	
TH16-17	06/06/2006	18:55	M	7.08	7.69	156	170	6.3	86.3	86.4	14.7	0.067	<0.0050	<0.0050	0.059	0.059	<0.0010	<0.10	0.00042	72.9	<0.0010	<0.00030	
TH16-17	20/09/2006	9:15	M	7.70	8.06	7.9	844	812.0	504	483	61.4	0.0002	<0.0050	<0.0050	0.091	0.091	<0.0010	<0.10	0.00042	73.3	<0.0010	0.00041	
V34	07/06/2006	10:10	M	7.30	8.05	794	863	4.4	534	460	71.6	0.050	<0.0050	<0.0050	0.087	0.087	<0.0010	<0.10	0.00042	78.0	<0.0010	0.00042	
V35	07/06/2006	9:55	M	7.35	7.84	2037	2800	6.4	1910	643	1480	<0.025	<0.0025	<0.0025	0.108	0.108	<0.0010	<0.10	0.00042	398	<0.0010	0.00042	
V35	18/09/2006	10:40	M	7.01	7.72	2723	2940	3.3	2230	655	1480	<0.025	<0.0025	<0.0025	0.108	0.108	<0.0010	<0.10	0.00042	398	<0.0010	0.00042	
V36	07/06/2006	14:05	M	7.18	7.84	1498	1510	4.7	960	443	558	<0.025	<0.0025	<0.0025	0.108	0.108	<0.0010	<0.10	0.00042	471	<0.0010	0.00042	
V36	19/09/2006	12:10	M	7.42	7.72	1420	1520	3.1	1020	425	530	<0.010	<0.010	<0.010	0.0057	0.0057	<0.0020	<0.10	0.00042	210	<0.0020	0.00122	
V37	19/09/2006	14:30	M	7.78	8.19	818	785	3.8	427	450	71.7	<0.0050	0.00241	0.00241	0.168	0.168	<0.0010	<0.10	0.00042	58.5	<0.0010	0.00042	
V37	19/09/2006	12:30	M	7.62	8.05	711	770	3.8	469	402	66.2	0.0078	<0.0050	<0.0050	0.0023	0.0023	<0.0010	<0.10	0.00042	63.0	<0.0010	0.00042	
X16A	06/06/2006	14:07	M	7.58	8.09	323.4	322	3.2	184	151	25.3	<0.010	<0.0050	<0.0050	0.090	0.090	<0.0010	<0.10	0.00042	52.8	<0.0010	<0.00042	
X16B	06/06/2006	14:25	M	6.98	8.08	398	326	3.6	179	165	36.2	<0.010	<0.0050	<0.0050	0.104	0.104	<0.0050	<0.10	0.00042	49.9	<0.0050	<0.00042	
X16B	06/06/2006	14:45	M	7.00	8.20	405.6	402	4.4	236	208	22.1	<0.050	<0.0050	<0.0050	0.152	0.152	<0.0010	<0.10	0.00042	61.9	<0.0010	<0.00042	
X16B	21/09/2006	13:33	M	7.50	8.12	342	397	6.0	239	284	24.7	<0.010	<0.0050	<0.0050	0.157	0.157	<0.0050	<0.10	0.00042	65.7	<0.0050	<0.00042	
X17A	06/06/2006	17:55	M	7.46	8.15	563	557	2.8	329	289	43.0	<0.0050	<0.0050	<0.0050	0.206	0.206	<0.0010	<0.10	0.00042	89.7	<0.0010	<0.00042	
X17A																							

Well ID	Sample Date	Sample Time	Sample Class	Copper	Iron	Lead	Lithium	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Titanium	Tin	Vanadium	Zinc	
SRK04-3A	22/09/2006	16:05	SP	<0.10	846	<0.20	<0.10	718	75.6	0.000028	<0.10	1.12	13.4	<0.10	<0.10	<0.020	<0.050	0.002	<0.020	<0.080	438
SRK04-3B	14/06/2006	10:10	M	<0.10	7806	<0.10	<0.10	721	78.3	<0.000010	<0.20	0.30	<0.10	<0.10	<0.10	<0.040	<0.10	<0.040	<0.30	754	
SRK04-3B	22/09/2006	16:10	M	<0.10	7806	<0.10	<0.10	721	78.3	<0.000010	<0.20	0.30	<0.10	<0.10	<0.10	<0.040	<0.10	<0.040	<0.30	754	
SRK04-5B	07/06/2006	17:30	M	<0.010	1.27	0.00018	0.010	1.42	0.00064	0.010	0.018	15.3	0.000179	0.000179	0.000179	<0.00050	<0.00050	0.000117	<0.030	0.030	
SRK04-5C	21/09/2006	10:10	M	<0.010	1.24	<0.0025	<0.030	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	
SRK05-6C	08/06/2006	10:30	M	<0.010	1.24	<0.0025	<0.030	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	
SRK05-6F	19/09/2006	15:58	M	<0.0092	<0.030	0.000179	<0.030	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	
SRK05-7	19/09/2006	13:40	M	<0.0092	<0.030	0.000179	<0.030	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	
SRK05-8	07/06/2006	15:25	M	<0.010	0.11	<0.0025	<0.030	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	
SRK05-8	19/09/2006	13:36	M	<0.010	0.11	<0.0025	<0.030	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	
SRK05-9	08/06/2006	10:50	M	<0.010	0.11	<0.0025	<0.030	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	
SRK05-9	19/09/2006	16:25	M	<0.010	0.11	<0.0025	<0.030	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	
SRK05-E1A-B1	14/06/2006	11:02	M	<0.010	43.0	<0.0025	<0.030	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	
SRK05-E1A-B2	22/09/2006	15:06	M	<0.010	43.0	<0.0025	<0.030	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	
SRK05-E1A-B3	22/09/2006	15:37	M	<0.010	44.9	<0.0025	<0.030	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	0.000179	
SRK05-SF-1A	06/06/2006	16:05	M	<0.010	44.1	<0.0025	<0.030														

Table 6. 2006 Ground Water Quality Data, Faro Mine, Yukon

Well ID	Sample Date	Sample Time	Sample Class ^(*)	Copper	Iron	Lead	Lithium	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc
X24A-96	21/09/2006	13:45	M	<0.0050	<0.030	<0.0050	<0.050	99.5	24.4	<0.00020	<0.0050	0.113	6.5	<0.0050	<0.00025	35.4	<0.0010	<0.010	<0.050	0.0085	0.036	<0.0050
X24A-96	01/11/2006	9:59	M	<0.0020	1.09	<0.010	<0.10	97.8	41.4	<0.00020	<0.020	0.072	6.5	<0.020	<0.00040	37.2	<0.0040	<0.010	<0.020	0.0081	<0.060	1.84
X24D-96	09/06/2006	11:47	M	<0.010	<0.030	<0.0050	<0.050	102	44.7	<0.00020	<0.010	0.177	6.4	<0.010	<0.00020	49.3	<0.0020	<0.0050	<0.010	0.0053	<0.030	0.290
X24D-96	09/06/2006	11:47	REP	<0.010	<0.030	<0.0050	<0.050	104	45.6	<0.00020	<0.010	0.184	6.8	<0.010	<0.00020	45.5	<0.0020	<0.0050	<0.010	0.0056	<0.030	0.290
X24D-96	02/08/2006	15:50	M	<0.010	<0.030	<0.0050	<0.050	121	48.5	<0.00020	<0.010	0.177	6.7	<0.010	<0.00020	49.0	<0.0020	<0.0050	<0.010	0.0053	<0.030	0.290
X24D-96	21/09/2006	15:22	M	<0.0050	<0.030	<0.0050	<0.050	120	50.5	<0.00020	<0.0050	0.177	7.2	<0.0050	<0.00025	46.9	<0.0010	<0.010	<0.050	0.0050	0.060	0.4926
X24D-96	01/11/2006	10:50	M	<0.020	<0.060	<0.010	<0.10	112	50.0	<0.00020	<0.020	0.196	7.2	<0.020	<0.00040	46.1	<0.0040	<0.010	<0.020	0.0054	<0.060	<0.10
X25A-96	09/06/2006	13:10	M	0.0037	0.049	<0.010	<0.010	31.8	5.43	<0.00020	<0.0020	0.0084	2.9	<0.0020	<0.00040	24.2	<0.0040	<0.010	<0.010	0.00894	<0.030	0.441
X25A-96	02/08/2006	17:55	M	0.0032	<0.030	<0.010	<0.010	34.5	5.26	<0.00020	<0.0020	0.0082	3.4	<0.0020	<0.00040	25.1	<0.0040	<0.010	<0.010	0.00892	<0.030	<0.10
X25A-96	21/09/2006	12:08	M	0.0030	<0.030	<0.010	<0.010	34.5	4.33	<0.00020	<0.0020	<0.010	4.2	<0.0020	<0.00040	27.1	<0.0040	<0.010	<0.010	0.00885	<0.030	0.0132
X25A-96	01/11/2006	11:40	M	<0.0050	<0.060	<0.025	<0.025	33.8	3.89	<0.00020	<0.0050	0.0071	4.2	<0.0050	<0.00040	26.5	<0.0010	<0.025	<0.020	0.0093	<0.060	<0.025
X25B-96	09/06/2006	12:54	M	<0.0020	0.622	<0.010	<0.010	28.4	0.169	<0.00020	<0.0020	<0.0020	2.5	<0.0020	<0.00040	49.4	<0.0040	<0.010	<0.010	0.00531	<0.030	0.030
X25B-96	02/08/2006	17:59	M	<0.0020	0.680	<0.010	<0.010	30.7	0.157	<0.00020	<0.0020	<0.0020	2.7	<0.0020	<0.00040	51.2	<0.0040	<0.010	<0.010	0.00494	<0.030	<0.10
X25B-96	21/09/2006	11:09	M	<0.0020	0.686	<0.0020	<0.050	28.2	0.163	<0.00020	<0.0020	<0.010	2.7	<0.0020	<0.00040	48.4	<0.0040	<0.010	<0.010	0.00508	<0.030	<0.0050
X25B-96	01/11/2006	11:51	M	<0.0050	0.622	<0.0025	<0.025	28.3	0.176	<0.00020	<0.0050	<0.0050	<4.0	<0.0050	<0.00040	48.2	<0.0010	<0.025	<0.020	0.0052	<0.060	<0.025

Notes:

(*) Denotes Quality Control Samples: REP - replicate sample; SP - split sample

Appendices



Appendix A

Original Laboratory Reports

ALS Environmental Laboratories

ALS X6957 – June 23, 2006

ALS X7082 – June 27, 2006

ALS X7083 – June 27, 2006

ALS X7084 – July 4, 2006

ALS X7089 – July 4, 2006

ALS X7094 – June 29, 2006

ALS X7095 – July 5, 2006

ALS X7433 – July 5, 2006

ALS X7471 – July 10, 2006

ALS X9793 – August 21, 2006

ALS X9794 – August 17, 2006

ALS Z3051 – October 10, 2006

ALS Z3052 – October 10, 2006

ALS Z3053 – October 10, 2006

ALS Z3054 – October 10, 2006

ALS Z3064 – October 12, 2006

ALS Z3072 – October 12, 2006

ALS Z3083 – October 13, 2006

ALS Z3084 – October 12, 2006

ALS Z3085 – October 12, 2006

ALS Z3086 – INTERIM

ALS L451213 – November 23, 2006





CERTIFICATE OF ANALYSIS

Date: June 23, 2006

ALS File No. X6957

Report On: Faro 2006 Water Analysis

Report To: **Gartner Lee Ltd.**
2251 2nd Ave
Whitehorse, YT
Y1A 5W1

Attention: **Ms. Jen Funston**

Received: June 8, 2006

ALS ENVIRONMENTAL

per:

Can Dang, B.Sc. - Senior Account Manager
Janice Pearson, - Account Manager

File No. X6957

REMARKS



The detection limits for the metals were increased for the samples reported due to sample matrix interferences.

File No. X6957

RESULTS OF ANALYSIS - Water



Sample ID	S1-A	S1-B	S3	SRK-05- SP5	P05-04
Sample Date	06-06-05	06-06-05	06-06-05	06-06-05	06-06-05
Sample Time	17:20	18:00	18:40	16:45	12:18
ALS ID	1	2	3	4	5

Physical Tests

Conductivity	(uS/cm)	6030	1420	6620	6170	379
Hardness	CaCO3	4490	744	4960	4510	191
pH		6.49	7.12	6.48	6.66	7.16

Dissolved Anions

Alkalinity-Total		CaCO3	203	161	211	235	152
Sulphate	SO4		495	585	535	480	47.8

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID	S1-A	S1-B	S3	SRK-05-SP5	P05-04
Sample Date	06-06-05	06-06-05	06-06-05	06-06-05	06-06-05
Sample Time	17:20	18:00	18:40	16:45	12:18
ALS ID	1	2	3	4	5

Dissolved Metals

Aluminum	D-Al	0.88	0.168	1.69	0.81	0.0402
Antimony	D-Sb	<0.025	<0.0050	<0.050	<0.025	<0.00050
Arsenic	D-As	<0.025	<0.0050	<0.050	<0.025	<0.00050
Barium	D-Ba	<0.040	0.027	<0.040	<0.040	0.045
Beryllium	D-Be	<0.050	<0.010	<0.10	<0.050	<0.0010
Boron	D-B	<0.20	<0.10	<0.20	<0.20	<0.10
Cadmium	D-Cd	0.0121	0.00061	0.0031	0.0219	0.00259
Calcium	D-Ca	532	202	523	511	53.1
Chromium	D-Cr	<0.050	<0.010	<0.10	<0.050	<0.0010
Cobalt	D-Co	0.018	<0.0030	0.046	0.017	0.00061
Copper	D-Cu	<0.050	<0.010	<0.10	<0.050	<0.0010
Iron	D-Fe	<0.060	0.190	2.07	<0.060	<0.030
Lead	D-Pb	<0.025	<0.0050	<0.050	<0.025	<0.00050
Lithium	D-Li	<0.25	<0.050	<0.50	<0.25	0.0158
Magnesium	D-Mg	768	58.3	888	786	14.3
Manganese	D-Mn	54.2	0.471	125	75.6	0.0118
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.050	<0.010	<0.10	<0.050	<0.0010
Nickel	D-Ni	1.32	0.011	1.95	1.70	0.0092
Potassium	D-K	9.8	2.4	11.0	9.2	<2.0
Selenium	D-Se	<0.050	<0.010	<0.10	<0.050	<0.0010
Silver	D-Ag	<0.0010	<0.00020	<0.0020	<0.0010	<0.000020
Sodium	D-Na	44.0	33.9	26.3	36.3	5.1
Thallium	D-Tl	<0.010	<0.0020	<0.020	<0.010	<0.00020
Tin	D-Sn	<0.025	<0.0050	<0.050	<0.025	<0.00050
Titanium	D-Ti	<0.020	<0.010	<0.020	<0.020	<0.010
Uranium	D-U	<0.010	<0.0020	<0.020	0.011	0.00083
Vanadium	D-V	<0.060	<0.030	<0.060	<0.060	<0.030
Zinc	D-Zn	142	0.112	295	211	1.54

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X6957

RESULTS OF ANALYSIS - Water



Sample ID	P05-041	P96-6	P96-7	BH1	BH2
Sample Date	06-06-05	06-06-05	06-06-05	06-06-05	06-06-05
Sample Time	12:18	10:55	16:45	10:00	11:10
ALS ID	6	7	8	9	10

Physical Tests

	(uS/cm)					
Conductivity		379	1210	2540	389	767
Hardness	CaCO3	188	698	1600	200	415
pH		7.11	6.72	7.55	7.37	6.83

Dissolved Anions

		CaCO3				
Alkalinity-Total		161	432	256	142	91.8
Sulphate	SO4	45.6	298	1220	51.3	23.0

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID	P05-041	P96-6	P96-7	BH1	BH2
Sample Date	06-06-05	06-06-05	06-06-05	06-06-05	06-06-05
Sample Time	12:18	10:55	16:45	10:00	11:10
ALS ID	6	7	8	9	10

Dissolved Metals

Aluminum	D-Al	0.0414	0.078	0.147	0.0884	0.647
Antimony	D-Sb	<0.00050	<0.0025	<0.0050	<0.00050	<0.0025
Arsenic	D-As	<0.00050	<0.0025	<0.0050	<0.00050	<0.0025
Barium	D-Ba	0.045	0.025	<0.020	0.047	0.074
Beryllium	D-Be	<0.0010	<0.0050	<0.010	<0.0010	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.00257	0.000334	<0.00017	0.00443	0.0412
Calcium	D-Ca	51.8	179	430	56.7	112
Chromium	D-Cr	<0.0010	<0.0050	<0.010	<0.0010	<0.0050
Cobalt	D-Co	0.00061	<0.0015	<0.0030	0.00284	0.0046
Copper	D-Cu	<0.0010	<0.0050	<0.010	0.0044	<0.0050
Iron	D-Fe	0.030	0.068	<0.030	<0.030	<0.030
Lead	D-Pb	<0.00050	<0.0025	<0.0050	0.00379	<0.0025
Lithium	D-Li	0.0158	0.043	<0.050	0.0156	<0.025
Magnesium	D-Mg	14.3	61.1	128	14.3	32.7
Manganese	D-Mn	0.0111	0.0920	<0.0030	0.536	0.474
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0010	<0.0050	<0.010	<0.0010	<0.0050
Nickel	D-Ni	0.0093	0.0214	<0.010	0.0093	0.116
Potassium	D-K	<2.0	3.7	4.9	<2.0	2.8
Selenium	D-Se	<0.0010	<0.0050	<0.010	<0.0010	<0.0050
Silver	D-Ag	<0.000020	<0.00010	<0.00020	<0.000020	<0.00010
Sodium	D-Na	5.2	8.2	15.1	4.7	6.2
Thallium	D-Tl	<0.00020	<0.0010	<0.0020	<0.00020	<0.0010
Tin	D-Sn	<0.00050	<0.0025	<0.0050	<0.00050	<0.0025
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.00086	0.0185	0.0249	0.00098	<0.0010
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	1.49	0.840	0.015	1.37	24.0

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X6957

RESULTS OF ANALYSIS - Water



Sample ID	BH4	BH12A	BH12B	BH14A	BH14B
Sample Date	06-06-05	06-06-05	06-06-05	06-06-05	06-06-05
Sample Time	10:27	13:20	13:30	12:06	12:20
ALS ID	11	12	13	14	15

Physical Tests

Conductivity	(uS/cm)	432	2550	2490	3700	3440
Hardness	CaCO3	222	1650	1620	2750	2170
pH		7.04	7.35	7.50	7.65	7.77

Dissolved Anions

Alkalinity-Total		CaCO3	130	230	230	411	393
Sulphate	SO4		261	135	133	201	182

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID		BH4	BH12A	BH12B	BH14A	BH14B
Sample Date		06-06-05	06-06-05	06-06-05	06-06-05	06-06-05
Sample Time		10:27	13:20	13:30	12:06	12:20
ALS ID		11	12	13	14	15
Dissolved Metals						
Aluminum	D-Al	0.289	0.174	0.201	0.202	0.100
Antimony	D-Sb	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic	D-As	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050
Barium	D-Ba	0.030	0.084	0.079	<0.020	<0.020
Beryllium	D-Be	<0.0010	<0.010	<0.010	<0.010	<0.010
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.00451	0.00095	0.00081	<0.00017	<0.00017
Calcium	D-Ca	64.4	408	391	706	553
Chromium	D-Cr	<0.0010	<0.010	<0.010	<0.010	<0.010
Cobalt	D-Co	0.0144	<0.0030	<0.0030	<0.0030	<0.0030
Copper	D-Cu	0.0133	<0.010	<0.010	<0.010	<0.010
Iron	D-Fe	0.036	<0.030	<0.030	<0.030	<0.030
Lead	D-Pb	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050
Lithium	D-Li	0.0167	<0.050	<0.050	0.058	0.053
Magnesium	D-Mg	14.9	154	156	240	192
Manganese	D-Mn	0.189	<0.0030	<0.0030	<0.0030	<0.0030
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0010	<0.010	<0.010	<0.010	<0.010
Nickel	D-Ni	0.0238	0.028	0.031	<0.010	<0.010
Potassium	D-K	<2.0	4.7	4.8	4.3	4.6
Selenium	D-Se	<0.0010	<0.010	<0.010	<0.010	<0.010
Silver	D-Ag	<0.000020	<0.00020	<0.00020	<0.00020	<0.00020
Sodium	D-Na	4.8	10.9	10.9	18.7	16.3
Thallium	D-Tl	<0.00020	<0.0020	<0.0020	<0.0020	<0.0020
Tin	D-Sn	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	<0.00020	0.0092	0.0092	0.139	0.146
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	2.37	0.558	0.683	0.097	0.155

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X6957

RESULTS OF ANALYSIS - Water



Sample ID	DP4	DP5
Sample Date	06-06-05	06-06-05
Sample Time	19:00	13:54
ALS ID	16	17

Physical Tests

Conductivity	(uS/cm)	6510	544
Hardness	CaCO3	-	321
pH		6.90	7.54

Dissolved Anions

Alkalinity-Total		CaCO3	198	222
Sulphate	SO4		5390	80.5

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X6957

RESULTS OF ANALYSIS - Water



Sample ID	DP5
Sample Date	06-06-05
Sample Time	13:54
ALS ID	17

Dissolved Metals

Aluminum	D-Al	0.0324
Antimony	D-Sb	<0.00050
Arsenic	D-As	0.00230
Barium	D-Ba	0.106
Beryllium	D-Be	<0.0010
Boron	D-B	<0.10
Cadmium	D-Cd	0.000063
Calcium	D-Ca	90.3
Chromium	D-Cr	<0.0010
Cobalt	D-Co	0.00433
Copper	D-Cu	<0.0010
Iron	D-Fe	2.83
Lead	D-Pb	<0.00050
Lithium	D-Li	0.0308
Magnesium	D-Mg	23.3
Manganese	D-Mn	0.326
Mercury	D-Hg	<0.000020
Molybdenum	D-Mo	<0.0010
Nickel	D-Ni	0.0091
Potassium	D-K	2.5
Selenium	D-Se	<0.0010
Silver	D-Ag	<0.000020
Sodium	D-Na	7.4
Thallium	D-Tl	<0.00020
Tin	D-Sn	<0.00050
Titanium	D-Ti	<0.010
Uranium	D-U	0.00279
Vanadium	D-V	<0.030
Zinc	D-Zn	0.420

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X6957

Appendix 1 - QUALITY CONTROL - Replicates



Water	P05-041	P05-041	BH12A	BH12A
	06-06-05 12:18	QC # 505493	06-06-05 13:20	QC # 505494

Physical Tests

Conductivity	(uS/cm)	379	378	2550	2550
Hardness	CaCO3	-	-	1650	1620
pH		7.11	7.10	7.35	7.47

Dissolved Anions

Alkalinity-Total		CaCO3	161	150	230	234
Sulphate	SO4		45.6	44.5	135	136

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

Appendix 2 - METHODOLOGY



Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

Conductivity in Water

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

pH in Water

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.

Recommended Holding Time:

Sample: 2 hours

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Colourimetry

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

Recommended Holding Time:

Sample: 14 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Sulphate in Water

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

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Appendix 2 - METHODOLOGY - Continued



Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:

Sample: 6 months

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 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).

Recommended Holding Time:

Sample: 28 days

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Results contained within this certificate relate only to the samples as submitted.

This Certificate Of Analysis shall only be reproduced in full, except with the written approval of ALS Environmental.

End of Report



CERTIFICATE OF ANALYSIS

Date: June 27, 2006
ALS File No. X7082
Report On: Faro 2006 Water Analysis
Report To: **Gartner Lee Ltd.**
2251 2nd Ave
Whitehorse, YT
Y1A 5W1
Attention: **Ms. Jen Funston**
Received: June 12, 2006

ALS ENVIRONMENTAL

per:

Can Dang, B.Sc. - Senior Account Manager
Janice Pearson, - Account Manager

File No. X7082

REMARKS



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

File No. X7082

RESULTS OF ANALYSIS - Water



Sample ID	P01-51	P01-52A	P01-52B	P96-9A	P96-9A1
Sample Date	06-06-07	06-06-07	06-06-07	06-06-07	06-06-07
Sample Time	11:35	12:30	12:54	16:50	16:55
ALS ID	1	2	3	4	5

Physical Tests

Conductivity	(uS/cm)	1050	1320	1230	2550	2570
Hardness	CaCO3	406	805	731	1690	1730
pH		8.17	7.93	8.05	7.74	7.78

Dissolved Anions

Alkalinity-Total		CaCO3	335	489	492	443	389
Sulphate	SO4		288	349	294	1400	1400

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID	P01-51	P01-52A	P01-52B	P96-9A	P96-9A1
Sample Date	06-06-07	06-06-07	06-06-07	06-06-07	06-06-07
Sample Time	11:35	12:30	12:54	16:50	16:55
ALS ID	1	2	3	4	5

Dissolved Metals

Aluminum	D-Al	0.016	0.043	<0.010	0.026	0.127
Antimony	D-Sb	<0.0010	<0.0010	<0.0010	<0.0025	<0.0025
Arsenic	D-As	0.0174	0.0291	0.0119	<0.0025	<0.0025
Barium	D-Ba	0.033	<0.020	0.039	0.046	0.048
Beryllium	D-Be	<0.0020	<0.0020	<0.0020	<0.0050	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.000034	<0.000034	<0.000034	0.000614	0.000614
Calcium	D-Ca	93.6	174	154	301	307
Chromium	D-Cr	<0.0020	<0.0020	<0.0020	<0.0050	<0.0050
Cobalt	D-Co	<0.00060	<0.00060	<0.00060	<0.0015	<0.0015
Copper	D-Cu	<0.0020	<0.0020	<0.0020	<0.0050	0.0056
Iron	D-Fe	<0.030	1.71	1.79	<0.030	<0.030
Lead	D-Pb	<0.0010	<0.0010	<0.0010	<0.0025	<0.0025
Lithium	D-Li	0.011	0.028	0.029	<0.025	<0.025
Magnesium	D-Mg	41.8	89.8	83.9	229	235
Manganese	D-Mn	0.00679	0.136	0.334	0.118	0.116
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	0.0719	0.0037	0.0051	<0.0050	<0.0050
Nickel	D-Ni	<0.0020	<0.0020	<0.0020	0.0091	0.0092
Potassium	D-K	2.7	3.6	4.1	3.3	3.4
Selenium	D-Se	<0.0020	<0.0020	<0.0020	<0.0050	<0.0050
Silver	D-Ag	<0.000040	<0.000040	<0.000040	<0.00010	<0.00010
Sodium	D-Na	100	7.5	10.9	12.3	12.8
Thallium	D-Tl	<0.00040	<0.00040	<0.00040	<0.0010	<0.0010
Tin	D-Sn	<0.0010	<0.0010	<0.0010	<0.0025	<0.0025
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.00207	0.0235	0.0153	0.0268	0.0273
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.0052	0.0075	0.0083	0.0255	0.0247

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7082

RESULTS OF ANALYSIS - Water



Sample ID	SRK04-5A	SRK04-5B	SRK05-08	S2A	S2B
Sample Date	06-06-07	06-06-07	06-06-07	06-06-06	06-06-06
Sample Time	17:40	17:45	15:25	10:30	10:58
ALS ID	6	7	8	9	10

Physical Tests

Conductivity	(uS/cm)	448	430	1510	5930	4400
Hardness	CaCO3	197	206	916	4430	3420
pH		8.08	8.06	7.89	7.09	6.99

Dissolved Anions

Alkalinity-Total		CaCO3	144	140	500	210	150
Sulphate	SO4		98.4	89.0	458	4650	3070

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X7082

RESULTS OF ANALYSIS - Water

Sample ID		SRK04-5A	SRK04-5B	SRK05-08	S2A	S2B
Sample Date		06-06-07	06-06-07	06-06-07	06-06-06	06-06-06
Sample Time		17:40	17:45	15:25	10:30	10:58
ALS ID		6	7	8	9	10
Dissolved Metals						
Aluminum	D-Al	0.0120	<0.0050	0.016	<0.25	<0.10
Antimony	D-Sb	<0.00050	<0.00050	<0.0010	<0.025	<0.010
Arsenic	D-As	0.0126	0.00593	<0.0010	<0.025	<0.010
Barium	D-Ba	0.056	0.031	0.057	<0.040	0.043
Beryllium	D-Be	<0.0010	<0.0010	<0.0020	<0.050	<0.020
Boron	D-B	<0.10	<0.10	<0.10	<0.20	<0.20
Cadmium	D-Cd	0.000024	0.000021	0.000042	0.0205	0.00600
Calcium	D-Ca	53.8	55.5	194	512	639
Chromium	D-Cr	<0.0010	<0.0010	<0.0020	<0.050	<0.020
Cobalt	D-Co	<0.00030	0.00033	0.00128	0.018	0.0191
Copper	D-Cu	<0.0010	<0.0010	<0.0020	<0.050	<0.020
Iron	D-Fe	1.27	1.42	<0.030	1.36	94.6
Lead	D-Pb	0.00138	0.00064	<0.0010	<0.025	<0.010
Lithium	D-Li	0.0078	0.0101	0.011	<0.25	<0.10
Magnesium	D-Mg	15.3	16.3	105	766	444
Manganese	D-Mn	0.0887	0.0536	0.0161	77.5	33.6
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	0.0199	0.0174	<0.0020	<0.050	<0.020
Nickel	D-Ni	<0.0010	<0.0010	<0.0020	1.73	0.524
Potassium	D-K	<2.0	<2.0	<2.0	9.6	4.8
Selenium	D-Se	<0.0010	<0.0010	<0.0020	<0.050	<0.020
Silver	D-Ag	<0.000020	<0.000020	<0.000040	<0.0010	<0.00040
Sodium	D-Na	19.5	18.6	7.4	32.4	23.1
Thallium	D-Tl	<0.00020	<0.00020	<0.00040	<0.010	<0.0040
Tin	D-Sn	<0.00050	<0.00050	<0.0010	<0.025	<0.010
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.020	<0.020
Uranium	D-U	0.00117	0.00142	0.0132	<0.010	<0.0040
Vanadium	D-V	<0.030	<0.030	<0.030	<0.060	<0.060
Zinc	D-Zn	0.0530	0.402	0.0092	202	68.4

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7082

RESULTS OF ANALYSIS - Water



Sample ID	TH17-86	SRK05- SP1A	SRK05- SP1B	SRK05- SP2	SRK05- SP3A
Sample Date	06-06-06	06-06-06	06-06-06	06-06-06	06-06-06
Sample Time	18:55	16:05	16:25	16:55	13:00
ALS ID	11	12	13	14	15

Physical Tests

Conductivity	(uS/cm)	166	1190	1110	333	960
Hardness	CaCO3	85.6	595	638	167	505
pH		7.82	6.59	7.07	7.23	7.01

Dissolved Anions

Alkalinity-Total		CaCO3	73.8	263	405	141	316
Sulphate	SO4		13.6	446	276	40.4	268

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID	TH17-86	SRK05- SP1A	SRK05- SP1B	SRK05- SP2	SRK05- SP3A
Sample Date	06-06-06	06-06-06	06-06-06	06-06-06	06-06-06
Sample Time	18:55	16:05	16:25	16:55	13:00
ALS ID	11	12	13	14	15

Dissolved Metals

Aluminum	D-Al	0.0051	0.157	0.022	0.0104	0.046
Antimony	D-Sb	<0.00050	<0.0010	<0.0010	<0.00050	<0.0010
Arsenic	D-As	<0.00050	0.0062	0.0094	<0.00050	0.0021
Barium	D-Ba	0.046	0.028	0.038	0.055	0.027
Beryllium	D-Be	<0.0010	0.0028	<0.0020	<0.0010	<0.0020
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.000017	0.000048	0.000246	0.000142	<0.000034
Calcium	D-Ca	24.9	147	164	46.1	118
Chromium	D-Cr	<0.0010	<0.0020	<0.0020	<0.0010	<0.0020
Cobalt	D-Co	<0.00030	0.00674	0.00523	0.00233	0.00404
Copper	D-Cu	0.0013	<0.0020	<0.0020	<0.0010	<0.0020
Iron	D-Fe	0.178	44.1	12.8	<0.030	20.1
Lead	D-Pb	<0.00050	<0.0010	<0.0010	<0.00050	<0.0010
Lithium	D-Li	<0.0050	0.073	0.038	0.0118	0.050
Magnesium	D-Mg	5.68	55.4	55.6	12.7	50.9
Manganese	D-Mn	0.00525	1.60	0.981	0.946	0.850
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0010	<0.0020	<0.0020	<0.0010	<0.0020
Nickel	D-Ni	0.0025	0.0213	0.0150	0.0042	0.0133
Potassium	D-K	<2.0	3.8	4.2	<2.0	3.4
Selenium	D-Se	<0.0010	<0.0020	<0.0020	<0.0010	<0.0020
Silver	D-Ag	<0.000020	<0.000040	<0.000040	<0.000020	<0.000040
Sodium	D-Na	2.1	15.0	11.5	6.4	10.3
Thallium	D-Tl	<0.00020	<0.00040	<0.00040	<0.00020	<0.00040
Tin	D-Sn	<0.00050	<0.0010	<0.0010	<0.00050	<0.0010
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.00078	<0.00040	0.00276	0.00079	0.00166
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.0123	1.59	0.243	0.129	1.02

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7082

RESULTS OF ANALYSIS - Water



Sample ID	SRK05- SP3B	SRK05- SP3A1	SRK05- SP4A	SRK05- SP4B
Sample Date	06-06-06	06-06-06	06-06-06	06-06-06
Sample Time	15:20	15:20	11:30	11:50
ALS ID	16	17	18	19

Physical Tests

Conductivity	(uS/cm)	920	957	730	6250
Hardness	CaCO3	511	517	382	4520
pH		6.97	6.96	6.92	6.94

Dissolved Anions

Alkalinity-Total		CaCO3	283	317	254	171
Sulphate	SO4		263	267	179	4790

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X7082

RESULTS OF ANALYSIS - Water

Sample ID	SRK05- SP3B	SRK05- SP3A1	SRK05- SP4A	SRK05- SP4B
Sample Date	06-06-06	06-06-06	06-06-06	06-06-06
Sample Time	15:20	15:20	11:30	11:50
ALS ID	16	17	18	19

Dissolved Metals

Aluminum	D-Al	0.037	0.050	0.045	<0.50
Antimony	D-Sb	<0.0010	<0.0010	<0.0010	<0.050
Arsenic	D-As	0.0010	0.0022	0.0050	<0.050
Barium	D-Ba	0.023	0.028	0.028	<0.040
Beryllium	D-Be	<0.0020	<0.0020	<0.0020	<0.10
Boron	D-B	<0.10	<0.10	<0.10	<0.20
Cadmium	D-Cd	0.000075	0.000044	<0.000034	0.0595
Calcium	D-Ca	124	121	93.7	406
Chromium	D-Cr	<0.0020	<0.0020	<0.0020	<0.10
Cobalt	D-Co	0.00536	0.00414	0.00976	<0.030
Copper	D-Cu	<0.0020	<0.0020	<0.0020	<0.10
Iron	D-Fe	9.01	20.8	18.9	<0.060
Lead	D-Pb	<0.0010	<0.0010	<0.0010	<0.050
Lithium	D-Li	0.049	0.049	0.060	<0.50
Magnesium	D-Mg	48.9	52.0	36.0	852
Manganese	D-Mn	0.843	0.876	1.12	95.9
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0020	<0.0020	<0.0020	<0.10
Nickel	D-Ni	0.0137	0.0135	0.0219	2.58
Potassium	D-K	4.5	3.5	3.6	10.3
Selenium	D-Se	<0.0020	<0.0020	<0.0020	<0.10
Silver	D-Ag	<0.000040	<0.000040	<0.000040	<0.0020
Sodium	D-Na	9.3	10.6	9.7	29.9
Thallium	D-Tl	<0.00040	<0.00040	<0.00040	<0.020
Tin	D-Sn	<0.0010	<0.0010	<0.0010	<0.050
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.020
Uranium	D-U	0.00179	0.00170	<0.00040	<0.020
Vanadium	D-V	<0.030	<0.030	<0.030	<0.060
Zinc	D-Zn	0.757	1.05	1.04	362

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7082

Appendix 1 - QUALITY CONTROL - Replicates



Water	P01-52B	P01-52B	SRK05- SP4A	SRK05- SP4A
	06-06-07 12:54	QC # 506240	06-06-06 11:30	QC # 506241

Physical Tests

Conductivity	(uS/cm)	1230	1220	730	727
pH		8.05	8.02	6.92	6.92

Dissolved Anions

Alkalinity-Total		CaCO3	492	490	254	259
Sulphate	SO4		294	275	179	182

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.



Appendix 2 - METHODOLOGY

Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

Conductivity in Water

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

pH in Water

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.

Recommended Holding Time:

Sample: 2 hours

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Colourimetry

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

Recommended Holding Time:

Sample: 14 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Sulphate in Water

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

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Appendix 2 - METHODOLOGY - Continued



Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:

Sample: 6 months

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 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).

Recommended Holding Time:

Sample: 28 days

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Results contained within this certificate relate only to the samples as submitted.

This Certificate Of Analysis shall only be reproduced in full, except with the written approval of ALS Environmental.

End of Report



CERTIFICATE OF ANALYSIS

Date: June 27, 2006
ALS File No. X7083
Report On: Faro 2006 Water Analysis
Report To: **Gartner Lee Ltd.**
2251 2nd Ave
Whitehorse, YT
Y1A 5W1
Attention: **Ms. Jen Funston**
Received: June 12, 2006

ALS ENVIRONMENTAL

per:

Can Dang, B.Sc. - Senior Account Manager
Janice Pearson, - Account Manager

File No. X7083

REMARKS



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

File No. X7083

RESULTS OF ANALYSIS - Water



Sample ID	P03-06-01	P03-06-02	P03-06-02R	P03-06-03	P03-06-04
Sample Date	06-06-07	06-06-07	06-06-07	06-06-07	06-06-07
Sample Time	15:05	15:31	15:32	15:05	15:31
ALS ID	1	2	3	4	5

Physical Tests

Conductivity	(uS/cm)	1810	1760	1760	1890	1190
Hardness	CaCO3	999	1010	998	1060	631
pH		7.61	7.63	7.61	7.11	7.19

Dissolved Anions

Alkalinity-Total		CaCO3	181	181	182	155	118
Sulphate	SO4		959	855	921	1070	538

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X7083

RESULTS OF ANALYSIS - Water

Sample ID	P03-06-01	P03-06-02	P03-06-02R	P03-06-03	P03-06-04
Sample Date	06-06-07	06-06-07	06-06-07	06-06-07	06-06-07
Sample Time	15:05	15:31	15:32	15:05	15:31
ALS ID	1	2	3	4	5

Dissolved Metals

Aluminum	D-Al	<0.025	<0.025	<0.025	<0.050	<0.025
Antimony	D-Sb	<0.0025	<0.0025	<0.0025	<0.0050	<0.0025
Arsenic	D-As	<0.0025	<0.0025	<0.0025	<0.0050	<0.0025
Barium	D-Ba	0.066	0.078	0.072	0.032	0.067
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.010	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.000115	0.000334	0.000420	0.0106	0.000110
Calcium	D-Ca	271	280	277	293	176
Chromium	D-Cr	<0.0050	<0.0050	<0.0050	<0.010	<0.0050
Cobalt	D-Co	0.0349	0.0291	0.0293	0.216	0.0254
Copper	D-Cu	<0.0050	<0.0050	<0.0050	<0.010	<0.0050
Iron	D-Fe	2.00	0.549	0.655	45.4	42.1
Lead	D-Pb	<0.0025	<0.0025	<0.0025	<0.0050	<0.0025
Lithium	D-Li	<0.025	<0.025	<0.025	<0.050	<0.025
Magnesium	D-Mg	78.3	75.9	74.4	80.9	46.5
Manganese	D-Mn	24.9	23.8	23.6	31.3	12.2
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0050	<0.0050	<0.0050	<0.010	<0.0050
Nickel	D-Ni	0.0482	0.0301	0.0307	0.339	0.0406
Potassium	D-K	2.4	2.4	2.3	3.1	2.1
Selenium	D-Se	<0.0050	<0.0050	<0.0050	<0.010	<0.0050
Silver	D-Ag	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010
Sodium	D-Na	38.6	39.4	38.2	29.8	19.9
Thallium	D-Tl	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010
Tin	D-Sn	<0.0025	<0.0025	<0.0025	<0.0050	<0.0025
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.0132	0.0129	0.0127	0.0074	0.0296
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	1.55	0.358	0.357	0.93	3.36

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7083

RESULTS OF ANALYSIS - Water



Sample ID	P03-06-05	P03-06-06	P03-04-01	P03-04-02	P03-04-03
Sample Date	06-06-07	06-06-07	06-06-07	06-06-07	06-06-07
Sample Time	15:45	15:50	10:30	10:35	11:10
ALS ID	6	7	8	9	10

Physical Tests

Conductivity	(uS/cm)	1600	11600	1870	1490	1410
Hardness	CaCO ₃	600	8260	905	780	725
pH		6.44	6.17	7.86	7.26	7.19

Dissolved Anions

Alkalinity-Total		CaCO ₃	27.5	38.2	278	107	124
Sulphate	SO ₄		851	9510	894	696	667

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID	P03-06-05	P03-06-06	P03-04-01	P03-04-02	P03-04-03
Sample Date	06-06-07	06-06-07	06-06-07	06-06-07	06-06-07
Sample Time	15:45	15:50	10:30	10:35	11:10
ALS ID	6	7	8	9	10

Dissolved Metals

Aluminum	D-Al	<0.050	<1.0	0.097	0.027	0.025
Antimony	D-Sb	<0.0050	<0.10	<0.0025	<0.0025	<0.0025
Arsenic	D-As	0.0089	<0.10	<0.0025	<0.0025	<0.0025
Barium	D-Ba	<0.020	<0.10	<0.020	<0.020	0.022
Beryllium	D-Be	<0.010	<0.20	<0.0050	<0.0050	<0.0050
Boron	D-B	<0.10	<0.50	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.00017	<0.0034	<0.000085	0.000181	0.000307
Calcium	D-Ca	81.1	357	285	227	210
Chromium	D-Cr	<0.010	<0.20	<0.0050	<0.0050	<0.0050
Cobalt	D-Co	0.0185	0.305	<0.0015	0.0893	0.0696
Copper	D-Cu	<0.010	<0.20	<0.0050	<0.0050	<0.0050
Iron	D-Fe	228	428	4.63	0.252	0.315
Lead	D-Pb	<0.0050	0.55	<0.0025	<0.0025	<0.0025
Lithium	D-Li	<0.050	<1.0	<0.025	<0.025	<0.025
Magnesium	D-Mg	96.4	1790	47.0	51.6	48.8
Manganese	D-Mn	24.0	391	1.37	30.6	30.1
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.010	<0.20	<0.0050	<0.0050	<0.0050
Nickel	D-Ni	0.080	1.58	<0.0050	0.140	0.109
Potassium	D-K	2.5	16	4.2	3.1	3.2
Selenium	D-Se	<0.010	<0.20	<0.0050	<0.0050	<0.0050
Silver	D-Ag	<0.00020	<0.0040	<0.00010	<0.00010	<0.00010
Sodium	D-Na	26.2	110	99.1	33.5	33.1
Thallium	D-Tl	<0.0020	<0.040	<0.0010	<0.0010	<0.0010
Tin	D-Sn	<0.0050	<0.10	<0.0025	<0.0025	<0.0025
Titanium	D-Ti	<0.010	<0.050	<0.010	<0.010	<0.010
Uranium	D-U	<0.0020	<0.040	0.0058	<0.0010	<0.0010
Vanadium	D-V	<0.030	<0.15	<0.030	<0.030	<0.030
Zinc	D-Zn	42.3	755	<0.0050	0.0610	0.0553

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7083

RESULTS OF ANALYSIS - Water



Sample ID	P03-04-04	P03-04-05	P03-04-06	P03-04-07	P03-04-08
Sample Date	06-06-07	06-06-07	06-06-07	06-06-07	06-06-07
Sample Time	11:05	11:40	11:38	12:20	12:45
ALS ID	11	12	13	14	15

Physical Tests

Conductivity	(uS/cm)	1060	1450	6060	5920	8650
Hardness	CaCO3	407	791	1730	1760	1240
pH		7.94	7.38	6.21	6.03	4.12

Dissolved Anions

Alkalinity-Total		CaCO3	95.8	211	129	21.4	16.2
Sulphate	SO4		356	677	4810	4520	7320

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X7083

RESULTS OF ANALYSIS - Water

Sample ID	P03-04-04	P03-04-05	P03-04-06	P03-04-07	P03-04-08
Sample Date	06-06-07	06-06-07	06-06-07	06-06-07	06-06-07
Sample Time	11:05	11:40	11:38	12:20	12:45
ALS ID	11	12	13	14	15

Dissolved Metals

Aluminum	D-Al	0.011	<0.050	<0.10	<0.10	<0.25
Antimony	D-Sb	<0.0010	<0.0050	<0.010	<0.010	<0.025
Arsenic	D-As	0.0056	0.0063	0.020	0.021	<0.025
Barium	D-Ba	0.063	0.073	<0.10	<0.10	<0.10
Beryllium	D-Be	<0.0020	<0.010	<0.020	<0.020	<0.050
Boron	D-B	<0.10	<0.10	<0.50	<0.50	<0.50
Cadmium	D-Cd	<0.000034	<0.00017	<0.00034	<0.00034	<0.00085
Calcium	D-Ca	134	236	472	483	385
Chromium	D-Cr	<0.0020	<0.010	<0.020	<0.020	<0.050
Cobalt	D-Co	0.00189	0.0282	0.0529	0.0525	<0.015
Copper	D-Cu	<0.0020	<0.010	<0.020	<0.020	<0.050
Iron	D-Fe	3.06	25.0	2030	2040	4410
Lead	D-Pb	<0.0010	<0.0050	0.011	<0.010	<0.025
Lithium	D-Li	<0.010	<0.050	<0.10	<0.10	<0.25
Magnesium	D-Mg	17.8	49.2	133	134	67.6
Manganese	D-Mn	2.22	33.7	19.6	19.0	32.0
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	0.0021	<0.010	<0.020	<0.020	<0.050
Nickel	D-Ni	<0.0020	0.022	0.122	0.118	<0.050
Potassium	D-K	2.5	3.0	<10	<10	<10
Selenium	D-Se	<0.0020	<0.010	<0.020	<0.020	<0.050
Silver	D-Ag	<0.000040	<0.00020	<0.00040	<0.00040	<0.0010
Sodium	D-Na	101	27.9	102	107	19
Thallium	D-Tl	<0.00040	<0.0020	<0.0040	<0.0040	<0.010
Tin	D-Sn	<0.0010	<0.0050	<0.010	<0.010	<0.025
Titanium	D-Ti	<0.010	<0.010	<0.050	<0.050	<0.050
Uranium	D-U	0.00262	<0.0020	<0.0040	<0.0040	<0.010
Vanadium	D-V	<0.030	<0.030	<0.15	<0.15	<0.15
Zinc	D-Zn	0.0055	0.047	4.30	3.72	4.27

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7083

RESULTS OF ANALYSIS - Water



Sample ID	P03-04-09	P03-07-02
Sample Date	06-06-07	06-06-07
Sample Time	13:15	17:20
ALS ID	16	17

Physical Tests

Conductivity	(uS/cm)	8060	2710
Hardness	CaCO3	1400	1570
pH		4.01	7.12

Dissolved Anions

Alkalinity-Total		CaCO3	16.2	209
Sulphate	SO4		6880	1560

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X7083

RESULTS OF ANALYSIS - Water



Sample ID	P03-04-09	P03-07-02
Sample Date	06-06-07	06-06-07
Sample Time	13:15	17:20
ALS ID	16	17

Dissolved Metals

Aluminum	D-Al	<0.25	<0.050
Antimony	D-Sb	<0.025	<0.0050
Arsenic	D-As	<0.025	<0.0050
Barium	D-Ba	<0.10	<0.020
Beryllium	D-Be	<0.050	<0.010
Boron	D-B	<0.50	<0.10
Cadmium	D-Cd	<0.00085	<0.00017
Calcium	D-Ca	412	442
Chromium	D-Cr	<0.050	<0.010
Cobalt	D-Co	<0.015	0.269
Copper	D-Cu	<0.050	<0.010
Iron	D-Fe	3950	42.7
Lead	D-Pb	0.079	<0.0050
Lithium	D-Li	<0.25	<0.050
Magnesium	D-Mg	89.6	113
Manganese	D-Mn	32.6	49.1
Mercury	D-Hg	<0.000020	<0.000020
Molybdenum	D-Mo	<0.050	<0.010
Nickel	D-Ni	<0.050	0.350
Potassium	D-K	<10	4.7
Selenium	D-Se	<0.050	<0.010
Silver	D-Ag	<0.0010	<0.00020
Sodium	D-Na	29	26.2
Thallium	D-Tl	<0.010	<0.0020
Tin	D-Sn	<0.025	<0.0050
Titanium	D-Ti	<0.050	<0.010
Uranium	D-U	<0.010	0.0045
Vanadium	D-V	<0.15	<0.030
Zinc	D-Zn	0.951	0.678

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X7083

Appendix 1 - QUALITY CONTROL - Replicates



Water	P03-06-02	P03-06-02	P03-06-04	P03-06-04
	06-06-07 15:31	QC # 506260	06-06-07 15:31	QC # 506261

Physical Tests

Conductivity	(uS/cm)	1760	1760	1190	1190
pH		7.63	7.61	7.19	7.24

Dissolved Anions

Alkalinity-Total		CaCO3	181	179	118	116
Sulphate	SO4		855	834	538	539

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

Appendix 2 - METHODOLOGY



Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

Conductivity in Water

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

pH in Water

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.

Recommended Holding Time:

Sample: 2 hours

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Colourimetry

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

Recommended Holding Time:

Sample: 14 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Sulphate in Water

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

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Appendix 2 - METHODOLOGY - Continued



Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:

Sample: 6 months

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 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).

Recommended Holding Time:

Sample: 28 days

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Results contained within this certificate relate only to the samples as submitted.

This Certificate Of Analysis shall only be reproduced in full, except with the written approval of ALS Environmental.

End of Report



CERTIFICATE OF ANALYSIS

Date: July 4, 2006
ALS File No. X7084
Report On: Faro 2006 Water Analysis
Report To: **Gartner Lee Ltd.**
2251 2nd Ave
Whitehorse, YT
Y1A 5W1
Attention: **Ms. Jen Funston**
Received: June 12, 2006

ALS ENVIRONMENTAL

per:

Amber Springer, B.Sc. - Senior Account Manager
Can Dang, B.Sc. - Senior Account Manager

File No. X7084

REMARKS



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

File No. X7084

RESULTS OF ANALYSIS - Water



Sample ID	P03-08-01	P03-08-02	P03-08-03	P03-08-04	P03-08-05
Sample Date	06-06-06	06-06-06	06-06-06	06-06-06	06-06-06
Sample Time	16:46	16:53	17:14	17:30	18:00
ALS ID	1	2	3	4	5

Physical Tests

Conductivity	(uS/cm)	483	642	708	1320	2220
Hardness	CaCO3	258	322	366	652	1050
pH		8.06	7.90	7.96	7.76	7.67

Dissolved Anions

Alkalinity-Total		CaCO3	257	270	296	326	260
Sulphate	SO4		29.2	106	125	437	1050

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID	P03-08-01	P03-08-02	P03-08-03	P03-08-04	P03-08-05
Sample Date	06-06-06	06-06-06	06-06-06	06-06-06	06-06-06
Sample Time	16:46	16:53	17:14	17:30	18:00
ALS ID	1	2	3	4	5

Dissolved Metals

Aluminum	D-Al	<0.0050	0.0132	0.018	0.028	0.027
Antimony	D-Sb	<0.00050	<0.00050	0.0012	0.0018	0.0034
Arsenic	D-As	<0.00050	<0.00050	0.0012	0.0060	0.0051
Barium	D-Ba	0.078	0.221	0.136	0.035	<0.020
Beryllium	D-Be	<0.0010	<0.0010	<0.0020	<0.0020	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.000017	0.000050	0.000226	<0.000034	<0.000085
Calcium	D-Ca	63.5	90.4	102	187	299
Chromium	D-Cr	<0.0010	<0.0010	<0.0020	<0.0020	<0.0050
Cobalt	D-Co	<0.00030	0.00084	<0.00060	0.00067	<0.0015
Copper	D-Cu	<0.0010	0.0028	0.0027	<0.0020	<0.0050
Iron	D-Fe	0.171	0.096	0.104	28.0	43.7
Lead	D-Pb	<0.00050	<0.00050	0.0104	0.0024	0.0069
Lithium	D-Li	0.0086	<0.0050	<0.010	<0.010	<0.025
Magnesium	D-Mg	24.1	23.4	26.9	44.8	72.9
Manganese	D-Mn	0.0462	4.56	5.88	2.66	5.88
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0010	<0.0010	0.0044	0.0121	<0.0050
Nickel	D-Ni	0.0023	0.0248	0.0254	<0.0020	<0.0050
Potassium	D-K	<2.0	<2.0	<2.0	2.8	13.9
Selenium	D-Se	<0.0010	<0.0010	<0.0020	<0.0020	<0.0050
Silver	D-Ag	<0.000020	<0.000020	<0.000040	<0.000040	<0.00010
Sodium	D-Na	2.3	11.5	12.2	40.5	145
Thallium	D-Tl	<0.00020	<0.00020	<0.00040	<0.00040	<0.0010
Tin	D-Sn	<0.00050	<0.00050	<0.0010	<0.0010	<0.0025
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.00344	0.00281	0.00423	0.00732	0.0010
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	<0.0050	0.0062	0.0075	0.0202	0.015

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7084

RESULTS OF ANALYSIS - Water



Sample ID	P03-08-06	P03-08-07	P03-08-08	P03-09-01	P03-09-02
Sample Date	06-06-06	06-06-06	06-06-06	06-06-06	06-06-06
Sample Time	18:06	18:38	18:55	11:11	11:32
ALS ID	6	7	8	9	10

Physical Tests

Conductivity	(uS/cm)	2240	1800	515	1240	1210
Hardness	CaCO3	1010	799	79.3	612	637
pH		7.49	7.69	7.98	7.86	7.89

Dissolved Anions

Alkalinity-Total		CaCO3	29.3	48.7	123	357	341
Sulphate	SO4		1220	801	126	375	357

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID	P03-08-06	P03-08-07	P03-08-08	P03-09-01	P03-09-02
Sample Date	06-06-06	06-06-06	06-06-06	06-06-06	06-06-06
Sample Time	18:06	18:38	18:55	11:11	11:32
ALS ID	6	7	8	9	10

Dissolved Metals

Aluminum	D-Al	0.039	<0.025	0.0130	<0.010	<0.010
Antimony	D-Sb	0.0192	0.0259	0.0118	<0.0010	<0.0010
Arsenic	D-As	<0.0025	0.0033	0.00280	0.0013	0.0012
Barium	D-Ba	<0.020	<0.020	0.025	0.036	0.039
Beryllium	D-Be	<0.0050	<0.0050	<0.0010	<0.0020	<0.0020
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.000085	<0.000085	0.000038	<0.000034	<0.000034
Calcium	D-Ca	388	307	17.7	164	169
Chromium	D-Cr	<0.0050	<0.0050	<0.0010	<0.0020	<0.0020
Cobalt	D-Co	0.0030	0.0043	0.00144	<0.00060	<0.00060
Copper	D-Cu	<0.0050	<0.0050	<0.0010	<0.0020	<0.0020
Iron	D-Fe	0.405	<0.030	<0.030	5.86	6.18
Lead	D-Pb	0.0227	0.0267	0.0440	<0.0010	<0.0010
Lithium	D-Li	0.048	<0.025	0.0136	0.035	0.033
Magnesium	D-Mg	10.5	7.86	8.53	49.3	51.9
Manganese	D-Mn	0.542	0.750	0.0313	0.371	0.352
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	0.0053	0.0296	0.0375	<0.0020	<0.0020
Nickel	D-Ni	<0.0050	<0.0050	<0.0010	<0.0020	<0.0020
Potassium	D-K	10.0	4.9	8.7	2.7	2.9
Selenium	D-Se	<0.0050	<0.0050	<0.0010	<0.0020	<0.0020
Silver	D-Ag	<0.00010	<0.00010	<0.000020	<0.000040	<0.000040
Sodium	D-Na	164	162	71.1	44.2	46.4
Thallium	D-Tl	<0.0010	<0.0010	<0.00020	<0.00040	<0.00040
Tin	D-Sn	<0.0025	<0.0025	<0.00050	<0.0010	<0.0010
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	<0.0010	<0.0010	<0.00020	0.00160	0.00156
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.035	0.028	0.0066	0.0050	<0.0050

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7084

RESULTS OF ANALYSIS - Water



Sample ID	P03-09-03	P03-09-04	P03-09-05	P03-09-06	P03-09-07
Sample Date	06-06-06	06-06-06	06-06-06	06-06-06	06-06-06
Sample Time	11:45	12:10	12:30	13:00	12:50
ALS ID	11	12	13	14	15

Physical Tests

Conductivity	(uS/cm)	1020	1010	1010	1110	1150
Hardness	CaCO3	511	515	505	572	609
pH		7.95	7.99	7.99	8.02	7.98

Dissolved Anions

Alkalinity-Total		CaCO3	254	262	261	277	183
Sulphate	SO4		327	286	272	355	382

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X7084

RESULTS OF ANALYSIS - Water

Sample ID	P03-09-03	P03-09-04	P03-09-05	P03-09-06	P03-09-07
Sample Date	06-06-06	06-06-06	06-06-06	06-06-06	06-06-06
Sample Time	11:45	12:10	12:30	13:00	12:50
ALS ID	11	12	13	14	15

Dissolved Metals

Aluminum	D-Al	<0.010	<0.010	0.014	0.015	<0.010
Antimony	D-Sb	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	D-As	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium	D-Ba	0.040	0.039	0.039	0.063	0.059
Beryllium	D-Be	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.000034	0.000037	<0.000034	<0.000034	<0.000034
Calcium	D-Ca	153	156	152	171	185
Chromium	D-Cr	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt	D-Co	0.00460	0.00397	0.00403	0.00097	0.00132
Copper	D-Cu	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Iron	D-Fe	<0.030	0.097	<0.030	0.161	0.073
Lead	D-Pb	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	D-Li	<0.010	<0.010	<0.010	0.014	0.011
Magnesium	D-Mg	31.3	30.7	30.5	35.1	35.4
Manganese	D-Mn	5.54	5.41	5.47	5.26	6.06
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Nickel	D-Ni	0.0085	0.0089	0.0093	0.0073	0.0080
Potassium	D-K	3.0	3.0	2.9	3.1	3.3
Selenium	D-Se	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Silver	D-Ag	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040
Sodium	D-Na	25.3	25.8	25.1	31.6	31.7
Thallium	D-Tl	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Tin	D-Sn	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.00618	0.00602	0.00609	0.00470	0.00551
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	<0.0050	<0.0050	0.0069	0.0080	<0.010

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7084

RESULTS OF ANALYSIS - Water



Sample ID	P03-09-08	P03-09-09	P03-09-10
Sample Date	06-06-06	06-06-06	06-06-06
Sample Time	13:12	13:30	12:35
ALS ID	16	17	18

Physical Tests

Conductivity	(uS/cm)	799	802	1010
Hardness	CaCO ₃	540	341	510
pH		7.95	8.03	7.97

Dissolved Anions

Alkalinity-Total		CaCO ₃	178	176	259
Sulphate	SO ₄		248	250	270

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X7084

RESULTS OF ANALYSIS - Water

Sample ID	P03-09-08	P03-09-09	P03-09-10
Sample Date	06-06-06	06-06-06	06-06-06
Sample Time	13:12	13:30	12:35
ALS ID	16	17	18

Dissolved Metals

Aluminum	D-Al	<0.010	<0.010	<0.010
Antimony	D-Sb	<0.0010	<0.0010	<0.0010
Arsenic	D-As	<0.0010	<0.0010	<0.0010
Barium	D-Ba	0.060	0.040	0.039
Beryllium	D-Be	<0.0020	<0.0020	<0.0020
Boron	D-B	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.000037	0.000110	0.000039
Calcium	D-Ca	164	102	154
Chromium	D-Cr	<0.0020	<0.0020	<0.0020
Cobalt	D-Co	0.00249	0.00175	0.00411
Copper	D-Cu	<0.0020	<0.0020	<0.0020
Iron	D-Fe	0.465	0.043	<0.030
Lead	D-Pb	<0.0010	<0.0010	<0.0010
Lithium	D-Li	<0.010	<0.010	<0.010
Magnesium	D-Mg	31.7	21.1	30.1
Manganese	D-Mn	5.50	3.40	5.53
Mercury	D-Hg	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	0.0024	<0.0020	<0.0020
Nickel	D-Ni	0.0140	0.0117	0.0092
Potassium	D-K	2.9	<2.0	3.0
Selenium	D-Se	<0.0020	<0.0020	<0.0020
Silver	D-Ag	<0.000040	<0.000040	<0.000040
Sodium	D-Na	28.3	19.7	25.1
Thallium	D-Tl	<0.00040	<0.00040	<0.00040
Tin	D-Sn	<0.0010	<0.0010	<0.0010
Titanium	D-Ti	<0.010	<0.010	<0.010
Uranium	D-U	0.00467	0.00322	0.00618
Vanadium	D-V	<0.030	<0.030	<0.030
Zinc	D-Zn	<0.010	<0.010	<0.010

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7084

Appendix 1 - QUALITY CONTROL - Replicates



Water		P03-09-04	P03-09-04	P03-09-09	P03-09-09
		06-06-06 12:10	QC # 506262	06-06-06 13:30	QC # 506263

Physical Tests

Conductivity	(uS/cm)	1010	1010	802	804
Hardness	CaCO3	515	486	341	350
pH		7.99	8.00	8.03	8.01

Dissolved Anions

Alkalinity-Total		CaCO3	262	260	176	184
Sulphate	SO4		286	286	250	240

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

Appendix 1 - QUALITY CONTROL - Replicates



Water		P03-09-04 06-06-06 12:10	P03-09-04 QC # 506262	P03-09-09 06-06-06 13:30	P03-09-09 QC # 506263
Dissolved Metals					
Aluminum	D-Al	<0.010	<0.010	<0.010	<0.010
Antimony	D-Sb	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	D-As	<0.0010	<0.0010	<0.0010	<0.0010
Barium	D-Ba	0.039	0.038	0.040	0.039
Beryllium	D-Be	<0.0020	<0.0020	<0.0020	<0.0020
Boron	D-B	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.000037	0.000057	0.000110	0.000092
Calcium	D-Ca	156	145	102	106
Chromium	D-Cr	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt	D-Co	0.00397	0.00409	0.00175	0.00182
Copper	D-Cu	<0.0020	<0.0020	<0.0020	<0.0020
Iron	D-Fe	0.097	0.089	0.043	0.046
Lead	D-Pb	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	D-Li	<0.010	<0.010	<0.010	<0.010
Magnesium	D-Mg	30.7	29.8	21.1	20.6
Manganese	D-Mn	5.41	5.50	3.40	3.38
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0020	<0.0020	<0.0020	<0.0020
Nickel	D-Ni	0.0089	0.0091	0.0117	0.0120
Potassium	D-K	3.0	2.9	<2.0	<2.0
Selenium	D-Se	<0.0020	<0.0020	<0.0020	<0.0020
Silver	D-Ag	<0.000040	<0.000040	<0.000040	<0.000040
Sodium	D-Na	25.8	25.2	19.7	19.3
Thallium	D-Tl	<0.00040	<0.00040	<0.00040	<0.00040
Tin	D-Sn	<0.0010	<0.0010	<0.0010	<0.0010
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.00602	0.00601	0.00322	0.00328
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	<0.0050	<0.0050	<0.010	<0.010

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7084

Appendix 2 - METHODOLOGY



Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

Conductivity in Water

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

pH in Water

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.

Recommended Holding Time:

Sample: 2 hours

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Colourimetry

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

Recommended Holding Time:

Sample: 14 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Sulphate in Water

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

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver



Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:
Sample: 6 months
Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 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).

Recommended Holding Time:
Sample: 28 days
Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Results contained within this certificate relate only to the samples as submitted.

This Certificate Of Analysis shall only be reproduced in full, except with the written approval of ALS Environmental.

End of Report



CERTIFICATE OF ANALYSIS

Date: July 4, 2006

ALS File No. X7089

Report On: Faro 2006 Water Analysis

Report To: **Gartner Lee Ltd.**
2251 2nd Ave
Whitehorse, YT
Y1A 5W1

Attention: **Ms. Jen Funston**

Received: June 12, 2006

ALS ENVIRONMENTAL

per:

Can Dang, B.Sc. - Senior Account Manager
Janice Pearson, - Account Manager

File No. X7089

REMARKS



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

File No. X7089

RESULTS OF ANALYSIS - Water



Sample ID	P03-02-01	P03-02-02	P03-02-03	P03-02-04	P03-02-05
Sample Date	060608	060608	060608	060608	060608
Sample Time	06-06-08	06-06-08	06-06-08	06-06-08	06-06-08
ALS ID	15:20	15:35	16:00	16:35	15:30
	1	2	3	4	5

Physical Tests

Conductivity	(uS/cm)	350	266	255	386	6960
Hardness	CaCO3	187	136	127	155	2220
pH		7.98	7.86	7.87	7.28	5.01

Dissolved Anions

Alkalinity-Total		CaCO3	164	104	97.9	42.7	23.2
Sulphate	SO4		30.4	31.8	30.4	136	5350

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water



Sample ID	P03-02-01	P03-02-02	P03-02-03	P03-02-04	P03-02-05
	060608	060608	060608	060608	060608
Sample Date	06-06-08	06-06-08	06-06-08	06-06-08	06-06-08
Sample Time	15:20	15:35	16:00	16:35	15:30
ALS ID	1	2	3	4	5

Dissolved Metals

Aluminum	D-Al	0.0084	0.0063	0.0141	0.0213	<0.10
Antimony	D-Sb	<0.00050	<0.00050	<0.00050	0.00100	<0.010
Arsenic	D-As	0.00061	<0.00050	<0.00050	0.00374	0.021
Barium	D-Ba	0.089	0.094	0.099	0.044	<0.10
Beryllium	D-Be	<0.0010	<0.0010	<0.0010	<0.0010	<0.020
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.50
Cadmium	D-Cd	<0.000017	0.000029	<0.000017	0.00112	<0.00034
Calcium	D-Ca	58.9	41.6	38.7	48.2	367
Chromium	D-Cr	<0.0010	<0.0010	<0.0010	<0.0010	<0.020
Cobalt	D-Co	0.00048	<0.00030	<0.00030	0.00367	0.0095
Copper	D-Cu	<0.0010	<0.0010	<0.0010	<0.0010	<0.020
Iron	D-Fe	0.133	<0.030	0.049	0.425	1790
Lead	D-Pb	0.00102	0.00068	0.00514	0.00083	<0.010
Lithium	D-Li	<0.0050	<0.0050	<0.0050	0.0367	0.21
Magnesium	D-Mg	9.56	7.94	7.34	8.53	317
Manganese	D-Mn	0.384	0.00119	0.00374	7.03	27.3
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	0.0021	<0.0010	<0.0010	0.0021	<0.020
Nickel	D-Ni	0.0011	<0.0010	<0.0010	0.0793	<0.020
Potassium	D-K	<2.0	<2.0	<2.0	<2.0	46
Selenium	D-Se	<0.0010	<0.0010	<0.0010	<0.0010	<0.020
Silver	D-Ag	<0.000020	<0.000020	<0.000020	<0.000020	<0.00040
Sodium	D-Na	3.0	2.6	2.4	7.4	345
Thallium	D-Tl	<0.00020	<0.00020	<0.00020	<0.00020	<0.0040
Tin	D-Sn	<0.00050	<0.00050	<0.00050	<0.00050	<0.010
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.050
Uranium	D-U	0.00174	0.00080	0.00067	<0.00020	<0.0040
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.15
Zinc	D-Zn	<0.0050	<0.0050	<0.0050	0.268	0.051

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7089

RESULTS OF ANALYSIS - Water



Sample ID	P03-02-06	P03-02-07	P03-02-08	P03-02-09	P03-01-09
Sample Date	060608	060608	060608	060608	
Sample Time	16:10	17:10	17:00	17:25	
ALS ID	6	7	8	9	10

Physical Tests

Conductivity	(uS/cm)	8120	10300	15300	19200	31400
Hardness	CaCO ₃	2520	2790	2720	2030	4020
pH		4.15	3.70	3.41	3.27	3.04

Dissolved Anions

Alkalinity-Total		CaCO ₃	17.0	15.2	11.0	2.6	<2.0
Sulphate	SO ₄		6570	9250	16100	21000	46300

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X7089

RESULTS OF ANALYSIS - Water

Sample ID	P03-02-06	P03-02-07	P03-02-08	P03-02-09	P03-01-09
Sample Date	060608	060608	060608	060608	
Sample Time	16:10	17:10	17:00	17:25	
ALS ID	6	7	8	9	10

Dissolved Metals

Aluminum	D-Al	<0.25	<0.25	<0.50	<1.0	<5.0
Antimony	D-Sb	<0.025	<0.025	<0.050	<0.10	<0.50
Arsenic	D-As	<0.025	<0.025	<0.050	<0.10	<0.50
Barium	D-Ba	<0.10	<0.10	<0.20	<0.40	<1.0
Beryllium	D-Be	<0.050	<0.050	<0.10	<0.20	<1.0
Boron	D-B	<0.50	<0.50	<1.0	<2.0	<5.0
Cadmium	D-Cd	<0.00085	<0.00085	<0.0017	<0.0034	<0.017
Calcium	D-Ca	397	404	389	396	475
Chromium	D-Cr	<0.050	<0.050	<0.10	<0.20	<1.0
Cobalt	D-Co	<0.015	<0.015	<0.030	<0.060	<0.30
Copper	D-Cu	<0.050	<0.050	<0.10	<0.20	<1.0
Iron	D-Fe	2360	3770	9220	13400	24000
Lead	D-Pb	<0.025	0.086	1.23	1.16	1.40
Lithium	D-Li	0.25	0.34	<0.50	<1.0	<5.0
Magnesium	D-Mg	370	433	424	253	687
Manganese	D-Mn	27.9	35.2	58.5	77.8	178
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.050	<0.050	<0.10	<0.20	<1.0
Nickel	D-Ni	<0.050	<0.050	<0.10	<0.20	<1.0
Potassium	D-K	62	73	54	<40	<100
Selenium	D-Se	<0.050	<0.050	<0.10	<0.20	<1.0
Silver	D-Ag	<0.0010	<0.0010	<0.0020	<0.0040	<0.020
Sodium	D-Na	405	288	182	<40	290
Thallium	D-Tl	<0.010	<0.010	<0.020	<0.040	<0.20
Tin	D-Sn	<0.025	<0.025	<0.050	<0.10	<0.50
Titanium	D-Ti	<0.050	<0.050	<0.10	<0.20	<0.50
Uranium	D-U	<0.010	<0.010	<0.020	<0.040	<0.20
Vanadium	D-V	<0.15	<0.15	<0.30	<0.60	<1.5
Zinc	D-Zn	0.051	0.270	38.8	496	3350

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7089

RESULTS OF ANALYSIS - Water



Sample ID	P03-01-08	P01-03	X25A-96	X25B-96	X24A-96
Sample Date			060609	060609	060609
Sample Time			06-06-09	06-06-09	06-06-09
ALS ID	11	12	13:10	12:54	12:25
			13	14	15

Physical Tests

Conductivity	(uS/cm)	19300	2560	977	1080	2290
Hardness	CaCO3	2550	1520	472	512	1310
pH		3.46	7.52	7.92	8.03	7.58

Dissolved Anions

Alkalinity-Total		CaCO3	10.2	351	246	269	347
Sulphate	SO4		21000	1090	260	274	1140

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID	P03-01-08	P01-03	X25A-96	X25B-96	X24A-96
Sample Date			060609	060609	060609
Sample Time			06-06-09	06-06-09	06-06-09
ALS ID	11	12	13:10	12:54	12:25
			13	14	15

Dissolved Metals

Aluminum	D-Al	<2.5	<0.050	<0.010	<0.010	<0.050
Antimony	D-Sb	<0.25	<0.0050	<0.0010	<0.0010	<0.0050
Arsenic	D-As	<0.25	<0.0050	<0.0010	<0.0010	<0.0050
Barium	D-Ba	<0.40	<0.020	0.038	0.027	<0.020
Beryllium	D-Be	<0.50	<0.010	<0.0020	<0.0020	<0.010
Boron	D-B	<2.0	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.0085	0.00208	0.000321	0.000035	0.00075
Calcium	D-Ca	302	445	137	158	390
Chromium	D-Cr	<0.50	<0.010	<0.0020	<0.0020	<0.010
Cobalt	D-Co	<0.15	0.0583	0.00507	<0.00060	0.0534
Copper	D-Cu	<0.50	<0.010	0.0037	<0.0020	<0.010
Iron	D-Fe	12200	0.277	0.049	0.622	1.42
Lead	D-Pb	<0.25	<0.0050	<0.0010	<0.0010	<0.0050
Lithium	D-Li	<2.5	<0.050	<0.010	<0.010	<0.050
Magnesium	D-Mg	436	98.7	31.8	28.4	82.7
Manganese	D-Mn	75.7	46.7	5.43	0.169	37.8
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.50	<0.010	<0.0020	<0.0020	<0.010
Nickel	D-Ni	<0.50	0.125	0.0084	<0.0020	0.088
Potassium	D-K	70	5.2	2.9	2.5	4.7
Selenium	D-Se	<0.50	<0.010	<0.0020	<0.0020	<0.010
Silver	D-Ag	<0.010	<0.00020	<0.000040	<0.000040	<0.00020
Sodium	D-Na	654	39.3	24.2	49.4	30.3
Thallium	D-Tl	<0.10	<0.0020	<0.00040	<0.00040	<0.0020
Tin	D-Sn	<0.25	<0.0050	<0.0010	<0.0010	<0.0050
Titanium	D-Ti	<0.20	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	<0.10	0.0071	0.00894	0.00531	0.0077
Vanadium	D-V	<0.60	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	1250	0.335	0.041	0.030	0.240

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7089

RESULTS OF ANALYSIS - Water



Sample ID	X24D-96	X24D-96-1	P05-03	P01-11	P01-02A
Sample Date	060609	060609	060609	060609	060609
Sample Time	06-06-09	06-06-09	06-06-09	06-06-09	06-06-09
ALS ID	11:47	11:47	09:10	09:38	10:49
	16	17	18	19	20

Physical Tests

Conductivity	(uS/cm)	2710	2730	1240	2010	621
Hardness	CaCO3	1640	1670	642	1120	324
pH		7.58	7.65	7.98	7.80	8.14

Dissolved Anions

Alkalinity-Total		CaCO3	399	405	263	334	215
Sulphate	SO4		1410	1370	444	941	124

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7089

RESULTS OF ANALYSIS - Water

Sample ID	X24D-96	X24D-96-1	P05-03	P01-11	P01-02A
Sample Date	060609	060609	060609	060609	060609
Sample Time	06-06-09	06-06-09	06-06-09	06-06-09	06-06-09
ALS ID	11:47	11:47	09:10	09:38	10:49
	16	17	18	19	20

Dissolved Metals

Aluminum	D-Al	<0.050	<0.050	<0.010	<0.025	<0.0050
Antimony	D-Sb	<0.0050	<0.0050	<0.0010	<0.0025	<0.00050
Arsenic	D-As	<0.0050	<0.0050	0.0017	0.0318	0.00063
Barium	D-Ba	0.024	0.022	0.174	0.051	0.060
Beryllium	D-Be	<0.010	<0.010	<0.0020	<0.0050	<0.0010
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.00295	0.00273	0.000141	<0.000085	0.000086
Calcium	D-Ca	487	496	196	347	92.3
Chromium	D-Cr	<0.010	<0.010	<0.0020	<0.0050	<0.0010
Cobalt	D-Co	0.0414	0.0430	0.00193	0.0027	0.00048
Copper	D-Cu	<0.010	<0.010	<0.0020	<0.0050	<0.0010
Iron	D-Fe	<0.030	<0.030	1.57	22.5	<0.030
Lead	D-Pb	<0.0050	<0.0050	<0.0010	<0.0025	<0.00050
Lithium	D-Li	<0.050	<0.050	<0.010	<0.025	0.0060
Magnesium	D-Mg	102	104	37.2	61.9	22.7
Manganese	D-Mn	44.7	45.6	8.55	14.7	1.01
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.010	<0.010	0.0033	<0.0050	0.0017
Nickel	D-Ni	0.177	0.184	0.0029	<0.0050	0.0021
Potassium	D-K	6.4	6.0	2.8	6.1	2.2
Selenium	D-Se	<0.010	<0.010	<0.0020	<0.0050	<0.0010
Silver	D-Ag	<0.00020	<0.00020	<0.000040	<0.00010	<0.000020
Sodium	D-Na	49.3	45.5	27.3	48.9	11.8
Thallium	D-Tl	<0.0020	<0.0020	<0.00040	<0.0010	<0.00020
Tin	D-Sn	<0.0050	<0.0050	<0.0010	<0.0025	<0.00050
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.0053	0.0056	0.00796	0.0048	0.00251
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.290	0.290	0.021	0.064	<0.0050

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7089

RESULTS OF ANALYSIS - Water



Sample ID P01-02B
Sample Date 060609
Sample Time 06-06-09
ALS ID 10:30
21

Physical Tests

Conductivity	(uS/cm)	495
Hardness	CaCO3	263
pH		8.15

Dissolved Anions

Alkalinity-Total		CaCO3	185
Sulphate	SO4		94.6

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
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File No. X7089

RESULTS OF ANALYSIS - Water



Sample ID	P01-02B
Sample Date	060609
Sample Time	06-06-09
ALS ID	10:30
	21

Dissolved Metals

Aluminum	D-Al	<0.0050
Antimony	D-Sb	<0.00050
Arsenic	D-As	0.00380
Barium	D-Ba	0.033
Beryllium	D-Be	<0.0010
Boron	D-B	<0.10
Cadmium	D-Cd	<0.000017
Calcium	D-Ca	64.2
Chromium	D-Cr	<0.0010
Cobalt	D-Co	<0.00030
Copper	D-Cu	<0.0010
Iron	D-Fe	0.499
Lead	D-Pb	<0.00050
Lithium	D-Li	0.0062
Magnesium	D-Mg	24.9
Manganese	D-Mn	0.144
Mercury	D-Hg	<0.000020
Molybdenum	D-Mo	<0.0010
Nickel	D-Ni	0.0010
Potassium	D-K	<2.0
Selenium	D-Se	<0.0010
Silver	D-Ag	<0.000020
Sodium	D-Na	11.0
Thallium	D-Tl	<0.00020
Tin	D-Sn	<0.00050
Titanium	D-Ti	<0.010
Uranium	D-U	0.00229
Vanadium	D-V	<0.030
Zinc	D-Zn	<0.0050

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X7089

Appendix 1 - QUALITY CONTROL - Replicates



Water	P03-01-09	P03-01-09	X24D-96	X24D-96
		QC #	060609	060609
		506267	06-06-09	QC #
			11:47	506268

Physical Tests

Conductivity	(uS/cm)	31400	31500	2710	2720
Hardness	CaCO3	4020	4180	1640	1610
pH		3.04	3.05	7.58	7.60

Dissolved Anions

Alkalinity-Total		CaCO3	<2.0	<2.0	399	401
Sulphate	SO4		46300	46100	1410	1380

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

Appendix 1 - QUALITY CONTROL - Replicates



Water	P03-01-09	P03-01-09	X24D-96	X24D-96
		QC #	060609	060609
		506267	06-06-09	QC #
			11:47	506268

Dissolved Metals

Aluminum	D-Al	<5.0	<5.0	<0.050	<0.050
Antimony	D-Sb	<0.50	<0.50	<0.0050	<0.0050
Arsenic	D-As	<0.50	<0.50	<0.0050	<0.0050
Barium	D-Ba	<1.0	<1.0	0.024	0.022
Beryllium	D-Be	<1.0	<1.0	<0.010	<0.010
Boron	D-B	<5.0	<5.0	<0.10	<0.10
Cadmium	D-Cd	<0.017	<0.017	0.00295	0.00284
Calcium	D-Ca	475	491	487	481
Chromium	D-Cr	<1.0	<1.0	<0.010	<0.010
Cobalt	D-Co	<0.30	<0.30	0.0414	0.0410
Copper	D-Cu	<1.0	<1.0	<0.010	<0.010
Iron	D-Fe	24000	25000	<0.030	<0.030
Lead	D-Pb	1.40	1.35	<0.0050	<0.0050
Lithium	D-Li	<5.0	<5.0	<0.050	<0.050
Magnesium	D-Mg	687	717	102	100
Manganese	D-Mn	178	175	44.7	45.2
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<1.0	<1.0	<0.010	<0.010
Nickel	D-Ni	<1.0	<1.0	0.177	0.180
Potassium	D-K	<100	<100	6.4	5.9
Selenium	D-Se	<1.0	<1.0	<0.010	<0.010
Silver	D-Ag	<0.020	<0.020	<0.00020	<0.00020
Sodium	D-Na	290	300	49.3	45.3
Thallium	D-Tl	<0.20	<0.20	<0.0020	<0.0020
Tin	D-Sn	<0.50	<0.50	<0.0050	<0.0050
Titanium	D-Ti	<0.50	<0.50	<0.010	<0.010
Uranium	D-U	<0.20	<0.20	0.0053	0.0053
Vanadium	D-V	<1.5	<1.5	<0.030	<0.030
Zinc	D-Zn	3350	3280	0.290	0.288

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7089

Appendix 2 - METHODOLOGY



Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

Conductivity in Water

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

pH in Water

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.

Recommended Holding Time:

Sample: 2 hours

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Colourimetry

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

Recommended Holding Time:

Sample: 14 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Sulphate in Water

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

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Appendix 2 - METHODOLOGY - Continued



Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:

Sample: 6 months

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 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).

Recommended Holding Time:

Sample: 28 days

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Results contained within this certificate relate only to the samples as submitted.

This Certificate Of Analysis shall only be reproduced in full, except with the written approval of ALS Environmental.

End of Report



CERTIFICATE OF ANALYSIS

Date: June 29, 2006

ALS File No. X7094

Report On: 40433 Water Analysis

Report To: **Gartner Lee Ltd.**
2251 2nd Ave
Whitehorse, YT
Y1A 5W1

Attention: **Ms. Jen Funston**

Received: June 12, 2006

ALS ENVIRONMENTAL

per:

Can Dang, B.Sc. - Senior Account Manager
Janice Pearson, - Account Manager

File No. X7094

REMARKS



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

File No. X7094

RESULTS OF ANALYSIS - Water



Sample ID	X16A	X16B	X17A	X17B	X17B1
Sample Date	06-06-08	06-06-08	06-06-08	06-06-08	06-06-08
Sample Time	14:07	14:45	17:35	17:19	17:20
ALS ID	1	2	3	4	5

Physical Tests

	(uS/cm)					
Conductivity		322	402	557	894	897
Hardness	CaCO3	184	236	329	474	479
pH		8.09	8.20	8.15	7.96	7.99

Dissolved Anions

		CaCO3				
Alkalinity-Total		151	208	289	454	424
Sulphate	SO4	25.3	22.1	43.0	111	109

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID		X16A	X16B	X17A	X17B	X17B1
Sample Date		06-06-08	06-06-08	06-06-08	06-06-08	06-06-08
Sample Time		14:07	14:45	17:35	17:19	17:20
ALS ID		1	2	3	4	5
Dissolved Metals						
Aluminum	D-Al	<0.0050	<0.0050	<0.0050	<0.010	<0.010
Antimony	D-Sb	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010
Arsenic	D-As	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010
Barium	D-Ba	0.090	0.152	0.206	0.255	0.256
Beryllium	D-Be	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.000102	0.000019	<0.000017	<0.000034	<0.000034
Calcium	D-Ca	52.8	64.9	89.7	128	130
Chromium	D-Cr	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
Cobalt	D-Co	<0.00030	<0.00030	<0.00030	<0.00060	<0.00060
Copper	D-Cu	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
Iron	D-Fe	<0.030	<0.030	<0.030	2.67	2.72
Lead	D-Pb	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010
Lithium	D-Li	<0.0050	<0.0050	<0.0050	0.032	0.032
Magnesium	D-Mg	12.6	18.0	25.4	37.3	37.6
Manganese	D-Mn	0.00174	<0.00030	0.00839	0.413	0.415
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	0.0023	0.0018	<0.0010	<0.0020	<0.0020
Nickel	D-Ni	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
Potassium	D-K	<2.0	<2.0	<2.0	2.6	2.6
Selenium	D-Se	0.0011	0.0021	<0.0010	<0.0020	<0.0020
Silver	D-Ag	<0.000020	<0.000020	<0.000020	<0.000040	<0.000040
Sodium	D-Na	2.2	<2.0	2.8	34.6	34.7
Thallium	D-Tl	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040
Tin	D-Sn	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.00173	0.00222	0.00169	0.00164	0.00167
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.0120	<0.0050	0.0201	0.0407	0.0401

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7094

RESULTS OF ANALYSIS - Water



Sample ID	X18A	X18B	SRK05-06	SRK05-09	P01-01A
Sample Date	06-06-08	06-06-08	06-06-08	06-06-08	06-06-08
Sample Time	18:45	18:18	10:30	10:50	15:15
ALS ID	6	7	8	9	10

Physical Tests

Conductivity	(uS/cm)	1390	1400	1260	1310	1360
Hardness	CaCO3	817	820	790	830	759
pH		7.99	8.00	8.13	8.06	7.96

Dissolved Anions

Alkalinity-Total		CaCO3	252	250	246	239	250
Sulphate	SO4		521	539	450	480	505

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID	X18A	X18B	SRK05-06	SRK05-09	P01-01A
Sample Date	06-06-08	06-06-08	06-06-08	06-06-08	06-06-08
Sample Time	18:45	18:18	10:30	10:50	15:15
ALS ID	6	7	8	9	10

Dissolved Metals

Aluminum	D-Al	<0.025	<0.025	<0.025	<0.025	<0.025
Antimony	D-Sb	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Arsenic	D-As	0.0087	<0.0025	<0.0025	<0.0025	<0.0025
Barium	D-Ba	0.203	0.153	0.044	0.061	0.090
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.000085	0.000375	<0.000085	0.000113	0.000403
Calcium	D-Ca	233	232	163	171	224
Chromium	D-Cr	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cobalt	D-Co	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Copper	D-Cu	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Iron	D-Fe	2.58	0.085	<0.030	<0.030	<0.030
Lead	D-Pb	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Lithium	D-Li	<0.025	<0.025	<0.025	<0.025	<0.025
Magnesium	D-Mg	57.1	58.5	92.9	97.9	48.2
Manganese	D-Mn	1.45	2.41	0.0504	0.0039	3.36
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Nickel	D-Ni	<0.0050	0.0148	<0.0050	<0.0050	0.0051
Potassium	D-K	4.8	5.3	2.1	2.2	4.8
Selenium	D-Se	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Silver	D-Ag	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium	D-Na	22.9	21.4	7.0	7.3	21.7
Thallium	D-Tl	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Tin	D-Sn	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.0071	0.0107	0.0157	0.0173	0.0076
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.149	0.110	0.131	0.064	0.062

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7094

RESULTS OF ANALYSIS - Water



Sample ID	P01-01B
Sample Date	06-06-08
Sample Time	16:30
ALS ID	11

Physical Tests

Conductivity	(uS/cm)	1070
Hardness	CaCO3	601
pH		8.02

Dissolved Anions

Alkalinity-Total		CaCO3	242
Sulphate	SO4		289

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X7094

RESULTS OF ANALYSIS - Water



Sample ID P01-01B

Sample Date 06-06-08
Sample Time 16:30
ALS ID 11

Dissolved Metals

Aluminum	D-Al	<0.025
Antimony	D-Sb	<0.0025
Arsenic	D-As	0.0035
Barium	D-Ba	0.074
Beryllium	D-Be	<0.0050
Boron	D-B	<0.10
Cadmium	D-Cd	<0.000085
Calcium	D-Ca	180
Chromium	D-Cr	<0.0050
Cobalt	D-Co	<0.0015
Copper	D-Cu	<0.0050
Iron	D-Fe	0.721
Lead	D-Pb	<0.0025
Lithium	D-Li	<0.025
Magnesium	D-Mg	36.8
Manganese	D-Mn	0.103
Mercury	D-Hg	<0.000020
Molybdenum	D-Mo	<0.0050
Nickel	D-Ni	<0.0050
Potassium	D-K	3.4
Selenium	D-Se	<0.0050
Silver	D-Ag	<0.00010
Sodium	D-Na	24.3
Thallium	D-Tl	<0.0010
Tin	D-Sn	<0.0025
Titanium	D-Ti	<0.010
Uranium	D-U	0.0061
Vanadium	D-V	<0.030
Zinc	D-Zn	0.061

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X7094

Appendix 1 - QUALITY CONTROL - Replicates



Water

X18B

X18B

06-06-08
18:18

QC #
506242

Physical Tests

Conductivity	(uS/cm)	1400	1400
Hardness	CaCO ₃	820	829
pH		8.00	7.97

Dissolved Anions

Alkalinity-Total		CaCO ₃	250	257
Sulphate	SO ₄		539	532

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

Appendix 1 - QUALITY CONTROL - Replicates

Water

X18B

X18B

06-06-08
18:18QC #
506242**Dissolved Metals**

Aluminum	D-Al	<0.025	<0.025
Antimony	D-Sb	<0.0025	<0.0025
Arsenic	D-As	<0.0025	<0.0025
Barium	D-Ba	0.153	0.154
Beryllium	D-Be	<0.0050	<0.0050
Boron	D-B	<0.10	<0.10
Cadmium	D-Cd	0.000374	0.000279
Calcium	D-Ca	232	234
Chromium	D-Cr	<0.0050	<0.0050
Cobalt	D-Co	<0.0015	<0.0015
Copper	D-Cu	<0.0050	<0.0050
Iron	D-Fe	0.085	0.087
Lead	D-Pb	<0.0025	<0.0025
Lithium	D-Li	<0.025	<0.025
Magnesium	D-Mg	58.5	59.4
Manganese	D-Mn	2.41	2.38
Mercury	D-Hg	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0050	<0.0050
Nickel	D-Ni	0.0148	0.0145
Potassium	D-K	5.3	5.3
Selenium	D-Se	<0.0050	<0.0050
Silver	D-Ag	<0.00010	<0.00010
Sodium	D-Na	21.4	21.6
Thallium	D-Tl	<0.0010	<0.0010
Tin	D-Sn	<0.0025	<0.0025
Titanium	D-Ti	<0.010	<0.010
Uranium	D-U	0.0107	0.0107
Vanadium	D-V	<0.030	<0.030
Zinc	D-Zn	0.110	0.110

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X7094

Appendix 2 - METHODOLOGY



Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

Conductivity in Water

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

pH in Water

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.

Recommended Holding Time:

Sample: 2 hours

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Colourimetry

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

Recommended Holding Time:

Sample: 14 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Sulphate in Water

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

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Appendix 2 - METHODOLOGY - Continued



Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:
Sample: 6 months
Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 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).

Recommended Holding Time:
Sample: 28 days
Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Results contained within this certificate relate only to the samples as submitted.

This Certificate Of Analysis shall only be reproduced in full, except with the written approval of ALS Environmental.

End of Report



CERTIFICATE OF ANALYSIS

Date: July 5, 2006

ALS File No. X7095

Report On: 40433 Water Analysis

Report To: **Gartner Lee Ltd.**
2251 2nd Ave
Whitehorse, YT
Y1A 5W1

Attention: **Ms. Jen Funston**

Received: June 12, 2006

ALS ENVIRONMENTAL

per:

Can Dang, B.Sc. - Senior Account Manager
Janice Pearson, - Account Manager

File No. X7095

RESULTS OF ANALYSIS - Water



Sample ID	P03-01-01R	P03-01-01	P03-01-02	P03-01-03	P03-01-04
Sample Date	06-06-09	06-06-09	06-06-09	06-06-09	06-06-09
Sample Time	08:30	09:00	10:05	10:20	10:00
ALS ID	1	2	3	4	5

Physical Tests

Conductivity	(uS/cm)	418	417	368	436	440
Hardness	CaCO3	204	222	196	229	212
pH		8.12	8.14	8.16	7.97	7.48

Dissolved Anions

Alkalinity-Total		CaCO3	219	218	177	108	72.1
Sulphate	SO4		22.6	20.4	26.0	112	146

Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X7095

RESULTS OF ANALYSIS - Water

Sample ID	P03-01-01R	P03-01-01	P03-01-02	P03-01-03	P03-01-04
Sample Date	06-06-09	06-06-09	06-06-09	06-06-09	06-06-09
Sample Time	08:30	09:00	10:05	10:20	10:00
ALS ID	1	2	3	4	5

Dissolved Metals

Aluminum	D-Al	0.0107	<0.0050	0.0070	0.0056	0.0065
Antimony	D-Sb	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Arsenic	D-As	0.00480	0.00524	0.00206	<0.00050	<0.00050
Barium	D-Ba	0.109	0.113	0.123	0.150	0.033
Beryllium	D-Be	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.000017	<0.000017	<0.000017	0.000057	0.00124
Calcium	D-Ca	60.6	66.0	60.4	71.5	65.9
Chromium	D-Cr	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cobalt	D-Co	<0.00030	<0.00030	0.00165	<0.00030	0.00317
Copper	D-Cu	0.0101	<0.0010	<0.0010	<0.0010	<0.0010
Iron	D-Fe	5.75	5.02	0.266	<0.030	0.099
Lead	D-Pb	0.0269	0.00072	<0.00050	<0.00050	<0.00050
Lithium	D-Li	0.0140	0.0148	0.0050	<0.0050	0.0428
Magnesium	D-Mg	12.8	13.9	11.0	12.3	11.5
Manganese	D-Mn	0.178	0.161	0.969	0.0527	3.65
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	0.0031	0.0033	0.0065	<0.0010	<0.0010
Nickel	D-Ni	<0.0010	<0.0010	0.0016	0.0015	0.147
Potassium	D-K	<2.0	<2.0	3.3	<2.0	2.1
Selenium	D-Se	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silver	D-Ag	0.000022	<0.000020	<0.000020	<0.000020	<0.000020
Sodium	D-Na	7.2	7.9	5.0	3.7	4.3
Thallium	D-Tl	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Tin	D-Sn	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.00026	0.00027	0.00245	0.00315	<0.00020
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.127	<0.0050	<0.0050	0.0056	0.600

Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7095

RESULTS OF ANALYSIS - Water



Sample ID	P03-01-05	P03-01-06
Sample Date	06-06-09	06-06-09
Sample Time	11:00	10:20
ALS ID	6	7

Physical Tests

Conductivity	(uS/cm)	554	722
Hardness	CaCO ₃	281	170
pH		7.49	6.33

Dissolved Anions

Alkalinity-Total		CaCO ₃	64.4	20.4
Sulphate	SO ₄		191	284

Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X7095

RESULTS OF ANALYSIS - Water



Sample ID	P03-01-05	P03-01-06
Sample Date	06-06-09	06-06-09
Sample Time	11:00	10:20
ALS ID	6	7

Dissolved Metals

Aluminum	D-Al	0.0120	<0.010
Antimony	D-Sb	<0.00050	0.0015
Arsenic	D-As	<0.00050	0.0098
Barium	D-Ba	0.091	0.074
Beryllium	D-Be	<0.0010	<0.0020
Boron	D-B	<0.10	<0.10
Cadmium	D-Cd	0.000127	<0.000034
Calcium	D-Ca	87.2	42.3
Chromium	D-Cr	<0.0010	<0.0020
Cobalt	D-Co	0.00144	0.0336
Copper	D-Cu	<0.0010	<0.0020
Iron	D-Fe	0.707	88.1
Lead	D-Pb	<0.00050	0.0081
Lithium	D-Li	0.0176	<0.010
Magnesium	D-Mg	15.4	15.7
Manganese	D-Mn	0.353	4.04
Mercury	D-Hg	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0010	<0.0020
Nickel	D-Ni	0.0182	0.0392
Potassium	D-K	2.4	3.3
Selenium	D-Se	<0.0010	<0.0020
Silver	D-Ag	<0.000020	<0.000040
Sodium	D-Na	5.5	33.6
Thallium	D-Tl	<0.00020	<0.00040
Tin	D-Sn	<0.00050	<0.0010
Titanium	D-Ti	<0.010	<0.010
Uranium	D-U	<0.00020	<0.00040
Vanadium	D-V	<0.030	<0.030
Zinc	D-Zn	0.0301	2.33

Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7095

Appendix 1 - QUALITY CONTROL - Replicates



Water	P03-01-05	P03-01-05
	06-06-09 11:00	QC # 506246

Physical Tests

Conductivity	(uS/cm)	554	553
pH		7.49	7.48

Dissolved Anions

Alkalinity-Total		CaCO3	64.4	48.5
Sulphate	SO4		191	198

Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

Appendix 2 - METHODOLOGY



Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

Conductivity in Water

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

pH in Water

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.

Recommended Holding Time:

Sample: 2 hours

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Colourimetry

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

Recommended Holding Time:

Sample: 14 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Sulphate in Water

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

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Appendix 2 - METHODOLOGY - Continued



Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:
Sample: 6 months
Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 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).

Recommended Holding Time:
Sample: 28 days
Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Results contained within this certificate relate only to the samples as submitted.

This Certificate Of Analysis shall only be reproduced in full, except with the written approval of ALS Environmental.

End of Report



CERTIFICATE OF ANALYSIS

Date: July 5, 2006
ALS File No. X7433
Report On: Faro 2006 Water Analysis
Report To: **Gartner Lee Ltd.**
2251 2nd Ave
Whitehorse, YT
Y1A 5W1
Attention: **Ms. Jen Funston**
Received: June 19, 2006

ALS ENVIRONMENTAL

per:

Can Dang, B.Sc. - Senior Account Manager
Janice Pearson, - Account Manager

File No. X7433

REMARKS



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

File No. X7433

RESULTS OF ANALYSIS - Water



Sample ID	P03-03-01	P03-03-02	P03-03-03	P03-03-04	P03-03-05
Sample Date	06-06-15	06-06-15	06-06-15	06-06-15	06-06-15
Sample Time	13:55	13:40	15:50	14:30	14:55
ALS ID	1	2	3	4	5

Physical Tests

Conductivity	(uS/cm)	495	2710	751	776	987
Hardness	CaCO3	270	556	320	318	451
pH		8.08	4.46	5.94	6.49	7.08

Dissolved Anions

Alkalinity-Total		CaCO3	287	6.9	6.6	21.3	87.5
Bromide	Br		<0.050	<5.0	<0.050	<0.050	<0.050
Sulphate	SO4		3.46	2010	380	381	457

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID	P03-03-01	P03-03-02	P03-03-03	P03-03-04	P03-03-05
Sample Date	06-06-15	06-06-15	06-06-15	06-06-15	06-06-15
Sample Time	13:55	13:40	15:50	14:30	14:55
ALS ID	1	2	3	4	5

Dissolved Metals

Aluminum	D-Al	<0.0050	2.90	0.139	<0.025	0.051
Antimony	D-Sb	<0.00050	<0.025	<0.0025	<0.0025	<0.0050
Arsenic	D-As	0.00855	<0.025	<0.0025	0.0027	0.0101
Barium	D-Ba	0.254	<0.020	<0.020	0.056	0.133
Beryllium	D-Be	<0.0010	<0.050	<0.0050	<0.0050	<0.010
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.000017	0.0143	0.00792	0.00275	<0.00017
Calcium	D-Ca	78.6	133	93.7	93.7	133
Chromium	D-Cr	<0.0010	<0.050	<0.0050	<0.0050	<0.010
Cobalt	D-Co	0.00151	0.179	0.172	0.133	0.0369
Copper	D-Cu	<0.0010	0.050	<0.0050	<0.0050	<0.010
Iron	D-Fe	3.40	644	22.3	29.6	24.8
Lead	D-Pb	<0.00050	<0.025	0.0030	<0.0025	<0.0050
Lithium	D-Li	0.0170	<0.25	0.030	0.034	<0.050
Magnesium	D-Mg	17.9	54.6	21.0	20.3	28.8
Manganese	D-Mn	0.123	17.0	11.4	15.2	30.7
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	0.0023	<0.050	<0.0050	<0.0050	<0.010
Nickel	D-Ni	<0.0010	0.242	0.200	0.134	0.030
Potassium	D-K	2.3	4.7	2.5	2.5	2.9
Selenium	D-Se	<0.0010	<0.050	<0.0050	<0.0050	<0.010
Silver	D-Ag	<0.000020	<0.0010	<0.00010	<0.00010	<0.00020
Sodium	D-Na	10.2	14.4	7.4	13.6	31.6
Thallium	D-Tl	<0.00020	<0.010	<0.0010	<0.0010	<0.0020
Tin	D-Sn	<0.00050	<0.025	<0.0025	<0.0025	<0.0050
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.00047	<0.010	<0.0010	<0.0010	<0.0020
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	<0.0050	135	9.28	4.80	0.202

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7433

RESULTS OF ANALYSIS - Water



Sample ID	P03-03-06	P03-03-08	P03-03-09	P03-03-01A	P03-05-01
Sample Date	06-06-15	06-06-15	06-06-15	06-06-15	06-06-15
Sample Time	15:05	15:30	15:25	13:55	09:23
ALS ID	6	7	8	9	10

Physical Tests

Conductivity	(uS/cm)	2520	9870	7860	493	1560
Hardness	CaCO3	1060	1150	1420	257	894
pH		6.11	3.66	3.62	8.01	7.83

Dissolved Anions

Alkalinity-Total		CaCO3	14.6	3.0	<2.0	284	190
Bromide	Br		<5.0	<50	<50	<0.050	<0.25
Sulphate	SO4		1800	10300	7230	3.33	784

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID	P03-03-06	P03-03-08	P03-03-09	P03-03-01A	P03-05-01
Sample Date	06-06-15	06-06-15	06-06-15	06-06-15	06-06-15
Sample Time	15:05	15:30	15:25	13:55	09:23
ALS ID	6	7	8	9	10

Dissolved Metals

Aluminum	D-Al	<0.025	<0.50	<0.25	<0.0050	<0.025
Antimony	D-Sb	<0.0025	<0.050	<0.025	<0.00050	<0.0025
Arsenic	D-As	<0.0025	<0.050	<0.025	0.00838	<0.0025
Barium	D-Ba	<0.020	<0.10	<0.10	0.255	0.032
Beryllium	D-Be	<0.0050	<0.10	<0.050	<0.0010	<0.0050
Boron	D-B	<0.10	<0.50	<0.50	<0.10	<0.10
Cadmium	D-Cd	<0.000085	<0.0017	<0.00085	<0.000017	<0.000085
Calcium	D-Ca	281	101	150	76.5	271
Chromium	D-Cr	<0.0050	<0.10	<0.050	<0.0010	<0.0050
Cobalt	D-Co	<0.0015	<0.030	<0.015	0.00153	<0.0015
Copper	D-Cu	<0.0050	<0.10	<0.050	<0.0010	<0.0050
Iron	D-Fe	287	4240	3190	3.34	5.90
Lead	D-Pb	<0.0025	1.11	0.071	<0.00050	<0.0025
Lithium	D-Li	0.032	<0.50	<0.25	0.0164	<0.025
Magnesium	D-Mg	85.9	218	254	16.1	52.7
Manganese	D-Mn	16.6	67.8	43.1	0.126	0.867
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0050	<0.10	<0.050	0.0021	<0.0050
Nickel	D-Ni	<0.0050	<0.10	<0.050	<0.0010	<0.0050
Potassium	D-K	5.1	<10	21	2.1	2.4
Selenium	D-Se	<0.0050	<0.10	<0.050	<0.0010	<0.0050
Silver	D-Ag	<0.00010	<0.0020	<0.0010	<0.000020	<0.00010
Sodium	D-Na	98.6	68	164	9.9	31.0
Thallium	D-Tl	<0.0010	<0.020	<0.010	<0.00020	<0.0010
Tin	D-Sn	<0.0025	<0.050	<0.025	<0.00050	<0.0025
Titanium	D-Ti	<0.010	<0.050	<0.050	<0.010	<0.010
Uranium	D-U	<0.0010	<0.020	<0.010	0.00046	0.0011
Vanadium	D-V	<0.030	<0.15	<0.15	<0.030	<0.030
Zinc	D-Zn	<0.025	360	145	0.0077	<0.025

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7433

RESULTS OF ANALYSIS - Water



Sample ID	P03-05-02	P03-05-03	P03-05-04	P03-05-05	P03-05-06
Sample Date	06-06-15	06-06-15	06-06-15	06-06-15	06-06-15
Sample Time	09:27	10:14	10:10	10:43	10:47
ALS ID	11	12	13	14	15

Physical Tests

Conductivity	(uS/cm)	1100	970	983	1520	2490
Hardness	CaCO3	615	526	525	665	760
pH		7.56	7.80	7.76	6.33	7.84

Dissolved Anions

Alkalinity-Total		CaCO3	139	152	161	27.9	147
Bromide	Br		<0.25	<0.050	<0.050	<5.0	<0.25
Sulphate	SO4		513	396	410	881	1270

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID	P03-05-02	P03-05-03	P03-05-04	P03-05-05	P03-05-06
Sample Date	06-06-15	06-06-15	06-06-15	06-06-15	06-06-15
Sample Time	09:27	10:14	10:10	10:43	10:47
ALS ID	11	12	13	14	15

Dissolved Metals

Aluminum	D-Al	0.034	<0.025	<0.025	<0.025	<0.010
Antimony	D-Sb	<0.0025	<0.0025	<0.0025	<0.0025	<0.0010
Arsenic	D-As	0.0047	<0.0025	<0.0025	0.0129	<0.0010
Barium	D-Ba	0.139	0.184	0.190	0.027	<0.020
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.0050	<0.0020
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.000085	<0.000085	<0.000085	<0.000085	<0.000034
Calcium	D-Ca	186	160	161	172	128
Chromium	D-Cr	<0.0050	<0.0050	<0.0050	<0.0050	<0.0020
Cobalt	D-Co	0.0105	0.0048	0.0051	0.0087	<0.00060
Copper	D-Cu	<0.0050	<0.0050	<0.0050	<0.0050	<0.0020
Iron	D-Fe	7.98	1.36	0.133	163	6.16
Lead	D-Pb	<0.0025	<0.0025	<0.0025	<0.0025	<0.0010
Lithium	D-Li	<0.025	<0.025	<0.025	<0.025	<0.010
Magnesium	D-Mg	36.3	30.7	29.6	57.3	107
Manganese	D-Mn	13.5	11.0	12.5	16.4	0.0685
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0050	<0.0050	<0.0050	<0.0050	0.0047
Nickel	D-Ni	0.0193	<0.0050	<0.0050	<0.0050	<0.0020
Potassium	D-K	2.1	<2.0	<2.0	5.1	31.4
Selenium	D-Se	<0.0050	<0.0050	<0.0050	<0.0050	<0.0020
Silver	D-Ag	<0.00010	<0.00010	<0.00010	<0.00010	<0.000040
Sodium	D-Na	12.9	12.8	11.9	39.1	305
Thallium	D-Tl	<0.0010	<0.0010	<0.0010	<0.0010	<0.00040
Tin	D-Sn	<0.0025	<0.0025	<0.0025	<0.0025	<0.0010
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.0039	0.0052	0.0052	0.0015	<0.00040
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	0.043
Zinc	D-Zn	<0.025	<0.025	<0.025	<0.025	<0.010

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7433

RESULTS OF ANALYSIS - Water



Sample ID	P03-05-07	P03-05-08
Sample Date	06-06-15	06-06-15
Sample Time	11:15	11:12
ALS ID	16	17

Physical Tests

Conductivity	(uS/cm)	7700	6950
Hardness	CaCO3	2860	2610
pH		4.24	4.21

Dissolved Anions

Alkalinity-Total		CaCO3	10.0	12.8
Bromide	Br		<50	<50
Sulphate	SO4		6480	5550

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X7433

RESULTS OF ANALYSIS - Water



Sample ID	P03-05-07	P03-05-08
Sample Date	06-06-15	06-06-15
Sample Time	11:15	11:12
ALS ID	16	17

Dissolved Metals

Aluminum	D-Al	<0.10	<0.10
Antimony	D-Sb	<0.010	<0.010
Arsenic	D-As	<0.010	<0.010
Barium	D-Ba	<0.10	<0.10
Beryllium	D-Be	<0.020	<0.020
Boron	D-B	<0.50	<0.50
Cadmium	D-Cd	<0.00034	<0.00034
Calcium	D-Ca	332	322
Chromium	D-Cr	<0.020	<0.020
Cobalt	D-Co	<0.0060	<0.0060
Copper	D-Cu	<0.020	<0.020
Iron	D-Fe	2120	1660
Lead	D-Pb	0.021	0.040
Lithium	D-Li	0.11	<0.10
Magnesium	D-Mg	492	439
Manganese	D-Mn	32.1	27.4
Mercury	D-Hg	<0.000020	<0.000020
Molybdenum	D-Mo	<0.020	<0.020
Nickel	D-Ni	<0.020	<0.020
Potassium	D-K	57	56
Selenium	D-Se	<0.020	<0.020
Silver	D-Ag	<0.00040	<0.00040
Sodium	D-Na	252	252
Thallium	D-Tl	<0.0040	<0.0040
Tin	D-Sn	<0.010	<0.010
Titanium	D-Ti	<0.050	<0.050
Uranium	D-U	<0.0040	<0.0040
Vanadium	D-V	<0.15	<0.15
Zinc	D-Zn	<0.10	<0.10

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7433

Appendix 1 - QUALITY CONTROL - Replicates



Water	P03-03-02	P03-03-02
	06-06-15 13:40	QC # 507019

Physical Tests

Conductivity	(uS/cm)	2710	2740
Hardness	CaCO3	556	534

Dissolved Anions

Alkalinity-Total		CaCO3	6.9	5.2
Bromide	Br		<5.0	<5.0
Sulphate	SO4		2010	1970

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X7433

Appendix 1 - QUALITY CONTROL - Replicates



Water	P03-03-02	P03-03-02
	06-06-15 13:40	QC # 507019

Dissolved Metals

Aluminum	D-Al	2.90	3.14
Antimony	D-Sb	<0.025	<0.025
Arsenic	D-As	<0.025	<0.025
Barium	D-Ba	<0.020	<0.020
Beryllium	D-Be	<0.050	<0.050
Boron	D-B	<0.10	<0.10
Cadmium	D-Cd	0.0143	0.0164
Calcium	D-Ca	133	128
Chromium	D-Cr	<0.050	<0.050
Cobalt	D-Co	0.179	0.197
Copper	D-Cu	0.050	0.058
Iron	D-Fe	644	630
Lead	D-Pb	<0.025	<0.025
Lithium	D-Li	<0.25	<0.25
Magnesium	D-Mg	54.6	52.3
Manganese	D-Mn	17.0	18.7
Mercury	D-Hg	<0.000020	<0.000020
Molybdenum	D-Mo	<0.050	<0.050
Nickel	D-Ni	0.242	0.273
Potassium	D-K	4.7	4.6
Selenium	D-Se	<0.050	<0.050
Silver	D-Ag	<0.0010	<0.0010
Sodium	D-Na	14.4	14.4
Thallium	D-Tl	<0.010	<0.010
Tin	D-Sn	<0.025	<0.025
Titanium	D-Ti	<0.010	<0.010
Uranium	D-U	<0.010	<0.010
Vanadium	D-V	<0.030	<0.030
Zinc	D-Zn	135	144

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

Appendix 2 - METHODOLOGY



Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

Conductivity in Water

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

pH in Water

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.

Recommended Holding Time:

Sample: 2 hours

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Colourimetry

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

Recommended Holding Time:

Sample: 14 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Dissolved Anions in Water by Ion Chromatography

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 are determined by filtering the sample through a 0.45 micron membrane filter and injecting the filtrate onto a Dionex IonPac AG17 anion exchange column with a hydroxide eluent stream. Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.

Recommended Holding Time:

Sample: 28 days (bromide, chloride, fluoride, sulphate)

File No. X7433

Appendix 2 - METHODOLOGY - Continued



Sample: 2 days (nitrate, nitrite)
Reference: APHA and EPA

Laboratory Location: ALS Environmental, Vancouver

Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:
Sample: 6 months
Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 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).

Recommended Holding Time:
Sample: 28 days
Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Results contained within this certificate relate only to the samples as submitted.

This Certificate Of Analysis shall only be reproduced in full, except with the written approval of ALS Environmental.

End of Report



CERTIFICATE OF ANALYSIS

Date: July 10, 2006

ALS File No. X7471

Report On: Faro 2006 Water Analysis

Report To: **Gartner Lee Ltd.**
2251 2nd Ave
Whitehorse, YT
Y1A 5W1

Attention: **Ms. Jen Funston**

Received: June 19, 2006

ALS ENVIRONMENTAL

per:

Can Dang, B.Sc. - Senior Account Manager
Janice Pearson, - Account Manager

File No. X7471

REMARKS



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

File No. X7471

RESULTS OF ANALYSIS - Water



Sample ID	P05-02	X21A-96	X21B-96	X21C-96	P05-01 -06
Sample Date	06-06-13	06-06-13	06-06-13	06-06-13	06-06-14
Sample Time	15:45	17:07	17:31	18:21	14:05
ALS ID	1	2	3	4	5

Physical Tests

Conductivity	(uS/cm)	2000	3040	1360	335	1780
Hardness	CaCO ₃	1190	957	650	201	1030
pH		7.80	5.57	7.37	8.23	7.72

Dissolved Anions

Alkalinity-Total		CaCO ₃	332	17.8	165	195	280
Sulphate	SO ₄		949	2090	590	10.7	884

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID	P05-02	X21A-96	X21B-96	X21C-96	P05-01 -06
Sample Date	06-06-13	06-06-13	06-06-13	06-06-13	06-06-14
Sample Time	15:45	17:07	17:31	18:21	14:05
ALS ID	1	2	3	4	5

Dissolved Metals

Aluminum	D-Al	<0.025	<0.050	<0.025	0.0065	<0.025
Antimony	D-Sb	<0.0025	<0.0050	<0.0025	<0.00050	<0.0025
Arsenic	D-As	0.0079	0.0053	0.0049	0.0238	<0.0025
Barium	D-Ba	0.056	<0.020	0.022	0.198	0.035
Beryllium	D-Be	<0.0050	<0.010	<0.0050	<0.0010	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.000111	<0.00017	<0.000085	<0.000017	0.00132
Calcium	D-Ca	361	101	192	63.0	306
Chromium	D-Cr	<0.0050	<0.010	<0.0050	<0.0010	<0.0050
Cobalt	D-Co	0.0077	0.0142	0.0076	<0.00030	0.0096
Copper	D-Cu	<0.0050	<0.010	<0.0050	<0.0010	<0.0050
Iron	D-Fe	5.40	709	42.4	0.562	<0.030
Lead	D-Pb	<0.0025	0.0054	<0.0025	0.00059	<0.0025
Lithium	D-Li	<0.025	<0.050	<0.025	<0.0050	<0.025
Magnesium	D-Mg	69.1	171	41.4	10.6	64.7
Manganese	D-Mn	11.3	45.8	14.2	0.225	14.0
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0050	<0.010	<0.0050	0.0035	<0.0050
Nickel	D-Ni	0.0087	<0.010	0.0094	<0.0010	0.0146
Potassium	D-K	5.6	7.6	3.5	<2.0	5.4
Selenium	D-Se	<0.0050	<0.010	<0.0050	<0.0010	<0.0050
Silver	D-Ag	<0.00010	<0.00020	<0.00010	<0.000020	<0.00010
Sodium	D-Na	49.1	86.4	69.8	2.8	36.0
Thallium	D-Tl	<0.0010	<0.0020	<0.0010	<0.00020	<0.0010
Tin	D-Sn	<0.0025	<0.0050	<0.0025	<0.00050	<0.0025
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.0035	<0.0020	0.0029	<0.00020	0.0039
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.029	2.99	0.160	<0.0050	<0.025

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7471

RESULTS OF ANALYSIS - Water



Sample ID	SRK-04-3A	SRK-04-3A1	SRK-04-3B	SRK05-ETA-BR1	SRK05-ETA-BR2
Sample Date	06-06-14	06-06-14	06-06-14	06-06-14	06-06-14
Sample Time	09:30	09:30	10:10	12:20	11:02
ALS ID	6	7	8	9	10

Physical Tests

	(uS/cm)					
Conductivity		6530	6540	15100	6230	2130
Hardness	CaCO3	3950	4000	4020	3560	1260
pH		6.12	6.09	3.36	5.98	7.00

Dissolved Anions

		CaCO3				
Alkalinity-Total		48.2	43.6	<2.0	46.9	119
Sulphate	SO4	5510	5660	18500	5250	1360

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID	SRK-04-3A	SRK-04-3A1	SRK-04-3B	SRK05-ETA-BR1	SRK05-ETA-BR2
Sample Date	06-06-14	06-06-14	06-06-14	06-06-14	06-06-14
Sample Time	09:30	09:30	10:10	12:20	11:02
ALS ID	6	7	8	9	10

Dissolved Metals

Aluminum	D-Al	0.73	0.64	6.3	<0.50	<0.025
Antimony	D-Sb	<0.050	<0.050	<0.10	<0.050	<0.0025
Arsenic	D-As	<0.050	<0.050	<0.10	<0.050	<0.0025
Barium	D-Ba	<0.040	<0.040	<0.20	<0.040	0.065
Beryllium	D-Be	<0.10	<0.10	<0.20	<0.10	<0.0050
Boron	D-B	<0.20	<0.20	<1.0	<0.20	<0.10
Cadmium	D-Cd	0.0144	0.0170	<0.0034	0.0180	<0.000085
Calcium	D-Ca	399	395	420	418	368
Chromium	D-Cr	<0.10	<0.10	<0.20	<0.10	<0.0050
Cobalt	D-Co	0.437	0.433	0.268	0.610	0.0189
Copper	D-Cu	<0.10	<0.10	<0.20	<0.10	<0.0050
Iron	D-Fe	694	688	7700	742	43.0
Lead	D-Pb	<0.050	<0.050	<0.10	<0.050	<0.0025
Lithium	D-Li	<0.50	<0.50	<1.0	<0.50	<0.025
Magnesium	D-Mg	718	732	721	610	83.1
Manganese	D-Mn	66.7	64.5	78.3	65.1	3.69
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.10	<0.10	<0.20	<0.10	<0.0050
Nickel	D-Ni	0.74	0.73	0.50	0.76	0.0283
Potassium	D-K	8.7	8.7	<20	8.3	3.0
Selenium	D-Se	<0.10	<0.10	<0.20	<0.10	<0.0050
Silver	D-Ag	<0.0020	<0.0020	<0.0040	<0.0020	<0.00010
Sodium	D-Na	54.9	55.4	57	60.1	26.2
Thallium	D-Tl	<0.020	<0.020	<0.040	<0.020	<0.0010
Tin	D-Sn	<0.050	<0.050	<0.10	<0.050	<0.0025
Titanium	D-Ti	<0.020	<0.020	<0.10	<0.020	<0.010
Uranium	D-U	<0.020	<0.020	<0.040	<0.020	0.0011
Vanadium	D-V	<0.060	<0.060	<0.30	<0.060	<0.030
Zinc	D-Zn	291	288	754	317	11.5

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7471

RESULTS OF ANALYSIS - Water



Sample ID	ETA-05-4	V34	V35	V36	V37
Sample Date	06-06-14	06-06-09	06-06-09	06-06-09	06-06-09
Sample Time	11:55	09:15	09:55	14:05	14:30
ALS ID	11	12	13	14	15

Physical Tests

Conductivity	(uS/cm)	6360	844	2800	1520	785
Hardness	CaCO3	3890	504	1910	960	427
pH		6.05	8.06	7.84	7.84	8.19

Dissolved Anions

Alkalinity-Total		CaCO3	46.8	483	643	443	450
Sulphate	SO4		5390	61.4	1480	558	71.7

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID		ETA-05-4	V34	V35	V36	V37
Sample Date		06-06-14	06-06-09	06-06-09	06-06-09	06-06-09
Sample Time		11:55	09:15	09:55	14:05	14:30
ALS ID		11	12	13	14	15
Dissolved Metals						
Aluminum	D-Al	1.13	0.0082	<0.025	<0.025	<0.0050
Antimony	D-Sb	<0.050	<0.00050	<0.0025	<0.0025	<0.00050
Arsenic	D-As	<0.050	0.00139	<0.0025	0.0061	0.00241
Barium	D-Ba	<0.040	0.109	<0.020	<0.020	0.168
Beryllium	D-Be	<0.10	<0.0010	<0.0050	<0.0050	<0.0010
Boron	D-B	<0.20	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.0323	<0.000017	0.000148	0.000208	<0.000017
Calcium	D-Ca	411	73.3	398	200	58.5
Chromium	D-Cr	<0.10	<0.0010	<0.0050	<0.0050	<0.0010
Cobalt	D-Co	0.630	0.00041	<0.0015	<0.0015	<0.00030
Copper	D-Cu	<0.10	<0.0010	<0.0050	<0.0050	<0.0010
Iron	D-Fe	502	0.553	<0.030	<0.030	1.45
Lead	D-Pb	0.062	<0.00050	<0.0025	<0.0025	<0.00050
Lithium	D-Li	<0.50	0.0124	0.026	0.029	0.0220
Magnesium	D-Mg	695	77.9	221	112	68.3
Manganese	D-Mn	74.2	0.0739	0.0693	0.104	0.0806
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.10	0.0033	<0.0050	<0.0050	0.0190
Nickel	D-Ni	1.03	<0.0010	0.0059	0.0083	<0.0010
Potassium	D-K	9.0	3.2	4.0	3.3	4.9
Selenium	D-Se	<0.10	<0.0010	<0.0050	<0.0050	<0.0010
Silver	D-Ag	<0.0020	<0.000020	<0.00010	<0.00010	<0.000020
Sodium	D-Na	55.3	5.2	9.3	5.9	23.5
Thallium	D-Tl	<0.020	<0.00020	<0.0010	<0.0010	<0.00020
Tin	D-Sn	<0.050	<0.00050	<0.0025	<0.0025	<0.00050
Titanium	D-Ti	<0.020	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	<0.020	0.00644	0.104	0.0210	0.00035
Vanadium	D-V	0.065	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	393	0.0103	0.030	0.042	<0.0050

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X7471

Appendix 1 - QUALITY CONTROL - Replicates



Water	X21B-96	X21B-96	ETA-05-4	ETA-05-4
	06-06-13 17:31	QC # 506733	06-06-14 11:55	QC # 506734

Physical Tests

Conductivity	(uS/cm)	1360	1380	6360	6330
Hardness	CaCO ₃	650	665	3890	3880
pH		7.37	7.53	6.05	6.07

Dissolved Anions

Alkalinity-Total		CaCO ₃	165	166	46.8	47.7
Sulphate	SO ₄		590	588	5390	5430

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

Appendix 1 - QUALITY CONTROL - Replicates



Water		X21B-96	X21B-96	ETA-05-4	ETA-05-4
		06-06-13 17:31	QC # 506733	06-06-14 11:55	QC # 506734
Dissolved Metals					
Aluminum	D-Al	<0.025	<0.025	1.13	0.94
Antimony	D-Sb	<0.0025	<0.0025	<0.050	<0.050
Arsenic	D-As	0.0049	0.0048	<0.050	<0.050
Barium	D-Ba	0.022	0.022	<0.040	<0.040
Beryllium	D-Be	<0.0050	<0.0050	<0.10	<0.10
Boron	D-B	<0.10	<0.10	<0.20	<0.20
Cadmium	D-Cd	<0.000085	<0.000085	0.0323	0.0325
Calcium	D-Ca	192	198	411	411
Chromium	D-Cr	<0.0050	<0.0050	<0.10	<0.10
Cobalt	D-Co	0.0076	0.0074	0.630	0.632
Copper	D-Cu	<0.0050	<0.0050	<0.10	<0.10
Iron	D-Fe	42.4	42.0	502	505
Lead	D-Pb	<0.0025	<0.0025	0.062	0.060
Lithium	D-Li	<0.025	<0.025	<0.50	<0.50
Magnesium	D-Mg	41.4	41.3	695	694
Manganese	D-Mn	14.2	13.7	74.2	74.2
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0050	<0.0050	<0.10	<0.10
Nickel	D-Ni	0.0094	0.0090	1.03	1.02
Potassium	D-K	3.5	3.6	9.0	9.0
Selenium	D-Se	<0.0050	<0.0050	<0.10	<0.10
Silver	D-Ag	<0.00010	<0.00010	<0.0020	<0.0020
Sodium	D-Na	69.8	70.9	55.3	55.7
Thallium	D-Tl	<0.0010	<0.0010	<0.020	<0.020
Tin	D-Sn	<0.0025	<0.0025	<0.050	<0.050
Titanium	D-Ti	<0.010	<0.010	<0.020	<0.020
Uranium	D-U	0.0029	0.0028	<0.020	<0.020
Vanadium	D-V	<0.030	<0.030	0.065	0.064
Zinc	D-Zn	0.160	0.156	393	392

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

Appendix 2 - METHODOLOGY



Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

Conductivity in Water

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

pH in Water

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.

Recommended Holding Time:

Sample: 2 hours

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Colourimetry

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

Recommended Holding Time:

Sample: 14 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Sulphate in Water

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

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver



Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:

Sample: 6 months

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 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).

Recommended Holding Time:

Sample: 28 days

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Titration

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.

Recommended Holding Time:

Sample: 14 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

File No. X7471

Appendix 2 - METHODOLOGY - Continued



Results contained within this certificate relate only to the samples as submitted.

This Certificate Of Analysis shall only be reproduced in full, except with the written approval of ALS Environmental.

End of Report



CERTIFICATE OF ANALYSIS

Date: August 21, 2006

ALS File No. X9793

Report On: 60588 Water Analysis

Report To: **Gartner Lee Ltd.**
2251 2nd Ave
Whitehorse, YT
Y1A 5W1

Attention: **Ms. Jen Funston**

Received: August 8, 2006

ALS ENVIRONMENTAL

per:

Janice Pearson, - Account Manager
Can Dang, B.Sc. - Senior Account Manager

File No. X9793

RESULTS OF ANALYSIS - Water



Sample ID	X24D-96	X25A-96	X25B-96	P03-04-02	P03-04-04
Sample Date	06-08-02	06-08-02	06-08-02	06-08-02	06-08-02
Sample Time	15:50	17:55	17:59	12:55	12:30
ALS ID	1	2	3	4	5

Physical Tests

Conductivity	(uS/cm)	2780	983	1110	1640	1130
Hardness	CaCO3	1780	504	547	838	420
pH		7.44	7.91	8.03	7.30	7.96

Dissolved Anions

Alkalinity-Total		CaCO3	356	250	257	117	202
Sulphate	SO4		1650	289	359	878	394

Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X9793

RESULTS OF ANALYSIS - Water

Sample ID		X24D-96	X25A-96	X25B-96	P03-04-02	P03-04-04
Sample Date		06-08-02	06-08-02	06-08-02	06-08-02	06-08-02
Sample Time		15:50	17:55	17:59	12:55	12:30
ALS ID		1	2	3	4	5
Dissolved Metals						
Aluminum	D-Al	<0.050	<0.010	<0.010	<0.025	<0.010
Antimony	D-Sb	<0.0050	<0.0010	<0.0010	<0.0025	<0.0010
Arsenic	D-As	<0.0050	<0.0010	<0.0010	<0.0025	0.0052
Barium	D-Ba	0.023	0.039	0.027	<0.020	0.052
Beryllium	D-Be	<0.010	<0.0020	<0.0020	<0.0050	<0.0020
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.00253	0.000301	<0.000034	0.00277	<0.000034
Calcium	D-Ca	513	145	168	237	136
Chromium	D-Cr	<0.010	<0.0020	<0.0020	<0.0050	<0.0020
Cobalt	D-Co	0.0407	0.00463	<0.00060	0.0936	0.00268
Copper	D-Cu	<0.010	0.0032	<0.0020	<0.0050	<0.0020
Iron	D-Fe	<0.030	<0.030	0.680	0.075	4.13
Lead	D-Pb	<0.0050	<0.0010	<0.0010	<0.0025	<0.0010
Lithium	D-Li	<0.050	<0.010	<0.010	<0.025	<0.010
Magnesium	D-Mg	121	34.5	30.7	59.8	19.4
Manganese	D-Mn	48.5	5.26	0.157	34.5	3.91
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.010	<0.0020	<0.0020	<0.0050	<0.0020
Nickel	D-Ni	0.177	0.0082	<0.0020	0.139	<0.0020
Potassium	D-K	6.7	3.4	2.7	3.3	2.3
Selenium	D-Se	<0.010	<0.0020	<0.0020	<0.0050	<0.0020
Silver	D-Ag	<0.00020	<0.000040	<0.000040	<0.00010	<0.000040
Sodium	D-Na	49.0	25.1	51.2	32.5	81.2
Thallium	D-Tl	<0.0020	<0.00040	<0.00040	<0.0010	<0.00040
Tin	D-Sn	<0.0050	<0.0010	<0.0010	<0.0025	<0.0010
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.0053	0.00892	0.00494	<0.0010	0.00287
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.068	<0.010	<0.010	0.066	<0.010

Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X9793

RESULTS OF ANALYSIS - Water



Sample ID	P03-04-06	P03-08-02	P03-08-03	P03-08-04	P03-08-05
Sample Date	06-08-02	06-08-02	06-08-02	06-08-02	06-08-02
Sample Time	13:10	09:50	10:20	10:00	10:40
ALS ID	6	7	8	9	10

Physical Tests

Conductivity	(uS/cm)	5750	533	530	1290	2190
Hardness	CaCO ₃	1810	299	308	699	1120
pH		5.51	7.84	7.95	7.74	7.74

Dissolved Anions

Alkalinity-Total		CaCO ₃	15.6	225	228	292	241
Sulphate	SO ₄		4970	70.2	67.7	431	1100

Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X9793

RESULTS OF ANALYSIS - Water

Sample ID	P03-04-06	P03-08-02	P03-08-03	P03-08-04	P03-08-05
Sample Date	06-08-02	06-08-02	06-08-02	06-08-02	06-08-02
Sample Time	13:10	09:50	10:20	10:00	10:40
ALS ID	6	7	8	9	10

Dissolved Metals

Aluminum	D-Al	<0.10	0.0054	<0.010	0.015	<0.025
Antimony	D-Sb	<0.010	<0.00050	<0.0010	<0.0010	<0.0025
Arsenic	D-As	0.018	<0.00050	<0.0010	0.0040	<0.0025
Barium	D-Ba	<0.040	0.193	0.196	0.039	<0.020
Beryllium	D-Be	<0.020	<0.0010	<0.0020	<0.0020	<0.0050
Boron	D-B	<0.20	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.00034	0.000082	0.000119	<0.000034	<0.000085
Calcium	D-Ca	502	82.2	85.3	198	310
Chromium	D-Cr	<0.020	<0.0010	<0.0020	<0.0020	<0.0050
Cobalt	D-Co	0.0507	0.00061	0.00061	<0.00060	<0.0015
Copper	D-Cu	<0.020	0.0026	0.0026	<0.0020	<0.0050
Iron	D-Fe	1880	0.034	0.030	38.9	52.4
Lead	D-Pb	<0.010	<0.00050	<0.0010	<0.0010	<0.0025
Lithium	D-Li	<0.10	<0.0050	<0.010	<0.010	<0.025
Magnesium	D-Mg	135	22.8	23.0	49.5	84.5
Manganese	D-Mn	19.5	3.92	3.88	2.89	7.32
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.020	0.0010	<0.0020	0.0105	<0.0050
Nickel	D-Ni	0.119	0.0192	0.0194	<0.0020	<0.0050
Potassium	D-K	12.4	<2.0	<2.0	3.0	13.5
Selenium	D-Se	<0.020	<0.0010	<0.0020	<0.0020	<0.0050
Silver	D-Ag	<0.00040	<0.000020	<0.000040	<0.000040	<0.00010
Sodium	D-Na	113	7.8	7.9	45.5	126
Thallium	D-Tl	<0.0040	<0.00020	<0.00040	<0.00040	<0.0010
Tin	D-Sn	<0.010	<0.00050	<0.0010	<0.0010	<0.0025
Titanium	D-Ti	<0.020	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	<0.0040	0.00259	0.00256	0.00767	0.0013
Vanadium	D-V	<0.060	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	4.50	0.0059	<0.010	0.013	<0.025

Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X9793

RESULTS OF ANALYSIS - Water



Sample ID	P03-09-02	P03-09-04	P03-09-06	P03-09-07	P03-09-09
Sample Date	06-08-01	06-08-01	06-08-01	06-08-01	06-08-01
Sample Time	16:15	16:10	16:45	16:40	16:55
ALS ID	11	12	13	14	15

Physical Tests

Conductivity	(uS/cm)	1180	1180	1090	1170	1170
Hardness	CaCO3	626	661	598	655	660
pH		7.79	7.90	7.90	7.90	7.89

Dissolved Anions

Alkalinity-Total		CaCO3	318	263	267	260	261
Sulphate	SO4		347	406	331	405	379

Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X9793

RESULTS OF ANALYSIS - Water

Sample ID	P03-09-02	P03-09-04	P03-09-06	P03-09-07	P03-09-09
Sample Date	06-08-01	06-08-01	06-08-01	06-08-01	06-08-01
Sample Time	16:15	16:10	16:45	16:40	16:55
ALS ID	11	12	13	14	15

Dissolved Metals

Aluminum	D-Al	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony	D-Sb	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	D-As	0.0015	<0.0010	<0.0010	<0.0010	<0.0010
Barium	D-Ba	0.037	0.049	0.062	0.060	0.067
Beryllium	D-Be	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.000034	0.000284	0.000196	0.000208	0.000086
Calcium	D-Ca	165	199	177	198	200
Chromium	D-Cr	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt	D-Co	<0.00060	0.00343	0.00100	0.00134	0.00210
Copper	D-Cu	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Iron	D-Fe	6.37	<0.030	0.068	<0.030	0.135
Lead	D-Pb	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	D-Li	0.032	<0.010	0.016	0.011	0.011
Magnesium	D-Mg	52.0	40.0	37.8	38.8	39.2
Manganese	D-Mn	0.377	6.41	5.74	6.84	6.55
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Nickel	D-Ni	<0.0020	0.0090	0.0072	0.0082	0.0080
Potassium	D-K	3.0	3.7	3.4	3.6	3.6
Selenium	D-Se	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Silver	D-Ag	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040
Sodium	D-Na	46.1	32.5	33.5	33.4	34.1
Thallium	D-Tl	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Tin	D-Sn	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.00156	0.00659	0.00471	0.00554	0.00537
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	<0.010	<0.010	<0.010	<0.010	<0.010

Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X9793

RESULTS OF ANALYSIS - Water



Sample ID P00-01A

Sample Date 06-08-02
Sample Time 10:20
ALS ID 16

Physical Tests

Conductivity	(uS/cm)	533
Hardness	CaCO ₃	291
pH		7.99

Dissolved Anions

Alkalinity-Total		CaCO ₃	236
Sulphate	SO ₄		68.2

Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X9793

RESULTS OF ANALYSIS - Water



Sample ID P00-01A

Sample Date 06-08-02
Sample Time 10:20
ALS ID 16

Dissolved Metals

Aluminum	D-Al	<0.010
Antimony	D-Sb	<0.0010
Arsenic	D-As	<0.0010
Barium	D-Ba	0.185
Beryllium	D-Be	<0.0020
Boron	D-B	<0.10
Cadmium	D-Cd	0.000127
Calcium	D-Ca	80.9
Chromium	D-Cr	<0.0020
Cobalt	D-Co	0.00062
Copper	D-Cu	0.0025
Iron	D-Fe	<0.030
Lead	D-Pb	<0.0010
Lithium	D-Li	<0.010
Magnesium	D-Mg	21.8
Manganese	D-Mn	3.83
Mercury	D-Hg	<0.000020
Molybdenum	D-Mo	<0.0020
Nickel	D-Ni	0.0197
Potassium	D-K	<2.0
Selenium	D-Se	<0.0020
Silver	D-Ag	<0.000040
Sodium	D-Na	7.4
Thallium	D-Tl	<0.00040
Tin	D-Sn	<0.0010
Titanium	D-Ti	<0.010
Uranium	D-U	0.00254
Vanadium	D-V	<0.030
Zinc	D-Zn	0.013

Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X9793

Appendix 1 - QUALITY CONTROL - Replicates



Water	X24D-96	X24D-96	P03-09-09	P03-09-09
	06-08-02 15:50	QC # 515420	06-08-01 16:55	QC # 515421

Physical Tests

Conductivity	(uS/cm)	2780	2770	1170	1160
Hardness	CaCO3	1780	1700	660	655
pH		7.44	7.47	7.89	7.88

Dissolved Anions

Alkalinity-Total		CaCO3	356	381	261	245
Sulphate	SO4		1650	1480	379	396

Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

Appendix 1 - QUALITY CONTROL - Replicates



Water		X24D-96	X24D-96	P03-09-09	P03-09-09
		06-08-02 15:50	QC # 515420	06-08-01 16:55	QC # 515421
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	<0.0010	<0.0010
Barium	D-Ba	0.023	<0.020	0.067	0.065
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	0.00253	0.00287	0.000086	0.000088
Calcium	D-Ca	513	490	200	199
Chromium	D-Cr	<0.010	<0.010	<0.0020	<0.0020
Cobalt	D-Co	0.0407	0.0427	0.00210	0.00210
Copper	D-Cu	<0.010	<0.010	<0.0020	<0.0020
Iron	D-Fe	<0.030	<0.030	0.135	0.135
Lead	D-Pb	<0.0050	<0.0050	<0.0010	<0.0010
Lithium	D-Li	<0.050	<0.050	0.011	0.010
Magnesium	D-Mg	121	115	39.2	38.0
Manganese	D-Mn	48.5	50.4	6.55	6.56
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.010	<0.010	<0.0020	<0.0020
Nickel	D-Ni	0.177	0.188	0.0080	0.0081
Potassium	D-K	6.7	5.7	3.6	3.5
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	49.0	42.2	34.1	33.2
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	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.0053	0.0054	0.00537	0.00533
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.068	0.072	<0.010	<0.010

Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

Appendix 2 - METHODOLOGY



Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

Conductivity in Water

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

pH in Water

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.

Recommended Holding Time:

Sample: 2 hours

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Colourimetry

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

Recommended Holding Time:

Sample: 14 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Sulphate in Water

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

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Appendix 2 - METHODOLOGY - Continued



Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:

Sample: 6 months

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 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).

Recommended Holding Time:

Sample: 28 days

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Results contained within this certificate relate only to the samples as submitted.

This Certificate Of Analysis shall only be reproduced in full, except with the written approval of ALS Environmental.

End of Report



CERTIFICATE OF ANALYSIS

Date: August 17, 2006

ALS File No. X9794

Report On: 60601 Water Analysis

Report To: **Gartner Lee Ltd.**
2251 2nd Ave
Whitehorse, YT
Y1A 5W1

Attention: **Ms. Jen Funston**

Received: August 8, 2006

ALS ENVIRONMENTAL

per:

Amber Springer, B.Sc. - Senior Account Manager
Can Dang, B.Sc. - Senior Account Manager

File No. X9794

REMARKS



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

File No. X9794

RESULTS OF ANALYSIS - Water



Sample ID	P05-01-01	P05-01-02	P05-01-03	P05-01-04	P05-01-05
Sample Date	06-08-01	06-08-01	06-08-01	06-08-01	06-08-01
Sample Time	14:15	14:30	14:55	15:00	15:23
ALS ID	1	2	3	4	5

Physical Tests

Conductivity	(uS/cm)	1910	2100	2060	2100	1830
Hardness	CaCO3	1000	1350	1320	1340	1130
pH		7.71	7.76	7.81	7.87	7.85

Dissolved Anions

Alkalinity-Total		CaCO3	405	289	287	288	242
Sulphate	SO4		717	1030	998	1010	854

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID	P05-01-01	P05-01-02	P05-01-03	P05-01-04	P05-01-05
Sample Date	06-08-01	06-08-01	06-08-01	06-08-01	06-08-01
Sample Time	14:15	14:30	14:55	15:00	15:23
ALS ID	1	2	3	4	5

Dissolved Metals

Aluminum	D-Al	<0.025	<0.025	<0.025	<0.025	<0.025
Antimony	D-Sb	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Arsenic	D-As	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Barium	D-Ba	0.073	0.041	0.038	0.027	0.028
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085
Calcium	D-Ca	270	416	406	408	342
Chromium	D-Cr	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cobalt	D-Co	<0.0015	<0.0015	<0.0015	<0.0015	0.0062
Copper	D-Cu	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Iron	D-Fe	6.78	14.2	16.4	20.0	4.83
Lead	D-Pb	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Lithium	D-Li	0.235	0.026	0.026	<0.025	<0.025
Magnesium	D-Mg	79.9	76.2	75.0	76.5	68.0
Manganese	D-Mn	4.43	15.6	14.1	16.1	14.1
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Nickel	D-Ni	<0.0050	<0.0050	<0.0050	<0.0050	0.0057
Potassium	D-K	8.3	8.0	8.1	7.7	7.2
Selenium	D-Se	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Silver	D-Ag	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium	D-Na	118	48.1	46.0	45.7	37.8
Thallium	D-Tl	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Tin	D-Sn	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	<0.0010	0.0018	0.0018	0.0014	0.0027
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	<0.025	<0.025	<0.025	<0.025	<0.025

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X9794

RESULTS OF ANALYSIS - Water



Sample ID	P05-01-06	BH05-9B-R
Sample Date	06-08-01	06-08-03
Sample Time	15:26	11:20
ALS ID	6	7

Physical Tests

Conductivity	(uS/cm)	1830	617
Hardness	CaCO3	1150	226
pH		7.84	8.21

Dissolved Anions

Alkalinity-Total		CaCO3	247	149
Sulphate	SO4		851	160

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X9794

RESULTS OF ANALYSIS - Water



Sample ID	P05-01-06	BH05-9B-R
Sample Date	06-08-01	06-08-03
Sample Time	15:26	11:20
ALS ID	6	7

Dissolved Metals

Aluminum	D-Al	<0.025	0.0119
Antimony	D-Sb	<0.0025	<0.00050
Arsenic	D-As	<0.0025	0.0186
Barium	D-Ba	0.031	0.022
Beryllium	D-Be	<0.0050	<0.0010
Boron	D-B	<0.10	<0.10
Cadmium	D-Cd	<0.000085	<0.000017
Calcium	D-Ca	347	50.9
Chromium	D-Cr	<0.0050	<0.0010
Cobalt	D-Co	0.0073	<0.00030
Copper	D-Cu	<0.0050	<0.0010
Iron	D-Fe	3.91	0.738
Lead	D-Pb	<0.0025	0.00572
Lithium	D-Li	<0.025	0.0191
Magnesium	D-Mg	69.6	24.0
Manganese	D-Mn	14.6	0.103
Mercury	D-Hg	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0050	0.0112
Nickel	D-Ni	0.0058	<0.0010
Potassium	D-K	7.1	2.2
Selenium	D-Se	<0.0050	<0.0010
Silver	D-Ag	<0.00010	<0.000020
Sodium	D-Na	37.3	51.6
Thallium	D-Tl	<0.0010	<0.00020
Tin	D-Sn	<0.0025	<0.00050
Titanium	D-Ti	<0.010	<0.010
Uranium	D-U	0.0029	0.00085
Vanadium	D-V	<0.030	<0.030
Zinc	D-Zn	<0.025	0.0051

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X9794

Appendix 1 - QUALITY CONTROL - Replicates



Water	P05-01-06	P05-01-06
	06-08-01 15:26	QC # 515478

Physical Tests

Conductivity	(uS/cm)	1830	1830
Hardness	CaCO3	1150	1140
pH		7.84	7.83

Dissolved Anions

Alkalinity-Total		CaCO3	247	250
Sulphate	SO4		851	848

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. X9794

Appendix 1 - QUALITY CONTROL - Replicates



Water	P05-01-06	P05-01-06
	06-08-01 15:26	QC # 515478

Dissolved Metals

Aluminum	D-Al	<0.025	<0.025
Antimony	D-Sb	<0.0025	<0.0025
Arsenic	D-As	<0.0025	<0.0025
Barium	D-Ba	0.031	0.031
Beryllium	D-Be	<0.0050	<0.0050
Boron	D-B	<0.10	<0.10
Cadmium	D-Cd	<0.000085	<0.000085
Calcium	D-Ca	347	343
Chromium	D-Cr	<0.0050	<0.0050
Cobalt	D-Co	0.0073	0.0073
Copper	D-Cu	<0.0050	0.0050
Iron	D-Fe	3.91	3.99
Lead	D-Pb	<0.0025	<0.0025
Lithium	D-Li	<0.025	<0.025
Magnesium	D-Mg	69.6	68.6
Manganese	D-Mn	14.6	14.7
Mercury	D-Hg	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0050	<0.0050
Nickel	D-Ni	0.0058	0.0067
Potassium	D-K	7.1	7.3
Selenium	D-Se	<0.0050	<0.0050
Silver	D-Ag	<0.00010	<0.00010
Sodium	D-Na	37.3	38.6
Thallium	D-Tl	<0.0010	<0.0010
Tin	D-Sn	<0.0025	<0.0025
Titanium	D-Ti	<0.010	<0.010
Uranium	D-U	0.0029	0.0030
Vanadium	D-V	<0.030	<0.030
Zinc	D-Zn	<0.025	<0.025

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. X9794

Appendix 2 - METHODOLOGY



Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

Conductivity in Water

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

pH in Water

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.

Recommended Holding Time:

Sample: 2 hours

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Colourimetry

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

Recommended Holding Time:

Sample: 14 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Sulphate in Water

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

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Appendix 2 - METHODOLOGY - Continued



Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:

Sample: 6 months

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 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).

Recommended Holding Time:

Sample: 28 days

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Results contained within this certificate relate only to the samples as submitted.

This Certificate Of Analysis shall only be reproduced in full, except with the written approval of ALS Environmental.

End of Report



CERTIFICATE OF ANALYSIS

Date: October 12, 2006

ALS File No. Z3051

Report On: 60601 Water Analysis

Report To: **Gartner Lee Ltd.**
2251 2nd Ave
Whitehorse, YT
Y1A 5W1

Attention: **Ms. Jen Funston**

Received: September 27, 2006

ALS ENVIRONMENTAL

per:

Janice Pearson, - Account Manager
Can Dang, B.Sc. - Senior Account Manager

File No. Z3051

REMARKS



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

File No. Z3051

RESULTS OF ANALYSIS - Water



Sample ID	P01-01A	P01-01B	P01-02A	P01-02B	P05-02
Sample Date	06-09-22	06-09-22	06-09-22	06-09-22	06-09-22
ALS ID	1	2	3	4	5

Physical Tests

Conductivity	(uS/cm)	1510	1110	628	507	2040
Hardness	CaCO3	850	588	333	262	1160
pH		7.84	8.02	8.17	8.17	7.76

Dissolved Anions

Alkalinity-Total		CaCO3	256	246	234	180	304
Sulphate	SO4		617	367	124	94.4	929

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID		P01-01A	P01-01B	P01-02A	P01-02B	P05-02
Sample Date		06-09-22	06-09-22	06-09-22	06-09-22	06-09-22
ALS ID		1	2	3	4	5
Dissolved Metals						
Aluminum	D-Al	<0.025	0.028	<0.0050	<0.0050	<0.025
Antimony	D-Sb	<0.0025	<0.0010	<0.00050	<0.00050	<0.0025
Arsenic	D-As	<0.0025	0.0037	0.00066	0.00426	0.0088
Barium	D-Ba	0.102	0.080	0.065	0.035	0.057
Beryllium	D-Be	<0.0050	<0.0020	<0.0010	<0.0010	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.000551	<0.000034	0.000067	<0.000017	0.000116
Calcium	D-Ca	254	177	95.5	64.4	347
Chromium	D-Cr	<0.0050	<0.0020	<0.0010	<0.0010	<0.0050
Cobalt	D-Co	<0.0015	<0.00060	0.00042	<0.00030	0.0086
Copper	D-Cu	<0.0050	<0.0020	<0.0010	<0.0010	<0.0050
Iron	D-Fe	<0.030	0.774	<0.030	0.672	4.64
Lead	D-Pb	<0.0025	<0.0010	<0.00050	<0.00050	<0.0025
Lithium	D-Li	<0.025	0.011	0.0056	0.0057	<0.025
Magnesium	D-Mg	52.2	35.4	23.1	24.5	72.5
Manganese	D-Mn	4.72	0.119	0.925	0.137	15.1
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0050	<0.0020	0.0018	<0.0010	<0.0050
Nickel	D-Ni	0.0059	<0.0020	0.0019	<0.0010	0.0099
Potassium	D-K	5.6	3.4	2.3	<2.0	5.9
Selenium	D-Se	<0.0050	<0.0020	<0.0010	<0.0010	<0.0050
Silver	D-Ag	<0.00010	<0.000040	<0.000020	<0.000020	<0.00010
Sodium	D-Na	24.7	24.4	10.1	10.5	45.7
Thallium	D-Tl	<0.0010	<0.00040	<0.00020	<0.00020	<0.0010
Tin	D-Sn	<0.0025	<0.0010	<0.00050	<0.00050	<0.0025
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.0086	0.00635	0.00232	0.00214	0.0047
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	<0.025	<0.010	0.0054	0.0056	0.039

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. Z3051

RESULTS OF ANALYSIS - Water



Sample ID	X17-A	X17-B	X18-A	X18-B	P96-8A
Sample Date	06-09-22	06-09-22	06-09-22	06-09-22	06-09-22
ALS ID	6	7	8	9	10

Physical Tests

Conductivity	(uS/cm)	446	537	1380	1410	6410
Hardness	CaCO3	237	278	734	710	4670
pH		8.20	8.15	7.99	8.02	6.79

Dissolved Anions

Alkalinity-Total		CaCO3	233	274	251	253	253
Sulphate	SO4		30	41.6	592	604	2980

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID	X17-A	X17-B	X18-A	X18-B	P96-8A
Sample Date	06-09-22	06-09-22	06-09-22	06-09-22	06-09-22
ALS ID	6	7	8	9	10

Dissolved Metals

Aluminum	D-Al	<0.0050	<0.0050	<0.025	<0.025	1.82
Antimony	D-Sb	<0.00050	<0.00050	<0.0025	<0.0025	<0.025
Arsenic	D-As	<0.00050	<0.00050	0.0039	<0.0025	<0.025
Barium	D-Ba	0.154	0.214	0.248	0.136	<0.040
Beryllium	D-Be	<0.0010	<0.0010	<0.0050	<0.0050	<0.050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.20
Cadmium	D-Cd	0.000022	<0.000017	<0.000085	0.000393	0.0527
Calcium	D-Ca	65.4	75.8	215	205	464
Chromium	D-Cr	<0.0010	<0.0010	<0.0050	<0.0050	<0.050
Cobalt	D-Co	<0.00030	<0.00030	<0.0015	<0.0015	0.573
Copper	D-Cu	<0.0010	<0.0010	<0.0050	<0.0050	<0.050
Iron	D-Fe	0.175	0.823	2.77	0.114	6.45
Lead	D-Pb	<0.00050	0.00209	<0.0025	<0.0025	<0.025
Lithium	D-Li	<0.0050	0.0160	<0.025	<0.025	<0.25
Magnesium	D-Mg	17.9	21.4	48.1	48.1	852
Manganese	D-Mn	0.0104	0.233	1.14	2.43	74.4
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0010	0.0010	<0.0050	<0.0050	<0.050
Nickel	D-Ni	<0.0010	<0.0010	<0.0050	0.0138	0.709
Potassium	D-K	<2.0	<2.0	5.1	4.7	15.1
Selenium	D-Se	0.0011	<0.0010	<0.0050	<0.0050	<0.050
Silver	D-Ag	<0.000020	<0.000020	<0.00010	<0.00010	<0.0010
Sodium	D-Na	2.4	6.4	20.2	20.2	57.2
Thallium	D-Tl	<0.00020	<0.00020	<0.0010	<0.0010	<0.010
Tin	D-Sn	<0.00050	<0.00050	<0.0025	<0.0025	<0.025
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.020
Uranium	D-U	0.00250	0.00203	0.0073	0.0103	<0.010
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.060
Zinc	D-Zn	0.0076	0.0058	<0.025	<0.025	239

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. Z3051

RESULTS OF ANALYSIS - Water



Sample ID	P96-8B	SRK04-3A	SRK04-3A-5	SRK04-3B	SRK05-ETA-BR1
Sample Date	06-09-22	06-09-22	06-09-22	06-09-22	06-09-22
ALS ID	11	12	13	14	15

Physical Tests

Conductivity	(uS/cm)	6100	7360	7150	11000	6750
Hardness	CaCO3	4280	4270	4000	3850	3480
pH		6.69	5.92	5.78	4.40	5.63

Dissolved Anions

Alkalinity-Total		CaCO3	126	117	114	22.8	114
Sulphate	SO4		3220	6190	5930	10500	5750

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID		P96-8B	SRK04-3A	SRK04-3A-5	SRK04-3B	SRK05-ETA-BR1
Sample Date		06-09-22	06-09-22	06-09-22	06-09-22	06-09-22
ALS ID		11	12	13	14	15
Dissolved Metals						
Aluminum	D-Al	1.18	3.83	3.58	5.47	1.68
Antimony	D-Sb	<0.050	<0.050	<0.050	<0.050	<0.050
Arsenic	D-As	<0.050	<0.050	<0.050	<0.050	<0.050
Barium	D-Ba	<0.040	0.071	0.045	<0.10	<0.040
Beryllium	D-Be	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	D-B	<0.20	<0.30	<0.20	<0.50	<0.20
Cadmium	D-Cd	0.130	0.0320	0.0327	0.0057	0.0269
Calcium	D-Ca	430	456	417	420	432
Chromium	D-Cr	<0.10	<0.10	<0.10	<0.10	<0.10
Cobalt	D-Co	0.573	0.690	0.650	0.523	0.723
Copper	D-Cu	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	D-Fe	<0.060	913	846	3800	961
Lead	D-Pb	<0.050	0.335	0.280	0.118	<0.050
Lithium	D-Li	<0.50	<0.50	<0.50	<0.50	<0.50
Magnesium	D-Mg	780	760	718	680	583
Manganese	D-Mn	83.9	78.7	75.6	76.8	75.4
Mercury	D-Hg	<0.000020	0.000026	0.000028	<0.000020	<0.000020
Molybdenum	D-Mo	<0.10	<0.10	<0.10	<0.10	<0.10
Nickel	D-Ni	1.09	1.15	1.12	0.90	1.01
Potassium	D-K	16.8	11.6	13.4	<10	9.7
Selenium	D-Se	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	D-Ag	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	D-Na	65.9	58.2	55.8	58	71.4
Thallium	D-Tl	<0.020	<0.020	<0.020	<0.020	<0.020
Tin	D-Sn	<0.050	<0.050	<0.050	<0.050	<0.050
Titanium	D-Ti	<0.020	0.063	0.082	<0.050	<0.020
Uranium	D-U	<0.020	<0.020	<0.020	<0.020	<0.020
Vanadium	D-V	<0.060	0.128	<0.080	0.32	0.122
Zinc	D-Zn	375	455	438	628	424

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. Z3051

RESULTS OF ANALYSIS - Water



Sample ID	ETA-05-04	SRK05-ETA-BR2
Sample Date	06-09-22	06-09-22
ALS ID	16	17

Physical Tests

Conductivity	(uS/cm)	6430	2250
Hardness	CaCO3	3340	1460
pH		5.76	6.71

Dissolved Anions

Alkalinity-Total		CaCO3	120	112
Sulphate	SO4		5350	1410

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
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File No. Z3051

RESULTS OF ANALYSIS - Water



Sample ID	ETA-05-04	SRK05-ETA-BR2
Sample Date ALS ID	06-09-22 16	06-09-22 17

Dissolved Metals

Aluminum	D-Al	4.48	<0.025
Antimony	D-Sb	<0.050	<0.0025
Arsenic	D-As	<0.050	<0.0025
Barium	D-Ba	<0.040	0.069
Beryllium	D-Be	<0.10	<0.0050
Boron	D-B	<0.20	<0.20
Cadmium	D-Cd	0.0465	0.000132
Calcium	D-Ca	458	444
Chromium	D-Cr	<0.10	<0.0050
Cobalt	D-Co	0.804	0.0235
Copper	D-Cu	<0.10	<0.0050
Iron	D-Fe	852	44.9
Lead	D-Pb	0.089	<0.0025
Lithium	D-Li	<0.50	<0.025
Magnesium	D-Mg	533	85.1
Manganese	D-Mn	73.6	5.14
Mercury	D-Hg	0.000026	<0.000020
Molybdenum	D-Mo	<0.10	<0.0050
Nickel	D-Ni	1.06	0.0342
Potassium	D-K	11.4	<4.0
Selenium	D-Se	<0.10	<0.0050
Silver	D-Ag	<0.0020	<0.00010
Sodium	D-Na	55.8	25.6
Thallium	D-Tl	<0.020	<0.0010
Tin	D-Sn	<0.050	<0.0025
Titanium	D-Ti	<0.020	<0.020
Uranium	D-U	<0.020	0.0013
Vanadium	D-V	0.119	<0.060
Zinc	D-Zn	548	15.3

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. Z3051

Appendix 1 - QUALITY CONTROL - Replicates



Water	P01-01A	P01-01A	ETA-05-04	ETA-05-04
	06-09-22	QC # 524270	06-09-22	QC # 524271

Physical Tests

Conductivity	(uS/cm)	1510	1510	6430	6410
Hardness	CaCO3	850	820	3340	3210
pH		7.84	7.96	5.76	5.78

Dissolved Anions

Alkalinity-Total		CaCO3	256	268	120	119
Sulphate	SO4		617	618	5350	5370

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

Appendix 1 - QUALITY CONTROL - Replicates

Water	P01-01A	P01-01A	ETA-05-04	ETA-05-04
	06-09-22	QC # 524270	06-09-22	QC # 524271

Dissolved Metals

Aluminum	D-Al	<0.025	<0.025	4.48	4.55
Antimony	D-Sb	<0.0025	<0.0025	<0.050	<0.050
Arsenic	D-As	<0.0025	<0.0025	<0.050	<0.050
Barium	D-Ba	0.102	0.099	<0.040	<0.040
Beryllium	D-Be	<0.0050	<0.0050	<0.10	<0.10
Boron	D-B	<0.10	<0.10	<0.20	<0.20
Cadmium	D-Cd	0.000551	0.000532	0.0465	0.0443
Calcium	D-Ca	254	243	458	442
Chromium	D-Cr	<0.0050	<0.0050	<0.10	<0.10
Cobalt	D-Co	<0.0015	<0.0015	0.804	0.807
Copper	D-Cu	<0.0050	<0.0050	<0.10	<0.10
Iron	D-Fe	<0.030	<0.030	852	843
Lead	D-Pb	<0.0025	<0.0025	0.089	0.089
Lithium	D-Li	<0.025	<0.025	<0.50	<0.50
Magnesium	D-Mg	52.2	51.8	533	512
Manganese	D-Mn	4.72	4.46	73.6	74.8
Mercury	D-Hg	<0.000020	<0.000020	0.000026	0.000024
Molybdenum	D-Mo	<0.0050	<0.0050	<0.10	<0.10
Nickel	D-Ni	0.0059	0.0059	1.06	1.06
Potassium	D-K	5.6	5.4	11.4	11.2
Selenium	D-Se	<0.0050	<0.0050	<0.10	<0.10
Silver	D-Ag	<0.00010	<0.00010	<0.0020	<0.0020
Sodium	D-Na	24.7	24.3	55.8	54.8
Thallium	D-Tl	<0.0010	<0.0010	<0.020	<0.020
Tin	D-Sn	<0.0025	<0.0025	<0.050	<0.050
Titanium	D-Ti	<0.010	<0.010	<0.020	<0.020
Uranium	D-U	0.0086	0.0083	<0.020	<0.020
Vanadium	D-V	<0.030	<0.030	0.119	0.117
Zinc	D-Zn	<0.025	<0.025	548	555

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

Appendix 2 - METHODOLOGY



Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

Conductivity in Water

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

pH in Water

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.

Recommended Holding Time:

Sample: 2 hours

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Colourimetry

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

Recommended Holding Time:

Sample: 14 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Sulphate in Water

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

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver



Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 21th Edition 2005 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 hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:
Sample: 6 months
Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 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).

Recommended Holding Time:
Sample: 28 days
Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Results contained within this certificate relate only to the samples as submitted.

This Certificate Of Analysis shall only be reproduced in full, except with the written approval of ALS Environmental.

End of Report



CERTIFICATE OF ANALYSIS

Date: October 10, 2006
ALS File No. Z3052
Report On: 60601 Water Analysis
Report To: **Gartner Lee Ltd.**
2251 2nd Ave
Whitehorse, YT
Y1A 5W1
Attention: **Ms. Jen Funston**
Received: September 26, 2006

ALS ENVIRONMENTAL

per:

Janice Pearson, - Account Manager
Can Dang, B.Sc. - Senior Account Manager

File No. Z3052

RESULTS OF ANALYSIS - Water



Sample ID	P05-01-01	P05-01-02	P05-01-03	P05-01-04	P05-01-05
Sample Date	06-09-19	06-09-19	06-09-19	06-09-19	06-09-19
ALS ID	1	2	3	4	5

Physical Tests

Conductivity	(uS/cm)	1780	2090	2020	2040	1840
Hardness	CaCO ₃	833	1200	1160	1200	1130
pH		7.83	7.89	7.88	7.84	7.89

Dissolved Anions

Alkalinity-Total		CaCO ₃	492	299	290	298	262
Sulphate	SO ₄		549	965	925	979	831

Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. Z3052

RESULTS OF ANALYSIS - Water

Sample ID	P05-01-01	P05-01-02	P05-01-03	P05-01-04	P05-01-05
Sample Date	06-09-19	06-09-19	06-09-19	06-09-19	06-09-19
ALS ID	1	2	3	4	5

Dissolved Metals

Aluminum	D-Al	<0.025	<0.025	<0.025	<0.025	<0.025
Antimony	D-Sb	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Arsenic	D-As	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Barium	D-Ba	0.071	0.042	0.038	0.028	0.030
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085
Calcium	D-Ca	208	361	350	361	335
Chromium	D-Cr	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cobalt	D-Co	<0.0015	<0.0015	<0.0015	<0.0015	0.0063
Copper	D-Cu	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Iron	D-Fe	6.14	14.6	15.6	20.2	5.26
Lead	D-Pb	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Lithium	D-Li	0.289	0.027	0.027	<0.025	<0.025
Magnesium	D-Mg	76.4	72.4	69.2	72.3	72.2
Manganese	D-Mn	1.44	17.4	15.8	17.7	15.7
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Nickel	D-Ni	<0.0050	<0.0050	<0.0050	<0.0050	0.0051
Potassium	D-K	6.6	6.3	6.1	6.0	5.9
Selenium	D-Se	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Silver	D-Ag	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium	D-Na	142	52.8	48.5	50.0	41.0
Thallium	D-Tl	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Tin	D-Sn	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	<0.0010	0.0017	0.0017	0.0014	0.0028
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.034	0.033	0.031	0.032	<0.025

Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. Z3052

RESULTS OF ANALYSIS - Water



Sample ID	P05-01-06	P03-09-01	P03-09-02	P03-09-03	P03-09-04
Sample Date	06-09-19	06-09-19	06-09-19	06-09-19	06-09-19
ALS ID	6	7	8	9	10

Physical Tests

Conductivity	(uS/cm)	1840	1210	1190	1250	1260
Hardness	CaCO ₃	1070	643	637	677	690
pH		7.89	8.02	8.03	8.08	8.10

Dissolved Anions

Alkalinity-Total		CaCO ₃	245	342	337	270	281
Sulphate	SO ₄		850	349	345	437	447

Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID	P05-01-06	P03-09-01	P03-09-02	P03-09-03	P03-09-04
Sample Date	06-09-19	06-09-19	06-09-19	06-09-19	06-09-19
ALS ID	6	7	8	9	10

Dissolved Metals

Aluminum	D-Al	<0.025	<0.025	<0.010	<0.010	<0.010
Antimony	D-Sb	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010
Arsenic	D-As	<0.0025	<0.0025	0.0013	<0.0010	<0.0010
Barium	D-Ba	0.032	0.042	0.040	0.057	0.055
Beryllium	D-Be	<0.0050	<0.0050	<0.0020	<0.0020	<0.0020
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.000085	<0.000085	<0.000034	0.000049	0.000262
Calcium	D-Ca	318	171	171	203	208
Chromium	D-Cr	<0.0050	<0.0050	<0.0020	<0.0020	<0.0020
Cobalt	D-Co	0.0070	<0.0015	<0.00060	0.00567	0.00393
Copper	D-Cu	<0.0050	<0.0050	<0.0020	<0.0025	<0.0020
Iron	D-Fe	4.21	6.99	6.96	0.039	<0.030
Lead	D-Pb	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010
Lithium	D-Li	<0.025	0.033	0.032	<0.010	0.010
Magnesium	D-Mg	68.3	52.3	51.3	41.3	41.8
Manganese	D-Mn	16.6	0.441	0.389	7.88	7.16
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0050	<0.0050	<0.0020	<0.0020	<0.0020
Nickel	D-Ni	0.0062	<0.0050	<0.0020	0.0100	0.0099
Potassium	D-K	5.8	3.2	3.2	3.7	3.9
Selenium	D-Se	<0.0050	<0.0050	<0.0020	<0.0020	<0.0020
Silver	D-Ag	<0.00010	<0.00010	<0.000040	<0.000040	<0.000040
Sodium	D-Na	40.2	52.6	50.9	36.2	36.8
Thallium	D-Tl	<0.0010	<0.0010	<0.00040	<0.00040	<0.00040
Tin	D-Sn	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.0030	0.0015	0.00152	0.00703	0.00672
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	<0.025	<0.025	<0.010	0.013	0.012

Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. Z3052

RESULTS OF ANALYSIS - Water



Sample ID	P03-09-05	P03-09-06	P03-09-07	P03-09-08	P03-09-09
Sample Date	06-09-19	06-09-19	06-09-19	06-09-19	06-09-19
ALS ID	11	12	13	14	15

Physical Tests

Conductivity	(uS/cm)	1270	1220	1340	1280	1280
Hardness	CaCO ₃	714	668	735	690	682
pH		8.11	8.12	8.09	7.88	7.84

Dissolved Anions

Alkalinity-Total		CaCO ₃	277	279	274	269	280
Sulphate	SO ₄		454	416	488	471	474

Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID	P03-09-05	P03-09-06	P03-09-07	P03-09-08	P03-09-09
Sample Date	06-09-19	06-09-19	06-09-19	06-09-19	06-09-19
ALS ID	11	12	13	14	15

Dissolved Metals

Aluminum	D-Al	0.013	<0.010	<0.010	<0.010	<0.010
Antimony	D-Sb	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	D-As	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium	D-Ba	0.058	0.074	0.073	0.074	0.072
Beryllium	D-Be	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.000066	0.000239	0.000175	0.000064	0.000116
Calcium	D-Ca	217	197	224	209	208
Chromium	D-Cr	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt	D-Co	0.00487	0.00100	0.00139	0.00250	0.00240
Copper	D-Cu	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Iron	D-Fe	0.134	0.048	0.039	0.744	0.076
Lead	D-Pb	0.0015	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	D-Li	0.010	0.015	0.012	0.011	0.012
Magnesium	D-Mg	42.0	43.0	42.6	40.8	39.5
Manganese	D-Mn	7.72	6.48	8.27	8.45	8.04
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Nickel	D-Ni	0.0114	0.0076	0.0090	0.0078	0.0091
Potassium	D-K	3.9	3.8	3.9	3.7	3.6
Selenium	D-Se	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Silver	D-Ag	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040
Sodium	D-Na	36.4	37.4	35.8	34.0	33.3
Thallium	D-Tl	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Tin	D-Sn	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.00685	0.00483	0.00608	0.00620	0.00598
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.013	<0.010	<0.010	0.011	<0.010

Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. Z3052

Appendix 1 - QUALITY CONTROL - Replicates



Water	P05-01-06	P05-01-06	P03-09-04	P03-09-04
	06-09-19	QC # 524274	06-09-19	QC # 524275

Physical Tests

Conductivity	(uS/cm)	1840	1830	1260	1270
Hardness	CaCO ₃	1070	1090	690	722
pH		7.89	7.89	8.10	8.13

Dissolved Anions

Alkalinity-Total		CaCO ₃	245	257	281	280
Sulphate	SO ₄		850	847	447	451

Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

Appendix 1 - QUALITY CONTROL - Replicates



Water		P05-01-06 06-09-19	P05-01-06 QC # 524274	P03-09-04 06-09-19	P03-09-04 QC # 524275
Dissolved Metals					
Aluminum	D-Al	<0.025	<0.025	-	-
Antimony	D-Sb	<0.0025	<0.0025	-	-
Arsenic	D-As	<0.0025	<0.0025	-	-
Barium	D-Ba	0.032	0.032	0.055	0.059
Beryllium	D-Be	<0.0050	<0.0050	-	-
Boron	D-B	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.000085	<0.000085	-	-
Calcium	D-Ca	318	322	208	217
Chromium	D-Cr	<0.0050	<0.0050	-	-
Cobalt	D-Co	0.0070	0.0073	-	-
Copper	D-Cu	<0.0050	<0.0050	-	-
Iron	D-Fe	4.21	4.28	<0.030	<0.030
Lead	D-Pb	<0.0025	<0.0025	-	-
Lithium	D-Li	<0.025	<0.025	-	-
Magnesium	D-Mg	68.3	68.8	41.8	43.8
Manganese	D-Mn	16.6	17.0	-	-
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0050	<0.0050	-	-
Nickel	D-Ni	0.0062	0.0060	-	-
Potassium	D-K	5.8	5.8	3.9	4.1
Selenium	D-Se	<0.0050	<0.0050	-	-
Silver	D-Ag	<0.00010	<0.00010	-	-
Sodium	D-Na	40.2	39.9	36.8	39.1
Thallium	D-Tl	<0.0010	<0.0010	-	-
Tin	D-Sn	<0.0025	<0.0025	-	-
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.0030	0.0031	-	-
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	<0.025	<0.025	-	-

Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

Appendix 2 - METHODOLOGY



Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

Conductivity in Water

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

pH in Water

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.

Recommended Holding Time:

Sample: 2 hours

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Colourimetry

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

Recommended Holding Time:

Sample: 14 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Sulphate in Water

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

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Appendix 2 - METHODOLOGY - Continued



Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 21th Edition 2005 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 hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:

Sample: 6 months

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 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).

Recommended Holding Time:

Sample: 28 days

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Results contained within this certificate relate only to the samples as submitted.

This Certificate Of Analysis shall only be reproduced in full, except with the written approval of ALS Environmental.

End of Report



CERTIFICATE OF ANALYSIS

Date: October 10, 2006

ALS File No. Z3053

Report On: 60601-SRK Water Analysis

Report To: **Gartner Lee Ltd.**
2251 2nd Ave
Whitehorse, YT
Y1A 5W1

Attention: **Ms. Jen Funston**

Received: September 27, 2006

ALS ENVIRONMENTAL

per:

Janice Pearson, - Account Manager
Can Dang, B.Sc. - Senior Account Manager

File No. Z3053

REMARKS



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

File No. Z3053

RESULTS OF ANALYSIS - Water



Sample ID	NA05-11A	NA05-9D	NA05-2S	NA05-2D
Sample Date	06-09-23	06-09-23	06-09-23	06-09-23
ALS ID	1	2	3	4

Physical Tests

Conductivity	(uS/cm)	1220	1360	17400	2140
Hardness	CaCO3	693	375	9300	1230
pH		7.27	6.33	3.76	6.74

Dissolved Anions

Alkalinity-Total		CaCO3	256	64.3	13.6	168
Sulphate	SO4		487	785	18100	1230

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. Z3053

RESULTS OF ANALYSIS - Water

Sample ID	NA05-11A	NA05-9D	NA05-2S	NA05-2D
Sample Date	06-09-23	06-09-23	06-09-23	06-09-23
ALS ID	1	2	3	4

Dissolved Metals

Aluminum	D-Al	<0.025	<0.025	<0.50	<0.025
Antimony	D-Sb	<0.0025	<0.0025	<0.050	<0.0025
Arsenic	D-As	<0.0025	0.0026	<0.050	0.0029
Barium	D-Ba	0.041	<0.020	<0.20	0.028
Beryllium	D-Be	<0.0050	<0.0050	<0.10	<0.0050
Boron	D-B	<0.10	<0.10	<1.0	<0.10
Cadmium	D-Cd	0.00452	0.000186	<0.0017	0.000100
Calcium	D-Ca	137	110	412	330
Chromium	D-Cr	<0.0050	<0.0050	<0.10	<0.0050
Cobalt	D-Co	0.0632	0.0187	<0.030	0.0444
Copper	D-Cu	<0.0050	<0.0050	<0.10	<0.0050
Iron	D-Fe	20.4	373	7780	107
Lead	D-Pb	<0.0025	<0.0025	0.483	<0.0025
Lithium	D-Li	<0.025	<0.025	<0.50	<0.025
Magnesium	D-Mg	84.8	24.3	2010	99.3
Manganese	D-Mn	26.6	8.81	485	34.4
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0050	<0.0050	<0.10	<0.0050
Nickel	D-Ni	0.246	0.0217	<0.10	0.0182
Potassium	D-K	2.7	3.9	<20	4.9
Selenium	D-Se	<0.0050	<0.0050	<0.10	<0.0050
Silver	D-Ag	<0.00010	<0.00010	<0.0020	<0.00010
Sodium	D-Na	10.6	14.0	28	44.4
Thallium	D-Tl	<0.0010	<0.0010	<0.020	<0.0010
Tin	D-Sn	<0.0025	<0.0025	<0.050	<0.0025
Titanium	D-Ti	<0.010	<0.010	<0.10	<0.010
Uranium	D-U	0.0058	0.0013	<0.020	0.0059
Vanadium	D-V	<0.025	<0.025	2.09	<0.025
Zinc	D-Zn	22.6	16.2	8.68	0.333

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

Appendix 1 - METHODOLOGY



Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

Conductivity in Water

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

pH in Water

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.

Recommended Holding Time:

Sample: 2 hours

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Colourimetry

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

Recommended Holding Time:

Sample: 14 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Sulphate in Water

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

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver



Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 21th Edition 2005 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 hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000-series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:
Sample: 6 months
Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 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).

Recommended Holding Time:
Sample: 28 days
Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Results contained within this certificate relate only to the samples as submitted.

This Certificate Of Analysis shall only be reproduced in full, except with the written approval of ALS Environmental.

End of Report



CERTIFICATE OF ANALYSIS

Date: October 10, 2006

ALS File No. Z3054

Report On: 60601 Water Analysis

Report To: **Gartner Lee Ltd.**
2251 2nd Ave
Whitehorse, YT
Y1A 5W1

Attention: **Ms. Jen Funston**

Received: September 26, 2006

ALS ENVIRONMENTAL

per:

Janice Pearson, - Account Manager
Can Dang, B.Sc. - Senior Account Manager

File No. Z3054

RESULTS OF ANALYSIS - Water



Sample ID	P03-06-01	P03-06-02	P03-06-03	P03-06-04	P03-06-05
Sample Date	06-09-21	06-09-21	06-09-21	06-09-21	06-09-21
ALS ID	1	2	3	4	5

Physical Tests

Conductivity	(uS/cm)	1850	1930	2310	1260	2040
Hardness	CaCO ₃	920	991	1300	639	849
pH		7.45	7.00	6.70	7.41	6.11

Dissolved Anions

Alkalinity-Total		CaCO ₃	188	128	115	171	23.2
Sulphate	SO ₄		932	1020	1460	609	1340

Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water



Sample ID	P03-06-01	P03-06-02	P03-06-03	P03-06-04	P03-06-05
Sample Date	06-09-21	06-09-21	06-09-21	06-09-21	06-09-21
ALS ID	1	2	3	4	5

Dissolved Metals

Aluminum	D-Al	0.118	<0.025	<0.025	<0.010	<0.025
Antimony	D-Sb	<0.0025	<0.0025	<0.0025	<0.0010	<0.0025
Arsenic	D-As	<0.0025	<0.0025	<0.0025	<0.0010	0.0078
Barium	D-Ba	0.060	0.052	0.027	0.069	<0.020
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.0020	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.000491	0.00196	0.0162	0.000166	<0.000085
Calcium	D-Ca	251	268	350	179	127
Chromium	D-Cr	<0.0050	<0.0050	<0.0050	<0.0020	<0.0050
Cobalt	D-Co	0.0397	0.0995	0.369	0.0232	0.0093
Copper	D-Cu	<0.0050	<0.0050	<0.0050	<0.0020	<0.0050
Iron	D-Fe	0.768	31.5	91.9	15.2	240
Lead	D-Pb	<0.0025	<0.0025	<0.0025	<0.0010	0.0025
Lithium	D-Li	<0.025	<0.025	0.036	0.011	0.029
Magnesium	D-Mg	71.1	78.3	103	46.7	129
Manganese	D-Mn	26.5	30.6	49.7	14.1	32.0
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0050	<0.0050	<0.0050	0.0031	<0.0050
Nickel	D-Ni	0.0547	0.116	0.610	0.0318	0.0364
Potassium	D-K	2.3	2.7	4.0	2.2	2.4
Selenium	D-Se	<0.0050	<0.0050	<0.0050	<0.0020	<0.0050
Silver	D-Ag	<0.00010	<0.00010	<0.00010	<0.000040	<0.00010
Sodium	D-Na	35.6	36.1	25.0	19.2	27.9
Thallium	D-Tl	<0.0010	<0.0010	<0.0010	<0.00040	<0.0010
Tin	D-Sn	<0.0025	<0.0025	<0.0025	<0.0010	<0.0025
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.0128	0.0069	0.0045	0.0325	0.0041
Vanadium	D-V	0.034	0.030	0.049	<0.030	0.038
Zinc	D-Zn	0.900	0.731	1.81	2.11	34.7

Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. Z3054

RESULTS OF ANALYSIS - Water



Sample ID	P03-07-02	P03-07-05	P03-07-05-S	P03-08-07	P03-08-08
Sample Date	06-09-20	06-09-20	06-09-20	06-09-20	06-09-20
ALS ID	6	7	8	9	10

Physical Tests

Conductivity	(uS/cm)	2840	1220	1220	1550	494
Hardness	CaCO3	1680	672	685	561	83.8
pH		6.94	7.67	7.74	7.42	7.74

Dissolved Anions

Alkalinity-Total		CaCO3	207	204	193	34.7	121
Sulphate	SO4		1800	504	501	732	114

Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID	P03-07-02	P03-07-05	P03-07-05-S	P03-08-07	P03-08-08
Sample Date	06-09-20	06-09-20	06-09-20	06-09-20	06-09-20
ALS ID	6	7	8	9	10

Dissolved Metals

Aluminum	D-Al	<0.025	<0.010	0.124	<0.010	<0.0050
Antimony	D-Sb	<0.0025	0.0022	0.0023	<0.0010	0.00147
Arsenic	D-As	<0.0025	0.0032	0.0033	<0.0010	0.00103
Barium	D-Ba	<0.020	<0.020	<0.020	<0.020	0.022
Beryllium	D-Be	<0.0050	<0.0020	<0.0020	<0.0020	<0.0010
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.000085	<0.000034	<0.000034	<0.000034	0.000037
Calcium	D-Ca	471	185	188	216	18.4
Chromium	D-Cr	<0.0050	<0.0020	<0.0020	<0.0020	<0.0010
Cobalt	D-Co	0.262	<0.00060	<0.00060	0.00378	0.00132
Copper	D-Cu	<0.0050	<0.0020	<0.0020	<0.0020	<0.0010
Iron	D-Fe	40.2	19.5	19.9	0.811	<0.030
Lead	D-Pb	<0.0025	<0.0010	<0.0010	0.0016	0.00094
Lithium	D-Li	0.030	<0.010	<0.010	0.016	0.0140
Magnesium	D-Mg	122	50.8	52.2	5.36	9.17
Manganese	D-Mn	50.0	5.18	5.28	0.475	0.0350
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0050	0.0069	0.0070	0.0331	0.0339
Nickel	D-Ni	0.371	<0.0020	<0.0020	<0.0020	<0.0010
Potassium	D-K	5.2	3.2	3.4	4.1	10.1
Selenium	D-Se	<0.0050	<0.0020	<0.0020	<0.0020	<0.0010
Silver	D-Ag	<0.00010	<0.000040	<0.000040	<0.000040	<0.000020
Sodium	D-Na	26.8	33.0	34.7	157	75.1
Thallium	D-Tl	<0.0010	<0.00040	<0.00040	<0.00040	<0.00020
Tin	D-Sn	<0.0025	<0.0010	<0.0010	<0.0010	<0.00050
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.0049	0.00811	0.00831	<0.00040	<0.00020
Vanadium	D-V	0.051	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.644	<0.010	0.011	0.010	0.0057

Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. Z3054

RESULTS OF ANALYSIS - Water



Sample ID P03-08-08-S

Sample Date 06-09-20
ALS ID 11

Physical Tests

Conductivity	(uS/cm)	493
Hardness	CaCO ₃	80.2
pH		7.90

Dissolved Anions

Alkalinity-Total		CaCO ₃	131
Sulphate	SO ₄		113

Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. Z3054

RESULTS OF ANALYSIS - Water



Sample ID P03-08-08-S

Sample Date 06-09-20
ALS ID 11

Dissolved Metals

Aluminum	D-Al	<0.0050
Antimony	D-Sb	0.00135
Arsenic	D-As	0.00099
Barium	D-Ba	0.021
Beryllium	D-Be	<0.0010
Boron	D-B	<0.10
Cadmium	D-Cd	<0.000017
Calcium	D-Ca	17.6
Chromium	D-Cr	<0.0010
Cobalt	D-Co	0.00131
Copper	D-Cu	<0.0010
Iron	D-Fe	<0.030
Lead	D-Pb	0.00089
Lithium	D-Li	0.0144
Magnesium	D-Mg	8.81
Manganese	D-Mn	0.0338
Mercury	D-Hg	<0.000020
Molybdenum	D-Mo	0.0326
Nickel	D-Ni	<0.0010
Potassium	D-K	9.6
Selenium	D-Se	<0.0010
Silver	D-Ag	<0.000020
Sodium	D-Na	72.9
Thallium	D-Tl	<0.00020
Tin	D-Sn	<0.00050
Titanium	D-Ti	<0.010
Uranium	D-U	<0.00020
Vanadium	D-V	<0.030
Zinc	D-Zn	0.0113

Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. Z3054

Appendix 1 - QUALITY CONTROL - Replicates



Water	P03-06-05	P03-06-05
	06-09-21	QC # 524283

Physical Tests

Conductivity	(uS/cm)	2040	2040
Hardness	CaCO ₃	849	822
pH		6.11	6.04

Dissolved Anions

Alkalinity-Total		CaCO ₃	23.2	23.6
Sulphate	SO ₄		1340	1340

Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

Appendix 1 - QUALITY CONTROL - Replicates

Water	P03-06-05	P03-06-05
	06-09-21	QC # 524283

Dissolved Metals

Aluminum	D-Al	<0.025	<0.025
Antimony	D-Sb	<0.0025	<0.0025
Arsenic	D-As	0.0078	0.0078
Barium	D-Ba	<0.020	<0.020
Beryllium	D-Be	<0.0050	<0.0050
Boron	D-B	<0.10	<0.10
Cadmium	D-Cd	<0.000085	<0.000085
Calcium	D-Ca	127	123
Chromium	D-Cr	<0.0050	<0.0050
Cobalt	D-Co	0.0093	0.0090
Copper	D-Cu	<0.0050	<0.0050
Iron	D-Fe	240	247
Lead	D-Pb	0.0025	0.0025
Lithium	D-Li	0.029	0.027
Magnesium	D-Mg	129	125
Manganese	D-Mn	32.0	31.0
Mercury	D-Hg	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0050	<0.0050
Nickel	D-Ni	0.0364	0.0364
Potassium	D-K	2.4	2.6
Selenium	D-Se	<0.0050	<0.0050
Silver	D-Ag	<0.00010	<0.00010
Sodium	D-Na	27.9	29.0
Thallium	D-Tl	<0.0010	<0.0010
Tin	D-Sn	<0.0025	<0.0025
Titanium	D-Ti	<0.010	<0.010
Uranium	D-U	0.0041	0.0039
Vanadium	D-V	0.038	0.045
Zinc	D-Zn	34.7	33.9

Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

Appendix 2 - METHODOLOGY



Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

Conductivity in Water

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

pH in Water

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.

Recommended Holding Time:

Sample: 2 hours

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Colourimetry

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

Recommended Holding Time:

Sample: 14 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Sulphate in Water

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

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Appendix 2 - METHODOLOGY - Continued



Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 21th Edition 2005 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 hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:
Sample: 6 months
Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 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).

Recommended Holding Time:
Sample: 28 days
Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Results contained within this certificate relate only to the samples as submitted.

This Certificate Of Analysis shall only be reproduced in full, except with the written approval of ALS Environmental.

End of Report



CERTIFICATE OF ANALYSIS

Date: October 12, 2006

ALS File No. Z3064

Report On: 60601 Water Analysis

Report To: **Gartner Lee Ltd.**
2251 2nd Ave
Whitehorse, YT
Y1A 5W1

Attention: **Ms. Jen Funston**

Received: September 27, 2006

ALS ENVIRONMENTAL

per:

Janice Pearson, - Account Manager
Can Dang, B.Sc. - Senior Account Manager

File No. Z3064

REMARKS



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

File No. Z3064

RESULTS OF ANALYSIS - Water



Sample ID	X16A	X16B	X24A	X24D	X25A
Sample Date	06-09-21	06-09-21	06-09-21	06-09-21	06-09-21
ALS ID	1	2	3	4	5

Physical Tests

Conductivity	(uS/cm)	326	397	2510	2800	967
Hardness	CaCO ₃	179	239	1460	1810	504
pH		8.08	8.12	7.56	7.37	7.86

Dissolved Anions

Alkalinity-Total		CaCO ₃	165	204	355	394	258
Sulphate	SO ₄		26.2	28.7	1400	1710	326

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID		X16A	X16B	X24A	X24D	X25A
Sample Date		06-09-21	06-09-21	06-09-21	06-09-21	06-09-21
ALS ID		1	2	3	4	5
Dissolved Metals						
Aluminum	D-Al	<0.010	<0.010	<0.050	<0.050	<0.020
Antimony	D-Sb	<0.00050	<0.00050	<0.0025	<0.0025	<0.0010
Arsenic	D-As	<0.0010	<0.0010	<0.0050	<0.0050	<0.0020
Barium	D-Ba	0.104	0.157	0.020	0.022	0.042
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.00065	<0.000050	<0.00025	0.00268	0.00027
Calcium	D-Ca	49.9	65.7	419	527	145
Chromium	D-Cr	<0.00050	<0.00050	<0.0025	<0.0025	<0.0010
Cobalt	D-Co	<0.00050	<0.00050	0.0287	0.0420	0.0046
Copper	D-Cu	<0.0010	<0.0010	<0.0050	<0.0050	0.0030
Iron	D-Fe	<0.030	<0.030	<0.030	<0.030	<0.030
Lead	D-Pb	<0.0010	<0.0010	<0.0050	<0.0050	<0.0020
Lithium	D-Li	<0.050	<0.050	<0.050	<0.050	<0.050
Magnesium	D-Mg	13.1	18.2	99.5	120	34.5
Manganese	D-Mn	<0.010	<0.010	24.4	50.5	4.33
Mercury	D-Hg	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	D-Mo	0.0023	0.0017	<0.0050	<0.0050	<0.0020
Nickel	D-Ni	<0.0050	<0.0050	0.113	0.177	<0.010
Selenium	D-Se	0.0010	0.0018	<0.0050	<0.0050	<0.0020
Silver	D-Ag	<0.000050	<0.000050	<0.00025	<0.00025	<0.00010
Sodium	D-Na	<2.0	<2.0	35.4	46.9	27.1
Thallium	D-Tl	<0.00020	<0.00020	<0.0010	<0.0010	<0.00040
Titanium	D-Ti	<0.050	<0.050	<0.050	<0.050	<0.050
Uranium	D-U	0.00168	0.00211	0.0085	0.0050	0.00885
Vanadium	D-V	<0.030	<0.030	0.036	0.060	<0.030
Zinc	D-Zn	0.0143	<0.0050	<0.0050	0.0926	0.0132

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. Z3064

RESULTS OF ANALYSIS - Water



Sample ID	X25B	P01-03	P01-03-S	P01-04A	P01-04B
Sample Date	06-09-21	06-09-21	06-09-21	06-09-21	06-09-21
ALS ID	6	7	8	9	10

Physical Tests

Conductivity	(uS/cm)	1090	2620	2620	1090	1380
Hardness	CaCO ₃	521	1540	1400	467	682
pH		8.02	7.43	7.47	7.49	7.86

Dissolved Anions

Alkalinity-Total		CaCO ₃	269	358	354	643	299
Sulphate	SO ₄		388	1570	1570	34.0	555

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID		X25B	P01-03	P01-03-S	P01-04A	P01-04B
Sample Date		06-09-21	06-09-21	06-09-21	06-09-21	06-09-21
ALS ID		6	7	8	9	10
Dissolved Metals						
Aluminum	D-Al	<0.020	0.227	<0.050	<0.020	0.052
Antimony	D-Sb	<0.0010	<0.0025	<0.0025	<0.0010	<0.0010
Arsenic	D-As	<0.0020	<0.0050	<0.0050	<0.0020	<0.0020
Barium	D-Ba	0.027	<0.020	<0.020	0.425	0.029
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.00010	0.00167	0.00174	<0.00010	<0.00010
Calcium	D-Ca	162	446	403	118	217
Chromium	D-Cr	<0.0010	<0.0025	<0.0025	<0.0010	<0.0010
Cobalt	D-Co	<0.0010	0.0568	0.0574	<0.0010	<0.0010
Copper	D-Cu	<0.0020	<0.0050	<0.0050	<0.0020	<0.0020
Iron	D-Fe	0.686	0.236	0.225	0.610	4.95
Lead	D-Pb	<0.0020	<0.0050	<0.0050	<0.0020	<0.0020
Lithium	D-Li	<0.050	<0.050	<0.050	0.146	<0.050
Magnesium	D-Mg	28.2	103	94.9	42.1	34.3
Manganese	D-Mn	0.163	48.4	48.6	0.223	1.35
Mercury	D-Hg	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	D-Mo	<0.0020	<0.0050	<0.0050	<0.0020	<0.0020
Nickel	D-Ni	<0.010	0.116	0.117	<0.010	<0.010
Selenium	D-Se	<0.0020	<0.0050	<0.0050	<0.0020	<0.0020
Silver	D-Ag	<0.00010	<0.00025	<0.00025	0.00027	<0.00010
Sodium	D-Na	48.4	41.1	41.7	71.4	43.2
Thallium	D-Tl	<0.00040	<0.0010	<0.0010	<0.00040	<0.00040
Titanium	D-Ti	<0.050	<0.050	<0.050	<0.050	<0.050
Uranium	D-U	0.00508	0.0071	0.0070	<0.00040	0.00369
Vanadium	D-V	<0.030	0.047	<0.030	<0.030	<0.030
Zinc	D-Zn	<0.0050	0.0175	0.0186	<0.0050	<0.0050

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. Z3064

RESULTS OF ANALYSIS - Water



Sample ID	P01-11	P05-03	SRK05-05C	X21A-96	X21B-96
Sample Date	06-09-21	06-09-21	06-09-21	06-09-21	06-09-21
ALS ID	11	12	13	14	15

Physical Tests

Conductivity	(uS/cm)	2010	1050	1040	12500	1830
Hardness	CaCO3	1000	548	592	4930	777
pH		7.69	7.88	7.94	3.87	6.47

Dissolved Anions

Alkalinity-Total		CaCO3	305	256	240	12.8	28.0
Sulphate	SO4		983	363	387	13800	1100

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID	P01-11	P05-03	SRK05-05C	X21A-96	X21B-96
Sample Date	06-09-21	06-09-21	06-09-21	06-09-21	06-09-21
ALS ID	11	12	13	14	15

Dissolved Metals

Aluminum	D-Al	0.189	<0.020	<0.020	<1.0	<0.050
Antimony	D-Sb	<0.0025	<0.0010	<0.0010	<0.050	<0.0025
Arsenic	D-As	0.0310	<0.0020	0.0053	<0.10	0.0056
Barium	D-Ba	0.043	0.160	0.170	<0.20	0.024
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.050	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<1.0	<0.10
Cadmium	D-Cd	<0.00025	<0.00010	<0.00010	<0.0050	<0.00025
Calcium	D-Ca	305	166	143	329	226
Chromium	D-Cr	<0.0025	<0.0010	<0.0010	<0.050	<0.0025
Cobalt	D-Co	0.0026	0.0016	0.0037	<0.050	0.0320
Copper	D-Cu	<0.0050	<0.0020	<0.0020	<0.10	<0.0050
Iron	D-Fe	22.2	1.81	1.24	4900	192
Lead	D-Pb	<0.0050	<0.0020	<0.0020	<0.10	<0.0050
Lithium	D-Li	<0.050	<0.050	<0.050	<0.50	<0.050
Magnesium	D-Mg	57.8	32.3	56.7	997	51.8
Manganese	D-Mn	15.5	6.83	3.97	446	29.9
Mercury	D-Hg	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	D-Mo	<0.0050	0.0037	0.0123	<0.10	<0.0050
Nickel	D-Ni	<0.025	<0.010	<0.010	<0.50	0.026
Selenium	D-Se	<0.0050	<0.0020	<0.0020	<0.10	<0.0050
Silver	D-Ag	<0.00025	<0.00010	<0.00010	<0.0050	<0.00025
Sodium	D-Na	44.6	24.1	13.6	<20	69.6
Thallium	D-Tl	<0.0010	<0.00040	<0.00040	<0.020	<0.0010
Titanium	D-Ti	<0.050	<0.050	<0.050	<0.50	<0.050
Uranium	D-U	0.0047	0.00656	0.00337	<0.020	0.0036
Vanadium	D-V	<0.030	<0.030	<0.030	1.42	0.049
Zinc	D-Zn	0.0050	0.0125	0.0195	59.3	6.07

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. Z3064

RESULTS OF ANALYSIS - Water



Sample ID X21C-96

Sample Date 06-09-21
ALS ID 16

Physical Tests

Conductivity	(uS/cm)	337
Hardness	CaCO3	169
pH		7.97

Dissolved Anions

Alkalinity-Total		CaCO3	189
Sulphate	SO4		11.9

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. Z3064

RESULTS OF ANALYSIS - Water



Sample ID X21C-96

Sample Date 06-09-21
ALS ID 16

Dissolved Metals

Aluminum	D-Al	<0.010
Antimony	D-Sb	<0.00050
Arsenic	D-As	0.0236
Barium	D-Ba	0.197
Beryllium	D-Be	<0.0050
Boron	D-B	<0.10
Cadmium	D-Cd	<0.000050
Calcium	D-Ca	52.1
Chromium	D-Cr	<0.00050
Cobalt	D-Co	<0.00050
Copper	D-Cu	<0.0010
Iron	D-Fe	0.523
Lead	D-Pb	0.0017
Lithium	D-Li	<0.050
Magnesium	D-Mg	9.54
Manganese	D-Mn	0.232
Mercury	D-Hg	<0.00020
Molybdenum	D-Mo	0.0036
Nickel	D-Ni	<0.0050
Selenium	D-Se	<0.0010
Silver	D-Ag	<0.000050
Sodium	D-Na	2.2
Thallium	D-Tl	<0.00020
Titanium	D-Ti	<0.050
Uranium	D-U	<0.00020
Vanadium	D-V	<0.030
Zinc	D-Zn	0.0061

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. Z3064

Appendix 1 - QUALITY CONTROL - Replicates



Water	X21A-96	X21A-96	X21C-96	X21C-96
	06-09-21	QC # 524462	06-09-21	QC # 524463

Physical Tests

Conductivity	(uS/cm)	12500	12500	337	330
Hardness	CaCO ₃	4930	4990	169	169
pH		-	-	7.97	8.12

Dissolved Anions

Alkalinity-Total		CaCO ₃	12.8	13.8	189	190
Sulphate	SO ₄		13800	7550	11.9	12.0

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

Appendix 1 - QUALITY CONTROL - Replicates



Water		X21A-96	X21A-96	X21C-96	X21C-96
		06-09-21	QC # 524462	06-09-21	QC # 524463
Dissolved Metals					
Aluminum	D-Al	<1.0	<1.0	<0.010	<0.010
Antimony	D-Sb	<0.050	<0.050	<0.00050	<0.00050
Arsenic	D-As	<0.10	<0.10	0.0236	0.0234
Barium	D-Ba	<0.20	<0.20	0.197	0.195
Beryllium	D-Be	<0.050	<0.050	<0.0050	<0.0050
Boron	D-B	<1.0	<1.0	<0.10	<0.10
Cadmium	D-Cd	<0.0050	<0.0050	<0.000050	<0.000050
Calcium	D-Ca	329	374	52.1	51.9
Chromium	D-Cr	<0.050	<0.050	<0.00050	<0.00050
Cobalt	D-Co	<0.050	<0.050	<0.00050	<0.00050
Copper	D-Cu	<0.10	<0.10	<0.0010	<0.0010
Iron	D-Fe	4900	5550	0.523	0.507
Lead	D-Pb	<0.10	<0.10	0.0017	0.0016
Lithium	D-Li	<0.50	<0.50	<0.050	<0.050
Magnesium	D-Mg	997	984	9.54	9.46
Manganese	D-Mn	446	476	0.232	0.231
Mercury	D-Hg	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	D-Mo	<0.10	<0.10	0.0036	0.0037
Nickel	D-Ni	<0.50	<0.50	<0.0050	<0.0050
Selenium	D-Se	<0.10	<0.10	<0.0010	<0.0010
Silver	D-Ag	<0.0050	<0.0050	<0.000050	<0.000050
Sodium	D-Na	<20	22	2.2	2.1
Thallium	D-Tl	<0.020	<0.020	<0.00020	<0.00020
Titanium	D-Ti	<0.50	<0.50	<0.050	<0.050
Uranium	D-U	<0.020	<0.020	<0.00020	0.00020
Vanadium	D-V	1.42	0.90	<0.030	<0.030
Zinc	D-Zn	59.3	58.3	0.0061	0.0058

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

Appendix 2 - METHODOLOGY



Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

Conductivity in Water

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

pH in Water

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.

Recommended Holding Time:

Sample: 2 hours

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Colourimetry

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

Recommended Holding Time:

Sample: 14 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Sulphate in Water

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

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Appendix 2 - METHODOLOGY - Continued



Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 21th Edition 2005 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 hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:

Sample: 6 months

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 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).

Recommended Holding Time:

Sample: 28 days

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Titration

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.

Recommended Holding Time:

Sample: 14 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

File No. Z3064

Appendix 2 - METHODOLOGY - Continued



Results contained within this certificate relate only to the samples as submitted.

This Certificate Of Analysis shall only be reproduced in full, except with the written approval of ALS Environmental.

End of Report



CERTIFICATE OF ANALYSIS

Date: October 12, 2006

ALS File No. Z3072

Report On: 60601 Water Analysis

Report To: **Gartner Lee Ltd.**
2251 2nd Ave
Whitehorse, YT
Y1A 5W1

Attention: **Ms. Jen Funston**

Received: September 27, 2006

ALS ENVIRONMENTAL

per:

Janice Pearson, - Account Manager
Can Dang, B.Sc. - Senior Account Manager

File No. Z3072

REMARKS



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

File No. Z3072

RESULTS OF ANALYSIS - Water



Sample ID	P03-01-01	P03-01-02	P03-01-03	P03-01-04	P03-01-05
Sample Date	06-09-21	06-09-21	06-09-21	06-09-21	06-09-21
ALS ID	1	2	3	4	5

Physical Tests

Conductivity	(uS/cm)	406	397	336	201	369
Hardness	CaCO ₃	221	214	171	90.1	172
pH		8.06	8.11	7.91	7.26	7.25

Dissolved Anions

Alkalinity-Total		CaCO ₃	233	229	140	64.5	61.1
Sulphate	SO ₄		22.0	22.7	57.6	50.0	139

Remarks regarding the analyses appear at the beginning of this report.

RESULTS OF ANALYSIS - Water

Sample ID	P03-01-01	P03-01-02	P03-01-03	P03-01-04	P03-01-05
Sample Date	06-09-21	06-09-21	06-09-21	06-09-21	06-09-21
ALS ID	1	2	3	4	5

Dissolved Metals

Aluminum	D-Al	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony	D-Sb	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Arsenic	D-As	0.0084	<0.0010	<0.0010	<0.0010	<0.0010
Barium	D-Ba	0.110	0.126	0.102	0.047	0.042
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.000050	<0.000050	<0.000050	0.000660	0.000435
Calcium	D-Ca	65.2	65.5	51.7	27.8	52.2
Chromium	D-Cr	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt	D-Co	<0.00050	0.00072	<0.00050	0.00143	0.00098
Copper	D-Cu	<0.0010	<0.0010	<0.0010	0.0010	<0.0010
Iron	D-Fe	4.77	0.542	<0.030	<0.030	0.072
Lead	D-Pb	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	D-Li	<0.050	<0.050	<0.050	<0.050	<0.050
Magnesium	D-Mg	14.1	12.3	10.2	5.04	10.2
Manganese	D-Mn	0.159	1.26	<0.010	2.05	0.346
Mercury	D-Hg	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	D-Mo	0.0035	0.0079	<0.0010	<0.0010	<0.0010
Nickel	D-Ni	<0.0050	<0.0050	<0.0050	0.0837	0.0130
Selenium	D-Se	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silver	D-Ag	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Sodium	D-Na	7.1	5.0	2.5	2.3	3.7
Thallium	D-Tl	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Titanium	D-Ti	<0.050	<0.050	<0.050	<0.050	<0.050
Uranium	D-U	0.00035	0.00287	0.00302	<0.00020	<0.00020
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	<0.0050	0.0105	0.0074	0.732	0.0216

Remarks regarding the analyses appear at the beginning of this report.

File No. Z3072

RESULTS OF ANALYSIS - Water



Sample ID	P03-01-06	P03-01-07	P03-01-07S	P03-01-08	P03-01-09
Sample Date	06-09-21	06-09-21	06-09-21	06-09-21	06-09-21
ALS ID	6	7	8	9	10

Physical Tests

Conductivity	(uS/cm)	873	6140	6280	25800	32900
Hardness	CaCO3	206	814	818	3930	4100
pH		6.14	4.64	4.32	3.31	2.97

Dissolved Anions

Alkalinity-Total		CaCO3	11.8	17.2	16.6	<2.0	<2.0
Sulphate	SO4		479	4900	5020	32400	51900

Remarks regarding the analyses appear at the beginning of this report.

RESULTS OF ANALYSIS - Water

Sample ID	P03-01-06	P03-01-07	P03-01-07S	P03-01-08	P03-01-09
Sample Date	06-09-21	06-09-21	06-09-21	06-09-21	06-09-21
ALS ID	6	7	8	9	10

Dissolved Metals

Aluminum	D-Al	0.022	<0.50	<0.50	<5.0	<5.0
Antimony	D-Sb	<0.0010	<0.025	<0.025	<0.25	<0.25
Arsenic	D-As	0.0093	<0.050	<0.050	<0.50	<0.50
Barium	D-Ba	0.087	<0.10	<0.10	<0.50	<0.60
Beryllium	D-Be	<0.0050	<0.025	<0.025	<0.12	<0.15
Boron	D-B	<0.10	<0.50	<0.50	<2.5	<3.0
Cadmium	D-Cd	<0.00010	<0.0025	<0.0025	<0.025	<0.025
Calcium	D-Ca	50.7	101	102	429	441
Chromium	D-Cr	<0.0010	<0.025	<0.025	<0.25	<0.25
Cobalt	D-Co	0.0734	<0.025	<0.025	<0.25	<0.25
Copper	D-Cu	<0.0020	<0.050	<0.050	<0.50	<0.50
Iron	D-Fe	169	2620	2650	17500	26400
Lead	D-Pb	<0.0020	<0.050	<0.050	0.59	1.63
Lithium	D-Li	<0.050	<0.25	<0.25	<1.2	<1.5
Magnesium	D-Mg	19.3	137	137	694	729
Manganese	D-Mn	6.59	18.0	18.6	115	189
Mercury	D-Hg	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	D-Mo	<0.0020	0.133	0.138	<0.50	<0.50
Nickel	D-Ni	0.059	<0.25	<0.25	<2.5	<2.5
Selenium	D-Se	<0.0020	<0.050	<0.050	<0.50	<0.50
Silver	D-Ag	<0.00010	<0.0025	<0.0025	<0.025	<0.025
Sodium	D-Na	27.8	465	469	576	308
Thallium	D-Tl	<0.00040	<0.010	<0.010	<0.10	<0.10
Titanium	D-Ti	<0.050	<0.25	<0.25	<1.2	<1.5
Uranium	D-U	<0.00040	<0.010	<0.010	<0.10	<0.10
Vanadium	D-V	<0.030	<0.15	<0.15	0.91	<0.90
Zinc	D-Zn	6.49	227	233	2050	3750

Remarks regarding the analyses appear at the beginning of this report.

File No. Z3072

RESULTS OF ANALYSIS - Water



Sample ID	P03-02-01	P03-02-02	P03-02-03	P03-02-04	P03-02-05
Sample Date	06-09-21	06-09-21	06-09-21	06-09-21	06-09-21
ALS ID	11	12	13	14	15

Physical Tests

Conductivity	(uS/cm)	407	368	399	653	8290
Hardness	CaCO3	198	169	198	304	2460
pH		7.34	7.48	7.56	6.95	4.00

Dissolved Anions

Alkalinity-Total		CaCO3	168	102	97.4	43.4	10.8
Sulphate	SO4		66.9	102	125	295	7360

Remarks regarding the analyses appear at the beginning of this report.

RESULTS OF ANALYSIS - Water

Sample ID	P03-02-01	P03-02-02	P03-02-03	P03-02-04	P03-02-05
Sample Date	06-09-21	06-09-21	06-09-21	06-09-21	06-09-21
ALS ID	11	12	13	14	15

Dissolved Metals

Aluminum	D-Al	<0.010	<0.010	<0.010	<0.010	<0.50
Antimony	D-Sb	<0.00050	<0.00050	<0.00050	<0.00050	<0.025
Arsenic	D-As	<0.0010	<0.0010	<0.0010	<0.0010	<0.050
Barium	D-Ba	0.097	0.125	0.147	0.056	<0.10
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.50
Cadmium	D-Cd	<0.000050	<0.000050	<0.000050	0.00107	<0.0025
Calcium	D-Ca	62.6	50.5	60.1	93.8	400
Chromium	D-Cr	<0.00050	<0.00050	<0.00050	<0.00050	<0.025
Cobalt	D-Co	<0.00050	<0.00050	<0.00050	0.00496	<0.025
Copper	D-Cu	<0.0010	<0.0010	<0.0010	<0.0010	<0.050
Iron	D-Fe	0.308	<0.030	0.035	0.718	2560
Lead	D-Pb	<0.0010	<0.0010	<0.0010	<0.0010	<0.050
Lithium	D-Li	<0.050	<0.050	<0.050	<0.050	<0.25
Magnesium	D-Mg	10.2	10.5	11.6	16.9	354
Manganese	D-Mn	0.486	<0.010	<0.010	18.2	27.5
Mercury	D-Hg	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	D-Mo	0.0018	<0.0010	<0.0010	<0.0010	<0.050
Nickel	D-Ni	<0.0050	<0.0050	<0.0050	0.179	<0.25
Selenium	D-Se	<0.0010	<0.0010	<0.0010	<0.0010	<0.050
Silver	D-Ag	<0.000050	<0.000050	<0.000050	<0.000050	<0.0025
Sodium	D-Na	2.4	2.4	2.5	6.9	400
Thallium	D-Tl	<0.00020	<0.00020	<0.00020	<0.00020	<0.010
Titanium	D-Ti	<0.050	<0.050	<0.050	<0.050	<0.25
Uranium	D-U	0.00191	0.00061	0.00059	<0.00020	<0.010
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.15
Zinc	D-Zn	0.0167	0.0079	0.0165	1.18	0.418

Remarks regarding the analyses appear at the beginning of this report.

File No. Z3072

RESULTS OF ANALYSIS - Water



Sample ID	P03-02-07	P03-02-08	P03-02-09
Sample Date	06-09-21	06-09-21	06-09-21
ALS ID	16	17	18

Physical Tests

Conductivity	(uS/cm)	10500	16300	20900
Hardness	CaCO3	3060	2690	2240
pH		3.72	3.27	3.17

Dissolved Anions

Alkalinity-Total		CaCO3	13.0	<2.0	<2.0
Sulphate	SO4		10300	18700	29500

Remarks regarding the analyses appear at the beginning of this report.

File No. Z3072

RESULTS OF ANALYSIS - Water

Sample ID	P03-02-07	P03-02-08	P03-02-09
Sample Date	06-09-21	06-09-21	06-09-21
ALS ID	16	17	18

Dissolved Metals

Aluminum	D-Al	17.8	<1.0	<1.0
Antimony	D-Sb	<0.025	<0.050	<0.050
Arsenic	D-As	<0.050	<0.10	<0.10
Barium	D-Ba	<0.10	<0.20	<0.40
Beryllium	D-Be	<0.025	<0.050	<0.10
Boron	D-B	<0.50	<1.0	<2.0
Cadmium	D-Cd	0.0034	<0.0050	<0.0050
Calcium	D-Ca	455	373	392
Chromium	D-Cr	<0.025	<0.050	<0.050
Cobalt	D-Co	<0.025	<0.050	<0.050
Copper	D-Cu	0.093	<0.10	<0.10
Iron	D-Fe	4290	9180	15200
Lead	D-Pb	2.18	1.73	<0.10
Lithium	D-Li	0.33	<0.50	<1.0
Magnesium	D-Mg	468	426	306
Manganese	D-Mn	36.6	56.5	94.9
Mercury	D-Hg	<0.00020	<0.00020	<0.00020
Molybdenum	D-Mo	<0.050	<0.10	<0.10
Nickel	D-Ni	<0.25	<0.50	<0.50
Selenium	D-Se	<0.050	<0.10	<0.10
Silver	D-Ag	<0.0025	<0.0050	<0.0050
Sodium	D-Na	364	189	<40
Thallium	D-Tl	<0.010	<0.020	<0.020
Titanium	D-Ti	<0.25	<0.50	<1.0
Uranium	D-U	<0.010	<0.020	<0.020
Vanadium	D-V	0.18	0.65	<0.60
Zinc	D-Zn	2.09	32.0	680

Remarks regarding the analyses appear at the beginning of this report.

File No. Z3072

Appendix 1 - QUALITY CONTROL - Replicates



Water	P03-01-04	P03-01-04	P03-02-03	P03-02-03
	06-09-21	QC # 524460	06-09-21	QC # 524461

Physical Tests

Conductivity	(uS/cm)	201	201	399	393
Hardness	CaCO3	90.1	87.9	198	191
pH		7.26	7.21	7.56	7.52

Dissolved Anions

Alkalinity-Total		CaCO3	64.5	62.4	97.4	96.6
Sulphate	SO4		50.0	48.7	125	125

Remarks regarding the analyses appear at the beginning of this report.

Appendix 1 - QUALITY CONTROL - Replicates

Water		P03-01-04 06-09-21	P03-01-04 QC # 524460	P03-02-03 06-09-21	P03-02-03 QC # 524461
Dissolved Metals					
Aluminum	D-Al	<0.010	<0.010	<0.010	<0.010
Antimony	D-Sb	<0.00050	<0.00050	<0.00050	<0.00050
Arsenic	D-As	<0.0010	<0.0010	<0.0010	<0.0010
Barium	D-Ba	0.047	0.046	0.147	0.140
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.000660	0.000683	<0.000050	0.000052
Calcium	D-Ca	27.8	27.1	60.1	58.1
Chromium	D-Cr	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt	D-Co	0.00143	0.00146	<0.00050	<0.00050
Copper	D-Cu	0.0010	0.0010	<0.0010	<0.0010
Iron	D-Fe	<0.030	<0.030	0.035	0.032
Lead	D-Pb	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	D-Li	<0.050	<0.050	<0.050	<0.050
Magnesium	D-Mg	5.04	4.93	11.6	11.1
Manganese	D-Mn	2.05	1.99	<0.010	<0.010
Mercury	D-Hg	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	D-Mo	<0.0010	<0.0010	<0.0010	<0.0010
Nickel	D-Ni	0.0837	0.0860	<0.0050	<0.0050
Selenium	D-Se	<0.0010	<0.0010	<0.0010	<0.0010
Silver	D-Ag	<0.000050	<0.000050	<0.000050	<0.000050
Sodium	D-Na	2.3	2.3	2.5	2.4
Thallium	D-Tl	<0.00020	<0.00020	<0.00020	<0.00020
Titanium	D-Ti	<0.050	<0.050	<0.050	<0.050
Uranium	D-U	<0.00020	<0.00020	0.00059	0.00058
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.732	0.718	0.0165	0.0095

Remarks regarding the analyses appear at the beginning of this report.

Appendix 2 - METHODOLOGY



Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

Conductivity in Water

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

pH in Water

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.

Recommended Holding Time:

Sample: 2 hours

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Colourimetry

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

Recommended Holding Time:

Sample: 14 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Sulphate in Water

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

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Appendix 2 - METHODOLOGY - Continued



Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 21th Edition 2005 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 hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:

Sample: 6 months

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 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).

Recommended Holding Time:

Sample: 28 days

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Results contained within this certificate relate only to the samples as submitted.

This Certificate Of Analysis shall only be reproduced in full, except with the written approval of ALS Environmental.

End of Report



CERTIFICATE OF ANALYSIS

Date: October 13, 2006

ALS File No. Z3083

Report On: Faro 60601 Water Analysis

Report To: **Gartner Lee Ltd.**
2251 2nd Ave
Whitehorse, YT
Y1A 5W1

Attention: **Ms. Jen Funston**

Received: September 27, 2006

ALS ENVIRONMENTAL

per:

Janice Pearson, - Account Manager
Can Dang, B.Sc. - Senior Account Manager

File No. Z3083

RESULTS OF ANALYSIS - Water



Sample ID	P96-6	BH-12A	BH-12AS	BH-13B	BH-14A
Sample Date	06-09-18	06-09-18	06-09-18	06-09-18	06-09-18
ALS ID	1	2	3	4	5

Physical Tests

Conductivity	(uS/cm)	900	917	919	1330	3730
Hardness	CaCO3	537	565	541	819	2430
pH		7.24	7.62	7.63	7.45	7.58

Dissolved Anions

Alkalinity-Total		CaCO3	279	188	178	93.5	422
Sulphate	SO4		268	307	303	584	1920

< = Less than the detection limit indicated.
Results are expressed as milligrams per litre except where noted.

RESULTS OF ANALYSIS - Water

Sample ID		P96-6	BH-12A	BH-12AS	BH-13B	BH-14A
Sample Date		06-09-18	06-09-18	06-09-18	06-09-18	06-09-18
ALS ID		1	2	3	4	5
Dissolved Metals						
Aluminum	D-Al	<0.010	<0.010	<0.010	0.012	<0.050
Antimony	D-Sb	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050
Arsenic	D-As	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050
Barium	D-Ba	<0.020	0.036	0.036	0.042	<0.020
Beryllium	D-Be	<0.0020	<0.0020	<0.0020	<0.0020	<0.010
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.000085	0.000198	0.000226	0.000090	0.00031
Calcium	D-Ca	143	124	119	211	588
Chromium	D-Cr	<0.0020	<0.0020	<0.0020	<0.0020	<0.010
Cobalt	D-Co	<0.00060	<0.00060	<0.00060	0.00124	<0.0030
Copper	D-Cu	<0.0020	0.0020	0.0021	0.0046	<0.010
Iron	D-Fe	0.044	<0.030	<0.030	<0.030	<0.030
Lead	D-Pb	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050
Lithium	D-Li	0.029	0.018	0.018	0.011	0.056
Magnesium	D-Mg	43.6	61.7	58.9	70.9	234
Manganese	D-Mn	0.0156	0.0155	0.0156	0.0101	<0.0030
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0020	<0.0020	<0.0020	0.0040	<0.010
Nickel	D-Ni	0.0077	0.0077	0.0080	0.0088	<0.010
Potassium	D-K	3.0	2.4	2.4	2.8	3.5
Selenium	D-Se	0.0038	<0.0020	<0.0020	0.0102	<0.010
Silver	D-Ag	<0.000040	<0.000040	<0.000040	<0.000040	<0.00020
Sodium	D-Na	4.7	5.6	5.4	6.7	19.0
Thallium	D-Tl	<0.00040	<0.00040	<0.00040	<0.00040	<0.0020
Tin	D-Sn	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.0171	0.00451	0.00443	0.00153	0.143
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.219	0.150	0.155	0.011	0.550

< = Less than the detection limit indicated.

Results are expressed as milligrams per litre except where noted.

File No. Z3083

RESULTS OF ANALYSIS - Water



Sample ID	BH-14B	BH-14BS	BH5	DP5	BH-12B
Sample Date	06-09-18	06-09-18	06-09-18	06-09-18	06-09-18
ALS ID	6	7	8	9	10

Physical Tests

Conductivity	(uS/cm)	3510	3500	629	522	871
Hardness	CaCO3	2100	2080	311	275	506
pH		7.70	7.70	6.37	7.12	7.67

Dissolved Anions

Alkalinity-Total		CaCO3	441	419	259	234	187
Sulphate	SO4		1760	1790	129	80.9	285

< = Less than the detection limit indicated.
Results are expressed as milligrams per litre except where noted.

RESULTS OF ANALYSIS - Water

Sample ID		BH-14B	BH-14BS	BH5	DP5	BH-12B
Sample Date		06-09-18	06-09-18	06-09-18	06-09-18	06-09-18
ALS ID		6	7	8	9	10
Dissolved Metals						
Aluminum	D-Al	<0.050	<0.050	0.533	0.0119	<0.010
Antimony	D-Sb	<0.0050	<0.0050	<0.00050	<0.00050	<0.0010
Arsenic	D-As	<0.0050	<0.0050	0.00084	0.00200	<0.0010
Barium	D-Ba	<0.020	<0.020	0.056	0.128	0.036
Beryllium	D-Be	<0.010	<0.010	<0.0010	<0.0010	<0.0020
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.00018	0.00018	0.000894	<0.000017	0.000222
Calcium	D-Ca	509	504	77.8	74.5	110
Chromium	D-Cr	<0.010	<0.010	<0.0030	<0.0010	<0.0020
Cobalt	D-Co	<0.0030	<0.0030	0.0173	0.00208	<0.00060
Copper	D-Cu	<0.010	<0.010	0.0026	<0.0010	0.0021
Iron	D-Fe	<0.030	<0.030	23.9	0.696	<0.030
Lead	D-Pb	<0.0050	<0.0050	0.00457	<0.00050	<0.0010
Lithium	D-Li	<0.050	<0.050	0.0407	0.0276	0.017
Magnesium	D-Mg	201	199	28.2	21.7	56.0
Manganese	D-Mn	<0.0030	0.0030	1.49	0.383	0.00737
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.010	<0.010	<0.0010	<0.0010	<0.0020
Nickel	D-Ni	<0.010	<0.010	0.0248	0.0076	0.0088
Potassium	D-K	3.3	3.3	3.1	<2.0	2.4
Selenium	D-Se	<0.010	<0.010	<0.0010	<0.0010	<0.0020
Silver	D-Ag	<0.00020	<0.00020	0.000033	<0.000020	<0.000040
Sodium	D-Na	14.4	14.3	14.2	7.8	5.2
Thallium	D-Tl	<0.0020	<0.0020	<0.00020	<0.00020	<0.00040
Tin	D-Sn	<0.0050	<0.0050	<0.00050	<0.00050	<0.0010
Titanium	D-Ti	<0.010	<0.010	0.026	<0.010	<0.010
Uranium	D-U	0.156	0.147	0.00040	0.00350	0.00469
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.386	0.391	2.94	0.228	0.175

< = Less than the detection limit indicated.
Results are expressed as milligrams per litre except where noted.

File No. Z3083

RESULTS OF ANALYSIS - Water



Sample ID		BH 1	BH 2	BH 4	BH 6	BH 7-5
Sample Date		06-09-18	06-09-18	06-09-18	06-09-18	06-09-18
ALS ID		11	12	13	14	15
Physical Tests						
Conductivity	(uS/cm)	341	399	387	426	289
Hardness	CaCO3	175	189	226	225	162
pH		6.84	6.81	6.68	6.63	7.06
Dissolved Anions						
Alkalinity-Total		152	117	103	102	140
Sulphate	SO4	50.5	94.6	108	129	25.6
	CaCO3					

< = Less than the detection limit indicated.
Results are expressed as milligrams per litre except where noted.

RESULTS OF ANALYSIS - Water

Sample ID		BH 1	BH 2	BH 4	BH 6	BH 7-5
Sample Date		06-09-18	06-09-18	06-09-18	06-09-18	06-09-18
ALS ID		11	12	13	14	15
Dissolved Metals						
Aluminum	D-Al	0.0652	0.138	0.218	0.0454	0.0187
Antimony	D-Sb	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Arsenic	D-As	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Barium	D-Ba	0.043	0.058	0.022	0.043	<0.020
Beryllium	D-Be	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.00559	0.0182	0.00322	0.00193	0.00213
Calcium	D-Ca	49.1	49.5	64.4	59.6	46.1
Chromium	D-Cr	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cobalt	D-Co	0.00288	0.00071	0.00928	0.0452	<0.00030
Copper	D-Cu	0.0051	0.0022	0.0096	<0.0010	0.0010
Iron	D-Fe	<0.030	0.060	0.050	8.36	0.129
Lead	D-Pb	0.00141	0.00198	0.00062	0.00077	0.00094
Lithium	D-Li	0.0148	0.0116	0.0212	0.0254	0.0104
Magnesium	D-Mg	12.8	15.9	15.9	18.4	11.4
Manganese	D-Mn	0.358	0.0197	0.105	1.94	0.00475
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel	D-Ni	0.0126	0.0410	0.0165	0.0426	0.0023
Potassium	D-K	<2.0	<2.0	<2.0	<2.0	<2.0
Selenium	D-Se	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silver	D-Ag	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Sodium	D-Na	3.8	4.0	4.6	4.9	3.4
Thallium	D-Tl	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Tin	D-Sn	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.00036	<0.00020	<0.00020	0.00025	<0.00020
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	2.09	10.5	1.32	5.51	0.593

< = Less than the detection limit indicated.

Results are expressed as milligrams per litre except where noted.

File No. Z3083

RESULTS OF ANALYSIS - Water



Sample ID P05-04

Sample Date 06-09-18
ALS ID 16

Physical Tests

Conductivity	(uS/cm)	406
Hardness	CaCO ₃	233
pH		6.86

Dissolved Anions

Alkalinity-Total		CaCO ₃	165
Sulphate	SO ₄		70.8

< = Less than the detection limit indicated.
Results are expressed as milligrams per litre except where noted.

File No. Z3083

RESULTS OF ANALYSIS - Water



Sample ID P05-04

Sample Date 06-09-18
ALS ID 16

Dissolved Metals

Aluminum	D-Al	0.0450
Antimony	D-Sb	<0.00050
Arsenic	D-As	<0.00050
Barium	D-Ba	0.054
Beryllium	D-Be	<0.0010
Boron	D-B	<0.10
Cadmium	D-Cd	0.00269
Calcium	D-Ca	65.8
Chromium	D-Cr	<0.0010
Cobalt	D-Co	0.00172
Copper	D-Cu	<0.0010
Iron	D-Fe	<0.030
Lead	D-Pb	<0.00050
Lithium	D-Li	0.0164
Magnesium	D-Mg	16.6
Manganese	D-Mn	0.0318
Mercury	D-Hg	<0.000020
Molybdenum	D-Mo	<0.0010
Nickel	D-Ni	0.0122
Potassium	D-K	<2.0
Selenium	D-Se	<0.0010
Silver	D-Ag	<0.000020
Sodium	D-Na	4.8
Thallium	D-Tl	<0.00020
Tin	D-Sn	<0.00050
Titanium	D-Ti	<0.010
Uranium	D-U	0.00077
Vanadium	D-V	<0.030
Zinc	D-Zn	2.00

< = Less than the detection limit indicated.
Results are expressed as milligrams per litre except where noted.

File No. Z3083

Appendix 1 - QUALITY CONTROL - Replicates



Water		P96-6	P96-6	BH-12AS	BH-12AS
		06-09-18	QC # 524477	06-09-18	QC # 524478

Physical Tests

Conductivity	(uS/cm)	900	905	919	918
Hardness	CaCO3	537	560	541	536
pH		7.24	7.23	7.63	7.64

Dissolved Anions

Alkalinity-Total		CaCO3	279	285	178	174
Sulphate	SO4		268	274	303	303

< = Less than the detection limit indicated.
Results are expressed as milligrams per litre except where noted.

Appendix 1 - QUALITY CONTROL - Replicates

Water		P96-6	P96-6	BH-12AS	BH-12AS
		06-09-18	QC # 524477	06-09-18	QC # 524478
Dissolved Metals					
Aluminum	D-Al	<0.010	<0.010	<0.010	<0.010
Antimony	D-Sb	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	D-As	<0.0010	<0.0010	<0.0010	<0.0010
Barium	D-Ba	<0.020	<0.020	0.036	0.035
Beryllium	D-Be	<0.0020	<0.0020	<0.0020	<0.0020
Boron	D-B	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.000085	0.000105	0.000226	0.000206
Calcium	D-Ca	143	148	119	119
Chromium	D-Cr	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt	D-Co	<0.00060	<0.00060	<0.00060	<0.00060
Copper	D-Cu	<0.0020	<0.0020	0.0021	<0.0020
Iron	D-Fe	0.044	<0.030	<0.030	<0.030
Lead	D-Pb	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	D-Li	0.029	0.030	0.018	0.016
Magnesium	D-Mg	43.6	46.0	58.9	58.2
Manganese	D-Mn	0.0156	0.0158	0.0156	0.0157
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0020	<0.0020	<0.0020	<0.0020
Nickel	D-Ni	0.0077	0.0079	0.0080	0.0081
Potassium	D-K	3.0	3.1	2.4	2.3
Selenium	D-Se	0.0038	0.0040	<0.0020	<0.0020
Silver	D-Ag	<0.000040	<0.000040	<0.000040	<0.000040
Sodium	D-Na	4.7	4.8	5.4	5.4
Thallium	D-Tl	<0.00040	<0.00040	<0.00040	<0.00040
Tin	D-Sn	<0.0010	<0.0010	<0.0010	<0.0010
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.0171	0.0172	0.00443	0.00431
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.219	0.224	0.155	0.152

< = Less than the detection limit indicated.

Results are expressed as milligrams per litre except where noted.

Appendix 2 - METHODOLOGY



Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

Conductivity in Water

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

pH in Water

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.

Recommended Holding Time:

Sample: 2 hours

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Colourimetry

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

Recommended Holding Time:

Sample: 14 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Sulphate in Water

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

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Appendix 2 - METHODOLOGY - Continued



Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 21th Edition 2005 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 hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:
Sample: 6 months
Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 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).

Recommended Holding Time:
Sample: 28 days
Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Results contained within this certificate relate only to the samples as submitted.

This Certificate Of Analysis shall only be reproduced in full, except with the written approval of ALS Environmental.

End of Report



CERTIFICATE OF ANALYSIS

Date: October 12, 2006

ALS File No. Z3084

Report On: 60601 Water Analysis

Report To: **Gartner Lee Ltd.**
2251 2nd Ave
Whitehorse, YT
Y1A 5W1

Attention: **Ms. Jen Funston**

Received: September 27, 2006

ALS ENVIRONMENTAL

per:

Janice Pearson, - Account Manager
Can Dang, B.Sc. - Senior Account Manager

File No. Z3084

REMARKS



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

File No. Z3084

RESULTS OF ANALYSIS - Water



Sample ID	S1A	S1B	S2A	S2B	S3
Sample Date	06-09-20	06-09-20	06-09-20	06-09-20	06-09-20
ALS ID	1	2	3	4	5

Physical Tests

Conductivity	(uS/cm)	5930	1360	5840	4330	6280
Hardness	CaCO3	4510	818	4780	3110	5200
pH		6.85	7.18	6.77	6.72	6.65

Dissolved Anions

Alkalinity-Total		CaCO3	218	167	216	199	206
Sulphate	SO4		4990	471	6280	3230	5080

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID		S1A	S1B	S2A	S2B	S3
Sample Date		06-09-20	06-09-20	06-09-20	06-09-20	06-09-20
ALS ID		1	2	3	4	5
Dissolved Metals						
Aluminum	D-Al	<0.10	<0.025	<0.10	<0.10	2.69
Antimony	D-Sb	<0.010	<0.0025	<0.010	<0.010	<0.025
Arsenic	D-As	<0.010	<0.0025	<0.010	<0.010	<0.025
Barium	D-Ba	<0.040	0.031	<0.060	0.046	<0.060
Beryllium	D-Be	<0.020	<0.0050	<0.020	<0.020	<0.050
Boron	D-B	<0.20	<0.10	<0.30	<0.10	<0.30
Cadmium	D-Cd	0.0129	0.000394	0.0174	0.00201	0.00381
Calcium	D-Ca	564	223	607	702	571
Chromium	D-Cr	<0.020	<0.0050	<0.020	<0.020	<0.050
Cobalt	D-Co	0.0186	<0.0015	0.0180	0.0125	0.040
Copper	D-Cu	<0.020	<0.0050	<0.020	<0.020	<0.050
Iron	D-Fe	<0.060	0.052	4.64	119	2.60
Lead	D-Pb	<0.010	<0.0025	<0.010	<0.010	<0.025
Lithium	D-Li	0.15	<0.025	0.14	<0.10	<0.25
Magnesium	D-Mg	753	63.1	794	330	917
Manganese	D-Mn	65.4	0.165	83.8	23.5	121
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.020	<0.0050	<0.020	<0.020	<0.050
Nickel	D-Ni	1.37	0.0080	1.49	0.209	1.72
Potassium	D-K	10.4	3.0	10.7	5.1	12.4
Selenium	D-Se	<0.020	<0.0050	<0.020	<0.020	<0.050
Silver	D-Ag	<0.00040	<0.00010	<0.00040	<0.00040	<0.0010
Sodium	D-Na	43.2	42.0	33.7	23.1	27.3
Thallium	D-Tl	<0.0040	<0.0010	<0.0040	<0.0040	<0.010
Tin	D-Sn	<0.010	<0.0025	<0.010	<0.010	<0.025
Titanium	D-Ti	<0.020	<0.010	<0.030	<0.010	0.049
Uranium	D-U	0.0084	<0.0010	0.0057	<0.0040	<0.010
Vanadium	D-V	0.068	<0.030	<0.090	<0.060	0.101
Zinc	D-Zn	166	0.124	192	29.0	285

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. Z3084

RESULTS OF ANALYSIS - Water



Sample ID	DP4	TH86-17	P96-7	SRK05- SP-1A	SRK05- SP-1B
Sample Date	06-09-20	06-09-20	06-09-20	06-09-20	06-09-20
ALS ID	6	7	8	9	10

Physical Tests

Conductivity	(uS/cm)	195	170	2750	1160	959
Hardness	CaCO3	91.1	86.3	1740	668	593
pH		7.89	7.69	7.74	6.37	6.85

Dissolved Anions

Alkalinity-Total		CaCO3	102	86.4	198	249	354
Sulphate	SO4		13.0	14.7	1760	457	217

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID	DP4	TH86-17	P96-7	SRK05- SP-1A	SRK05- SP-1B
Sample Date	06-09-20	06-09-20	06-09-20	06-09-20	06-09-20
ALS ID	6	7	8	9	10

Dissolved Metals

Aluminum	D-Al	0.148	0.0067	<0.025	0.096	0.015
Antimony	D-Sb	<0.00050	<0.00050	<0.0025	<0.0010	<0.0010
Arsenic	D-As	0.00141	<0.00050	<0.0025	0.0049	0.0113
Barium	D-Ba	0.046	0.050	<0.020	0.030	0.049
Beryllium	D-Be	<0.0010	<0.0010	<0.0050	0.0023	<0.0020
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.000101	<0.000017	<0.000085	<0.000034	0.000176
Calcium	D-Ca	24.9	25.0	508	166	150
Chromium	D-Cr	<0.0010	<0.0010	<0.0050	<0.0020	<0.0020
Cobalt	D-Co	<0.00030	<0.00030	<0.0015	0.00557	0.00391
Copper	D-Cu	0.0026	<0.0010	<0.0050	<0.0020	<0.0020
Iron	D-Fe	0.308	0.206	<0.030	50.1	12.8
Lead	D-Pb	0.00694	<0.00050	<0.0025	<0.0010	<0.0010
Lithium	D-Li	<0.0050	<0.0050	0.026	0.068	0.034
Magnesium	D-Mg	6.99	5.83	114	61.6	53.0
Manganese	D-Mn	0.206	0.00776	0.0083	1.43	0.722
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0010	<0.0010	<0.0050	<0.0020	<0.0020
Nickel	D-Ni	0.0013	0.0013	<0.0050	0.0176	0.0107
Potassium	D-K	<2.0	<2.0	6.3	5.4	5.3
Selenium	D-Se	<0.0010	<0.0010	<0.0050	<0.0020	<0.0020
Silver	D-Ag	0.000031	<0.000020	<0.00010	<0.000040	<0.000040
Sodium	D-Na	<2.0	<2.0	24.0	17.6	11.5
Thallium	D-Tl	<0.00020	<0.00020	<0.0010	<0.00040	<0.00040
Tin	D-Sn	<0.00050	<0.00050	<0.0025	<0.0010	<0.0010
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.00162	0.00021	0.0253	<0.00040	0.00165
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.0411	0.0156	0.033	1.41	0.272

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. Z3084

RESULTS OF ANALYSIS - Water



Sample ID	SRK05- SP-2	SRK05- SP-3A	SRK05- SP-3B	SRK05- SP-4A	SRK05- SP-4B
Sample Date	06-09-20	06-09-20	06-09-20	06-09-20	06-09-20
ALS ID	11	12	13	14	15

Physical Tests

Conductivity	(uS/cm)	339	958	945	723	6140
Hardness	CaCO3	192	611	610	518	4830
pH		6.96	6.65	6.63	6.61	6.66

Dissolved Anions

Alkalinity-Total		CaCO3	156	324	332	254	203
Sulphate	SO4		44.6	239	257	173	3660

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID		SRK05- SP-2	SRK05- SP-3A	SRK05- SP-3B	SRK05- SP-4A	SRK05- SP-4B
Sample Date		06-09-20	06-09-20	06-09-20	06-09-20	06-09-20
ALS ID		11	12	13	14	15
Dissolved Metals						
Aluminum	D-Al	0.0124	0.039	0.027	0.033	<0.50
Antimony	D-Sb	<0.00050	<0.0010	<0.0010	<0.0010	<0.050
Arsenic	D-As	<0.00050	0.0021	<0.0010	0.0048	<0.050
Barium	D-Ba	0.062	0.033	0.027	0.037	<0.060
Beryllium	D-Be	<0.0010	<0.0020	<0.0020	<0.0020	<0.10
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.30
Cadmium	D-Cd	0.000105	0.000041	0.000087	<0.000034	0.0722
Calcium	D-Ca	51.5	143	148	127	497
Chromium	D-Cr	<0.0010	<0.0020	<0.0020	<0.0020	<0.10
Cobalt	D-Co	0.00216	0.00382	0.00500	0.00885	<0.030
Copper	D-Cu	<0.0010	<0.0020	<0.0020	<0.0020	<0.10
Iron	D-Fe	<0.030	25.1	11.4	27.1	<0.090
Lead	D-Pb	<0.00050	<0.0010	<0.0010	<0.0010	<0.050
Lithium	D-Li	0.0114	0.049	0.049	0.055	<0.50
Magnesium	D-Mg	15.3	61.8	58.4	48.8	871
Manganese	D-Mn	0.930	0.849	0.847	1.06	132
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0010	<0.0020	<0.0020	<0.0020	<0.10
Nickel	D-Ni	0.0037	0.0120	0.0131	0.0195	2.69
Potassium	D-K	<2.0	4.4	5.4	4.8	12.1
Selenium	D-Se	<0.0010	<0.0020	<0.0020	<0.0020	<0.10
Silver	D-Ag	<0.000020	<0.000040	<0.000040	<0.000040	<0.0020
Sodium	D-Na	7.1	12.4	10.3	12.3	23.5
Thallium	D-Tl	<0.00020	<0.00040	<0.00040	<0.00040	<0.020
Tin	D-Sn	<0.00050	<0.0010	<0.0010	<0.0010	<0.050
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.030
Uranium	D-U	0.00062	0.00170	0.00188	<0.00040	<0.020
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	0.097
Zinc	D-Zn	0.126	1.02	0.750	0.995	373

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. Z3084

RESULTS OF ANALYSIS - Water



Sample ID	SRK05- SP-4B-S	SRK05- SP-5
Sample Date	06-09-20	06-09-20
ALS ID	16	17

Physical Tests

Conductivity	(uS/cm)	6160	6000
Hardness	CaCO ₃	4870	4830
pH		6.72	6.93

Dissolved Anions

Alkalinity-Total		CaCO ₃	208	240
Sulphate	SO ₄		5080	4360

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. Z3084

RESULTS OF ANALYSIS - Water



Sample ID	SRK05- SP-4B-S	SRK05- SP-5
Sample Date	06-09-20	06-09-20
ALS ID	16	17

Dissolved Metals

Aluminum	D-Al	<0.50	<0.25
Antimony	D-Sb	<0.050	<0.025
Arsenic	D-As	<0.050	<0.025
Barium	D-Ba	<0.060	<0.060
Beryllium	D-Be	<0.10	<0.050
Boron	D-B	<0.30	<0.30
Cadmium	D-Cd	0.0719	0.0227
Calcium	D-Ca	500	581
Chromium	D-Cr	<0.10	<0.050
Cobalt	D-Co	<0.030	0.020
Copper	D-Cu	<0.10	<0.050
Iron	D-Fe	<0.090	<0.090
Lead	D-Pb	<0.050	<0.025
Lithium	D-Li	<0.50	<0.25
Magnesium	D-Mg	880	819
Manganese	D-Mn	133	82.9
Mercury	D-Hg	<0.000020	<0.000020
Molybdenum	D-Mo	<0.10	<0.050
Nickel	D-Ni	2.69	1.66
Potassium	D-K	12.8	10.3
Selenium	D-Se	<0.10	<0.050
Silver	D-Ag	<0.0020	<0.0010
Sodium	D-Na	24.7	39.0
Thallium	D-Tl	<0.020	<0.010
Tin	D-Sn	<0.050	<0.025
Titanium	D-Ti	<0.030	<0.030
Uranium	D-U	<0.020	0.010
Vanadium	D-V	0.107	0.090
Zinc	D-Zn	371	218

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. Z3084

Appendix 1 - QUALITY CONTROL - Replicates



Water	S2B	S2B	SRK05- SP-4B-S	SRK05- SP-4B-S
	06-09-20	QC # 524483	06-09-20	QC # 524485

Physical Tests

Conductivity	(uS/cm)	4330	4300	6160	6180
Hardness	CaCO3	3110	3040	4870	5000
pH		6.72	6.71	6.72	6.75

Dissolved Anions

Alkalinity-Total		CaCO3	199	195	208	226
Sulphate	SO4		3230	3200	5080	5180

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

Appendix 1 - QUALITY CONTROL - Replicates

Water		S2B	S2B	SRK05- SP-4B-S	SRK05- SP-4B-S
		06-09-20	QC # 524483	06-09-20	QC # 524485
<u>Dissolved Metals</u>					
Aluminum	D-Al	<0.10	<0.10	<0.50	<0.50
Antimony	D-Sb	<0.010	<0.010	<0.050	<0.050
Arsenic	D-As	<0.010	<0.010	<0.050	<0.050
Barium	D-Ba	0.046	0.042	<0.060	<0.060
Beryllium	D-Be	<0.020	<0.020	<0.10	<0.10
Boron	D-B	<0.10	<0.10	<0.30	<0.30
Cadmium	D-Cd	0.00201	0.00210	0.0719	0.0718
Calcium	D-Ca	702	694	500	516
Chromium	D-Cr	<0.020	<0.020	<0.10	<0.10
Cobalt	D-Co	0.0125	0.0121	<0.030	<0.030
Copper	D-Cu	<0.020	<0.020	<0.10	<0.10
Iron	D-Fe	119	112	<0.090	<0.090
Lead	D-Pb	<0.010	<0.010	<0.050	<0.050
Lithium	D-Li	<0.10	<0.10	<0.50	<0.50
Magnesium	D-Mg	330	317	880	902
Manganese	D-Mn	23.5	23.3	133	130
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.020	<0.020	<0.10	<0.10
Nickel	D-Ni	0.209	0.208	2.69	2.64
Potassium	D-K	5.1	4.8	12.8	12.7
Selenium	D-Se	<0.020	<0.020	<0.10	<0.10
Silver	D-Ag	<0.00040	<0.00040	<0.0020	<0.0020
Sodium	D-Na	23.1	21.1	24.7	24.5
Thallium	D-Tl	<0.0040	<0.0040	<0.020	<0.020
Tin	D-Sn	<0.010	<0.010	<0.050	<0.050
Titanium	D-Ti	<0.010	<0.010	<0.030	<0.030
Uranium	D-U	<0.0040	<0.0040	<0.020	<0.020
Vanadium	D-V	<0.060	<0.060	0.107	0.160
Zinc	D-Zn	29.0	29.1	371	363

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

Appendix 2 - METHODOLOGY



Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

Conductivity in Water

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

pH in Water

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.

Recommended Holding Time:

Sample: 2 hours

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Colourimetry

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

Recommended Holding Time:

Sample: 14 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Sulphate in Water

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

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Appendix 2 - METHODOLOGY - Continued



Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 21th Edition 2005 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 hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:

Sample: 6 months

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 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).

Recommended Holding Time:

Sample: 28 days

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Results contained within this certificate relate only to the samples as submitted.

This Certificate Of Analysis shall only be reproduced in full, except with the written approval of ALS Environmental.

End of Report



CERTIFICATE OF ANALYSIS

Date: October 12, 2006

ALS File No. Z3085

Report On: 60601 Water Analysis

Report To: **Gartner Lee Ltd.**
2251 2nd Ave
Whitehorse, YT
Y1A 5W1

Attention: **Ms. Jen Funston**

Received: September 27, 2006

ALS ENVIRONMENTAL

per:

Janice Pearson, - Account Manager
Can Dang, B.Sc. - Senior Account Manager

File No. Z3085

REMARKS



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

File No. Z3085

RESULTS OF ANALYSIS - Water



Sample ID	V36	V35	V34	V37	P01-51
Sample Date	06-09-19	06-09-19	06-09-19	06-09-19	06-09-19
ALS ID	1	2	3	4	5

Physical Tests

Conductivity	(uS/cm)	1520	2940	863	770	1040
Hardness	CaCO3	1020	2230	534	469	459
pH		7.72	7.72	8.05	8.05	8.12

Dissolved Anions

Alkalinity-Total		CaCO3	425	655	460	402	313
Sulphate	SO4		530	1480	71.6	66.2	291

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID		V36	V35	V34	V37	P01-51
Sample Date		06-09-19	06-09-19	06-09-19	06-09-19	06-09-19
ALS ID		1	2	3	4	5
Dissolved Metals						
Aluminum	D-Al	<0.010	<0.025	0.0050	0.0078	0.075
Antimony	D-Sb	<0.0010	<0.0025	<0.00050	<0.00050	<0.0010
Arsenic	D-As	0.0057	<0.0025	0.00167	0.00123	0.0154
Barium	D-Ba	<0.020	<0.020	0.108	0.180	0.039
Beryllium	D-Be	<0.0020	<0.0050	<0.0010	<0.0010	<0.0020
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.000193	0.000201	<0.000017	<0.000017	0.000153
Calcium	D-Ca	210	471	78.0	63.0	106
Chromium	D-Cr	<0.0020	<0.0050	<0.0010	<0.0010	<0.0020
Cobalt	D-Co	0.00122	<0.0015	0.00052	<0.00030	<0.00060
Copper	D-Cu	<0.0020	<0.0050	<0.0010	<0.0010	0.0069
Iron	D-Fe	<0.030	<0.030	0.686	0.382	0.178
Lead	D-Pb	0.0013	0.0036	<0.00050	<0.00050	0.0024
Lithium	D-Li	0.032	0.030	0.0148	0.0257	0.012
Magnesium	D-Mg	120	256	82.4	75.8	47.0
Manganese	D-Mn	0.118	0.104	0.0883	0.0363	0.137
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0020	<0.0050	0.0031	0.0188	0.0768
Nickel	D-Ni	0.0064	0.0070	<0.0010	<0.0010	0.0031
Potassium	D-K	4.3	5.5	3.6	6.1	3.2
Selenium	D-Se	<0.0020	<0.0050	<0.0010	<0.0010	<0.0020
Silver	D-Ag	<0.000040	<0.00010	<0.000020	<0.000020	<0.000040
Sodium	D-Na	6.6	10.5	5.6	25.5	120
Thallium	D-Tl	<0.00040	<0.0010	<0.00020	<0.00020	<0.00040
Tin	D-Sn	<0.0010	<0.0025	<0.00050	<0.00050	<0.0010
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.0245	0.125	0.00809	0.00074	0.00233
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.047	0.113	0.0088	0.0076	0.039

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. Z3085

RESULTS OF ANALYSIS - Water



Sample ID			P01-52-B	P96-9A	P01-52-A	P96-9A-S	BH05-9B-R
Sample Date			06-09-19	06-09-19	06-09-19	06-09-19	06-09-19
ALS ID			6	7	8	9	10
Physical Tests							
Conductivity	(uS/cm)		1270	3070	1340	3080	602
Hardness	CaCO3		841	2250	848	2160	213
pH			7.90	7.56	7.95	7.57	8.11
Dissolved Anions							
Alkalinity-Total		CaCO3	455	509	475	507	155
Sulphate	SO4		313	1700	364	1690	161

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water



Sample ID	P01-52-B	P96-9A	P01-52-A	P96-9A-S	BH05-9B-R
Sample Date	06-09-19	06-09-19	06-09-19	06-09-19	06-09-19
ALS ID	6	7	8	9	10

Dissolved Metals

Aluminum	D-Al	<0.010	<0.025	<0.010	<0.025	0.0230
Antimony	D-Sb	<0.0010	<0.0025	<0.0010	<0.0025	0.00063
Arsenic	D-As	0.0126	<0.0025	0.0201	<0.0025	0.0471
Barium	D-Ba	0.031	0.077	<0.020	0.068	0.022
Beryllium	D-Be	<0.0020	<0.0050	<0.0020	<0.0050	<0.0010
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.000034	0.000692	<0.000034	0.000597	0.000020
Calcium	D-Ca	177	395	185	382	46.4
Chromium	D-Cr	<0.0020	<0.0050	<0.0020	<0.0050	<0.0010
Cobalt	D-Co	<0.00060	<0.0015	<0.00060	<0.0015	0.00067
Copper	D-Cu	<0.0020	<0.0050	<0.0020	<0.0050	<0.0020
Iron	D-Fe	1.27	0.040	1.56	<0.030	0.510
Lead	D-Pb	<0.0010	<0.0025	<0.0010	<0.0025	0.0146
Lithium	D-Li	0.031	<0.025	0.029	<0.025	0.0214
Magnesium	D-Mg	97.0	306	93.5	292	23.6
Manganese	D-Mn	0.213	0.0738	0.123	0.0652	0.0993
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	0.0050	<0.0050	0.0028	<0.0050	0.0120
Nickel	D-Ni	<0.0020	0.0073	<0.0020	0.0072	0.0012
Potassium	D-K	4.7	5.7	3.9	5.2	<2.0
Selenium	D-Se	<0.0020	<0.0050	<0.0020	<0.0050	<0.0010
Silver	D-Ag	<0.000040	<0.00010	<0.000040	<0.00010	<0.000020
Sodium	D-Na	10.5	16.7	7.0	14.5	50.0
Thallium	D-Tl	<0.00040	<0.0010	<0.00040	<0.0010	<0.00020
Tin	D-Sn	<0.0010	<0.0025	<0.0010	<0.0025	<0.00050
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.0192	0.0399	0.0222	0.0387	0.00175
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.037	0.091	<0.010	0.061	0.0072

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. Z3085

RESULTS OF ANALYSIS - Water



Sample ID	SRK04-5A	SRK04-5B	SRK05-07	SRK05-08
Sample Date	06-09-19	06-09-19	06-09-19	06-09-19
ALS ID	12	13	14	15

Physical Tests

Conductivity	(uS/cm)	439	465	2560	1600
Hardness	CaCO3	212	218	1790	975
pH		8.12	8.09	7.79	7.78

Dissolved Anions

Alkalinity-Total		CaCO3	149	144	765	516
Sulphate	SO4		94.9	109	1080	494

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID		SRK05-06	SRK04-5A	SRK04-5B	SRK05-07	SRK05-08
Sample Date		06-09-19	06-09-19	06-09-19	06-09-19	06-09-19
ALS ID		11	12	13	14	15
Dissolved Metals						
Aluminum	D-Al	<0.025	0.0075	0.0071	0.033	<0.025
Antimony	D-Sb	<0.0025	<0.00050	0.00076	0.0032	<0.0025
Arsenic	D-As	<0.0025	0.00822	0.0148	0.0266	<0.0025
Barium	D-Ba	0.055	0.038	0.083	0.141	0.032
Beryllium	D-Be	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.000425	<0.000017	0.000022	<0.000085	<0.000085
Calcium	D-Ca	226	56.7	58.6	340	212
Chromium	D-Cr	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050
Cobalt	D-Co	<0.0015	<0.00030	<0.00030	0.0146	<0.0015
Copper	D-Cu	0.0092	<0.0010	<0.0010	<0.0050	<0.0050
Iron	D-Fe	<0.030	0.744	0.205	1.82	<0.030
Lead	D-Pb	0.0041	<0.00050	<0.00050	<0.0025	<0.0025
Lithium	D-Li	<0.025	0.0106	0.0095	<0.025	<0.025
Magnesium	D-Mg	124	17.0	17.5	227	108
Manganese	D-Mn	0.0316	0.0487	0.0811	1.15	0.0198
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0050	0.0178	0.0231	0.0188	<0.0050
Nickel	D-Ni	<0.0050	<0.0010	<0.0010	0.0715	<0.0050
Potassium	D-K	3.5	<2.0	<2.0	3.2	<2.0
Selenium	D-Se	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050
Silver	D-Ag	<0.00010	<0.000020	<0.000020	<0.00010	<0.00010
Sodium	D-Na	10.0	19.1	24.2	13.4	7.2
Thallium	D-Tl	<0.0010	<0.00020	<0.00020	<0.0010	<0.0010
Tin	D-Sn	<0.0025	<0.00050	<0.00050	<0.0025	<0.0025
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.0253	0.00216	0.00318	0.0160	0.0143
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.055	0.0064	0.0062	<0.025	0.052

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. Z3085

RESULTS OF ANALYSIS - Water



Sample ID	SRK05-09	P03-08-1	P03-08-2	P03-08-3	P03-08-4
Sample Date	06-09-19	06-09-19	06-09-19	06-09-19	06-09-19
ALS ID	16	17	18	19	20

Physical Tests

Conductivity	(uS/cm)	1630	477	548	720	1270
Hardness	CaCO ₃	1030	266	300	392	702
pH		7.86	8.06	7.81	7.93	7.64

Dissolved Anions

Alkalinity-Total		CaCO ₃	332	263	245	289	306
Sulphate	SO ₄		676	35.9	76.7	153	458

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID		SRK05-09	P03-08-1	P03-08-2	P03-08-3	P03-08-4
Sample Date		06-09-19	06-09-19	06-09-19	06-09-19	06-09-19
ALS ID		16	17	18	19	20
Dissolved Metals						
Aluminum	D-Al	<0.025	<0.0050	0.0075	<0.010	<0.010
Antimony	D-Sb	<0.0025	<0.00050	<0.00050	<0.0010	<0.0010
Arsenic	D-As	<0.0025	<0.00050	<0.00050	<0.0010	0.0047
Barium	D-Ba	0.082	0.084	0.205	0.140	0.045
Beryllium	D-Be	<0.0050	<0.0010	<0.0010	<0.0020	<0.0020
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.000293	0.000020	0.000122	0.000096	<0.000034
Calcium	D-Ca	224	64.5	82.8	110	201
Chromium	D-Cr	<0.0050	<0.0010	<0.0010	<0.0020	<0.0020
Cobalt	D-Co	<0.0015	<0.00030	0.00066	<0.00060	<0.00060
Copper	D-Cu	<0.0050	<0.0010	0.0028	0.0024	<0.0020
Iron	D-Fe	<0.030	0.044	0.045	0.136	38.7
Lead	D-Pb	<0.0025	<0.00050	<0.00050	<0.0010	<0.0010
Lithium	D-Li	<0.025	0.0088	<0.0050	<0.010	<0.010
Magnesium	D-Mg	114	25.4	22.7	28.6	48.9
Manganese	D-Mn	0.0143	0.0326	4.10	6.68	3.13
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0050	<0.0010	<0.0010	0.0040	0.0104
Nickel	D-Ni	<0.0050	0.0020	0.0201	0.0231	<0.0020
Potassium	D-K	3.0	<2.0	<2.0	<2.0	3.1
Selenium	D-Se	<0.0050	<0.0010	<0.0010	<0.0020	<0.0020
Silver	D-Ag	<0.00010	<0.000020	<0.000020	<0.000040	<0.000040
Sodium	D-Na	8.3	2.1	7.9	11.6	47.7
Thallium	D-Tl	<0.0010	<0.00020	<0.00020	<0.00040	<0.00040
Tin	D-Sn	<0.0025	<0.00050	<0.00050	<0.0010	<0.0010
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	0.0213	0.00342	0.00259	0.00425	0.00822
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.067	0.0070	0.0077	0.019	0.023

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. Z3085

RESULTS OF ANALYSIS - Water



Sample ID	P03-08-5	P03-08-6

Sample Date	06-09-19	06-09-19
ALS ID	21	22

Physical Tests

Conductivity	(uS/cm)	2150	2200
Hardness	CaCO3	1080	948
pH		7.54	7.15

Dissolved Anions

Alkalinity-Total		CaCO3	288	21.6
Sulphate	SO4		1070	1270

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. Z3085

RESULTS OF ANALYSIS - Water

Sample ID	P03-08-5	P03-08-6
Sample Date	06-09-19	06-09-19
ALS ID	21	22

Dissolved Metals

Aluminum	D-Al	0.038	<0.025
Antimony	D-Sb	<0.0025	<0.0025
Arsenic	D-As	0.0047	<0.0025
Barium	D-Ba	0.032	<0.020
Beryllium	D-Be	<0.0050	<0.0050
Boron	D-B	<0.10	<0.10
Cadmium	D-Cd	<0.000085	<0.000085
Calcium	D-Ca	298	363
Chromium	D-Cr	<0.0050	<0.0050
Cobalt	D-Co	<0.0015	0.0028
Copper	D-Cu	<0.0050	<0.0050
Iron	D-Fe	54.0	1.89
Lead	D-Pb	0.0111	0.0037
Lithium	D-Li	<0.025	0.041
Magnesium	D-Mg	80.7	10.4
Manganese	D-Mn	7.55	0.490
Mercury	D-Hg	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0050	0.0057
Nickel	D-Ni	<0.0050	<0.0050
Potassium	D-K	15.3	10.2
Selenium	D-Se	<0.0050	<0.0050
Silver	D-Ag	<0.00010	<0.00010
Sodium	D-Na	126	162
Thallium	D-Tl	<0.0010	<0.0010
Tin	D-Sn	<0.0025	<0.0025
Titanium	D-Ti	<0.010	<0.010
Uranium	D-U	0.0012	<0.0010
Vanadium	D-V	<0.030	<0.030
Zinc	D-Zn	0.069	0.057

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. Z3085

Appendix 1 - QUALITY CONTROL - Replicates



Water	SRK05-06	SRK05-06	P03-08-1	P03-08-1
	06-09-19	QC # 524487	06-09-19	QC # 524488

Physical Tests

Conductivity	(uS/cm)	-	-	477	476
Hardness	CaCO3	-	-	266	282
pH		-	-	8.06	8.05

Dissolved Anions

Alkalinity-Total		CaCO3	-	-	263	239
Sulphate	SO4		-	-	35.9	34.1

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

Appendix 2 - METHODOLOGY - Continued



Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 21th Edition 2005 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 hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:
Sample: 6 months
Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 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).

Recommended Holding Time:
Sample: 28 days
Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Titration

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.

Recommended Holding Time:
Sample: 14 days
Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

File No. Z3085

Appendix 2 - METHODOLOGY - Continued



Results contained within this certificate relate only to the samples as submitted.

This Certificate Of Analysis shall only be reproduced in full, except with the written approval of ALS Environmental.

End of Report



CERTIFICATE OF ANALYSIS

Date: October 27, 2006

ALS File No. Z3086

Report On: 60601 Water Analysis

Report To: **Gartner Lee Ltd.**
2251 2nd Ave
Whitehorse, YT
Y1A 5W1

Attention: **Ms. Jen Funston**

Received: September 27, 2006

ALS ENVIRONMENTAL

per:

Can Dang, B.Sc. - Senior Account Manager
Janice Pearson, - Account Manager

RESULTS OF ANALYSIS - Water

Sample ID	P03-03-02	P03-03-03	P03-03-03-S	P03-03-04
Sample Date	06-09-22	06-09-22	06-09-22	06-09-22
ALS ID	2	3	4	5

Dissolved Metals

Aluminum	D-Al	2.09	0.200	0.201	0.018
Antimony	D-Sb	<0.010	<0.0010	<0.0010	<0.0010
Arsenic	D-As	<0.010	<0.0010	<0.0010	0.0030
Barium	D-Ba	<0.020	<0.020	<0.020	0.070
Beryllium	D-Be	<0.020	<0.0020	<0.0020	<0.0020
Boron	D-B	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.0131	0.0111	0.0111	0.00354
Calcium	D-Ca	107	122	124	136
Chromium	D-Cr	<0.020	<0.0020	<0.0020	<0.0020
Cobalt	D-Co	0.157	0.211	0.213	0.147
Copper	D-Cu	0.036	<0.0020	<0.0020	<0.0020
Iron	D-Fe	511	40.7	41.5	39.8
Lead	D-Pb	<0.010	<0.0010	<0.0010	<0.0010
Lithium	D-Li	<0.10	0.034	0.034	0.034
Magnesium	D-Mg	41.0	24.5	24.9	27.3
Manganese	D-Mn	15.3	15.8	16.0	26.0
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.020	<0.0020	<0.0020	<0.0020
Nickel	D-Ni	0.211	0.243	0.243	0.147
Potassium	D-K	5.1	3.5	3.6	3.6
Selenium	D-Se	<0.020	<0.0020	<0.0020	<0.0020
Silver	D-Ag	<0.00040	<0.000040	<0.000040	<0.000040
Sodium	D-Na	12.4	9.1	9.2	18.1
Thallium	D-Tl	<0.0040	<0.00040	<0.00040	<0.00040
Tin	D-Sn	<0.010	<0.0010	<0.0010	<0.0010
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010
Uranium	D-U	<0.0040	<0.00040	<0.00040	<0.00040
Vanadium	D-V	<0.080	<0.030	<0.030	<0.030
Zinc	D-Zn	122	14.6	14.7	6.19

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. Z3086

RESULTS OF ANALYSIS - Water



Sample ID	P03-03-05	P03-03-06	P03-03-08	P03-03-09	P03-04-01
Sample Date	06-09-22	06-09-22	06-09-22	06-09-22	06-09-20
ALS ID	6	7	8	9	10

Physical Tests

Conductivity	(uS/cm)	1100	1780	9190	17300	1860
Hardness	CaCO3	557	801	2010	3490	994
pH		6.75	6.09	3.56	3.35	7.73

Dissolved Anions

Alkalinity-Total		CaCO3	76.0	17.4	2.4	<2.0	286
Bromide	Br		<0.050	<0.050	<250	<250	<0.050
Sulphate	SO4		550	1090	8640	21900	912

Remarks regarding the analyses appear at the beginning of this report.
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RESULTS OF ANALYSIS - Water

Sample ID	P03-03-05	P03-03-06	P03-03-08	P03-03-09	P03-04-01
Sample Date	06-09-22	06-09-22	06-09-22	06-09-22	06-09-20
ALS ID	6	7	8	9	10

Dissolved Metals

Aluminum	D-Al	<0.010	<0.025	<0.25	<0.50	<0.025
Antimony	D-Sb	<0.0010	<0.0025	<0.025	<0.050	<0.0025
Arsenic	D-As	0.0092	<0.0025	<0.025	<0.050	<0.0025
Barium	D-Ba	<0.20	<0.020	<0.10	<0.20	<0.020
Beryllium	D-Be	<0.0020	<0.0050	<0.050	<0.10	<0.0050
Boron	D-B	<1.0	<0.10	<0.50	<1.0	<0.10
Cadmium	D-Cd	0.000043	<0.000085	<0.00085	<0.0017	<0.000085
Calcium	D-Ca	168	217	262	347	321
Chromium	D-Cr	<0.0020	<0.0050	<0.050	<0.10	<0.0050
Cobalt	D-Co	0.0472	<0.0015	<0.015	<0.030	<0.0015
Copper	D-Cu	<0.0020	<0.0050	<0.050	<0.10	<0.0050
Iron	D-Fe	29.8	195	3490	9340	4.75
Lead	D-Pb	<0.0010	<0.0025	<0.025	2.23	<0.0025
Lithium	D-Li	0.025	0.029	<0.25	<0.50	<0.025
Magnesium	D-Mg	33.3	62.8	329	637	46.6
Manganese	D-Mn	43.8	17.2	51.6	143	1.53
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0020	<0.0050	<0.050	<0.10	<0.0050
Nickel	D-Ni	0.0345	<0.0050	<0.050	<0.10	<0.0050
Potassium	D-K	<20	5.7	50	55	5.4
Selenium	D-Se	<0.0020	<0.0050	<0.050	<0.10	<0.0050
Silver	D-Ag	<0.000040	<0.00010	<0.0010	<0.0020	<0.00010
Sodium	D-Na	30	75.9	399	417	99.4
Thallium	D-Tl	<0.00040	<0.0010	<0.010	<0.020	<0.0010
Tin	D-Sn	<0.0010	<0.0025	<0.025	<0.050	<0.0025
Titanium	D-Ti	<0.10	<0.010	<0.050	<0.10	<0.010
Uranium	D-U	0.00046	<0.0010	<0.010	<0.020	0.0078
Vanadium	D-V	<0.30	<0.030	<0.20	<1.1	<0.030
Zinc	D-Zn	0.303	0.044	134	629	<0.025

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. Z3086

RESULTS OF ANALYSIS - Water



Sample ID	P03-04-02	P03-04-03	P03-04-04	P03-04-05	P03-04-06
Sample Date	06-09-20	06-09-20	06-09-20	06-09-20	06-09-21
ALS ID	11	12	13	14	15

Physical Tests

Conductivity	(uS/cm)	1720	1520	1120	1380	5820
Hardness	CaCO3	1040	896	467	774	1840
pH		7.10	6.92	7.84	7.09	5.18

Dissolved Anions

Alkalinity-Total		CaCO3	135	110	234	133	16.3
Bromide	Br		<0.050	<0.050	<0.050	<0.050	<50
Sulphate	SO4		999	863	404	712	4910

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

RESULTS OF ANALYSIS - Water

Sample ID	P03-04-02	P03-04-03	P03-04-04	P03-04-05	P03-04-06
Sample Date	06-09-20	06-09-20	06-09-20	06-09-20	06-09-21
ALS ID	11	12	13	14	15

Dissolved Metals

Aluminum	D-Al	<0.025	<0.025	<0.025	<0.025	<0.25
Antimony	D-Sb	<0.0025	<0.0025	<0.0025	<0.0025	<0.025
Arsenic	D-As	<0.0025	<0.0025	0.0054	0.0062	<0.025
Barium	D-Ba	<0.020	0.020	0.053	0.059	<0.20
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<1.0
Cadmium	D-Cd	0.00227	0.00150	<0.000085	<0.000085	<0.00085
Calcium	D-Ca	305	256	153	234	501
Chromium	D-Cr	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
Cobalt	D-Co	0.0990	0.0690	0.0029	0.0243	0.057
Copper	D-Cu	<0.0050	<0.0050	<0.0050	<0.0050	0.069
Iron	D-Fe	0.075	0.270	4.41	24.2	2150
Lead	D-Pb	<0.0025	<0.0025	<0.0025	<0.0025	<0.025
Lithium	D-Li	<0.025	<0.025	<0.025	<0.025	<0.25
Magnesium	D-Mg	68.9	62.2	20.4	45.9	142
Manganese	D-Mn	35.9	32.3	4.28	32.1	20.6
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
Nickel	D-Ni	0.170	0.101	<0.0050	0.0192	0.133
Potassium	D-K	4.4	4.1	3.1	3.6	<20
Selenium	D-Se	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
Silver	D-Ag	<0.00010	<0.00010	<0.00010	<0.00010	<0.0010
Sodium	D-Na	35.8	31.0	91.5	26.1	110
Thallium	D-Tl	<0.0010	<0.0010	<0.0010	<0.0010	<0.010
Tin	D-Sn	<0.0025	<0.0025	<0.0025	<0.0025	<0.025
Titanium	D-Ti	<0.010	<0.010	<0.010	<0.010	<0.10
Uranium	D-U	<0.0010	<0.0010	0.0028	0.0018	<0.010
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.30
Zinc	D-Zn	0.079	0.086	<0.025	0.059	3.78

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. Z3086

RESULTS OF ANALYSIS - Water



Sample ID	P03-04-07	P03-04-08	P03-04-09
Sample Date	06-09-21	06-09-21	06-09-21
ALS ID	16	17	18

Physical Tests

Conductivity	(uS/cm)	5960	8350	7310
Hardness	CaCO3	1740	1330	-
pH		5.22	3.82	3.73

Dissolved Anions

Alkalinity-Total		CaCO3	8.8	12.6	9.7
Bromide	Br		<50	<250	<250
Sulphate	SO4		5030	8290	6930

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

File No. Z3086

RESULTS OF ANALYSIS - Water

Sample ID	P03-04-07	P03-04-08
Sample Date	06-09-21	06-09-21
ALS ID	16	17

Dissolved Metals

Aluminum	D-Al	<0.25	<0.25
Antimony	D-Sb	<0.025	<0.025
Arsenic	D-As	<0.025	<0.025
Barium	D-Ba	<0.10	<0.10
Beryllium	D-Be	<0.050	<0.050
Boron	D-B	<0.50	<0.50
Cadmium	D-Cd	<0.00085	<0.00085
Calcium	D-Ca	484	405
Chromium	D-Cr	<0.050	<0.050
Cobalt	D-Co	0.051	<0.015
Copper	D-Cu	<0.050	<0.050
Iron	D-Fe	2290	4350
Lead	D-Pb	<0.025	<0.025
Lithium	D-Li	<0.25	<0.25
Magnesium	D-Mg	128	77.5
Manganese	D-Mn	20.1	31.9
Mercury	D-Hg	<0.000020	<0.000020
Molybdenum	D-Mo	<0.050	<0.050
Nickel	D-Ni	0.107	<0.050
Potassium	D-K	12	<10
Selenium	D-Se	<0.050	<0.050
Silver	D-Ag	<0.0010	<0.0010
Sodium	D-Na	101	40
Thallium	D-Tl	<0.010	<0.010
Tin	D-Sn	<0.025	<0.025
Titanium	D-Ti	<0.050	<0.050
Uranium	D-U	<0.010	<0.010
Vanadium	D-V	<0.20	<0.30
Zinc	D-Zn	3.19	3.80

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

File No. Z3086

Appendix 1 - QUALITY CONTROL - Replicates



Water	P03-03-06 06-09-22	P03-03-06 QC # 524489	P03-04-06 06-09-21	P03-04-06 QC # 524490

Physical Tests

Conductivity	(uS/cm)	1780	1790	5820	5810
Hardness	CaCO3	801	805	1840	1860
pH		6.09	6.11	-	-

Dissolved Anions

Alkalinity-Total		CaCO3	17.4	18.4	16.3	16.7
Sulphate	SO4		1090	1080	-	-

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

Appendix 1 - QUALITY CONTROL - Replicates



Water		P03-03-06 06-09-22	P03-03-06 QC # 524489	P03-04-06 06-09-21	P03-04-06 QC # 524490
Dissolved Metals					
Aluminum	D-Al	<0.025	<0.025	<0.25	<0.25
Antimony	D-Sb	<0.0025	<0.0025	<0.025	<0.025
Arsenic	D-As	<0.0025	<0.0025	<0.025	<0.025
Barium	D-Ba	<0.020	<0.020	<0.20	<0.20
Beryllium	D-Be	<0.0050	<0.0050	<0.050	<0.050
Boron	D-B	<0.10	<0.10	<1.0	<1.0
Cadmium	D-Cd	<0.000085	<0.000085	<0.00085	<0.00085
Calcium	D-Ca	217	218	501	508
Chromium	D-Cr	<0.0050	<0.0050	<0.050	<0.050
Cobalt	D-Co	<0.0015	<0.0015	0.057	0.055
Copper	D-Cu	<0.0050	<0.0050	0.069	0.067
Iron	D-Fe	195	199	2150	2170
Lead	D-Pb	<0.0025	<0.0025	<0.025	<0.025
Lithium	D-Li	0.029	0.026	<0.25	<0.25
Magnesium	D-Mg	62.8	63.2	142	143
Manganese	D-Mn	17.2	16.5	20.6	20.0
Mercury	D-Hg	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	D-Mo	<0.0050	<0.0050	<0.050	<0.050
Nickel	D-Ni	<0.0050	<0.0050	0.133	0.129
Potassium	D-K	5.7	5.8	<20	<20
Selenium	D-Se	<0.0050	<0.0050	<0.050	<0.050
Silver	D-Ag	<0.00010	<0.00010	<0.0010	<0.0010
Sodium	D-Na	75.9	77.0	110	110
Thallium	D-Tl	<0.0010	<0.0010	<0.010	<0.010
Tin	D-Sn	<0.0025	<0.0025	<0.025	<0.025
Titanium	D-Ti	<0.010	<0.010	<0.10	<0.10
Uranium	D-U	<0.0010	<0.0010	<0.010	<0.010
Vanadium	D-V	-	-	<0.30	<0.30
Zinc	D-Zn	0.044	0.044	3.78	3.63

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except where noted.
 < = Less than the detection limit indicated.

Appendix 2 - METHODOLOGY



Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

Conductivity in Water

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

Recommended Holding Time:
Sample: 28 days
Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

pH in Water

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.

Recommended Holding Time:
Sample: 2 hours
Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Colourimetry

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

Recommended Holding Time:
Sample: 14 days
Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Dissolved Anions in Water by Ion Chromatography

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 are determined by filtering the sample through a 0.45 micron membrane filter and injecting the filtrate onto a Dionex IonPac AG17 anion exchange column with a hydroxide eluent stream. Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.

Recommended Holding Time:
Sample: 28 days (bromide, chloride, fluoride, sulphate)

File No. Z3086

Appendix 2 - METHODOLOGY - Continued



Sample: 2 days (nitrate, nitrite)

Reference: APHA and EPA

Laboratory Location: ALS Environmental, Vancouver

Sulphate in Water

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

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 21th Edition 2005 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 hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:

Sample: 6 months

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 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 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).

Recommended Holding Time:

Sample: 28 days

Reference: EPA

File No. Z3086

Appendix 2 - METHODOLOGY - Continued



Laboratory Location: ALS Environmental, Vancouver

Results contained within this certificate relate only to the samples as submitted.

This Certificate Of Analysis shall only be reproduced in full, except with the written approval of ALS Environmental.

End of Report

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



Environmental Division

ANALYTICAL REPORT

GARTNER LEE LTD.
ATTN: JEN FUNSTON

Reported On: 23-NOV-06 01:00 PM

2251 2ND AVE

WHITEHORSE YT Y1A 5W1

Lab Work Order #: **L451213**

Date Received: **06-NOV-06**

Project P.O. #:

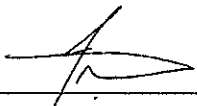
Job Reference: 60588 FARO AMP

Legal Site Desc:

CofC Numbers: 45576, 45577, 45582

Other Information:

Comments: 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.

ALS Canada Ltd.

Part of the **ALS Laboratory Group**

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ALS LABORATORY GROUP ANALYTICAL REPORT

L451213 CONTD....

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		Sample ID	L451213-1	L451213-2	L451213-3	L451213-4	L451213-5
		Description					
		Sampled Date	01-NOV-06	01-NOV-06	01-NOV-06	01-NOV-06	02-NOV-06
		Sampled Time	09:50	10:50	11:40	11:51	14:40
		Client ID	X24A-96	X24D-96	X25A-96	X25B-96	P03-04-02
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)	1570	1850	495	540	996	
	Conductivity (uS/cm)	2430	2850	967	1080	1750	
	pH (pH)	7.09	7.13	7.60	7.90	6.78	
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	363	396	271	278	135	
	Sulfate (SO4) (mg/L)	1400	1700	296	363	1040	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.22	<0.10	<0.025	<0.025	<0.10	
	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)	<0.040	<0.040	<0.040	<0.040	<0.040	
	Beryllium (Be)-Dissolved (mg/L)	<0.020	<0.020	<0.0050	<0.0050	<0.020	
	Boron (B)-Dissolved (mg/L)	<0.20	<0.20	<0.20	<0.20	<0.20	
	Cadmium (Cd)-Dissolved (mg/L)	0.00101	0.00251	0.000226	<0.000085	<0.00034	
	Calcium (Ca)-Dissolved (mg/L)	469	555	142	169	293	
	Chromium (Cr)-Dissolved (mg/L)	<0.020	<0.020	<0.0050	<0.0050	<0.020	
	Cobalt (Co)-Dissolved (mg/L)	0.0430	0.0469	0.0038	<0.0015	0.111	
	Copper (Cu)-Dissolved (mg/L)	<0.020	<0.020	<0.0050	<0.0050	<0.020	
	Iron (Fe)-Dissolved (mg/L)	1.00	<0.060	<0.060	0.622	0.258	
	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)	97.8	112	33.8	28.3	63.8	
	Manganese(Mn)-Dissolved (mg/L)	41.4	50.0	3.89	0.176	39.0	
	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)	0.072	0.196	0.0071	<0.0050	0.198	
	Potassium (K)-Dissolved (mg/L)	6.5	7.2	4.2	<4.0	4.1	
	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)	37.2	46.1	26.5	48.2	34.9	
	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)	<0.020	<0.020	<0.020	<0.020	<0.020	
	Uranium (U)-Dissolved (mg/L)	0.0081	0.0054	0.0093	0.0052	<0.0040	
	Vanadium (V)-Dissolved (mg/L)	<0.060	<0.060	<0.060	<0.060	<0.060	
	Zinc (Zn)-Dissolved (mg/L)	1.84	<0.10	<0.025	<0.025	<0.10	

ALS LABORATORY GROUP ANALYTICAL REPORT

L451213 CONTD....

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Sample ID Description Sampled Date Sampled Time Client ID		L451213-6	L451213-7	L451213-8	L451213-9	L451213-10
		02-NOV-06 15:00 P03-04-04	02-NOV-06 15:00 P03-04-04-S	02-NOV-06 15:24 P03-04-06	01-NOV-06 16:00 P03-08-02	01-NOV-06 16:25 P03-08-03
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	503	505	1790	302	409
	Conductivity (uS/cm)	1180	1180	6510	590	741
	pH (pH)	7.56	7.63	5.34	6.97	7.64
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)	222	221	43.7	267	302
	Sulfate (SO ₄) (mg/L)	459	464	6120	91.2	153
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.025	<0.025	<0.50	<0.025	<0.025
	Antimony (Sb)-Dissolved (mg/L)	<0.0025	<0.0025	<0.050	<0.0025	<0.0025
	Arsenic (As)-Dissolved (mg/L)	0.0056	0.0057	<0.050	<0.0025	<0.0025
	Barium (Ba)-Dissolved (mg/L)	0.060	0.062	<0.10	0.204	0.136
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0050	<0.10	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.20	<0.20	<0.50	<0.20	<0.20
	Cadmium (Cd)-Dissolved (mg/L)	<0.000085	<0.000085	<0.0017	0.000189	0.000220
	Calcium (Ca)-Dissolved (mg/L)	162	163	504	82.8	117
	Chromium (Cr)-Dissolved (mg/L)	<0.0050	<0.0050	<0.10	<0.0050	<0.0050
	Cobalt (Co)-Dissolved (mg/L)	0.0054	0.0056	0.049	<0.0015	<0.0015
	Copper (Cu)-Dissolved (mg/L)	<0.0050	<0.0050	<0.10	<0.0050	<0.0050
	Iron (Fe)-Dissolved (mg/L)	5.43	5.48	2830	0.094	0.088
	Lead (Pb)-Dissolved (mg/L)	<0.0025	<0.0025	<0.050	<0.0025	<0.0025
	Lithium (Li)-Dissolved (mg/L)	<0.025	<0.025	<0.50	<0.025	<0.025
	Magnesium (Mg)-Dissolved (mg/L)	23.6	24.0	128	23.3	28.7
	Manganese (Mn)-Dissolved (mg/L)	5.82	6.05	24.7	4.17	6.68
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0050	<0.0050	<0.10	<0.0050	<0.0050
	Nickel (Ni)-Dissolved (mg/L)	<0.0050	<0.0050	0.10	0.0223	0.0265
	Potassium (K)-Dissolved (mg/L)	<4.0	<4.0	11	<4.0	<4.0
	Selenium (Se)-Dissolved (mg/L)	<0.0050	<0.0050	<0.10	<0.0050	<0.0050
	Silver (Ag)-Dissolved (mg/L)	<0.00010	<0.00010	<0.0020	<0.00010	<0.00010
	Sodium (Na)-Dissolved (mg/L)	85.1	86.2	103	9.3	13.0
	Thallium (Tl)-Dissolved (mg/L)	<0.0010	<0.0010	<0.020	<0.0010	<0.0010
	Tin (Sn)-Dissolved (mg/L)	<0.0025	<0.0025	<0.050	<0.0025	<0.0025
	Titanium (Ti)-Dissolved (mg/L)	<0.020	<0.020	<0.050	<0.020	<0.020
	Uranium (U)-Dissolved (mg/L)	0.0026	0.0028	<0.020	0.0028	0.0045
	Vanadium (V)-Dissolved (mg/L)	<0.060	<0.060	<1.0	<0.060	<0.060
	Zinc (Zn)-Dissolved (mg/L)	<0.025	<0.025	2.88	<0.025	<0.025

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		Sample ID	L451213-11	L451213-12	L451213-13	L451213-14	L451213-15
		Description					
		Sampled Date	01-NOV-06	01-NOV-06	01-NOV-06	01-NOV-06	01-NOV-06
		Sampled Time	16:25	16:55	17:15	13:50	13:45
		Client ID	P03-08-03-S	P03-08-04	P03008-05	P03-09-02	P03-09-04
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		413	656	1090	637	663
	Conductivity (uS/cm)		742	1210	2150	1180	1220
	pH (pH)		7.78	7.44	7.30	7.46	7.60
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)		295	297	284	338	284
	Sulfate (SO4) (mg/L)		152	434	1120	373	458
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		<0.025	<0.025	<0.050	<0.025	<0.025
	Antimony (Sb)-Dissolved (mg/L)		<0.0025	<0.0025	<0.0050	<0.0025	<0.0025
	Arsenic (As)-Dissolved (mg/L)		<0.0025	<0.0025	<0.0050	<0.0025	<0.0025
	Barium (Ba)-Dissolved (mg/L)		0.136	<0.040	<0.040	<0.040	0.046
	Beryllium (Be)-Dissolved (mg/L)		<0.0050	<0.0050	<0.010	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)		<0.20	<0.20	<0.20	<0.20	<0.20
	Cadmium (Cd)-Dissolved (mg/L)		0.000152	<0.000085	<0.00017	<0.000085	0.000413
	Calcium (Ca)-Dissolved (mg/L)		118	187	305	170	203
	Chromium (Cr)-Dissolved (mg/L)		<0.0050	<0.0050	<0.010	<0.0050	<0.0050
	Cobalt (Co)-Dissolved (mg/L)		<0.0015	<0.0015	<0.0030	<0.0015	0.0033
	Copper (Cu)-Dissolved (mg/L)		<0.0050	<0.0050	<0.010	<0.0050	<0.0050
	Iron (Fe)-Dissolved (mg/L)		0.076	34.6	61.1	6.34	<0.060
	Lead (Pb)-Dissolved (mg/L)		<0.0025	<0.0025	<0.0050	<0.0025	<0.0025
	Lithium (Li)-Dissolved (mg/L)		<0.025	<0.025	<0.050	0.035	<0.025
	Magnesium (Mg)-Dissolved (mg/L)		28.8	45.9	80.0	51.5	38.2
	Manganese(Mn)-Dissolved (mg/L)		6.73	2.82	7.25	0.386	6.25
	Mercury (Hg)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Molybdenum (Mo)-Dissolved (mg/L)		<0.0050	0.0099	<0.010	<0.0050	<0.0050
	Nickel (Ni)-Dissolved (mg/L)		0.0262	<0.0050	<0.010	<0.0050	0.0099
	Potassium (K)-Dissolved (mg/L)		<4.0	<4.0	15.9	<4.0	4.2
	Selenium (Se)-Dissolved (mg/L)		<0.0050	<0.0050	<0.010	<0.0050	<0.0050
	Silver (Ag)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00020	<0.00010	<0.00010
	Sodium (Na)-Dissolved (mg/L)		13.0	40.8	137	45.5	32.1
	Thallium (Tl)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0020	<0.0010	<0.0010
	Tin (Sn)-Dissolved (mg/L)		<0.0025	<0.0025	<0.0050	<0.0025	<0.0025
	Titanium (Ti)-Dissolved (mg/L)		<0.020	<0.020	<0.020	<0.020	<0.020
	Uranium (U)-Dissolved (mg/L)		0.0044	0.0075	<0.0020	0.0017	0.0066
	Vanadium (V)-Dissolved (mg/L)		<0.060	<0.060	<0.060	<0.060	<0.060
	Zinc (Zn)-Dissolved (mg/L)		<0.025	<0.025	<0.050	<0.025	<0.025

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Sample ID Description Sampled Date Sampled Time Client ID		L451213-16	L451213-17	L451213-18	L451213-19	L451213-20
Grouping						
Analyte						
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	682	764	743	956	567
	Conductivity (uS/cm)	1250	1360	1330	1570	1040
	pH (pH)	7.60	7.55	7.58	7.52	7.22
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)	295	298	297	195	132
	Sulfate (SO ₄) (mg/L)	469	544	532	835	474
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.025	<0.050	<0.050	<0.050	<0.050
	Antimony (Sb)-Dissolved (mg/L)	<0.0025	<0.0050	<0.0050	<0.0050	<0.0050
	Arsenic (As)-Dissolved (mg/L)	<0.0025	<0.0050	<0.0050	<0.0050	0.0054
	Barium (Ba)-Dissolved (mg/L)	0.065	0.066	0.066	<0.040	0.129
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.010	<0.010	<0.010	<0.010
	Boron (B)-Dissolved (mg/L)	<0.20	<0.20	<0.20	<0.20	<0.20
	Cadmium (Cd)-Dissolved (mg/L)	0.000325	0.00019	0.00017	<0.00017	<0.00017
	Calcium (Ca)-Dissolved (mg/L)	205	234	228	296	173
	Chromium (Cr)-Dissolved (mg/L)	<0.0050	<0.010	<0.010	<0.010	<0.010
	Cobalt (Co)-Dissolved (mg/L)	<0.0015	<0.0030	<0.0030	<0.0030	0.0139
	Copper (Cu)-Dissolved (mg/L)	<0.0050	<0.010	<0.010	<0.010	<0.010
	Iron (Fe)-Dissolved (mg/L)	<0.060	<0.060	0.065	5.82	7.81
	Lead (Pb)-Dissolved (mg/L)	<0.0025	<0.0050	<0.0050	<0.0050	<0.0050
	Lithium (Li)-Dissolved (mg/L)	<0.025	<0.050	<0.050	<0.050	<0.050
	Magnesium (Mg)-Dissolved (mg/L)	41.3	43.4	42.0	52.5	32.8
	Manganese (Mn)-Dissolved (mg/L)	6.69	8.51	8.05	0.914	16.8
	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	<0.010	<0.010
	Nickel (Ni)-Dissolved (mg/L)	0.0090	0.011	0.011	<0.010	0.025
	Potassium (K)-Dissolved (mg/L)	4.3	4.5	4.4	<4.0	<4.0
	Selenium (Se)-Dissolved (mg/L)	<0.0050	<0.010	<0.010	<0.010	<0.010
	Silver (Ag)-Dissolved (mg/L)	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020
	Sodium (Na)-Dissolved (mg/L)	33.8	34.1	33.6	31.0	12.3
	Thallium (Tl)-Dissolved (mg/L)	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020
	Tin (Sn)-Dissolved (mg/L)	<0.0025	<0.0050	<0.0050	<0.0050	<0.0050
	Titanium (Ti)-Dissolved (mg/L)	<0.020	<0.020	<0.020	<0.020	<0.020
	Uranium (U)-Dissolved (mg/L)	0.0054	0.0070	0.0069	<0.0020	0.0039
	Vanadium (V)-Dissolved (mg/L)	<0.060	<0.060	<0.060	<0.060	<0.060
	Zinc (Zn)-Dissolved (mg/L)	<0.025	<0.050	<0.050	<0.050	<0.050

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		Sample ID	L451213-21	L451213-22	L451213-23	L451213-24	L451213-25
		Description					
		Sampled Date	02-NOV-06	02-NOV-06	02-NOV-06	02-NOV-06	02-NOV-06
		Sampled Time	10:15	11:45	11:57	12:11	12:20
		Client ID	P03-05-03	P03-05-05	P03-05-06	P03-05-07	P03-05-08
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)	473	725	930	2590	2450	
	Conductivity (uS/cm)	913	1630	2620	7440	6770	
	pH (pH)	7.40	6.14	7.27	5.32	4.46	
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	155	89.1	142	18.3	19.0	
	Sulfate (SO4) (mg/L)	361	1010	1440	6560	5880	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.25	<0.25	
	Antimony (Sb)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.025	<0.025	
	Arsenic (As)-Dissolved (mg/L)	<0.0050	0.0098	<0.0050	<0.025	<0.025	
	Barium (Ba)-Dissolved (mg/L)	0.164	<0.040	<0.040	<0.040	<0.040	
	Beryllium (Be)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.050	<0.050	
	Boron (B)-Dissolved (mg/L)	<0.20	<0.20	<0.20	<0.20	<0.20	
	Cadmium (Cd)-Dissolved (mg/L)	<0.00017	<0.00017	<0.00017	<0.00085	<0.00085	
	Calcium (Ca)-Dissolved (mg/L)	146	192	163	293	286	
	Chromium (Cr)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.050	<0.050	
	Cobalt (Co)-Dissolved (mg/L)	0.0051	0.0119	<0.0030	<0.015	<0.015	
	Copper (Cu)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.050	<0.050	
	Iron (Fe)-Dissolved (mg/L)	1.22	167	9.35	1790	1430	
	Lead (Pb)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.025	0.226	
	Lithium (Li)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.25	<0.25	
	Magnesium (Mg)-Dissolved (mg/L)	26.3	59.6	127	452	421	
	Manganese(Mn)-Dissolved (mg/L)	10.9	22.0	0.111	39.4	33.6	
	Mercury (Hg)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	
	Molybdenum (Mo)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.050	<0.050	
	Nickel (Ni)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.050	<0.050	
	Potassium (K)-Dissolved (mg/L)	<4.0	5.8	33.9	62.1	61.0	
	Selenium (Se)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.050	<0.050	
	Silver (Ag)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	
	Sodium (Na)-Dissolved (mg/L)	12.1	38.6	300	224	226	
	Thallium (Tl)-Dissolved (mg/L)	<0.0020	<0.0020	<0.0020	<0.010	<0.010	
	Tin (Sn)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.025	<0.025	
	Titanium (Ti)-Dissolved (mg/L)	<0.020	<0.020	<0.020	<0.020	<0.020	
	Uranium (U)-Dissolved (mg/L)	0.0049	<0.0020	<0.0020	<0.010	<0.010	
	Vanadium (V)-Dissolved (mg/L)	<0.060	<0.060	<0.060	<0.30	<0.30	
	Zinc (Zn)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.25	<0.25	

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 ICPAES (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/6020
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 6020).			
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

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. The Laboratory control limits are determined under column heading D.L. (Detection Limit)

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.

UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.

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

ALS Laboratory Group has an extensive QAIQC 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.



ALS Environmental
excellence in analytical testing

Burlington, ON 5420 Mainway Drive, Unit 5 L7L 6A4 Tel: 905-331-3111 Toll Free: 1-888-257-3684 Fax: 905-331-4567

PAGE 1 OF 3

SEND REPORT TO:

CHAIN OF CUSTODY FORM

L451213

CLIENT: Gartner Lee ATTN: Len Funston

ADDRESS: 2251 2nd Avenue

CITY: Whitehorse PROV: Yukon POSTAL CODE: Y1A 5W1

TELEPHONE: 867.633.6474 FAX: 867.633.6321 SAMPLER: KW + JF

PROJECT NAME & NO.: Faro AMP QUOTE NO.: _____

PO NO.: 60588 ALS CONTACT: Can Dang

REPORT FORMAT: ☒ HARDCOPY ☒ EMAIL - ADDRESS: ifunston@gartnerlee.

☐ FAX ☒ EXCEL ☒ PDF ☐ OTHER: _____**ANALYSIS REQUESTED:**

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

Dissolved Metals

NOTES (sample specific comments, due dates, etc.)

FOR LAB USE ONLY

[illegible]

TURN AROUND REQUIRED: ☐ ROUTINE ☐ RUSH - SPECIFY DATE: _____ (surcharge may apply)

SEND INVOICE TO: ☒ SAME AS REPORT **INVOICE FORMAT:** ☒ HARDCOPY ☒ PDF ☐ FAX
☐ DIFFERENT FROM REPORT (provide details below)

SPECIAL INSTRUCTIONS:

RELINQUISHED BY:

DATE Nov. 2/06

RECEIVED BY:

DATE 06/11/66

Der Herr

TIME 20:00

DL

TIME 1370

RELINQUISHED BY:

DATE _____

RECEIVED BY:

DATE

	TIME
1	10:00
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3	10:30
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149	47:00
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151	47:30
152	47:45
153	48:00
154	48:15
155	

TIME

1

TIME

FOR LAB USE ONLY

COOLER SEAL INTACT?

☒ YES ☐ NO ☐ N/A

SAMPLE TEMPERATURE: 1 °C

FROZEN? ☐ YES ☒ NO

COOLING METHOD?

☒ ICEPACKS ☐ ICE ☐ NONE

SEE WHITEPAPER FOR SOURCE VERSION R 08

ALS COPY



45577

CHAIN OF CUSTODY FORM

PAGE 2 OF 3

L451213

ANALYSIS REQUESTED:[illegible]

General Chemistry
pH cond. hardness,
total alkalinity,
sulphate

Dissolved Metals

NOTES (sample specific comments, due dates, etc.)

☐ FAX ☒ EXCEL ☒ PDF ☐ OTHER:

☐ FAX ☒ EXCEL ☒ PDF ☐ OTHER:

[illegible]

RELINQUISHED BY:

DATE 1/10/2006

RECEIVED BY:

DATE 9/6/61

TIME 20:00

DATE 20.00

RECEIVED BY:

TIME 06/11/61

DATE 12 3

TIME

1

1000

TIME

COOLER SEAL INTACT?

☐ YES ☐ NO ☐ N/A

SAMPLE TEMPERATURE: 1 °C

FROZEN? ☐ YES ☐ NO

COOLING METHOD?

☐ ICEPACKS ☐ ICE ☐ NONE

SEE WHITEPAPER FOR SOURCE VERSIONS 08

ALS COPY



45576

SEE WHITEPAPER FOR SOURCE VERSIONR_08

Appendix B

Quality Assurance (QA/QC) of Samples 2006



Appendix B. Summary of QA/QC

June 2006 Sampling

ALS Report ID	X7089	X7089		X7094	X7094		X7095	X7095		X7433	X7433		X7471	X7471	
Date submitted	12/06/2006	12/06/2006		12/06/2006	12/06/2006		12/06/2006	12/06/2006		19/06/2006	19/06/2006		19/06/2006	19/06/2006	
Date of report	04/07/2006	04/07/2006		29/06/2006	29/06/2006		05/07/2006	05/07/2006		05/07/2006	05/07/2006		10/07/2006	10/07/2006	
RESULTS OF ANALYSIS															
	sample	replicate	RPD (%)	sample	replicate	RPD (%)	sample	replicate	RPD (%)	sample	replicate	RPD (%)	sample	replicate	RPD (%)
Sample ID	X24D-96-R	X24D-96-R		X17B	X17B-R		P03-01-01	P03-01-01-R		P03-03-01	P03-03-01-R		SRK-04-3A	SRK-04-3A-R	
Date Sampled	09/06/2006	09/06/2006		08/06/2006	08/06/2006		09/06/2006	09/06/2006		15/06/2006	15/06/2006		14/06/2006	14/06/2006	
Time Sampled	11:47	11:47		17:19	17:20		9:00	8:30		13:55	13:55		9:30	9:30	
ALS Sample ID	16	17		4	5		2	1		1	9		6	7	
Physical Tests															
Conductivity (uS/cm)	2710	2730	0.7	894	897	0.3	417	418	0.2	495	493	0.4	6530	6540	0.2
Hardness CaCO3	1640	1670	1.8	474	479	1.0	222	204	8.5	270	257	4.9	3950	4000	1.3
pH	7.58	7.65	0.9	7.96	7.99	0.4	8.14	8.12	0.2	8.08	8.01	0.9	6.12	6.09	0.5
Dissolved Anions															
Alkalinity-Total CaCO3	399	405	1.5	454	424	6.8	218	219	0.5	287	284	1.1	48.2	43.6	10.0
Bromide Br	-	-		-	-		-	-		<0.050	<0.050		-	-	
Sulphate SO4	1410	1370	2.9	111	109	1.8	20.4	22.6	10.2	3.46	3.33	3.8	5510	5660	2.7
Dissolved Metals															
Aluminium D-Al	<0.050	<0.050		<0.010	<0.010		<0.005	0.0107		<0.0050	<0.0050		0.73	0.64	13.1
Antimony D-Sb	<0.0050	<0.0050		<0.0010	<0.0010		<0.00050	<0.00050		<0.00050	<0.00050		<0.050	<0.050	
Arsenic D-As	<0.0050	<0.0050		<0.0010	<0.0010		0.00524	0.00480	8.8	0.00855	0.00838	2.0	<0.050	<0.050	
Barium D-Ba	0.024	0.022	8.7	0.255	0.256	0.4	0.113	0.109	3.6	0.254	0.255	0.4	<0.040	<0.040	
Beryllium D-Be	<0.010	<0.010		<0.0020	<0.0020		<0.0010	<0.0010		<0.0010	<0.0010		<0.10	<0.10	
Boron D-B	<0.10	<0.10		<0.10	<0.10		<0.10	<0.10		<0.10	<0.10		<0.20	<0.20	
Cadmium D-Cd	0.00295	0.00273	7.7	<0.000034	<0.000034		<0.000017	<0.000017		<0.000017	<0.000017		0.0144	0.0170	16.6
Calcium D-Ca	487	496	1.8	128	130	1.6	66.0	60.6	8.5	78.6	76.5	2.7	399	395	1.0
Chromium D-Cr	<0.010	<0.010		<0.0020	<0.0020		<0.0010	<0.0010		<0.0010	<0.0010		<0.10	<0.10	
Cobalt D-Co	0.0414	0.0430	3.8	<0.00060	<0.00060		<0.00030	<0.00030		0.00151	0.00153	1.3	0.437	0.433	0.9
Copper D-Cu	<0.010	<0.010		<0.0020	<0.0020		<0.0010	0.0101		<0.0010	<0.0010		<0.10	<0.10	
Iron D-Fe	<0.030	<0.030		2.67	2.72	1.9	5.02	5.75	13.6	3.40	3.34	1.8	694	688	0.9
Lead D-Pb	<0.0050	<0.0050		<0.0010	<0.0010		0.00072	0.0289	189.6	<0.00050	<0.00050		<0.050	<0.050	
Lithium D-Li	<0.050	<0.050		0.032	0.032	0.0	0.0148	0.0140	5.6	0.0170	0.0164	3.6	<0.50	<0.50	
Magnesium D-Mg	102	104	1.9	37.3	37.6	0.8	13.9	12.8	8.2	17.9	16.1	10.6	718	732	1.9
Manganese D-Mn	44.7	45.6	2.0	0.413	0.415	0.5	0.161	0.178	10.0	0.123	0.126	2.4	66.7	64.5	3.4
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	<0.010	<0.010		<0.0020	<0.0020		0.0033	0.0031	6.3	0.0023	0.0021	9.1	<0.10	<0.10	
Nickel D-Ni	0.177	0.184	3.9	<0.0020	<0.0020		<0.0010	<0.0010		<0.0010	<0.0010		0.74	0.73	1.4
Potassium D-K	6.4	6.0	6.5	2.6	2.6	0.0	<2.0	<2.0		2.3	2.1	9.1	8.7	8.7	0.0
Selenium D-Se	<0.010	<0.010		<0.0020	<0.0020		<0.0010	<0.0010		<0.0010	<0.0010		<0.10	<0.10	
Silver D-Ag	<0.00020	<0.00020		<0.000040	<0.000040		<0.000020	0.000022		<0.000020	<0.000020		<0.0020	<0.0020	
Sodium D-Na	49.3	45.5	8.0	34.6	34.7	0.3	7.9	7.2	9.3	10.2	9.9	3.0	54.9	55.4	0.9
Thallium D-Tl	<0.0020	<0.0020		<0.00040	<0.00040		<0.00020	<0.00020		<0.00020	<0.00020		<0.020	<0.020	
Tin D-Sn	<0.0050	<0.0050		<0.0010	<0.0010		<0.00050	<0.00050		<0.00050	<0.00050		<0.050	<0.050	
Titanium D-Ti	<0.010	<0.010		<0.010	<0.010		<0.010	<0.010		<0.010	<0.010		<0.020	<0.020	
Uranium D-U	0.0053	0.0056	5.5	0.00164	0.00167	1.8	0.00027	0.00026	3.8	0.00047	0.00046	2.2	<0.020	<0.020	
Vanadium D-V	<0.030	<0.030		<0.030	<0.030		<0.030	<0.030		<0.030	<0.030		<0.060	<0.060	
Zinc D-Zn	0.290	0.290	0.0	0.0407	0.0401	1.5	<0.0050	0.127		<0.005	0.0077		291	288	1.0

does not satisfy PQL, therefore RPD not useful

Appendix B. Summary of QA/QC

August 2006 Sampling

ALS Report ID	X9793	X9793	
Date submitted	08/08/2006	08/08/2006	
Date of report	21/08/2006	21/08/2006	
RESULTS OF ANALYSIS			
	sample	split	RPD(%)
Sample ID	P03-08-03	P03-08-03-S	
Date Sampled	02/08/2006	02/08/2006	
Time Sampled	10:20	10:20	
ALS Sample ID	8	16	
Physical Tests			
Conductivity (uS/cm)	530	533	0.6
Hardness CaCO3	308	291	5.7
pH	7.95	7.99	0.5
Dissolved Anions			
Alkalinity-Total CaCO3	228	236	3.4
Sulphate SO4	67.7	68.2	0.7
Dissolved Metals			
Aluminum D-Al	<0.010	<0.010	
Antimony D-Sb	<0.0010	<0.0010	
Arsenic D-As	<0.0010	<0.0010	
Barium D-Ba	0.196	0.185	5.8
Beryllium D-Be	<0.0020	<0.0020	
Boron D-B	<0.10	<0.10	
Cadmium D-Cd	0.000119	0.000127	6.5
Calcium D-Ca	85.3	80.9	5.3
Chromium D-Cr	<0.0020	<0.0020	
Cobalt D-Co	0.00061	0.00062	1.6
Copper D-Cu	0.0026	0.0025	3.9
Iron D-Fe	0.030	<0.030	
Lead D-Pb	<0.0010	<0.0010	
Lithium D-Li	<0.010	<0.010	
Magnesium D-Mg	23.0	21.8	5.4
Manganese D-Mn	3.88	3.83	1.3
Mercury D-Hg	<0.000020	<0.000020	
Molybdenum D-Mo	<0.0020	<0.0020	
Nickel D-Ni	0.0194	0.0197	1.5
Potassium D-K	<2.0	<2.0	
Selenium D-Se	<0.0020	<0.0020	
Silver D-Ag	<0.000040	<0.000040	
Sodium D-Na	7.9	7.4	6.5
Thallium D-Tl	<0.00040	<0.00040	
Tin D-Sn	<0.0010	<0.0010	
Titanium D-Ti	<0.010	<0.010	
Uranium D-U	0.00256	0.00254	0.8
Vanadium D-V	<0.030	<0.030	
Zinc D-Zn	<0.01	0.013	

Appendix B. Summary of QA/QC

September 2006 Sampling

ALS Report ID	Z3051	Z3051		Z3054	Z3054		Z3054	Z3054		Z3064	Z3064		Z3072	Z3072		Z3083	Z3083		Z3083
Date submitted	27/09/2006	27/09/2006		26/09/2006	26/09/2006		26/09/2006	26/09/2006		27/09/2006	27/09/2006		27/09/2006	27/09/2006		27/09/2006	27/09/2006		27/09/2006
Date of report	12/10/2006	12/10/2006		10/10/2006	10/10/2006		10/10/2006	10/10/2006		12/10/2006	12/10/2006		12/10/2006	12/10/2006		13/10/2006	13/10/2006		13/10/2006
RESULTS OF ANALYSIS																			
	sample	split	RPD (%)	sample	split	RPD (%)	sample	split	RPD (%)	sample	split	RPD (%)	sample	split	RPD (%)	sample	split	RPD (%)	sample
Sample ID	SRK04-3A	SRK04-3A-S		P03-07-05	P03-07-05-S		P03-08-08	P03-08-08-S		P01-03	P01-03-S		P03-01-07	P03-01-07-S		BH-12A	BH-12A-S		BH-14B
Date Sampled	22/09/2006	22/09/2006		20/09/2006	20/09/2006		20/09/2006	20/09/2006		21/09/2006	21/09/2006		21/09/2006	21/09/2006		18/09/2006	18/09/2006		18/09/2006
Time Sampled																			
ALS Sample ID	12	13		7	8		10	11		7	8		7	8		2	3		6
Physical Tests																			
Conductivity (uS/cm)	7360	7150	2.9	1220	1220	0.0	494	493	0.2	2620	2620	0.0	6140	6280	2.3	917	919	0.2	3510
Hardness CaCO ₃	4270	4000	6.5	672	685	1.9	83.8	80.2	4.4	1540	1400	9.5	814	818	0.5	565	541	4.3	2100
pH	5.92	5.78	2.4	7.67	7.74	0.9	7.74	7.90	2.0	7.43	7.47	0.5	4.64	4.32	7.1	7.62	7.63	0.1	7.70
Dissolved Anions																			
Alkalinity-Total CaCO ₃	117	114	2.6	204	193	5.5	121	131	7.9	358	354	1.1	17.2	16.6	3.6	188	178	5.5	441
Sulphate SO ₄	6190	5930	4.3	504	501	0.6	114	113	0.9	1570	1570	0.0	4900	5020	2.4	307	303	1.3	1760
Dissolved Metals																			
Aluminum D-Al	3.83	3.58	6.7	<0.010	0.124		<0.0050	<0.0050		0.227	<0.050		<0.50	<0.50		<0.010	<0.010		<0.050
Antimony D-Sb	<0.050	<0.050		0.0022	0.0023	4.4	0.00147	0.00135	8.5	<0.0025	<0.0025		<0.025	<0.025		<0.0010	<0.0010		<0.0050
Arsenic D-As	<0.050	<0.050		0.0032	0.0033	3.1	0.00103	0.00099	4.0	<0.0050	<0.0050		<0.050	<0.050		<0.0010	<0.0010		<0.0050
Barium D-Ba	0.071	0.045	44.8	<0.020	<0.020		0.022	0.021	4.7	<0.020	<0.020		<0.10	<0.10		0.036	0.036	0.0	<0.020
Beryllium D-Be	<0.10	<0.10		<0.0020	<0.0020		<0.0010	<0.0010		<0.0050	<0.0050		<0.025	<0.025		<0.0020	<0.0020		<0.010
Boron D-B	<0.30	<0.20		<0.10	<0.10		<0.10	<0.10		<0.10	<0.10		<0.50	<0.50		<0.10	<0.10		<0.10
Cadmium D-Cd	0.0320	0.0327	2.2	<0.000034	<0.000034		0.000037	<0.000017		0.00167	0.00174	4.1	<0.0025	<0.0025		0.000198	0.000226	13.2	0.00018
Calcium D-Ca	456	417	8.9	185	188	1.6	18.4	17.6	4.4	446	403	10.1	101	102	1.0	124	119	4.1	509
Chromium D-Cr	<0.10	<0.10		<0.0020	<0.0020		<0.0010	<0.0010		<0.0025	<0.0025		<0.025	<0.025		<0.0020	<0.0020		<0.010
Cobalt D-Co	0.690	0.650	6.0	<0.00060	<0.00060		0.00132	0.00131	0.8	0.0568	0.0574	1.1	<0.025	<0.025		<0.00060	<0.00060		<0.0030
Copper D-Cu	<0.10	<0.10		<0.0020	<0.0020		<0.0010	<0.0010		<0.0050	<0.0050		<0.050	<0.050		0.0020	0.0021	4.9	<0.010
Iron D-Fe	913	846	7.6	19.5	19.9	2.0	<0.030	<0.030		0.236	0.225	4.8	2620	2650	1.1	<0.030	<0.030		<0.030
Lead D-Pb	0.335	0.280	17.9	<0.0010	<0.0010		0.00094	0.00089	5.5	<0.0050	<0.0050		<0.050	<0.050		<0.0010	<0.0010		<0.0050
Lithium D-Li	<0.50	<0.50		<0.010	<0.010		0.0140	0.0144	2.8	<0.050	<0.050		<0.25	<0.25		0.018	0.018	0.0	<0.050
Magnesium D-Mg	760	718	5.7	50.8	52.2	2.7	9.17	8.81	4.0	103	94.9	8.2	137	137	0.0	61.7	58.9	4.6	201
Manganese D-Mn	78.7	75.6	4.0	5.18	5.28	1.9	0.0350	0.0338	3.5	48.4	48.6	0.4	18.0	18.6	3.3	0.0155	0.0156	0.6	<0.0030
Mercury D-Hg	0.000026	0.000028	7.4	<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	<0.10	<0.10		0.0069	0.0070	1.4	0.0339	0.0326	3.9	<0.0050	<0.0050		0.133	0.138	3.7	<0.0020	<0.0020		<0.010
Nickel D-Ni	1.15	1.12	2.6	<0.0020	<0.0020		<0.0010	<0.0010		0.116	0.117	0.9	<0.25	<0.25		0.0077	0.0080	3.8	<0.010
Potassium D-K	11.6	13.4	14.4	3.2	3.4	6.1	10.1	9.6	5.1	-	-		-	-		2.4	2.4	0.0	3.3
Selenium D-Se	<0.10	<0.10		<0.0020	<0.0020		<0.0010	<0.0010		<0.0050	<0.0050		<0.050	<0.050		<0.0020	<0.0020		<0.010
Silver D-Ag	<0.0020	<0.0020		<0.000040	<0.000040		<0.000020	<0.000020		<0.00025	<0.00025		<0.0025	<0.0025		<0.000040	<0.000040		<0.00020
Sodium D-Na	58.2	55.8	4.2	33.0	34.7	5.0	75.1	72.9	3.0	41.1	41.7	1.4	465	469	0.9	5.6	5.4	3.6	14.4
Thallium D-Tl	<0.020	<0.020		<0.00040	<0.00040		<0.00020	<0.00020		<0.0010	<0.0010		<0.010	<0.010		<0.00040	<0.00040		<0.0020
Tin D-Sn	<0.050	<0.050		<0.0010	<0.0010		<0.00050	<0.00050		-	-		-	-		<0.0010	<0.0010		<0.0050
Titanium D-Ti	0.063	0.082	26.2	<0.010	<0.010		<0.010	<0.010		<0.050	<0.050		<0.25	<0.25		<0.010	<0.010		<0.010
Uranium D-U	<0.020	<0.020		0.00811	0.00831	2.4	<0.00020	<0.00020		0.0071	0.0070	1.4	<0.010	<0.010		0.00451	0.00443	1.8	0.156
Vanadium D-V	0.128	<0.080		<0.030	<0.030		<0.030	<0.030		0.047	<0.030		<0.15	<0.15		<0.030	<0.030		<0.030
Zinc D-Zn	455	438	3.8	<0.010	0.011		0.0057	0.0113	65.9	0.0175	0.0186	6.1	227	233	2.6	0.150	0.155	3.3	0.386

does not satisfy PQL, therefore RPD not useful

Appendix B. Summary of QA/QC

September 2006 Sampling

ALS Report ID	Z3083		Z3084	Z3084		Z3085	Z3085		Z3086	Z3086	
Date submitted	27/09/2006		27/09/2006	27/09/2006		27/09/2006	27/09/2006		27/09/2006	27/09/2006	
Date of report	13/10/2006		12/10/2006	12/10/2006		12/10/2006	12/10/2006		INTERIM	INTERIM	
RESULTS OF ANALYSIS											
	split	RPD (%)	sample	split	RPD (%)	sample	split	RPD (%)	sample	split	RPD (%)
Sample ID	BH-14B-S		SRK05-SP-4B	SRK05-SP-4B-S		P96-9A	P96-9A-S		P03-03-03	P03-03-03-S	
Date Sampled	18/09/2006		20/09/2006	20/09/2006		19/09/2006	19/09/2006		22/09/2006	22/09/2006	
Time Sampled											
ALS Sample ID	7		15	16		7	9		3	4	
Physical Tests											
Conductivity (uS/cm)	3500	0.3	6140	6160	0.3	3070	3080	0.3	906	906	0.0
Hardness CaCO3	2080	1.0	4830	4870	0.8	2250	2160	4.1	405	412	1.7
pH	7.70	0.0	6.66	6.72	0.9	7.56	7.57	0.1	5.63	5.59	0.7
Dissolved Anions											
Alkalinity-Total CaCO3	419	5.1	203	208	2.4	509	507	0.4	8.2	9.0	9.3
Sulphate SO4	1790	1.7	3660	5080	32.5	1700	1690	0.6	469	466	0.6
Dissolved Metals											
Aluminum D-Al	<0.050		<0.50	<0.50		<0.025	<0.025		0.200	0.201	0.5
Antimony D-Sb	<0.0050		<0.050	<0.050		<0.0025	<0.0025		<0.0010	<0.0010	
Arsenic D-As	<0.0050		<0.050	<0.050		<0.0025	<0.0025		<0.0010	<0.0010	
Barium D-Ba	<0.020		<0.060	<0.060		0.077	0.068	12.4	<0.020	<0.020	
Beryllium D-Be	<0.010		<0.10	<0.10		<0.0050	<0.0050		<0.0020	<0.0020	
Boron D-B	<0.10		<0.30	<0.30		<0.10	<0.10		<0.10	<0.10	
Cadmium D-Cd	0.00018	0.0	0.0722	0.0719	0.4	0.000692	0.000597	14.7	0.0111	0.0111	0.0
Calcium D-Ca	504	1.0	497	500	0.6	395	382	3.3	122	124	1.6
Chromium D-Cr	<0.010		<0.10	<0.10		<0.0050	<0.0050		<0.0020	<0.0020	
Cobalt D-Co	<0.0030		<0.030	<0.030		<0.0015	<0.0015		0.211	0.213	0.9
Copper D-Cu	<0.010		<0.10	<0.10		<0.0050	<0.0050		<0.0020	<0.0020	
Iron D-Fe	<0.030		<0.090	<0.090		0.040	<0.030		40.7	41.5	1.9
Lead D-Pb	<0.0050		<0.050	<0.050		<0.0025	<0.0025		<0.0010	<0.0010	
Lithium D-Li	<0.050		<0.50	<0.50		<0.025	<0.025		0.034	0.034	0.0
Magnesium D-Mg	199	1.0	871	880	1.0	306	292	4.7	24.5	24.9	1.6
Manganese D-Mn	0.0030		132	133	0.8	0.0738	0.0652	12.4	15.8	16.0	1.3
Mercury D-Hg	<0.000020		<0.000020	<0.000020		<0.000020	<0.000020		<0.000020	<0.000020	
Molybdenum D-Mo	<0.010		<0.10	<0.10		<0.0050	<0.0050		<0.0020	<0.0020	
Nickel D-Ni	<0.010		2.69	2.69	0.0	0.0073	0.0072	1.4	0.243	0.243	0.0
Potassium D-K	3.3	0.0	12.1	12.8	5.6	5.7	5.2	9.2	3.5	3.6	2.8
Selenium D-Se	<0.010		<0.10	<0.10		<0.0050	<0.0050		<0.0020	<0.0020	
Silver D-Ag	<0.00020		<0.0020	<0.0020		<0.00010	<0.00010		<0.000040	<0.000040	
Sodium D-Na	14.3	0.7	23.5	24.7	5.0	16.7	14.5	14.1	9.1	9.2	1.1
Thallium D-Tl	<0.0020		<0.020	<0.020		<0.0010	<0.0010		<0.00040	<0.00040	
Tin D-Sn	<0.0050		<0.050	<0.050		<0.0025	<0.0025		<0.0010	<0.0010	
Titanium D-Ti	<0.010		<0.030	<0.030		<0.010	<0.010		<0.010	<0.010	
Uranium D-U	0.147	5.9	<0.020	<0.020		0.0399	0.0387	3.1	<0.00040	<0.00040	
Vanadium D-V	<0.030		0.097	0.107	9.8	<0.030	<0.030		<0.030	<0.030	
Zinc D-Zn	0.391	1.3	373	371	0.5	0.091	0.061	39.5	14.6	14.7	0.7

Appendix B. Summary of QA/QC

November 2006 Sampling

ALS Report ID	L451213	L451213		L451213	L451213	
Date submitted	06-Nov-06	06-Nov-06		06-Nov-06	06-Nov-06	
Date of report	23-Nov-06	23-Nov-06		23-Nov-06	23-Nov-06	
RESULTS OF ANALYSIS						
	sample	split	RPD (%)	sample	split	RPD (%)
Sample ID	P03-04-04	P03-04-04-S		P03-08-03	P03-08-03-S	
Date Sampled	02-Nov-06	02-Nov-06		01-Nov-06	01-Nov-06	
Time Sampled	09:11	09:11		09:11	09:11	
ALS Sample ID	L451213-6	L451213-7		L451213-10	L451213-11	
Physical Tests						
Conductivity (uS/cm)	503	505	0.4	409	413	1.0
Hardness CaCO3	1180	1180	0.0	741	742	0.1
pH	7.56	7.63	0.9	7.64	7.78	1.8
Dissolved Anions						
Alkalinity-Total CaCO3	222	221	0.5	302	295	2.3
Sulphate SO4	459	464	1.1	153	152	0.7
Dissolved Metals						
Aluminum D-Al	<0.025	<0.025		<0.025	<0.025	
Antimony D-Sb	<0.0025	<0.0025		<0.0025	<0.0025	
Arsenic D-As	0.0056	0.0057	1.8	<0.0025	<0.0025	
Barium D-Ba	0.060	0.062	3.3	0.136	0.136	0.0
Beryllium D-Be	<0.0050	<0.0050		<0.0050	<0.0050	
Boron D-B	<0.20	<0.20		<0.20	<0.20	
Cadmium D-Cd	<0.000085	<0.000085		0.000220	0.000152	36.6
Calcium D-Ca	162	163	0.6	117	118	0.9
Chromium D-Cr	<0.0050	<0.0050		<0.0050	<0.0050	
Cobalt D-Co	0.0054	0.0056	3.6	<0.0015	<0.0015	
Copper D-Cu	<0.0050	<0.0050		<0.0050	<0.0050	
Iron D-Fe	5.43	5.48	0.9	0.088	0.076	14.6
Lead D-Pb	<0.0025	<0.0025		<0.0025	<0.0025	
Lithium D-Li	<0.025	<0.025		<0.025	<0.025	
Magnesium D-Mg	23.6	24.0	1.7	28.7	28.8	0.3
Manganese D-Mn	5.82	6.05	3.9	6.68	6.73	0.7
Mercury D-Hg	<0.000020	<0.000020		<0.000020	<0.000020	
Molybdenum D-Mo	<0.0050	<0.0050		<0.0050	<0.0050	
Nickel D-Ni	<0.0050	<0.0050		0.0265	0.0262	1.1
Potassium D-K	<4.0	<4.0		<4.0	<4.0	
Selenium D-Se	<0.0050	<0.0050		<0.0050	<0.0050	
Silver D-Ag	<0.00010	<0.00010		<0.00010	<0.00010	
Sodium D-Na	85.1	86.2	1.3	13.0	13.0	0.0
Thallium D-Tl	<0.0010	<0.0010		<0.0010	<0.0010	
Tin D-Sn	<0.0025	<0.0025		<0.0025	<0.0025	
Titanium D-Ti	<0.020	<0.020		<0.020	<0.020	
Uranium D-U	0.0026	0.0028	7.4	0.0045	0.0044	2.2
Vanadium D-V	<0.060	<0.060		<0.060	<0.060	
Zinc D-Zn	<0.025	<0.025		<0.025	<0.025	

Appendix C

Well Maintenance and Issue Memos





Gartner Lee Limited

Memorandum

to: Memo to file
from: Martin Guilbeault
Cc:
date: November 14, 2006
ref: 60601
re: **Faro Groundwater Monitoring - Condition of wells at location X24-96**

Between August 1st, 2006 and August 3rd, 2006, Gartner Lee Limited staff conducted groundwater sampling for the summer Adaptive Management Plan (AMP) and for the routine groundwater wells that could not be sampled during the spring event due to frozen conditions. An investigation of wells at location X24-96 was also conducted at this time using a down-hole camera to determine the cause of previous sampling difficulties and determine the present condition of the wells. This memo outlines the major observations from the 2006 sampling and also from previous sampling events.

Well X24-96 Investigation

Conditions at these wells in August 2006 were as follows:

- **X24-96 A,B,C**
 - all wells are nested in same borehole
 - well X24C is a small diameter (1") PVC well
 - wells X24A-96 and X24B-96 are standard 2" PVC wells
 - there is silica sand filling the annular space between the wells and the protective steel casing
- **X24A-96**
 - bottom is soft at 6.5m (should be 7.5m)
 - used camera, too turbid on Aug. 2nd
 - foot valve had rock in it which clogged the ball valve
 - small rock in foot valve larger should be retained by well screen, well or well-screen may be compromised to allow larger sand or small rocks to enter well
- **X24D-96**
 - well is standard 2" PVC in a single borehole with protective steel casing
 - dipped well, bottom near 29m
 - well can be sampled without any observable issues



- **X24B-96 July 2005 investigation results**

- investigation with down-hole camera revealed sand which has heaved up to 3.69 m btoc
- total depth of well is reportedly 12.05 m

August 2006 investigation results

- investigation with down-hole camera revealed sand which has heaved above the water table to a depth of 3.70 m btoc (photos attached)

- **X24C-96**

- 1" diameter well, down-hole camera does not fit in well
- 11.96m depth to bottom btoc (should be approx. 17m)
- bottom feels soft
- pulled up foot valve, it had sand clogging it (photos attached)
- a change in resistance at approximately 7.4 m below top of pipe during lowering of the sample tube suggests a joint at this depth

Recommendations

The following recommendations are offered based on the observations noted above:

- Well X24A-96 can presently be sampled, however, the presence of 1m thick sand / sediment at the bottom of the well may suggest that the well has been compromised or that sediment is accumulating in the well. The condition of this well should be investigated further in 2007 and purging and sampling efforts should attempt to remove sediment from the well.
- Discontinue sampling of X24B-96 and remove from routine groundwater monitoring program.
- Discontinue sampling of X24C-96 and remove from routine groundwater monitoring program.
- We also note that wells X24-96 are included in the current water license. Should these wells be removed from the routine groundwater monitoring program, the water license references should be updated accordingly.
- We also note that wells at X24-96 are included in the site Adaptive Management Plan (AMP). Consequently, the AMP should be updated to reflect any changes made to the site sampling program and account for potentially inoperable wells at location X24-96

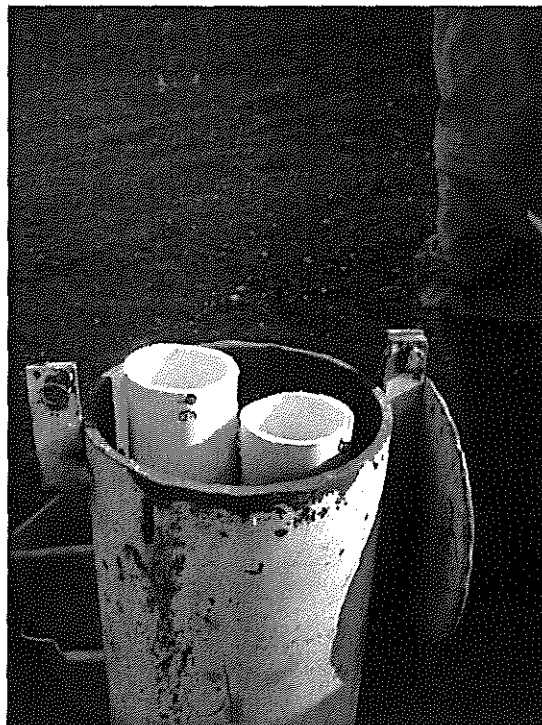


Data from wells X24B-96 and X24C-96 should be used with caution and water quality data should be properly reviewed prior to interpretation. Should these wells be investigated further, it may be possible to flush out sand within the casing by jetting of water or air under pressure. These wells should be properly decommissioned if it is deemed that these wells are to be inoperable in the long term.

These observations should also be reported in the 2006 Faro Mine Groundwater Monitoring Report.



Photograph 1. Wells X25-96 prior to shortening the stickup (Sept. 21, 2006).



Photograph 2. Wells X25-96 after shortening stickup (Sept 21, 2006).



Gartner Lee Limited

Memorandum

to: Memo to file
from: Martin Guilbeault
Cc:
date: November 20, 2006
ref: 60601
re: **Faro Groundwater Monitoring - Condition of wells at location BH7**

On September 18th 2006, Gartner Lee Limited staff conducted routine groundwater sampling at the Faro Mine. As part of this sampling event, it was requested that wells BH7 S,D be examined and monitored for water levels and water quality. Some important information was collected regarding the condition of these wells. It was also noted during a meeting on October 20th with the Faro Closure Office to review the groundwater monitoring program, that data from wells BH7 S,D may have been used to make interpretations about hydrogeology of the area. These interpretations may be affected by observations stated herein. This memo outlines the major observations from the 2006 investigation.

Well BH7 Investigation

Conditions at these wells on September 18th, 2006 were as follows:

- **BH7 S,D**
 - wells are installed in separate boreholes
 - both wells BH7S and BH7D are standard 2" PVC wells
 - neither of the wells have protective steel casings
 - water/ground staining lines are evident on both wells within approximately 0.50 m of ground surface
- **BH7S**
 - stickup of well as measured prior to sampling efforts: 1.41 m above ground
 - well appeared to be in good condition but well is slightly inclined away from waste rock slope
 - frost-jacking marks at base of well
 - a black mark was put at base of well at ground surface
- **BH7D**
 - stickup of well as measured prior to sampling efforts: 0.95 m above ground
 - PVC well appears slightly brittle and cracked and is slightly inclined away from waste rock slope



- sampling tubing present in the well was pulled up as it was shorter than the top of the well and the foot valve was replaced
- the new foot valve immediately got clogged with sand, it was removed, cleaned and re-inserted into the well, however it was no longer possible to insert it to the bottom of the well
- upon examining the inside of the well with a flashlight, soil was visible along the interior of the well casing within a few meters of ground surface
- the well casing was found to be loose within the ground and the top section of PVC (1.82 m in length) was pulled up, leaving a hole in the ground (relevant photos are attached)
- it appeared from looking down the well / hole that it deviated within a few meters of ground surface
- no rubber O-ring was present on the section that was removed from the ground
- The shape of the well at the joint was slightly oval and the joint appeared to have been subjected to tension. The joint was cleaned, photographed and the section of casing was re-inserted into the hole as far down as possible but could not be re-threaded onto well.
- stickup after re-insertion of well section: 0.76 m above ground (19 cm lower than stickup prior to investigation).
- evidence suggests that well may have been compromised by frost jacking and ground movement (see photographs)
- *Well currently provides a possible pathway for contaminated soil and/or groundwater to flow from the shallow zone near the compromised/open joint, to the deeper groundwater system below the shallow waste soil material. Both wells at BH7 should be decommissioned in 2007.*

Recommendations

The following recommendations are offered based on the observations noted above:

- Well BH7D currently provides a possible pathway for contaminated soil and/or groundwater to flow from the shallow zone near the compromised/open joint, to the deeper groundwater system below the shallow waste soil material. Both wells at BH7 should be decommissioned in 2007. Well BH7D should be examined and conditions documented with a down-hole camera prior to decommissioning.
- The mark at ground surface and well stickup should be monitored at both wells in 2007 to document any changes in position of well relative to ground surface
- It was noted during a meeting on October 20th, 2006 with the Faro Closure Office to review the groundwater monitoring program that data from BH7 wells may have been used by other consultants to interpret hydrogeological conditions in the area. Possible conclusions and recommendations based on this data should be



reviewed and re-evaluated based on these findings to ensure accuracy of the conclusions.

These observations should also be reported in the 2006 Faro Mine Groundwater Monitoring Report.



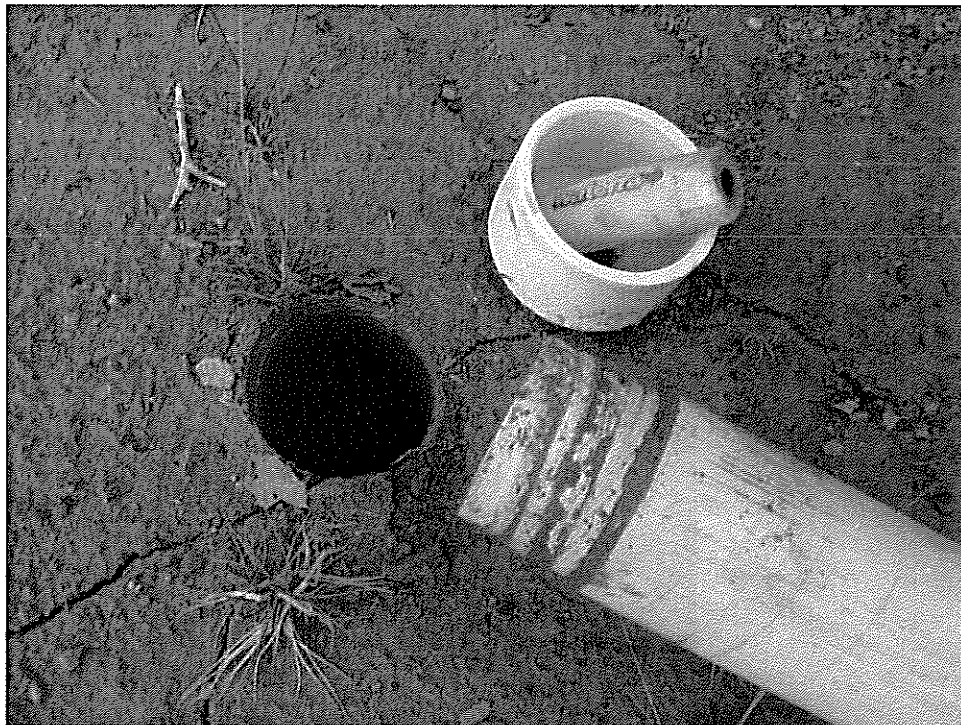
Photograph 1. Wells BH7S (tallest) and BH7D (shortest) – prior to investigation



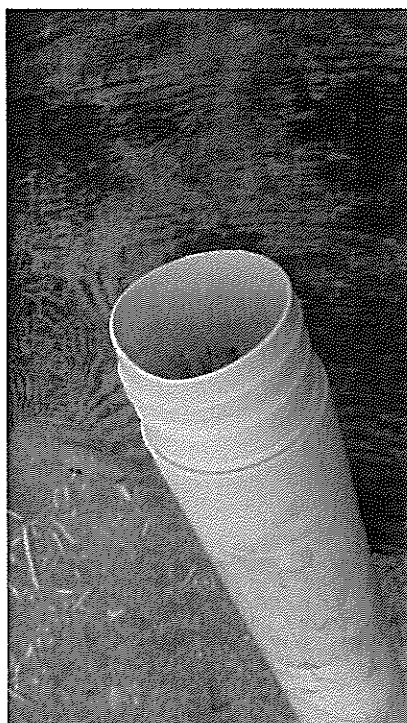
Photograph 2. Wells BH7S (tallest) and BH7D (shortest) – prior to investigation



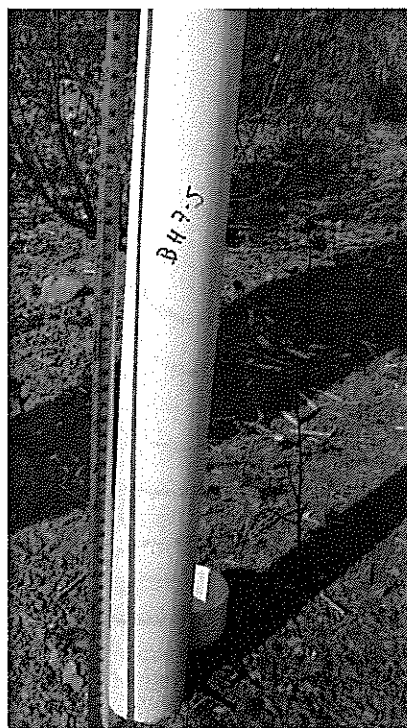
Photograph 3. Frost jacking lines at base of well BH7S



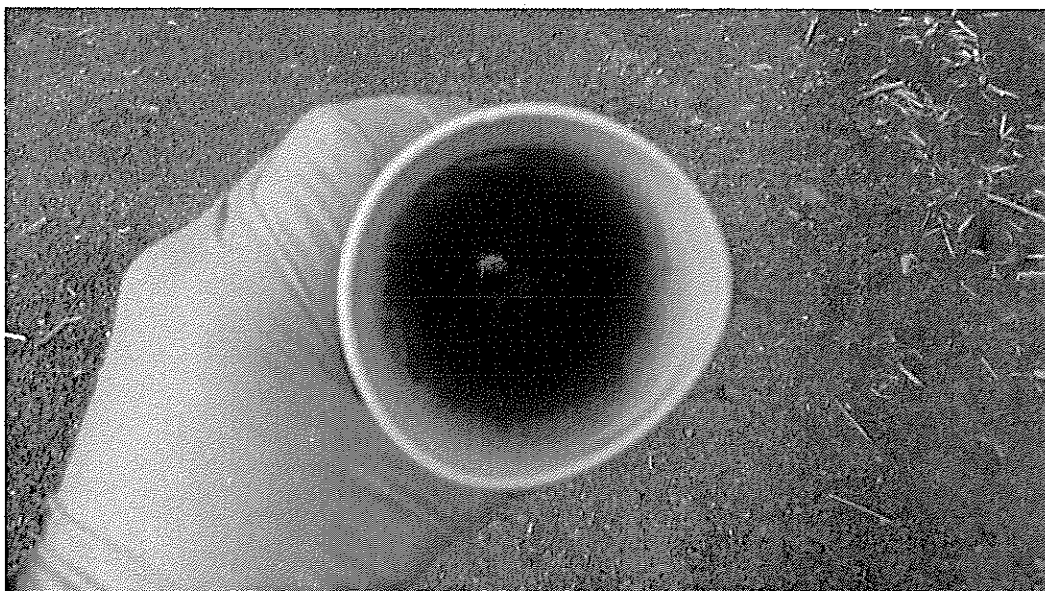
Photograph 4. Well BH7D after top section pulled out of ground leaving open hole down to well in ground. Foot valve clogged with soil.



Photograph 5. Top section of well casing at BH7D after it was removed from ground and cleaned.



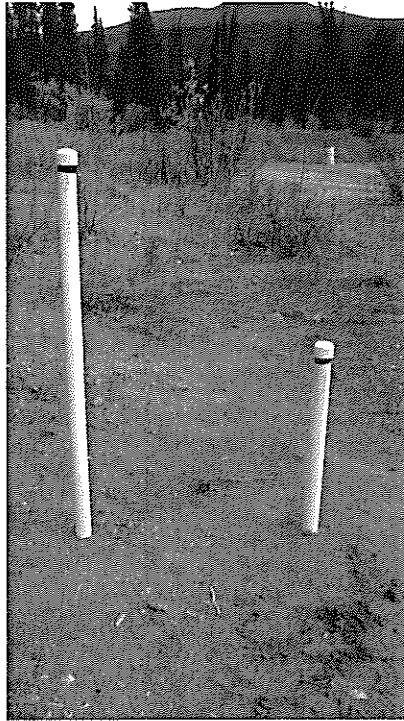
Photograph 6. Well BH7S showing frost jacking lines at base of well



Photograph 7. Top section of well casing at BH7D after it was removed from ground. Joint is no longer circular and appears to have been strained



Photograph 8. Wells BH7S (tallest) and BH7D (shortest) – after investigation and BH7D pushed deeper



Photograph 9. Wells BH7S (tallest) and BH7D (shortest) – after investigation and BH7D pushed deeper



Gartner Lee Limited

Memorandum

to: Memo to file
from: Martin Guilbeault
Cc:
date: November 20, 2006
ref: 60601
re: **Faro Groundwater Monitoring - Condition of wells at location P96-9**

Between August 1st, 2006 and August 3rd, 2006, Gartner Lee Limited staff conducted groundwater sampling for the summer adaptive management plan (AMP) and for the routine groundwater wells that could not be sampled during the spring event due to frozen conditions. During this time, a few issues were documented at location P96-9 which has 2 nested monitors (A and B). Well P96-9B which had become inoperable, was replaced by a new well BH05-09-Br installed by SRK in 2005. A down-hole camera was used to examine the old well and document its conditions as it might relate to sampling difficulties at other locations throughout the site. This memo outlines observations from the 2006 sampling.

Well P96-9 Investigation

Conditions at these wells in August 2006 were as follows:

P 96-9 A/B

- Both wells are nested in same borehole
- Both wells are standard 2" PVC wells
- there is no silica sand filling the annular space between the wells and the protective steel casing
- protective steel casing and wells are tilted

P96-9A

- water level is 5.71 m btoc
- bottom is soft at 9.30 m btoc
- foot valve on sampling tubing is clogged with what appears to be mostly uniform rounded silica sand.
- Conditions in the well were too turbid in P96-9A to examine with down-hole camera

P96-9B

- water level is 1.33 m btoc
- down-hole camera was used to examine obstruction at 2.40 m btoc. Well is completely pinched shut and is inoperable.

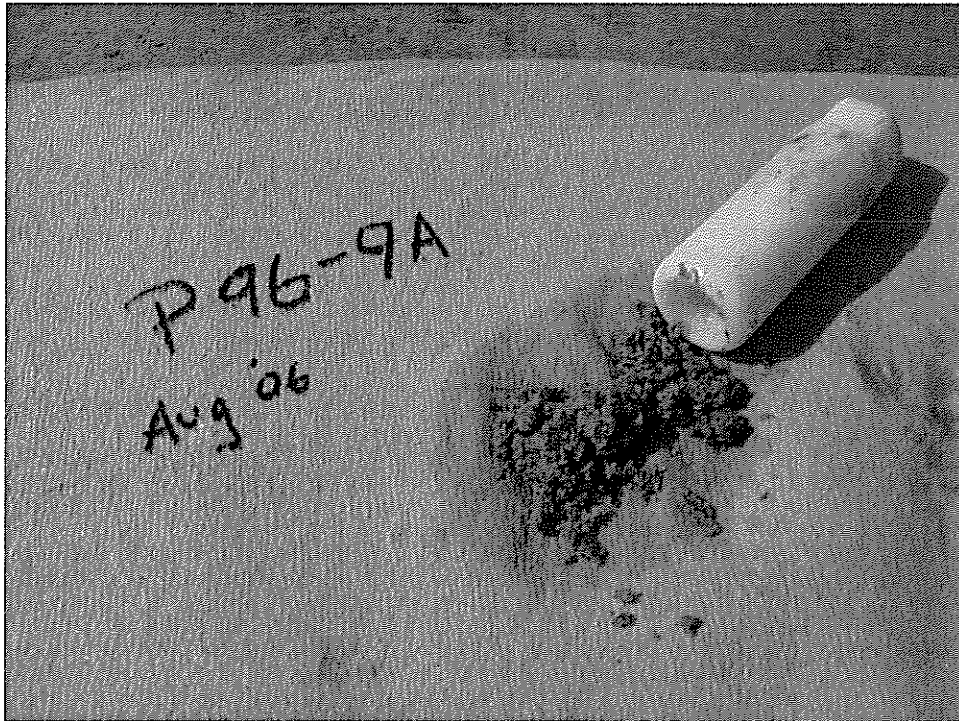


Recommendations

The following recommendations are offered based on the observations noted above:

- Well P96-9B should be properly decommissioned.
- Well P96-9A should be examined with down-hole camera in 2007 to investigate presence of silica sand in well.
- We note that well P96-9B is included in the current water license. Now that the well has been replaced by well BH05-09-Br, the water license should be updated accordingly.

These observations should also be reported in the 2006 Faro Mine Groundwater Monitoring Report.



Photograph 1. Coarse sand clogging foot valve during sampling at P96-9A. Appears to be mostly rounded silica sand.



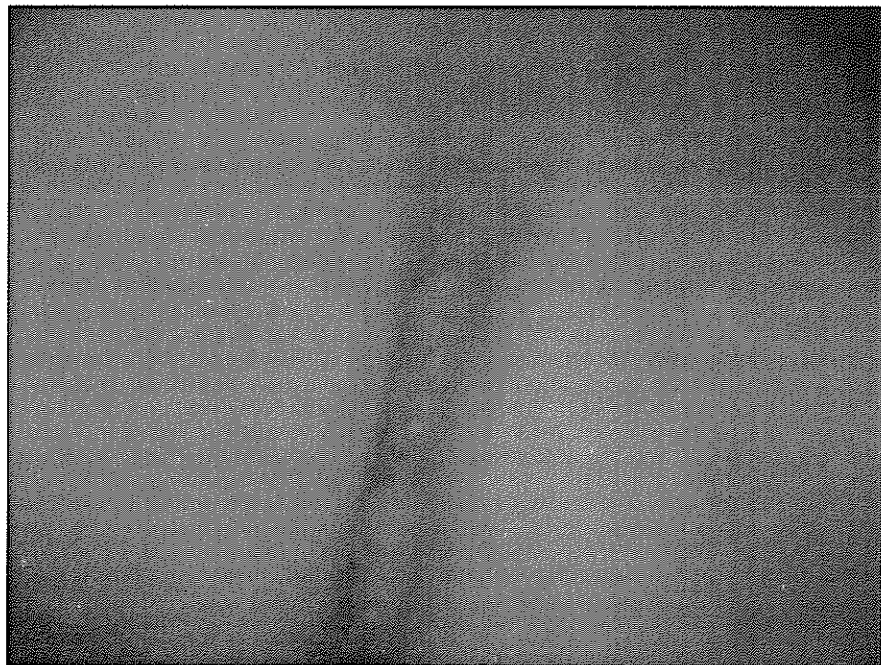
Photograph 2. Protective casing and nested wells at P96-9A/B. Wells and steel casing are tilted.



Photograph 3. Wells at P96-9 A/B. Well P96-9B was capped and taped shut because it is inoperable



Photograph 4. Replacement well BH05-09-Br with wells P96-9 in background



Photograph 5. Well P96-9B is pinched shut at 2.4 m below top of casing.



to: Memo to file
from: Martin Guilbeault
Cc:
date: November 21, 2006
ref: 60601
re: **Faro Groundwater Monitoring – General Observations Related to Well Conditions and Maintenance at Faro Mine, 2006**

During 2006, Gartner Lee Limited staff routinely conducted well maintenance activities at well locations at time of sampling. This memo outlines general maintenance and issues related to wells at the Faro Mine. High priority issues at wells BH7, P03-07, P96-9, X24-96 and X25-96 are documented in separate memorandums. Photos relevant to the wells and issues identified in this memo are attached.

General Well Maintenance and Issues

- **X18A/B**
 - both wells are black ABS plastic wells, 1 1/2" ID
 - no protective casing
 - both wells are nested in the same borehole
 - well X18A usually goes dry after approx. 14L using a suction pump
 - In 2005, it was identified using a down-hole camera that there is a piece of sampling tubing at approximately 9.5m btoc. Although it does not interfere with sampling of the well, this obstruction should be removed if possible to facilitate sampling.
- **P01-11**
 - well is a single 2" PVC well at base of Cross-Valley Dam
 - concrete at the base of the protective steel casing is broken and ground has eroded likely from surface runoff from Dam
 - protective steel casing can be moved back and forth manually
 - the PVC well extends past the top of the steel casing and therefore the steel cover does not close to prevent meteoric water from entering the casing
 - The well stickup should be shortened to allow the steel lid to close. It should also be determined if possible whether the well was originally completed in this manner or if modifications or ground movement has affected the protective steel casing.



- **X21-96 A,B,C**
 - all three monitors are in the same borehole, they have a protective steel casing with the annular space filled with silica sand
 - X21A-96 is a small diameter 1.5" PVC well
 - X21B-96 and X21C-96 are standard 2" PVC monitoring wells
 - In 2005 and 2004, the presence of what appears to be tailings was noted in well X21C-96. In 2005, this was discussed Mr. Christoph Wells of Robertson GeoConsultants personnel responsible for the initial installation and it was noted that this has likely been an issue since installation and that water quality does not seem to be impacted by the presence of tailings. Furthermore, Mr. Wells recalled that analytical tests which may have been performed on the grey material which did confirm that the sediments are tailings. It has not been possible thus far to flush out the tailings material from the well.
- **BH1**
 - well is broken / sheared at ground surface, stickup is 7 cm
 - well is small diameter well with steel drum over it for protection
 - should be fixed by installing a surface stickup (small diameter PVC) in 2007
- **BH10-A/B**
 - both wells are 1" PVC and nested in the same borehole
 - protective steel casing (3.5") and wells are inclined at ground surface at an angle of approximately 34 degrees (from vertical)
 - water levels could be measured in September, 2007
 - both wells have sand in the sample tubing in the wells
 - foot valves clogged with sand and wells could not be sampled or purged
 - if wells are inclined due to frost / ground movement issues they should be removed from the monitoring network and properly decommissioned
- **SRK04-05 A/B**
 - both wells are artesian wells and are nested in the same borehole
 - there is no protective steel casing over the wells
 - There are currently mechanical packers installed in both wells to prevent water from flowing over the top of the casings. These are removed each time the wells are sampled and re-installed after sampling.
 - in September, 2006 both packers were re-installed deeper in each well to allow field staff to reach the top of the packers without having to back-up a vehicle close to the well for higher access



November 21, 2006

- **S2 A/B**
 - both wells are nested in the same borehole
 - there is no protective casing at this location
 - wells appear to be grey 2" plastic wells
 - Well S2A has a joint with a coupling at ground surface which can be removed. Although this facilitates sampling, it also provides a possible pathway for infiltration of surface runoff into the well. It is recommended that this coupling be glued and sealed.
- **S3**
 - well is 2" grey plastic with a total depth of 6.02m
 - there is an extra stickup piece with a coupling which sits on top of the well and protects the sampling tubing
 - The top of well casing reference point is taken to be the bottom of the casing extension. Reference point stickup = 1.12m above ground surface.
 - the casing extension was labeled and clearly marked to avoid future confusion
 - the area around the well is usually wet suggesting an area of groundwater discharge
- **DP3**
 - drive point piezometer installed by SRK in 2005
 - the device is installed on an angle
- **DP4**
 - drive point piezometer installed by SRK in 2005
 - the device is installed on an angle
 - the device has sample tubing and can be sampled
- **TH86-17**
 - well has a steel casing and water from well is usually rusty and turbid
 - Well has an obstruction / joint at 10.17 m btoc which sometimes prevents sampling tubing from extending to bottom of well. This could be further investigated with a down-hole camera in 2007.
- **P01-01 A,B**
 - both wells are nested in the same borehole
 - The wells and protective steel casing had been sheared at ground surface by snow removal equipment in 2004 and were partially rehabilitated in 2005 to allow sampling. This involved removing sand from the wells, removing stuck tubing and replacing the broken stickups.



- In September 2006, stickup on P01-01A was shortened by 0.30 m to allow installation of a protective steel casing. (see photos). The new stickup on well P01-01A is 0.74 m.

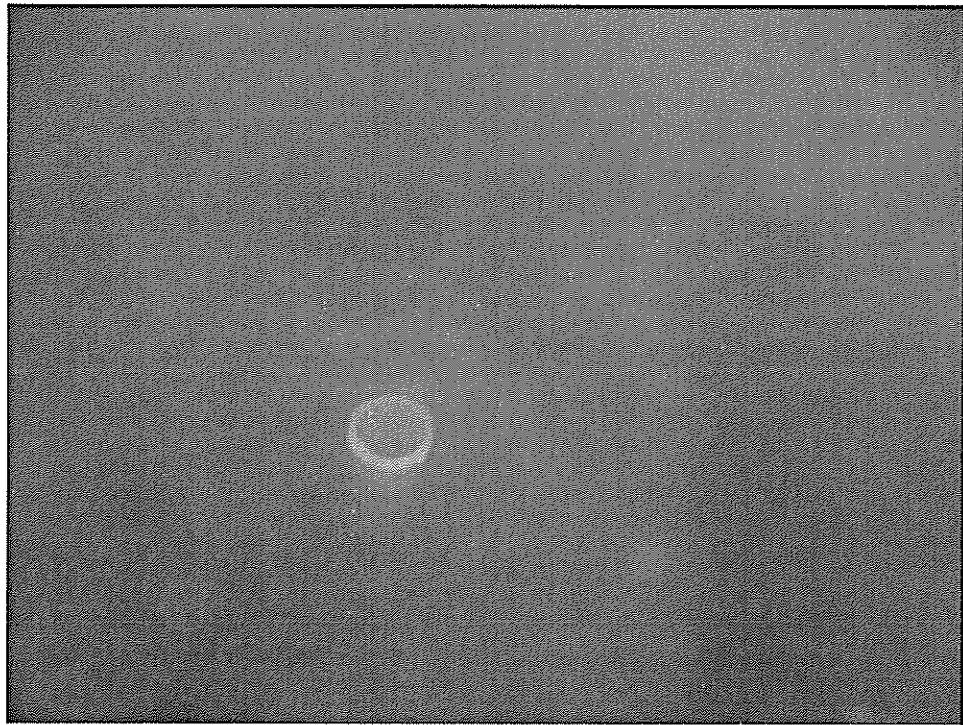
Recommendations

The following recommendations are offered based on the observations noted above:

- Well **X18A** currently has a section of tubing at a depth of approximately 9.5m btoc. Efforts should be made to remove the obstruction to facilitate sampling.
- Well **BH1** should be fixed by installing a small diameter PVC stickup and protective steel casing if the well is identified for long-term monitoring.
- If wells **BH10 A/B** are inclined due to frost / ground movement issues (and were not originally installed inclined which is not likely) suggesting they have been subjected to ground movement, they should be removed from the monitoring network and properly decommissioned. It is currently not recommended that these wells be sampled or measured for water levels to prevent field equipment from getting stuck in the inclined well.
- The well stickup on **P01-11** should be shortened to allow the steel lid to close. It should also be determined if possible whether the well was originally completed in this manner or if modifications or ground movement has affected the protective steel casing.
- Well **X21C-96** has reportedly produced tailings during sampling since the time of installation. Tailings material often clogs the foot valve and causes sampling difficulties. Data from this well should be evaluated carefully. We note that this well is included in the site Water License and therefore should it be removed from routine monitoring, the water license references should be updated accordingly.
- Well **S2A** has a joint with a coupling at ground surface which can be removed. Although this facilitates sampling, it also provides a possible pathway for infiltration of surface runoff into the well. It is recommended that this coupling be glued and sealed.
- Well **TH86-17** has an obstruction / joint at 10.17 m btoc which sometimes prevents sampling tubing from extending to bottom of well. This could be further investigated with a down-hole camera in 2007.



- Wells **P01-01A** and **P01-01B** should be targeted for re-surveying in 2007 to account for changes in well stick-up.
- All relevant well maintenance observations listed in the memo should also be reported in the 2006 Faro Mine Groundwater Monitoring Report.



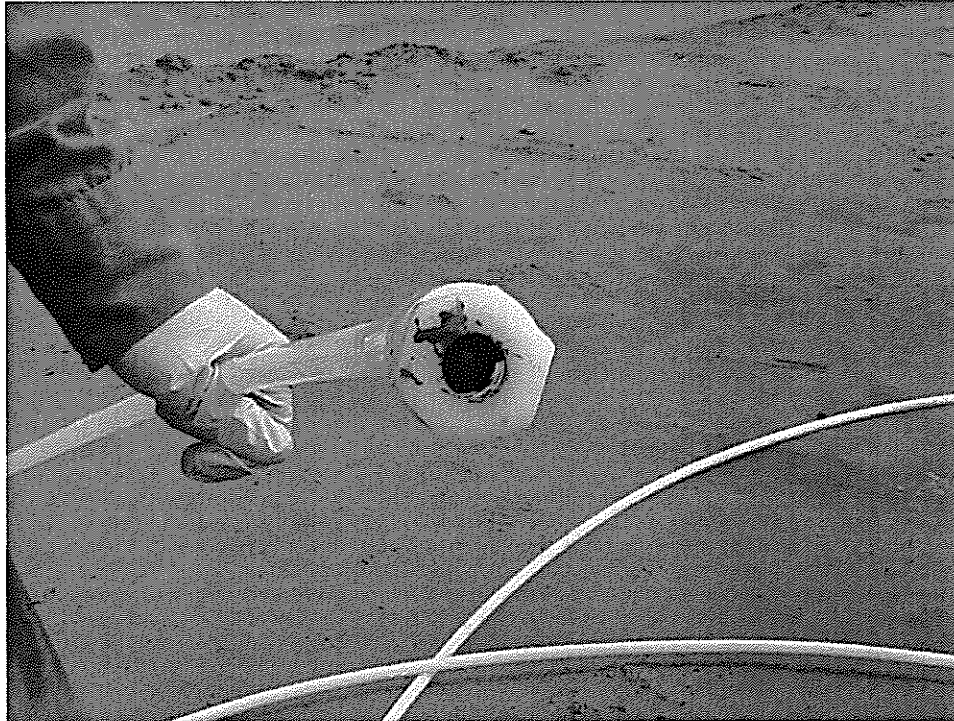
Photograph 1. X18A – Tubing at 9.5 m below TOC (2005)



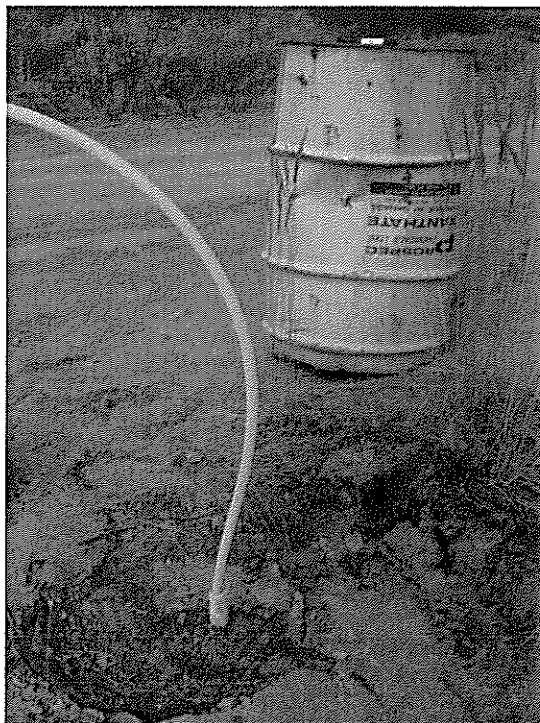
Photograph 2. Well P01-11 at base of Cross-Valley Dam. Concrete around base of well is broken, steel casing is loose and can be moved back and forth manually



Photograph 3. Well X21-96. Wells are nested, silica sand in annular space. X21A-96 is small diameter.
(September, 2006)



Photograph 4. Well X21C-96, foot valve clogged with what appears to be tailings tailings (July, 2005)



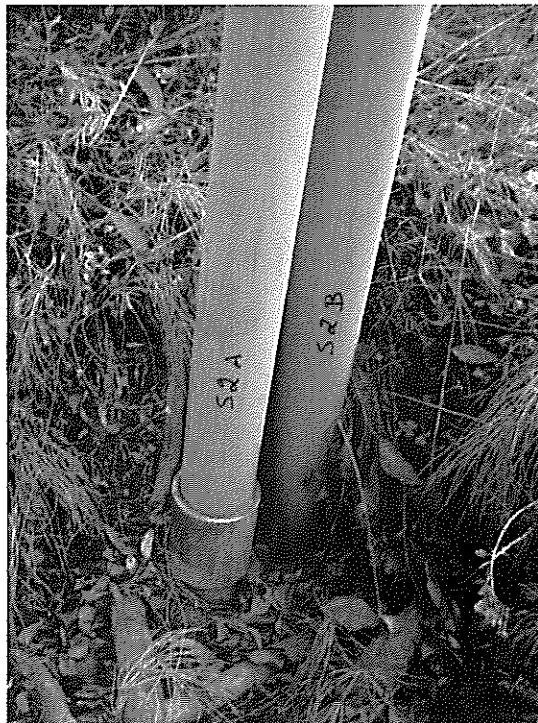
Photograph 5. Well BH11 broken at ground surface (September, 2006)



Photograph 6. Well BH10 A,B, well and steel casing are inclined at ground surface. (September, 2006)



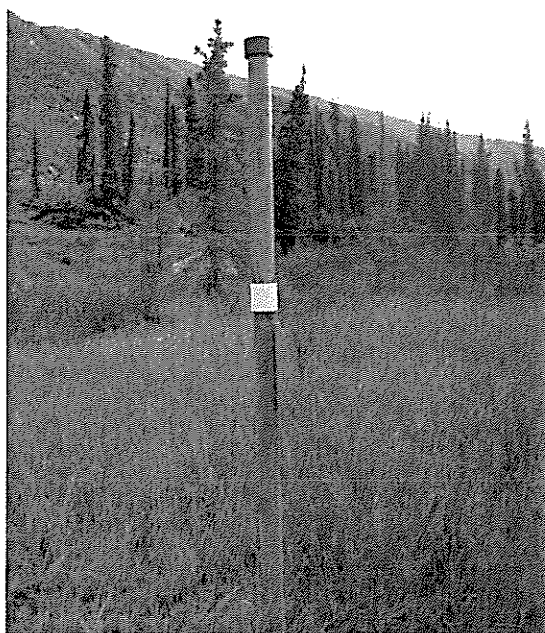
Photograph 7. Well SRK04-05 A,B. Nested artesian wells with mechanical packers. (Sept. 2006)



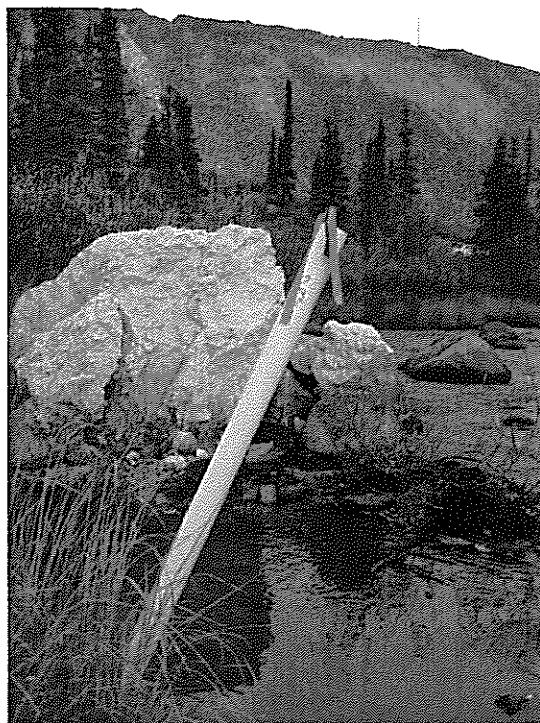
Photograph 8. Wells S2 A,B. Nested Wells. Well S2A has loose coupling at ground surface and top section of well can be removed



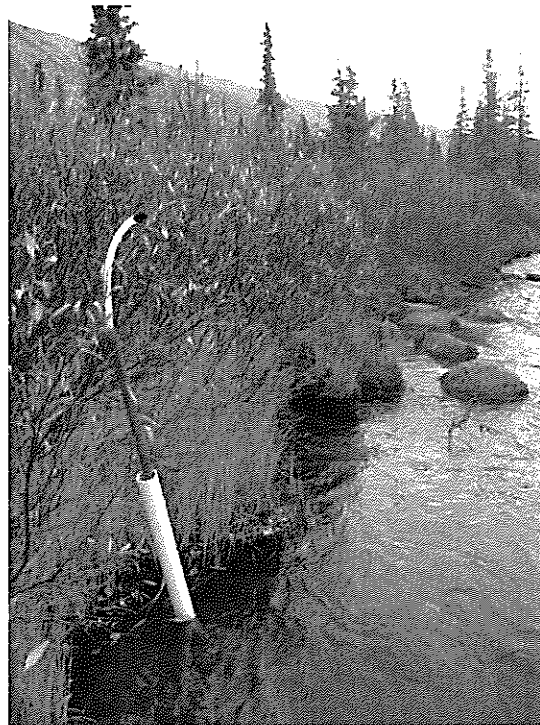
Photograph 9. Well S3 with top part of well casing extension removed. Top of well taken as top of section with tubing sticking out.



Photograph 10. Well S3 with top part of well casing extension. Top of well taken as top of section below white coupling.



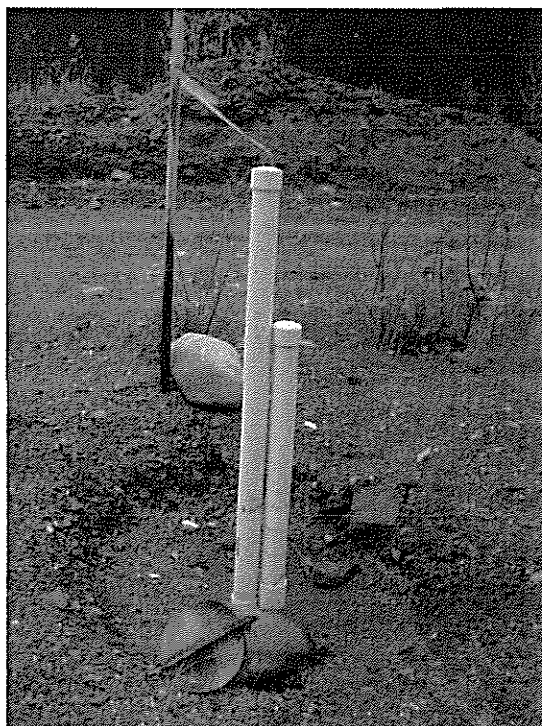
Photograph 11. Drive Point Piezometer DP3. (Sept. 2006)



Photograph 12. Drive Point Piezometer DP4. (Sept. 2006)



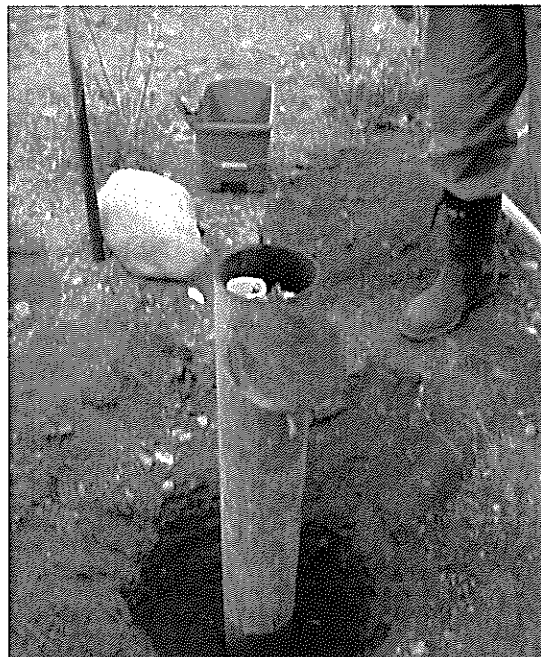
Photograph 13. Well TH86-17, 2" steel well with obstruction / joint at 10.17 m btoc which sometimes prevents lowering of sample tubing to bottom of well at 15.10 m btoc.



Photograph 14. Well P01-01A (shortest) and P01-01B (longest) prior to rehabilitation. (Sept. 2006)



Photograph 15. Well P01-01 A,B during rehabilitation. 0.30 m was cut from stickup at P01-01B.



Photograph 16. P01-01 A,B during rehabilitation, well stick-up was shortened, protective steel casing was installed, ground was leveled. (Sept. 2006). New stick-ups from ground surface are : P01-01A = 0.74 m , P01-01B = 0.65 m)



Gartner Lee Limited

memorandum

to: Memo to file
from: Martin Guilbeault
Cc:
date: November 27, 2006
ref: 60601
re: **Faro Groundwater Monitoring - Condition of multi-level well P03-07**

During 2006, Gartner Lee Limited staff conducted groundwater sampling for the Adaptive Management Plan (AMP) and for the routine groundwater sampling. As recommended in the 2005 Faro Mine Groundwater Monitoring Report, an investigation of multi-level well P03-07 was conducted to establish the condition of the sampling monitors at that location. This memo outlines activities and major observations undertaken at P03-07 during the 2006 sampling. Observations from previous sampling events are also summarized to assist in the evaluation.

Conditions at the well were noted in June, August and September 2006.

Condition of Multi-Level P03-07

As recommended in 2005, the condition of multi-level well P03-07 was examined by measuring water levels and attempting to sample open monitoring points. Only two points (#2 and #3) at this location had open tubes with water that wasn't frozen during the summer/fall of 2006. Point #2 is the monitoring point that has been sampled most often thus far. All other tubes are now suspected to be permanently frozen. Ice crystals were observed on the water level meter in points that were blocked suggesting the presence of ice in the monitoring point. Perma-frost conditions are suspected to exist within the tailings at this location based on observations during drilling. An ice lense was observed in the tailings at this location during drilling (see photos). Previous difficulties in sampling monitoring points at this location could be attributed to the presence of ice in the wells. Other factors such as the possible presence of bentonite in some of the sampling points are discussed in the 2004 Groundwater Monitoring Report.



Assessment of P03-07 based on observations up to 2006

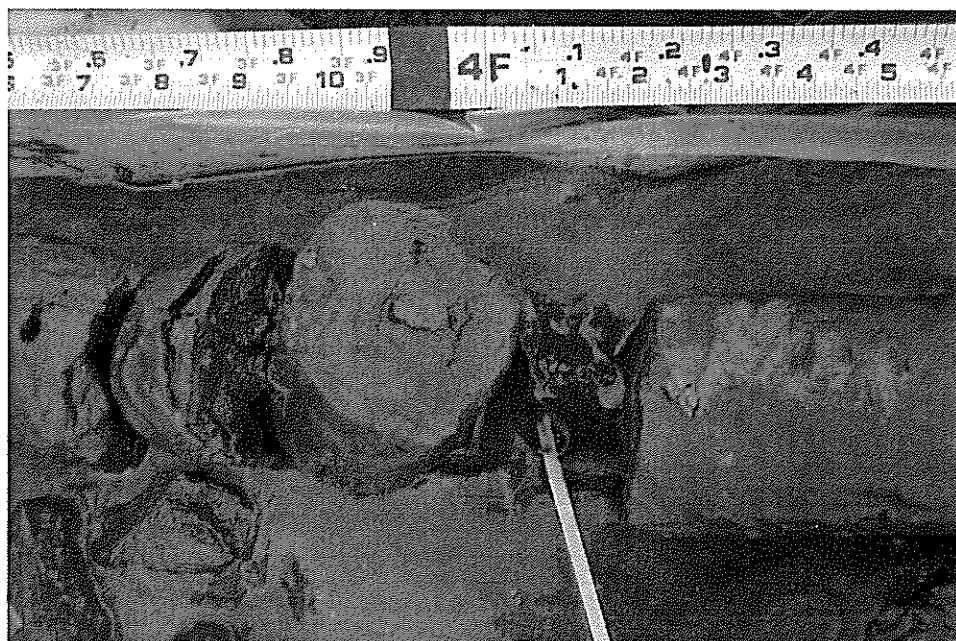
- **P03-07-01**
 - monitoring point suspected to be permanently frozen (within frozen tailings zone)
- **P03-07-02**
 - point can be sampled during summer months (only point that can be sampled consistently to date)
- **P03-07-03**
 - point could be sampled if not frozen, well usually frozen
- **P03-07-04**
 - monitoring point suspected to be permanently frozen (within frozen tailings zone)
- **P03-07-05**
 - point sometimes can be sampled during summer months
- **P03-07-06**
 - monitoring point suspected to be permanently frozen (within frozen tailings zone)
- **P03-07-07**
 - monitoring point suspected to be permanently frozen (within frozen tailings zone)
- **P03-07-08**
 - monitoring point suspected to be permanently frozen (within frozen tailings zone)

Recommendations

- Water levels should be verified in all sampling points again in 2007 during all monitoring events to provide further data for determining long-term usefulness of monitoring points at this location.
- Any not-frozen monitoring point, especially within the aquifer (such as P03-07-02) should continue to be monitored.



Photograph 1. Frozen tailings (perma-frost) zone at depth of approximately 38.5 - 40 ft (11.7 - 12.2 m bgs) during installation (photo from Sept. 1, 2003)



Photograph 2. Detailed view of frozen tailings (perma-frost) zone at depth of approximately 38.5 - 40 ft (11.7 - 12.2 m bgs) during installation (photo from Sept. 1, 2003)

Summary of Activities and Observations at Multi-Level Well Location P03-07

Fall 2003 *	
P03-07-01	not sampled
P03-07-02	sampled
P03-07-03	not sampled
P03-07-04	not sampled
P03-07-05	not sampled
P03-07-06	not sampled
P03-07-07	not sampled
P03-07-08	not sampled
10-Jun-04	
P03-07-01	water level at 13.02 m btoc
P03-07-02	water level at 13.07 m btoc, sampled
P03-07-03	water level at 13.1 m btoc, sampled, long time to filter (bentonite?)
P03-07-04	water level at 13.11 m btoc, sampled, long time to filter (bentonite?)
P03-07-05	blocked or frozen
P03-07-06	blocked or frozen
P03-07-07	blocked or frozen
P03-07-08	water level at 12.71 m btoc, sampled
07-Jun-06	
P03-07-01	blocked or frozen at 12.9 m btoc
P03-07-02	water level at 13.29 m btoc, sampled
P03-07-03	slush in tubing at 13.32 m btoc
P03-07-04	** blocked or frozen at 13.20 m btoc
P03-07-05	** blocked or frozen at 13.30 m
P03-07-06	** blocked or frozen at 13.1 m btoc
P03-07-07	** blocked or frozen at 13.3 m btoc
P03-07-08	** blocked or frozen at 12.8 m btoc
14-Jun-06	
P03-07-01	blocked or frozen at 13.05 m btoc
P03-07-02	
P03-07-03	water level at 13.29 m btoc
P03-07-04	blocked or frozen at 13.33 m btoc
P03-07-05	blocked or frozen at 13.35 m btoc
P03-07-06	blocked or frozen at 13.13 m btoc
P03-07-07	blocked or frozen at 13.36 m btoc
P03-07-08	blocked or frozen at 12.91 m btoc
Aug-03	
P03-07-01	blocked or frozen at 13.02 m btoc.
P03-07-02	water level at 13.31 m btoc, tubing open to > 32 m btoc
P03-07-03	water level at 13.32 m btoc, tubing open to 29.82 m btoc
P03-07-04	blocked or frozen at 13.30 m btoc
P03-07-05	blocked or frozen at 12.11 m btoc
P03-07-06	blocked or frozen at 13.11 m btoc
P03-07-07	blocked or frozen at 13.36 m btoc
P03-07-08	blocked or frozen at 12.90 m btoc
20-Sep-06	
P03-07-01	blocked or frozen at 13.04 m btoc
P03-07-02	water level at 13.29 m btoc, sampled
P03-07-03	water level at 13.30 m btoc, no sample
P03-07-04	blocked or frozen at 13.29 m btoc
P03-07-05	water level at 13.29 m btoc, sampled, slow to filter, took split sample
P03-07-06	blocked or frozen at 13.11 m btoc
P03-07-07	blocked or frozen at 13.32 m btoc
P03-07-08	blocked or frozen at 12.89 m btoc

Notes:

* data from 2003 collected shortly after well installation

** depths are approximate

stickup of centre stalk at P03-07 is equal to 0.78 m

frozen tailings identified in core in zone (12.5 – 13.7 m bgs) (13.28 - 14.48 m btoc) applies to all monitoring points (1 through 8)



